



PEGASOS Refinement Project

Probabilistic Seismic Hazard Analysis for Swiss Nuclear Power Plant Sites

Volume 2 - Results -

by

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Chapter 1

Introduction

This volume contains the full suite of hazard results as specified by the Project Plan (see PMT-TB-1012) in the form of figures. The figure sets consist of hazard curves (main results and sensitivity analyses), hazard spectra, deaggregation plots and sensitivity histograms.

In this section, the computational setting used to obtain the figures in each figure set is described.

- **Rock Hazard Curves:** Out of the 99 fractiles calculated, five are shown in these main figures for the horizontal and vertical components. Figures are presented for the nine project spectral frequencies.
- **Rock Uniform Hazard Spectra:** The figures with uniform hazard spectra (UHS), including the sensitivity figures, were only produced if the mean hazard existed at all frequencies for the given level of annual probability of exceedance. Any requirement for extrapolation of the data to cover a missing value for a particular level of exceedance probability led to the exclusion of the associated figure. There is only one exception to this rule, namely for the UHS level of $1E-03$, where the UHS figure is shown despite missing frequencies for the mean. In addition, in the case of the retained figures, the fractiles were not extrapolated towards the UHS level of probability of exceedance. This means that in a few cases, a few spectra of lower fractiles and of the median do not cover the full frequency range.
- **Soil UHS:** The soil hazard UHS (both for the horizontal and the vertical components) are shown with the vectors of 57 frequencies chosen as to optimally sample the frequency dependence of the soil amplification function.
- **Deaggregation Figures:** The computation of the deaggregation is done with increments of 0.1 magnitude units and for the distance 2.5 km have been used (with epsilon increments of 0.2). The size of the bins for deaggregation figures was chosen to be 10 km, 0.5 magnitude unit and 1 epsilon, whereas for the probability density plots the original increment size is used. The last distance bin contains the contributions from all distances larger than 100 km. The distance metric used here is a combination of the distance metrics used by the individual GMPEs considered by the SP2 experts in their model. Nine of the requested 27 combinations of annual probability and spectral

frequency were calculated while the deaggregation results for the remaining 18 were obtained through interpolation (see section Chapter 7 in Volume 1): Besides the marginal distributions shown in each figure, a series of additional figures show the mean magnitude, distance and epsilon as functions of the annual probability of exceedance for given frequencies. The latter can be used to define the controlling earthquakes at a site.

- **Main Contributors:** The next set of figures shows, for each SP1 expert team, the seismic sources with the largest contribution to the mean rock hazard. The criteria chosen to assess the importance of the contributions were: the mean hazard at 0.05 g spectral acceleration for the 1 Hz figures and the mean hazard at 0.1 g spectral acceleration for the 100 Hz figures. These figures are based on the hazard obtained with a simplified version of F. Cotton’s (SP2) model, but using the full SP1 logic trees of each SP1 expert team.
- **Expert Comparisons.** The expert comparisons for a given subproject are all based on the full models of the other subprojects (SP2 for SP1, SP1 for SP2 as well as SP1 and SP2 for SP3).
- **SP2 Sensitivity for the Horizontal Component:** Unlike all other figures in this volume (with the exception of the sensitivity histograms for SP2, see below), these figures were obtained by using the 5 point distributions of $V_S - \kappa$ corrections in order to be able to also show the sensitivity to that SP2 variable. The entire EG1c model was used on the source characterization (SP1) side. For F. Cotton’s sensitivity to model category figures, “AS” represents the AbSi08 model, as this is the only GMPE this expert considered. “B1” to “B5” represent the five sampled $V_S - \kappa$ correction factors for the GMPEs and “B6” to “B0” (where available) represent the $V_S - \kappa$ correction factors for the Swiss stochastic model (PSSM) versions.
- **SP2 Sensitivity for the Rock Vertical Component:** These figures were obtained combining the horizontal rock hazard (resulting from the entire SP1 and SP2 models) with the SP2 models for the V/H ratio and for the additional sigma V_{ADD} . The sensitivity figures for V_{ADD} are special inasmuch as the “NO V_{ADD} ” branch is not part of the expert models (hence the 0 weight) but has been calculated to show the impact of this additional component of aleatory variability on the mean vertical rock hazard.
- **Sensitivity Histograms for SP1:** The overall mean hazard shown in these figures as a vertical black line is the horizontal mean hazard obtained by combining the four SP1 expert team’s models with a simplified version of Cotton’s model used in these sensitivity calculations. The individual blocks of SP1 expert team’s bullets plot on both sides of the overall mean hazard (as defined above). The SP1 expert teams comparison shown in the uppermost line is based on the entire SP2 model.
- **Sensitivity Histograms for SP2:** The overall mean hazard shown in these figures as a vertical black line is the horizontal mean hazard obtained by combining EG1c’s with the four SP2 models with the 5 point distribution of $V_S - \kappa$ correction factors used in these sensitivity calculations. As a reference, the spread of the SP1 teams’ mean hazard is shown. The vertical mean hazard for the four SP2 experts is also shown in these figures and the bullets pertaining to global variables of the vertical logic tree (“*VH_Model*” and “*VSIGMA*”) plot below the expert specific mean vertical hazard. The vertical sensitivity results are shown relative to the horizontal mean hazard and

thus, plot more to the left of the vertical black line, if the mean V/H ratio is less than unity. In these sensitivity histograms, a distinction is made between GMPE branches, plotted as disks in the relevant levels and the PSSM branches, plotted as squares.

- **Sensitivity Histograms for SP3:** The overall mean hazard shown in these figures as a vertical black line is the mean horizontal soil hazard. The vertical mean hazard for the four SP3 experts is also shown in these figures and the bullets pertaining to global variables of the vertical logic tree (“*V-Concept*” and “*V-GMPE*”) plot below the expert specific mean vertical hazard, which is shown relative to the horizontal mean hazard. All bullets are blue in the lower part of the figures because the weights associated with each individual branch are variable as they depend among other on the PGA level. The parameter sensitivity calculations were performed with the aleatory variability set to zero. The influence of this model simplification is shown in the two lines following the relative SP3 expert comparison (for horizontal and vertical component) in the uppermost lines, which are evaluated with the full SP3 models.

This volume has also an electronic appendix which consists of the numerical values (tables) of the plotted hazard curves and UHS. For each site a set of hazard curves and uniform hazard spectra exists as a numerical table with the file naming corresponding to the figure numbering in the report. These numerical tables are provided as electronically stored ASCII-tables. There are two sets of tables: the first one contains the numerical values of the six curves (mean, 5%, 16%, 50%, 84% and 95%) shown in this volume and the second set contains the numerical values of all 99 fractiles for rock and soil.

The structure of the electronic appendix closely follows the outline of Volume 2. There is one file per figure and the file name directly refers to the figure number (e.g. Fig. 2-01.01.asc). Each file contains a header describing the content of the figure, followed by a first section with matrices of the X- and Y-data, and a second section listing X- and Y-vector pairs for each curve of the figure. The plotting tool RDZ-ASW-1015 allows an easy loading and visualization of the hazard and UHS curves.

Chapter 2

BEZNAU

2.1 Beznau, Rock Hazard, Horizontal Component

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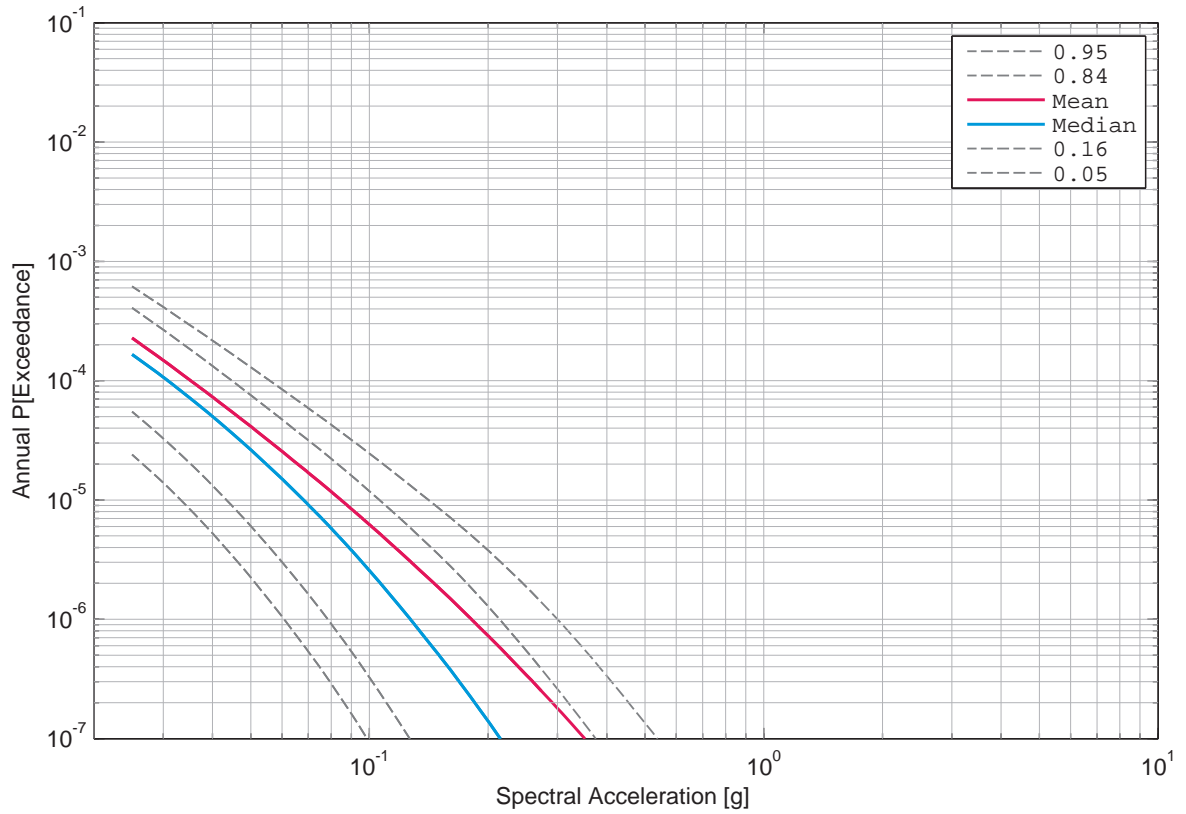


Figure 2.1.1: Beznau, horizontal component, rock, mean hazard and fractiles, 0.5 Hz.

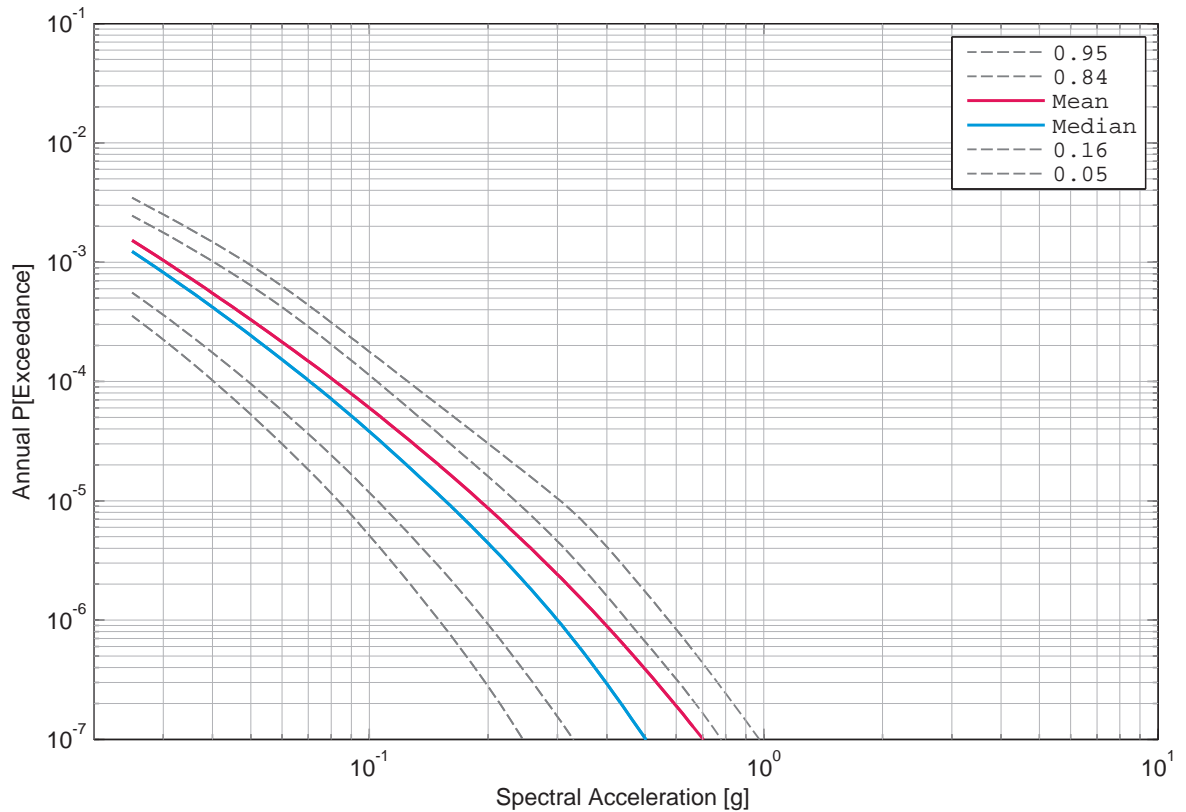


Figure 2.1.2: Beznau, horizontal component, rock, mean hazard and fractiles, 1 Hz.

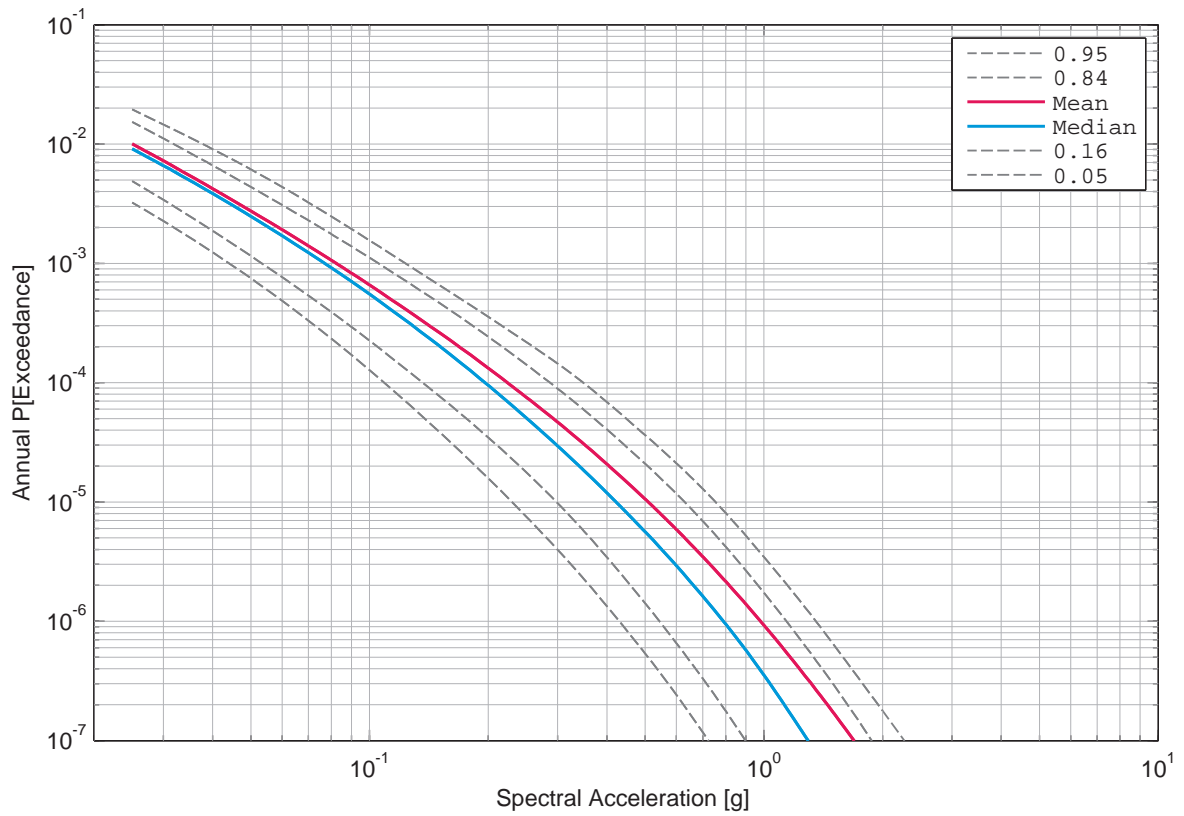


Figure 2.1.3: Beznau, horizontal component, rock, mean hazard and fractiles, 2.5 Hz.

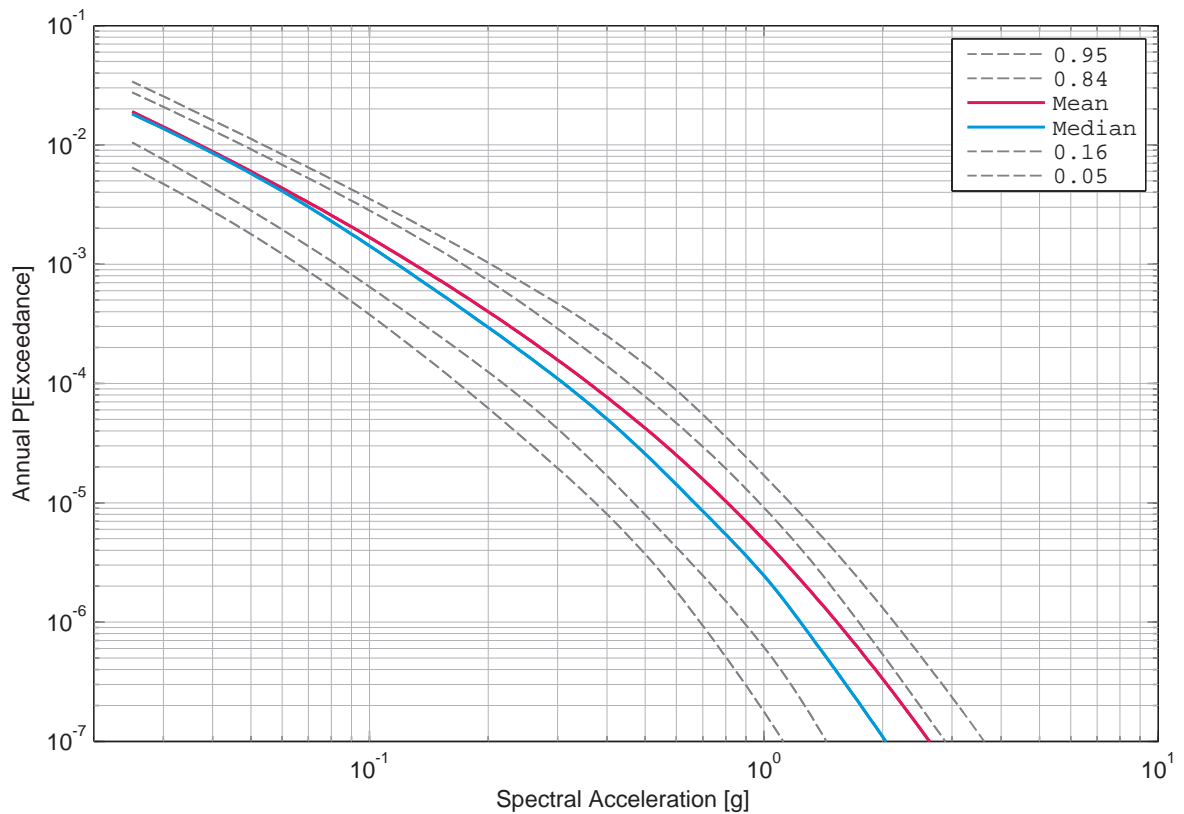


Figure 2.1.4: Beznau, horizontal component, rock, mean hazard and fractiles, 5 Hz.

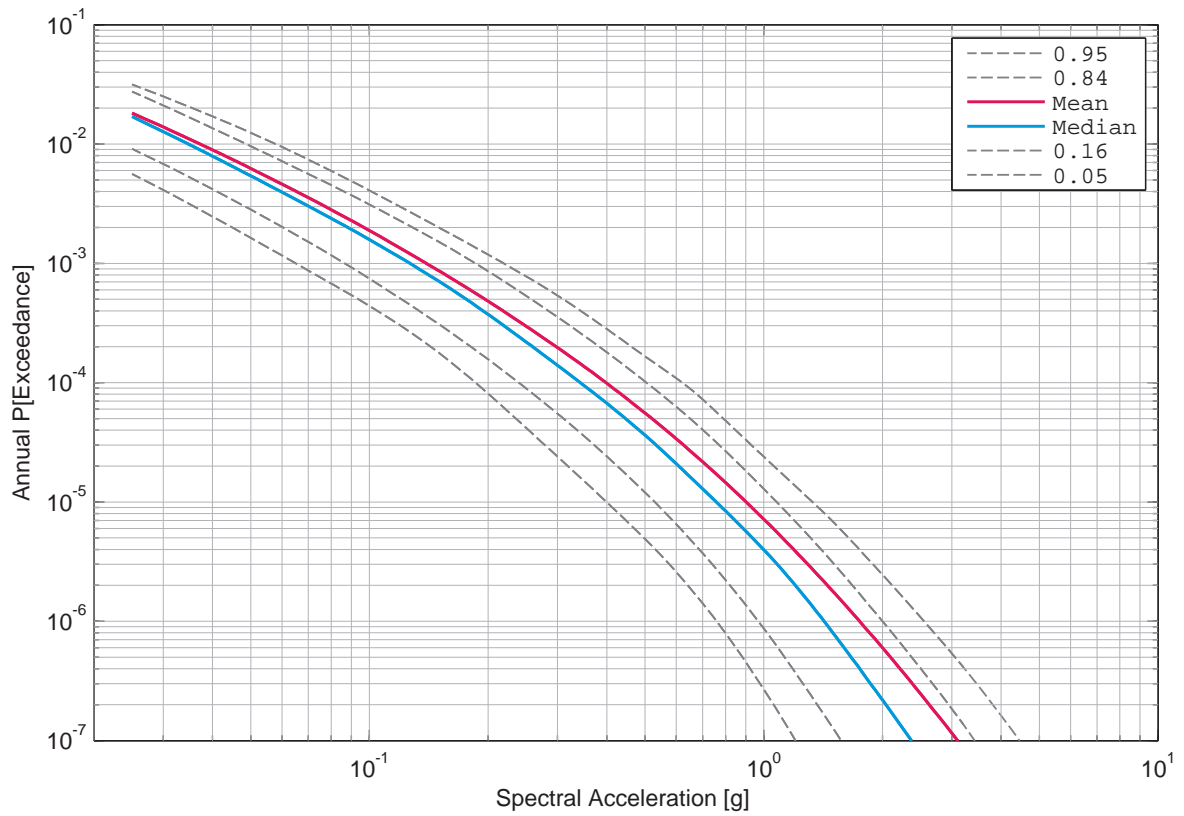


Figure 2.1.5: Beznau, horizontal component, rock, mean hazard and fractiles, 10 Hz.

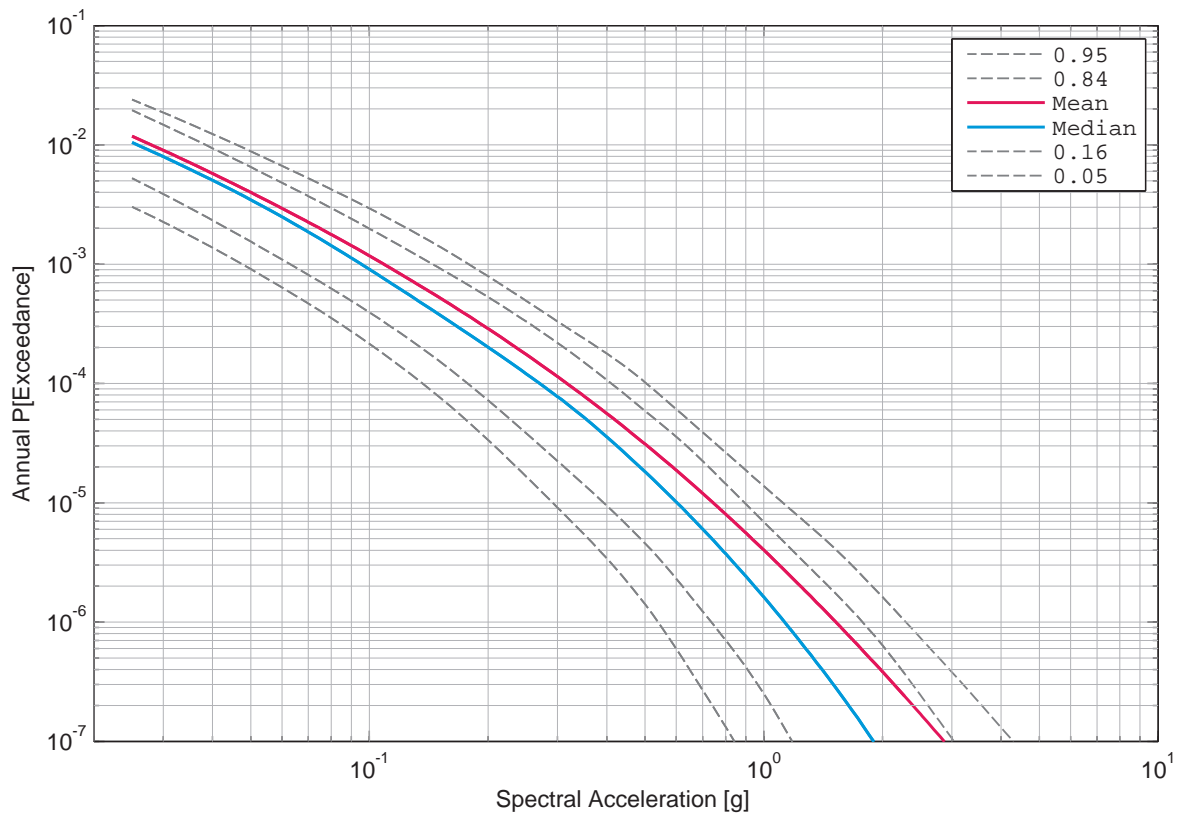


Figure 2.1.6: Beznau, horizontal component, rock, mean hazard and fractiles, 20 Hz.

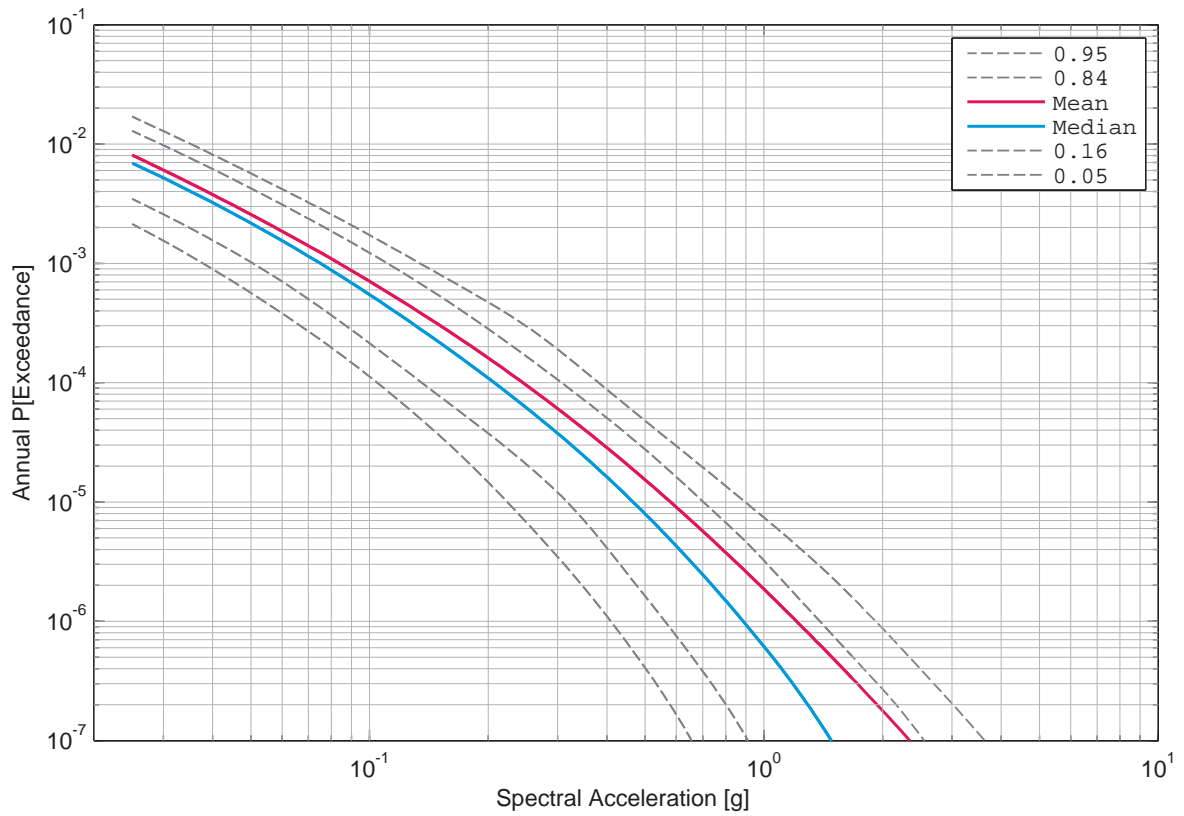


Figure 2.1.7: Beznau, horizontal component, rock, mean hazard and fractiles, 33 Hz.

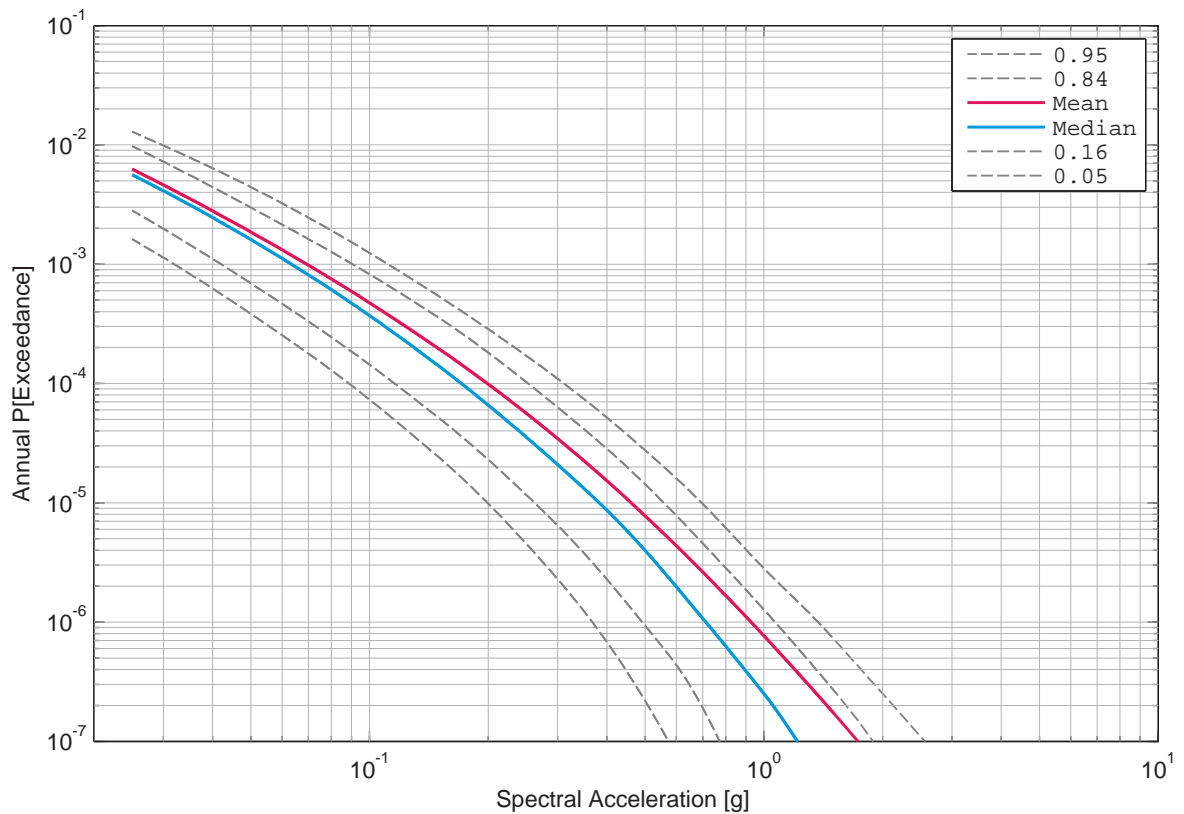


Figure 2.1.8: Beznau, horizontal component, rock, mean hazard and fractiles, 50 Hz.

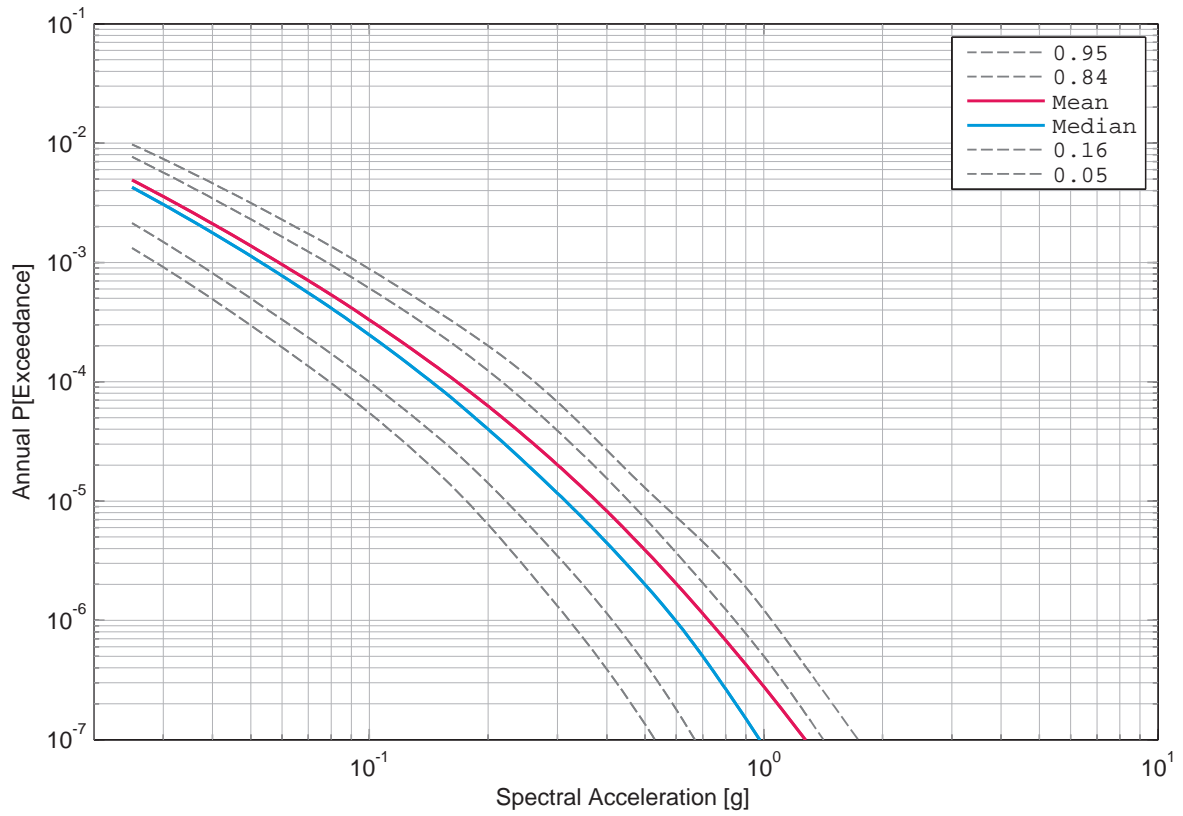


Figure 2.1.9: Beznau, horizontal component, rock, mean hazard and fractiles, 100 Hz.

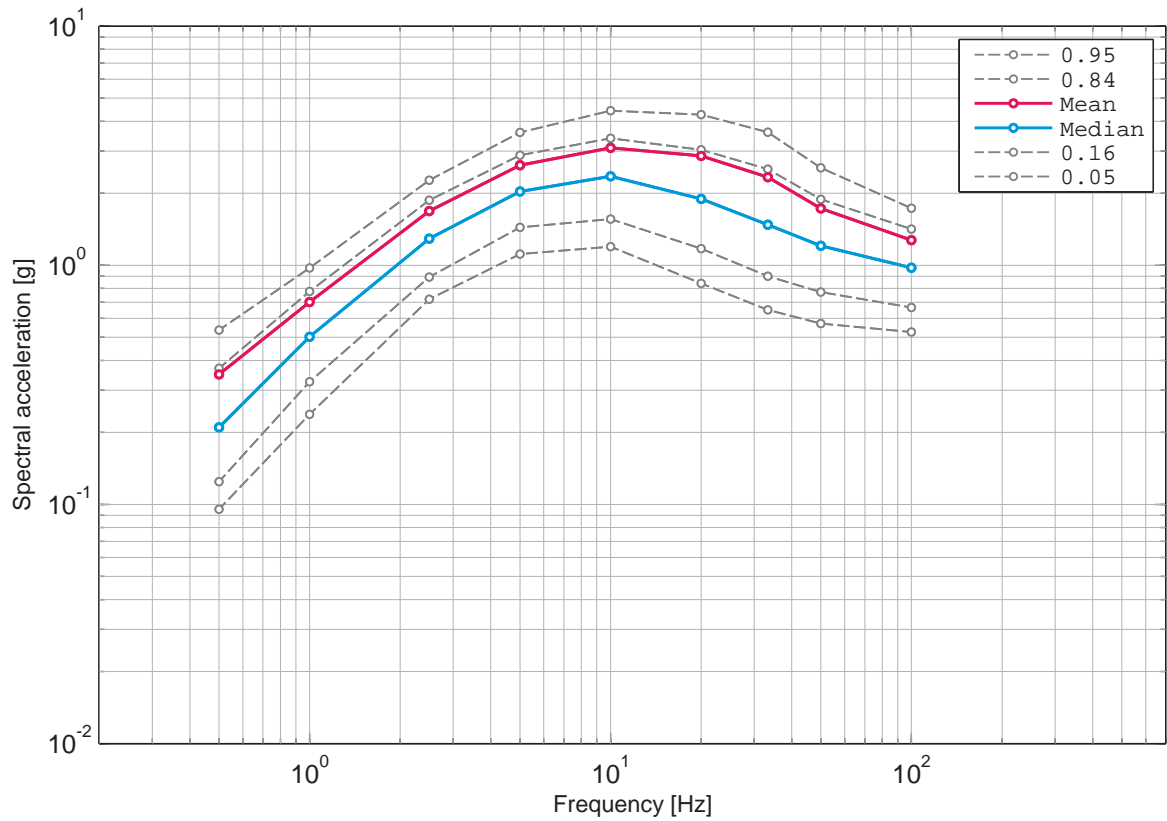


Figure 2.1.10: Beznau, horizontal component, rock, uniform hazard spectra for an annual probability of exceedance of 1E-07 and 5% damping.

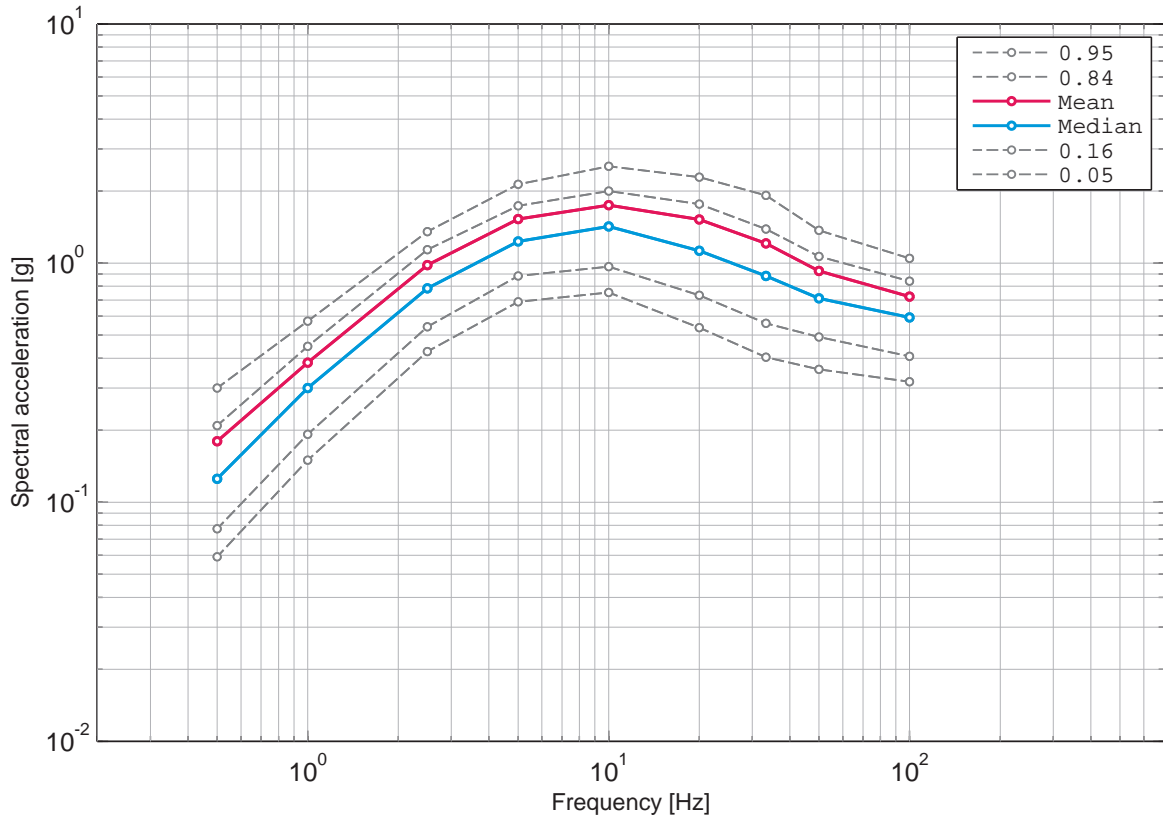


Figure 2.1.11: Beznau, horizontal component, rock, uniform hazard spectra for an annual probability of exceedance of 1E-06 and 5% damping.

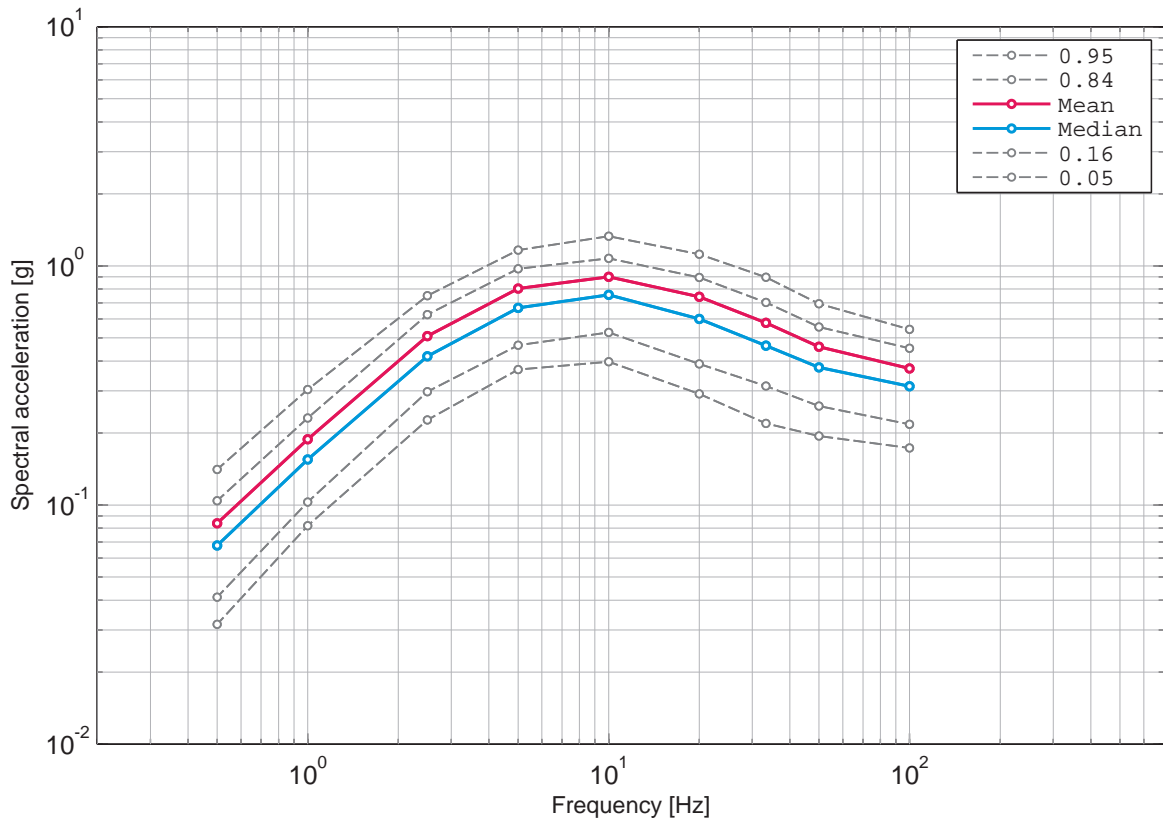


Figure 2.1.12: Beznau, horizontal component, rock, uniform hazard spectra for an annual probability of exceedance of 1E-05 and 5% damping.

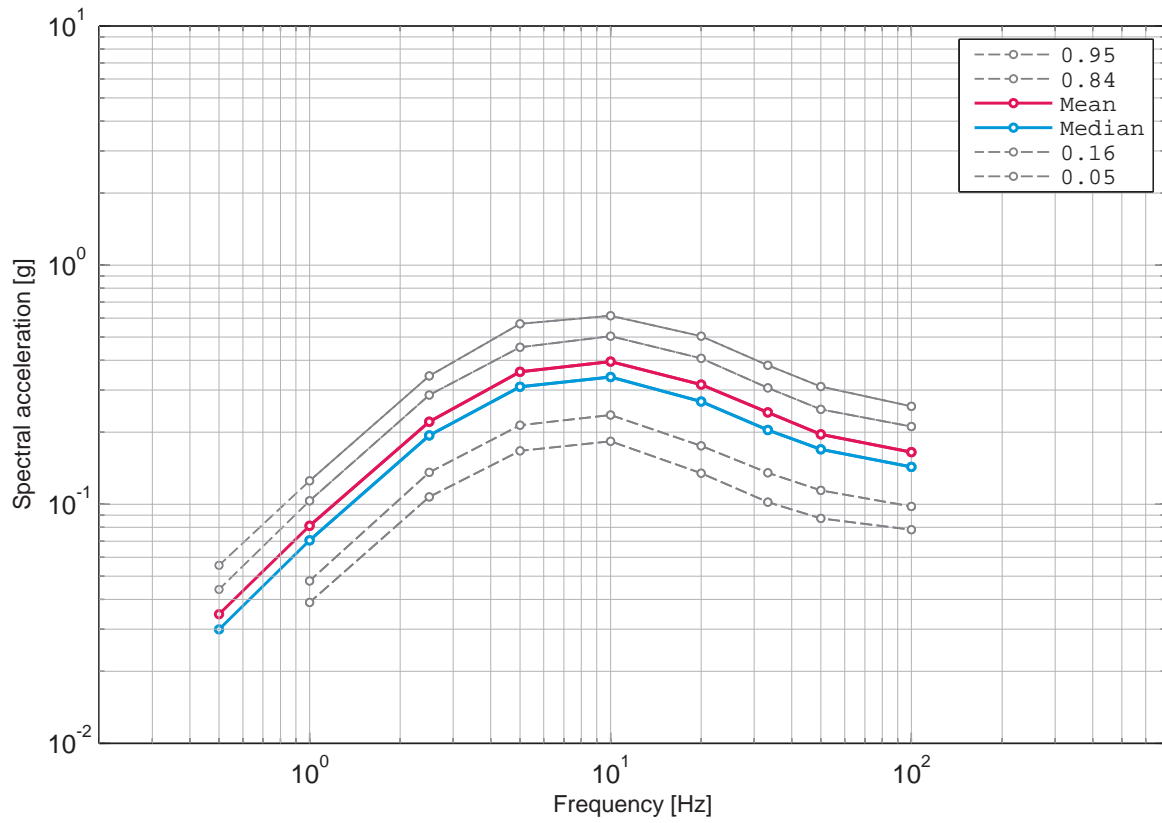


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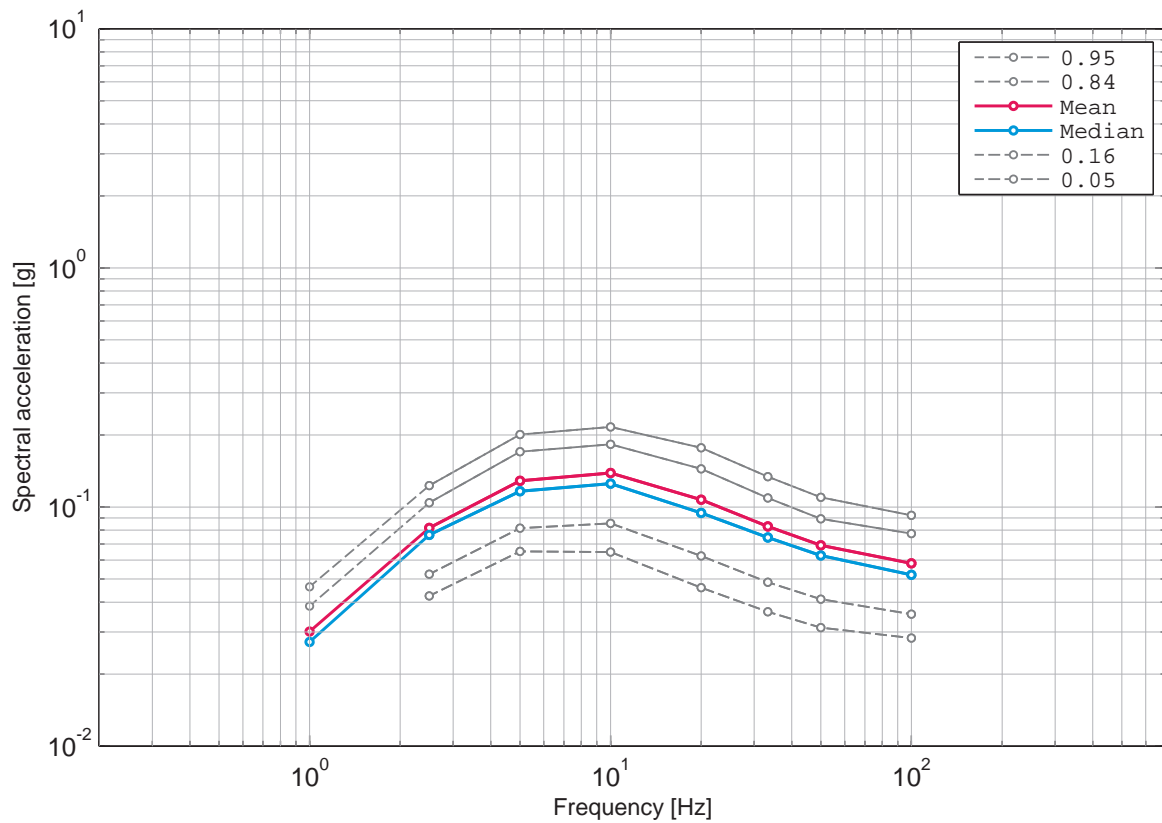


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2.2 Beznau, Soil Hazard, Horizontal Component, Surface

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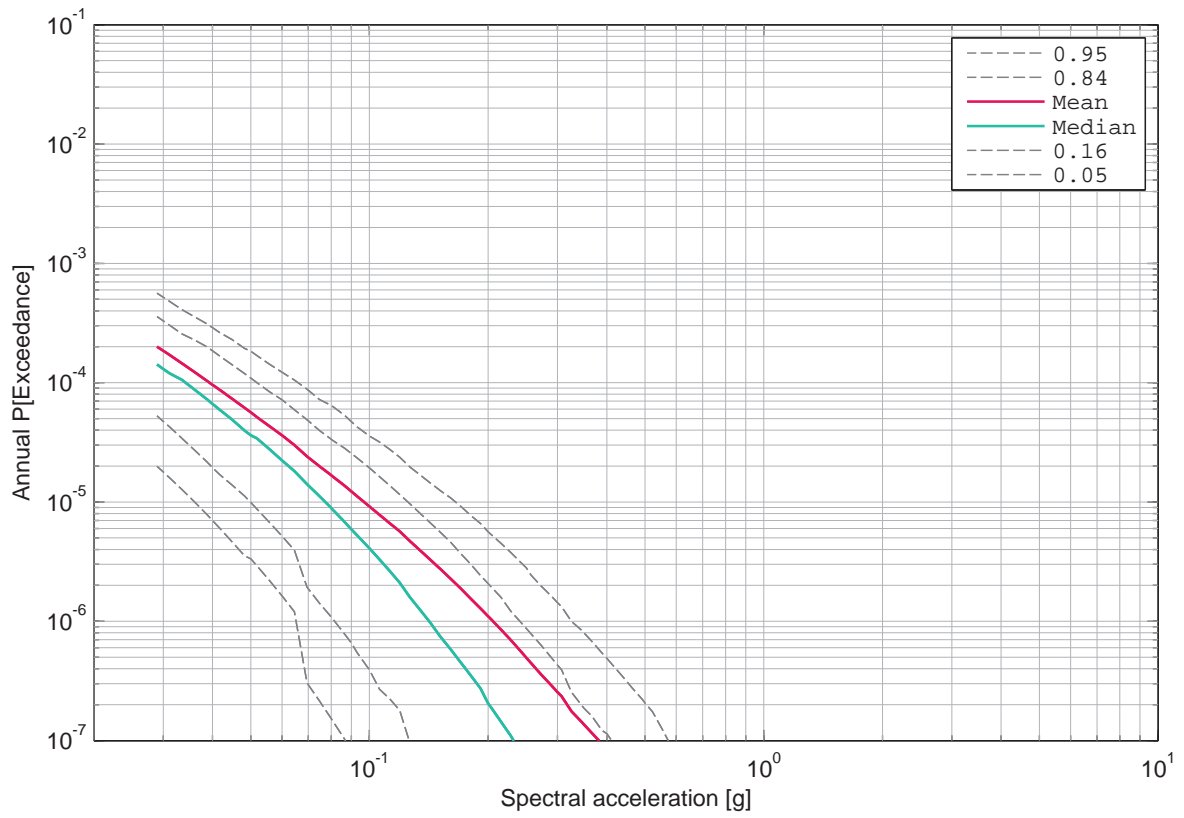


Figure 2.2.1: Beznau, horizontal component, soil, surface, mean hazard and fractiles, 0.5 Hz.

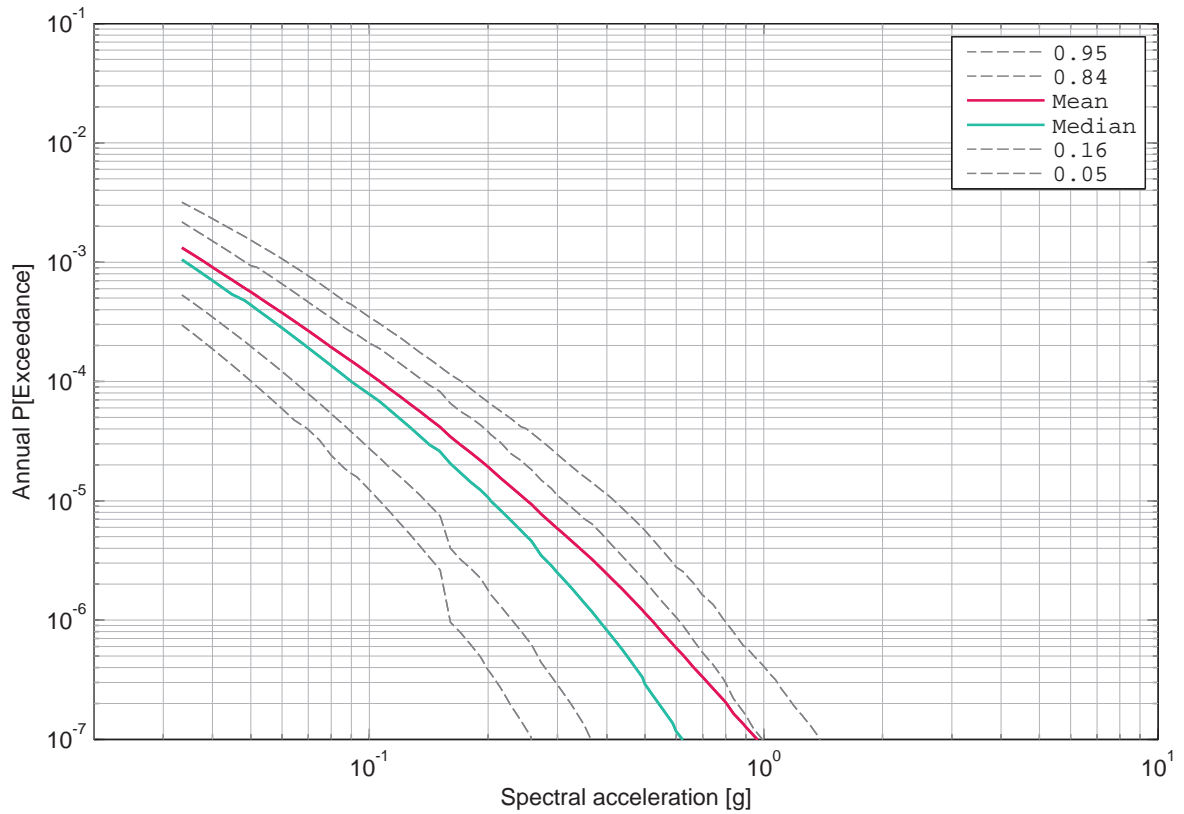


Figure 2.2.2: Beznau, horizontal component, soil, surface, mean hazard and fractiles, 1 Hz.

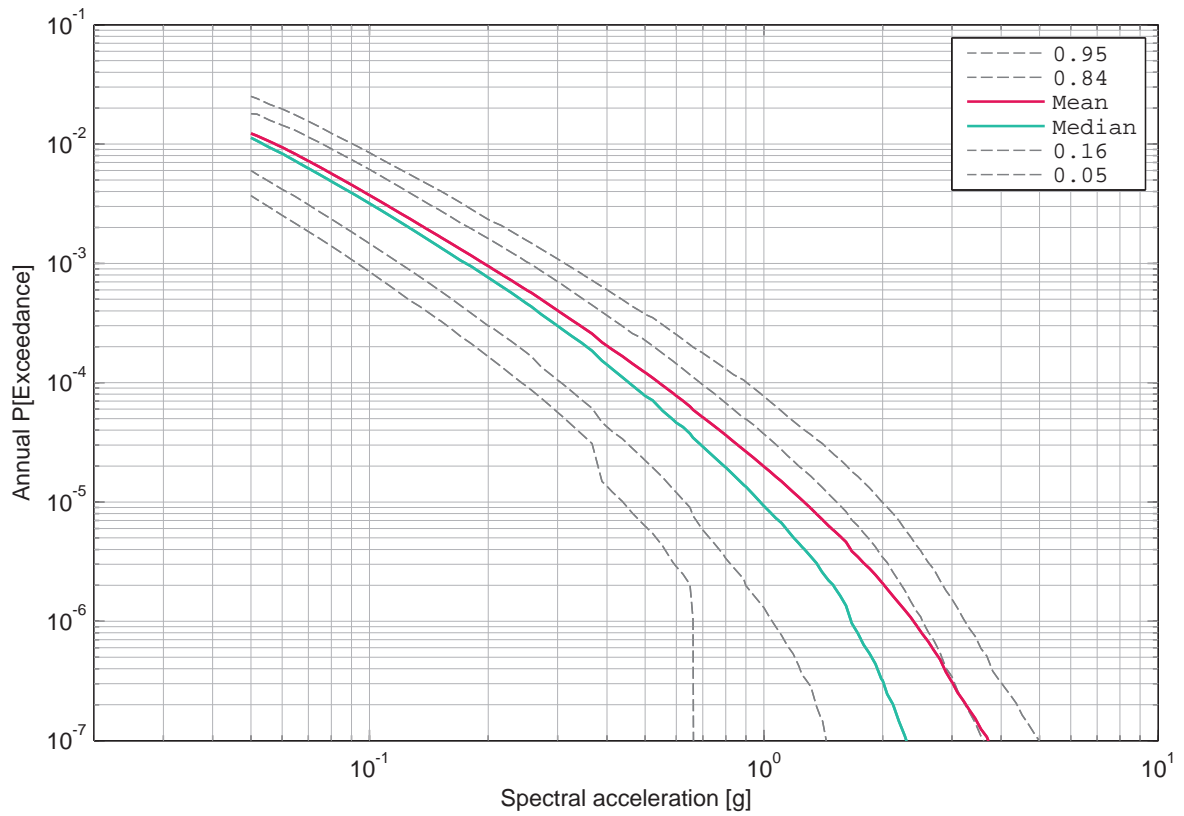


Figure 2.2.3: Beznau, horizontal component, soil, surface, mean hazard and fractiles, 2.5 Hz.

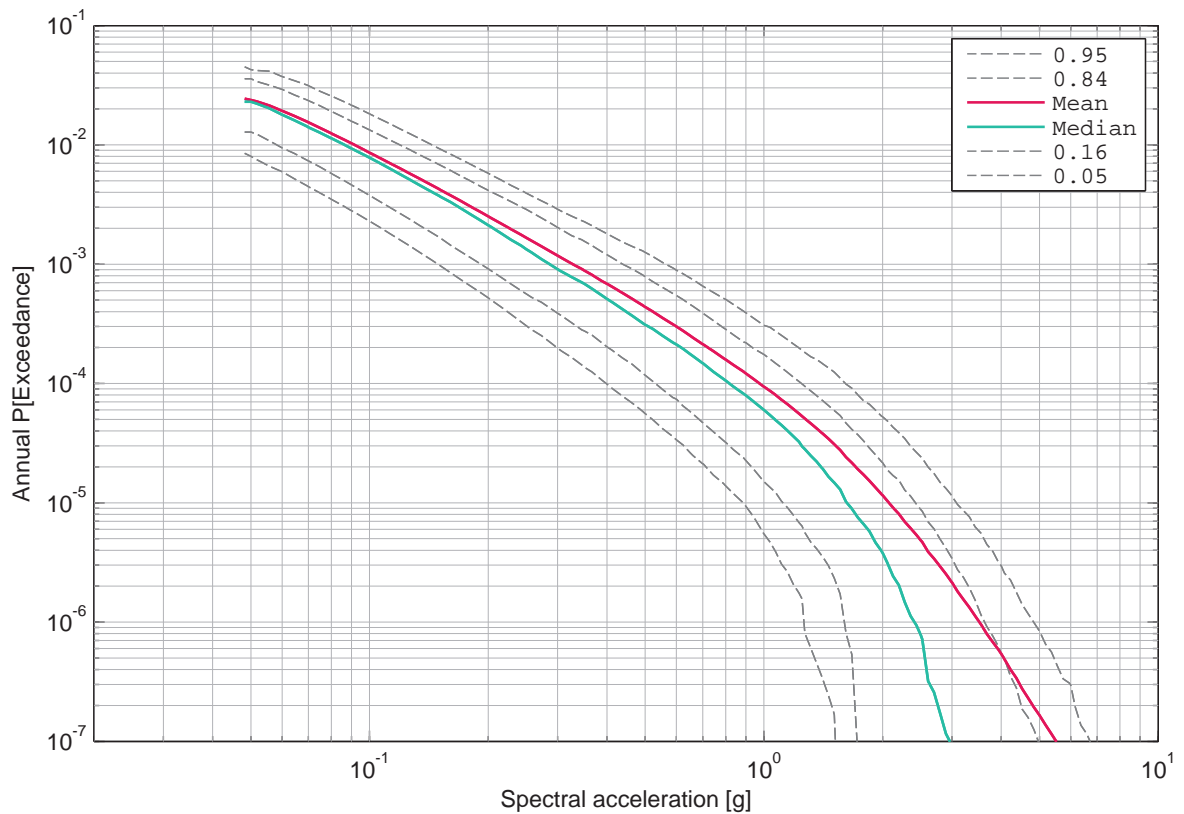


Figure 2.2.4: Beznau, horizontal component, soil, surface, mean hazard and fractiles, 5 Hz.

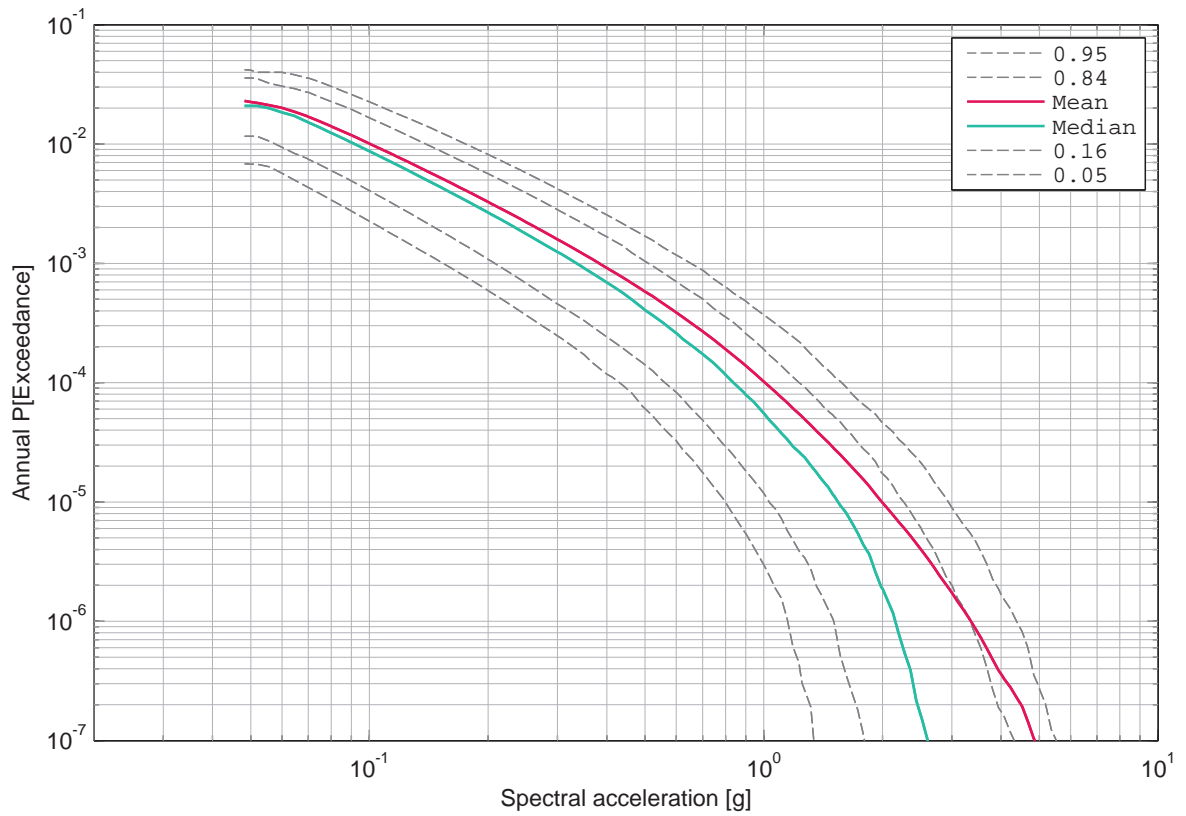


Figure 2.2.5: Beznau, horizontal component, soil, surface, mean hazard and fractiles, 10 Hz.

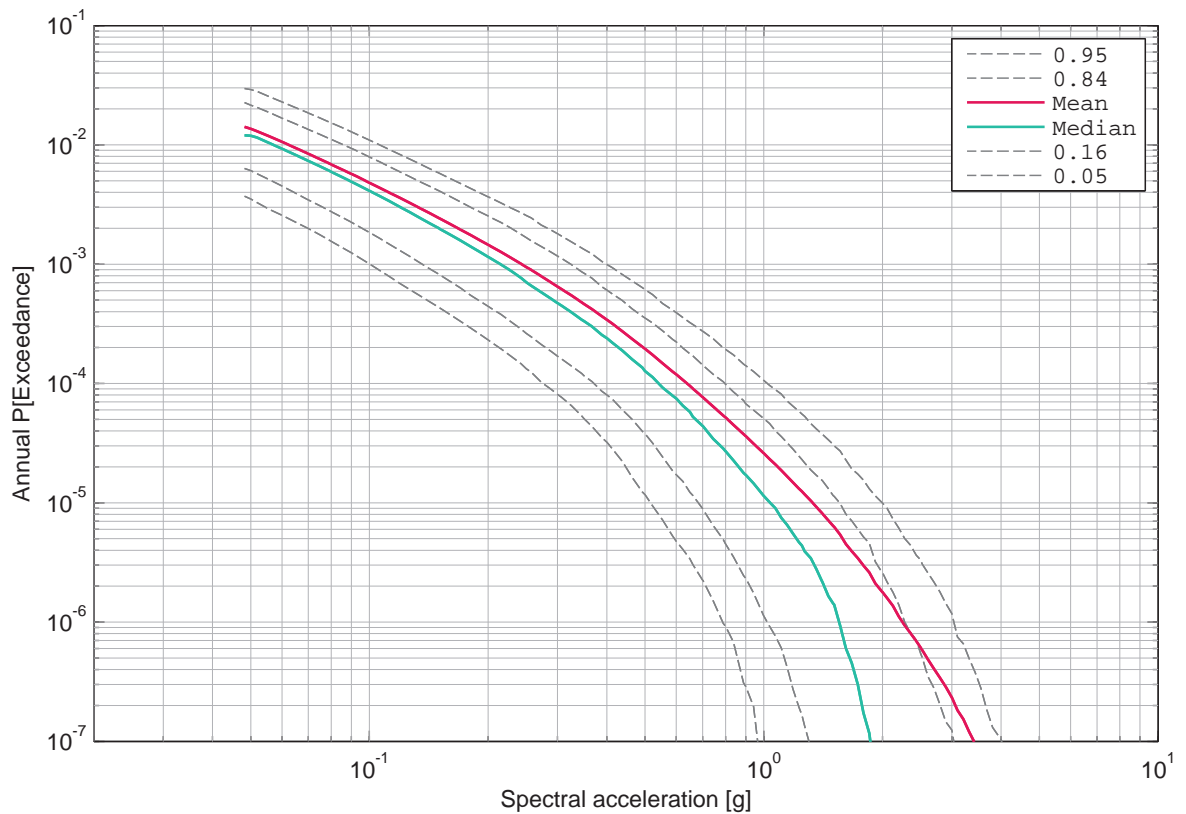


Figure 2.2.6: Beznau, horizontal component, soil, surface, mean hazard and fractiles, 20 Hz.

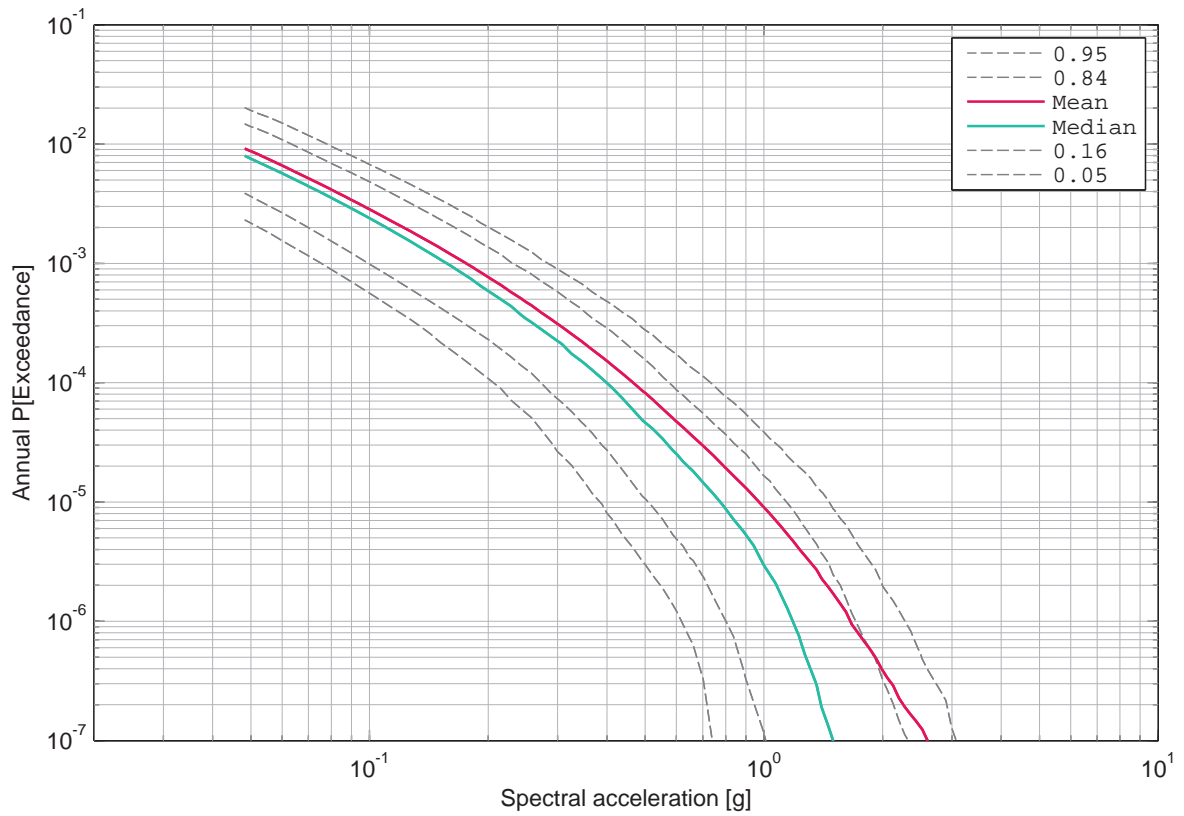


Figure 2.2.7: Beznau, horizontal component, soil, surface, mean hazard and fractiles, 33 Hz.

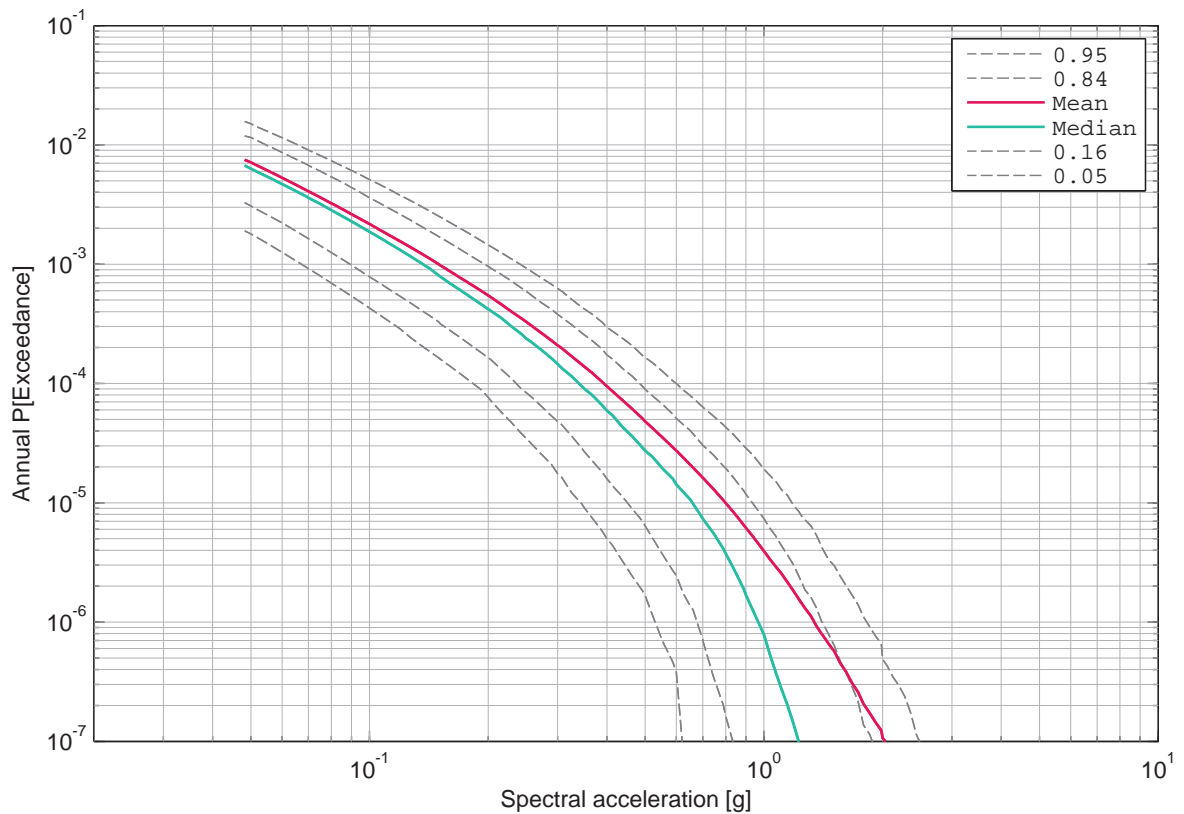


Figure 2.2.8: Beznau, horizontal component, soil, surface, mean hazard and fractiles, 50 Hz.

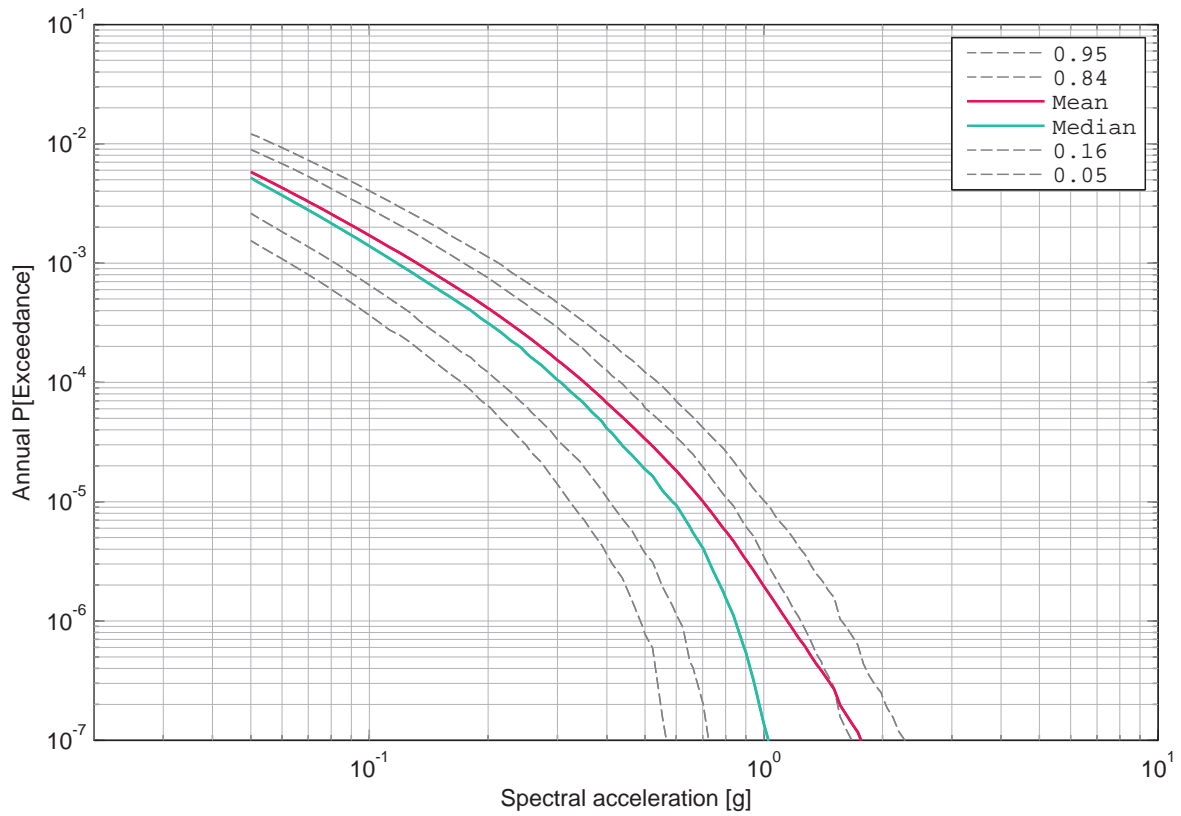


Figure 2.2.9: Beznau, horizontal component, soil, surface, mean hazard and fractiles, 100 Hz.

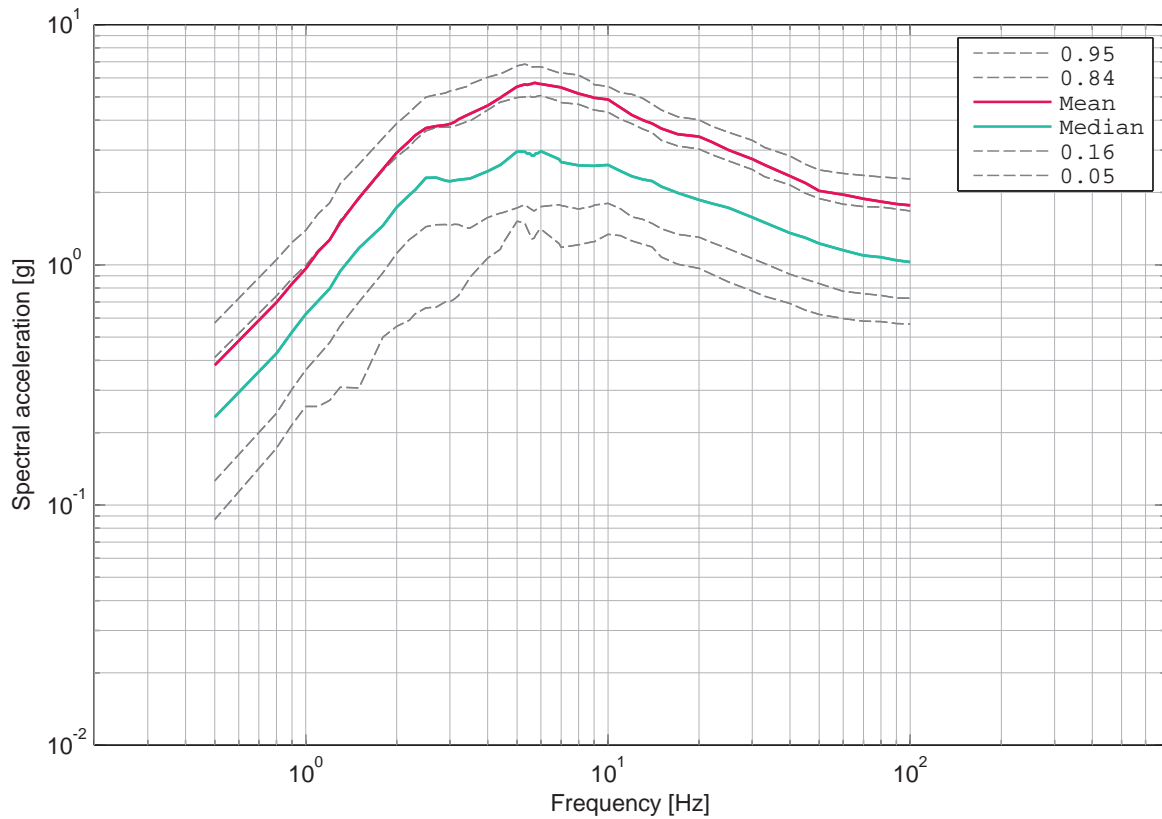


Figure 2.2.10: Beznau, horizontal component, soil, surface, UHS for an annual probability of exceedance of 1E-07 and 5% damping.

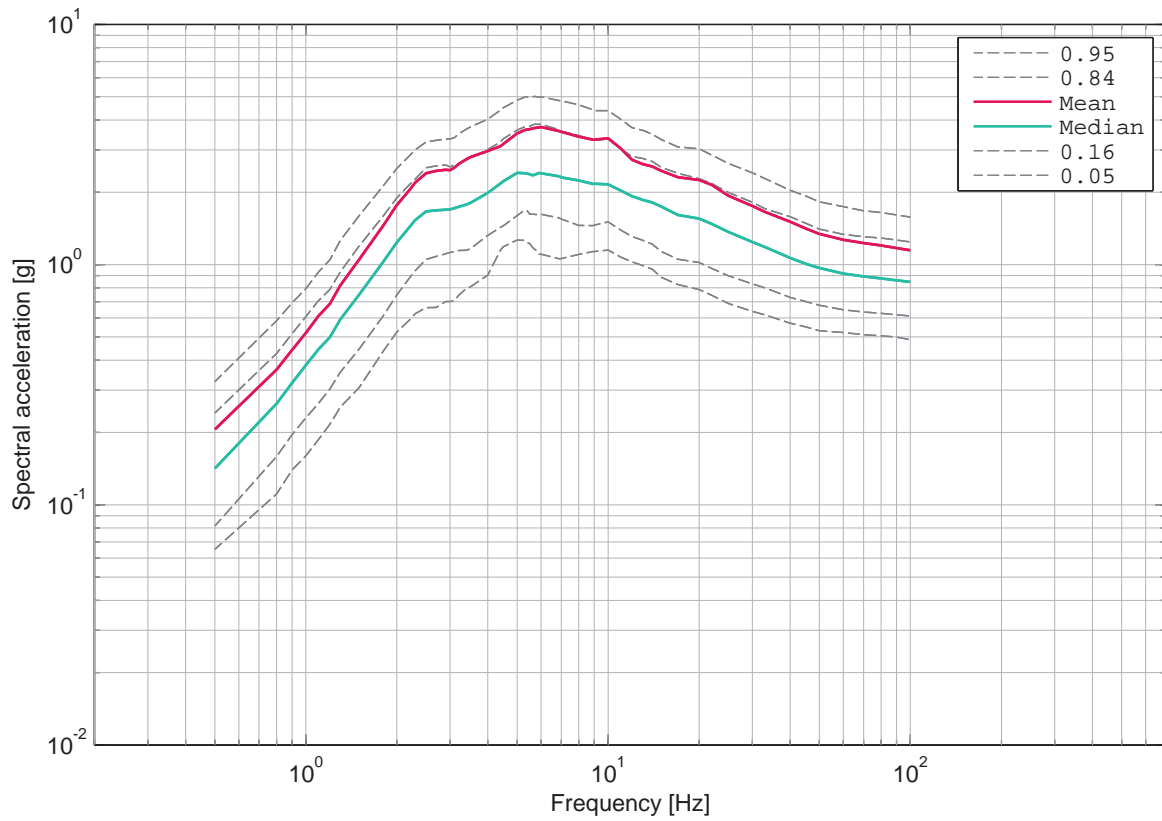


Figure 2.2.11: Beznau, horizontal component, soil, surface, UHS for an annual probability of exceedance of 1E-06 and 5% damping.

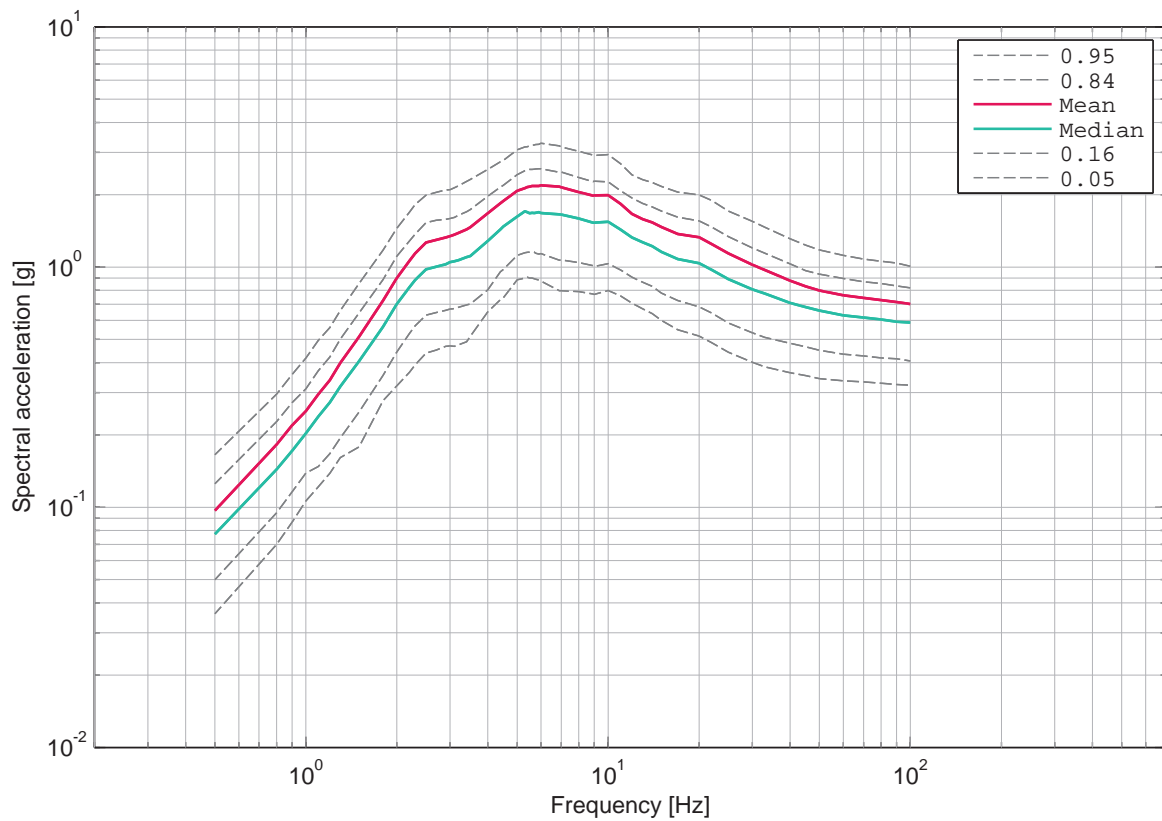


Figure 2.2.12: Beznau, horizontal component, soil, surface, UHS for an annual probability of exceedance of 1E-05 and 5% damping.

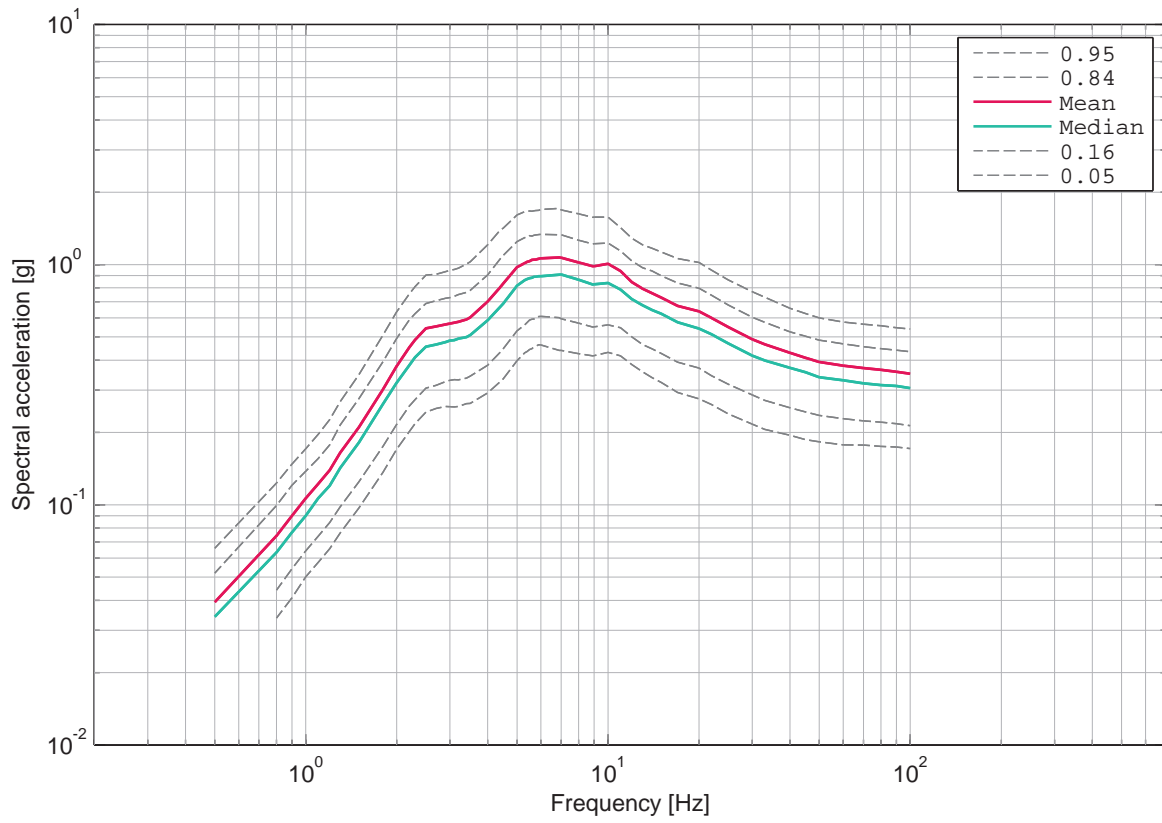


Figure 2.2.13: Beznau, horizontal component, soil, surface, UHS for an annual probability of exceedance of 1E-04 and 5% damping.

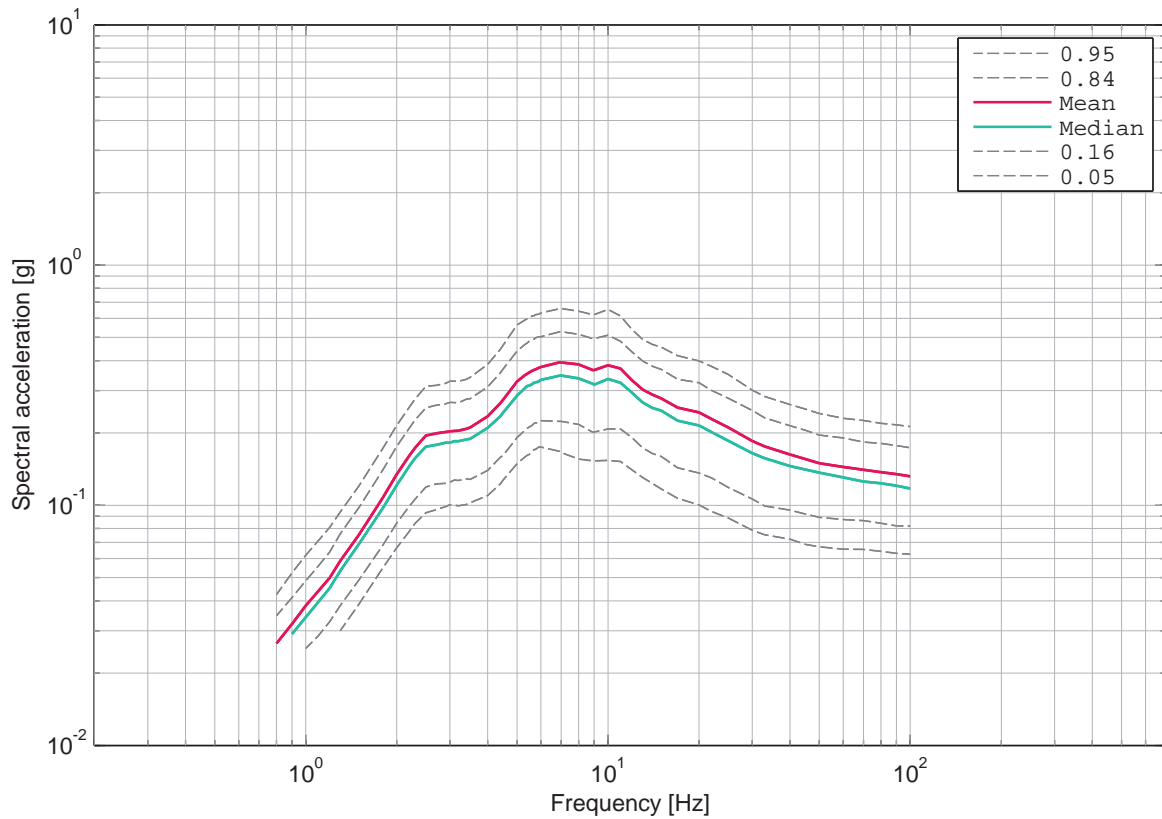


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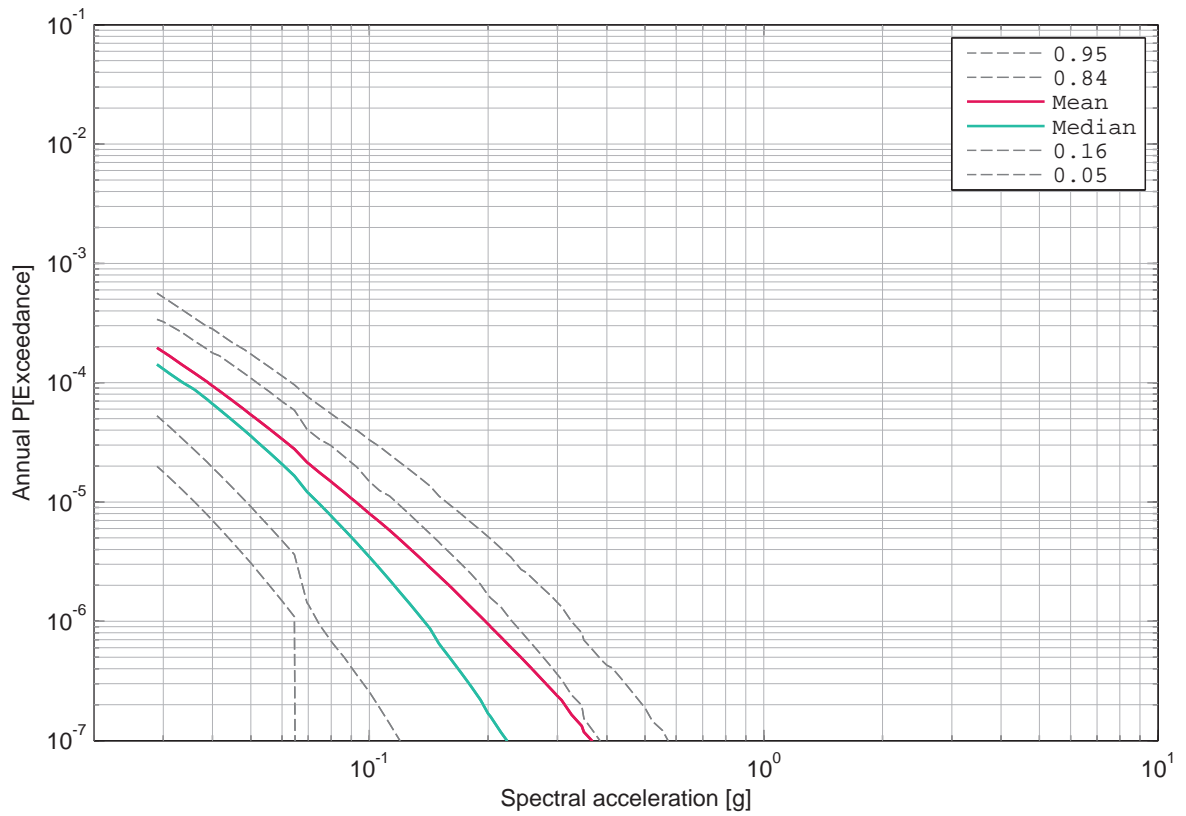


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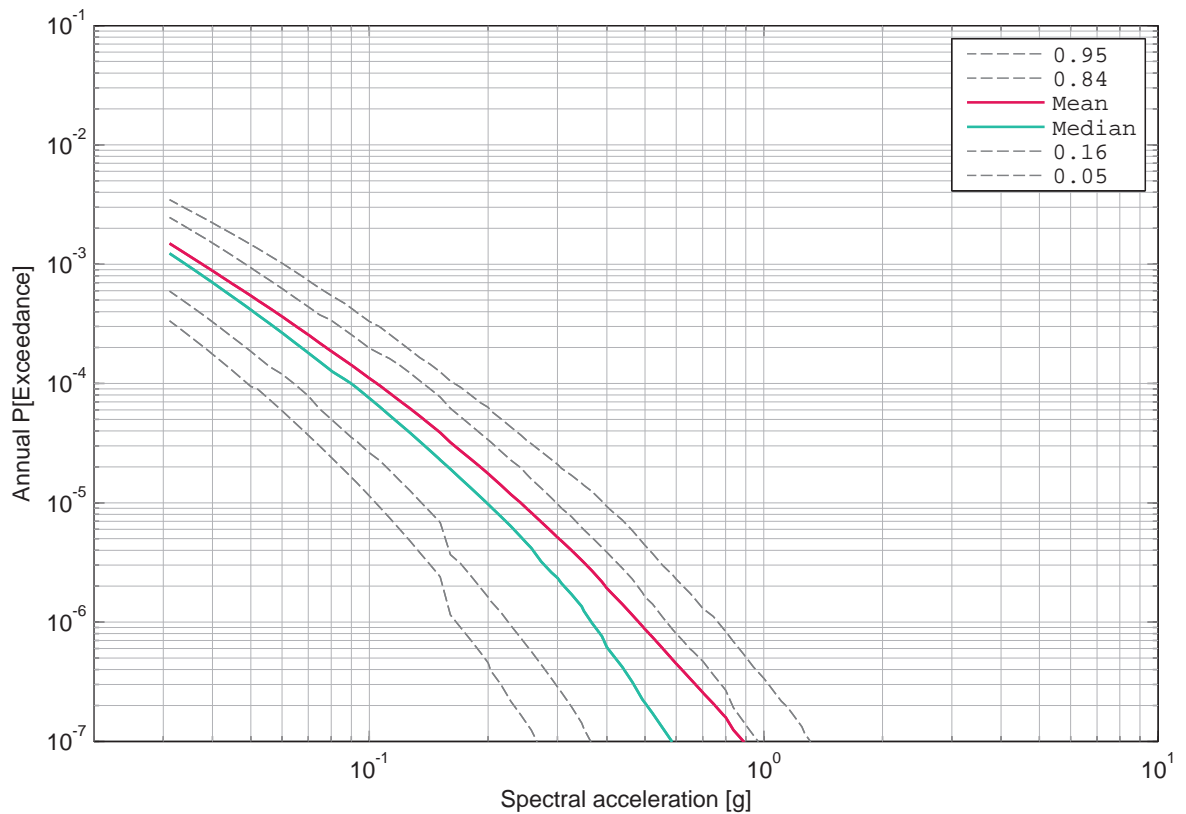


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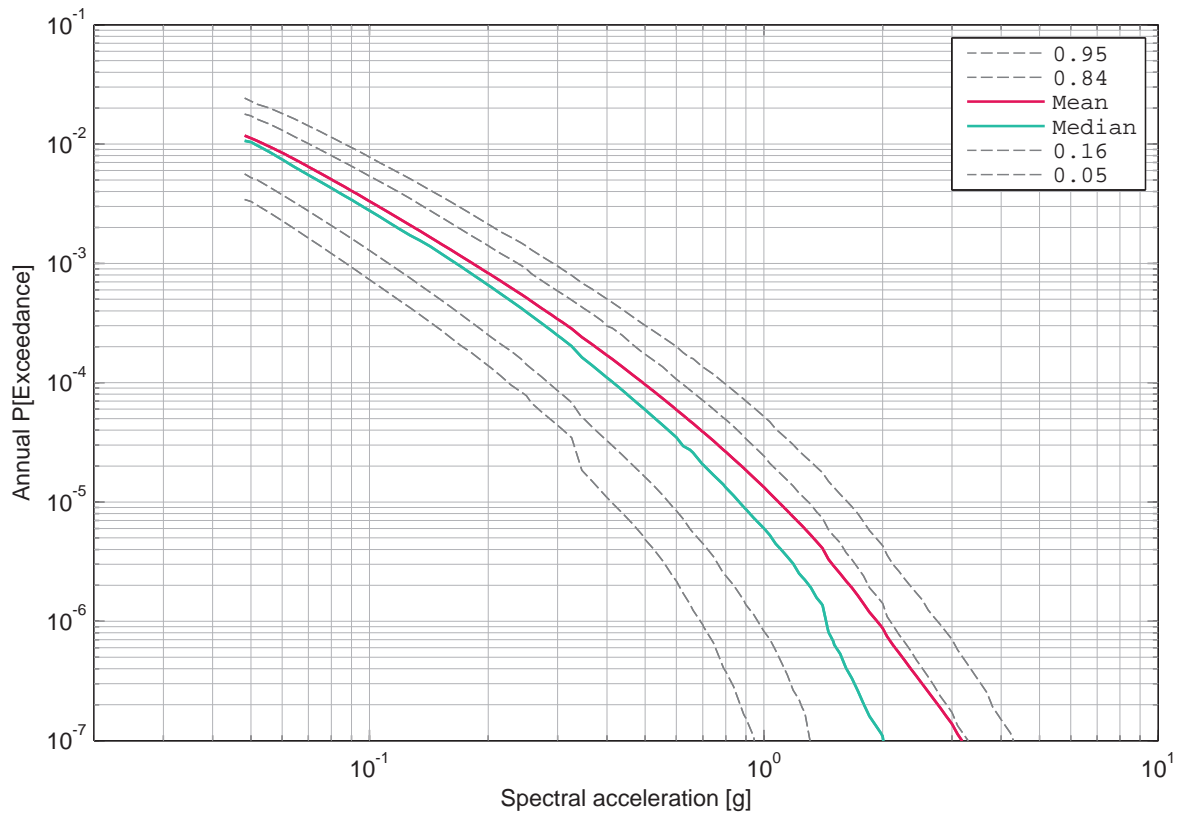


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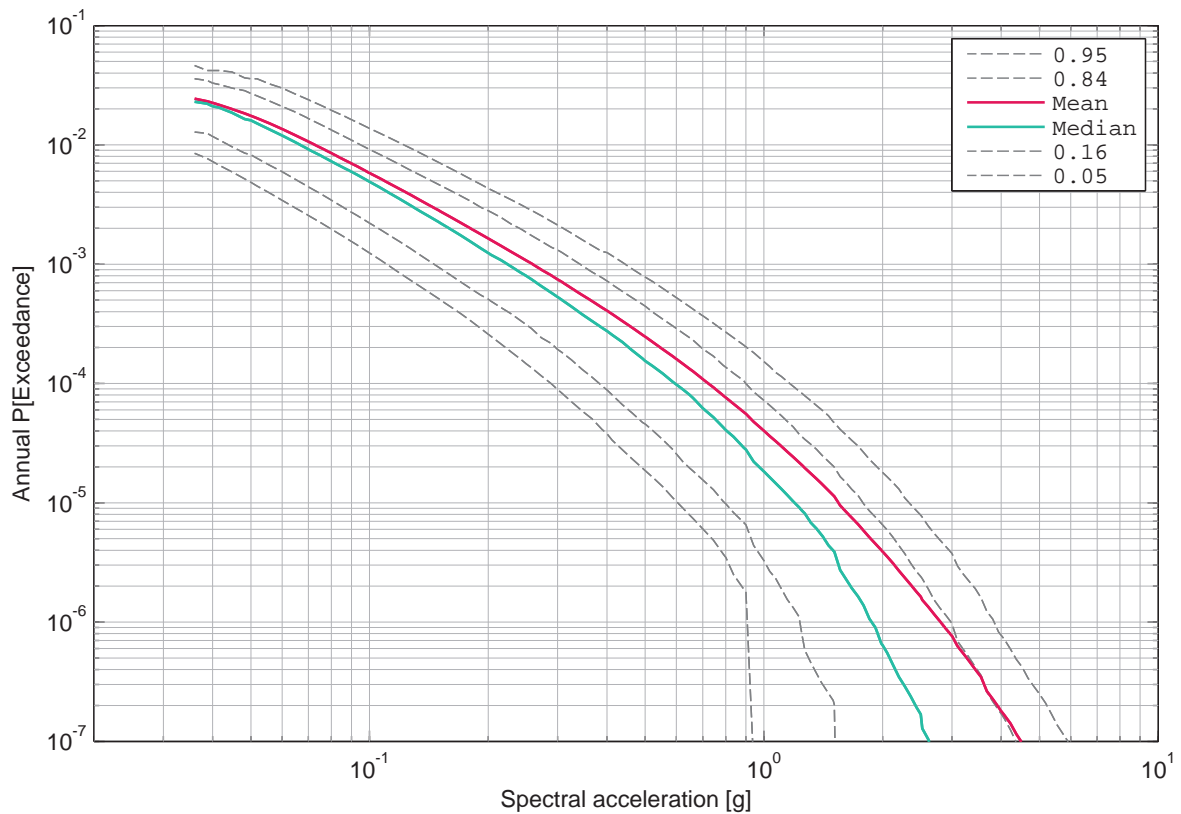


Figure 2.3.4: Beznau, horizontal component, soil, -15 m, mean hazard and fractiles, 5 Hz.

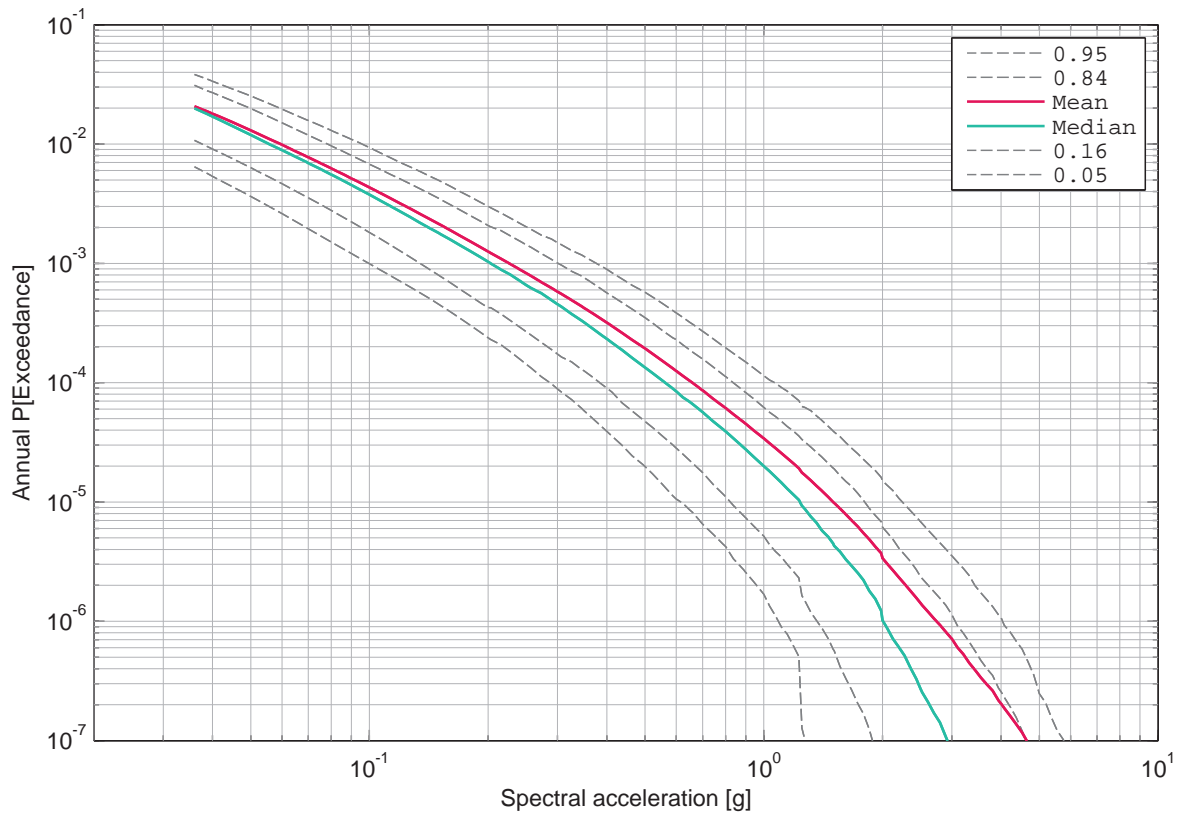


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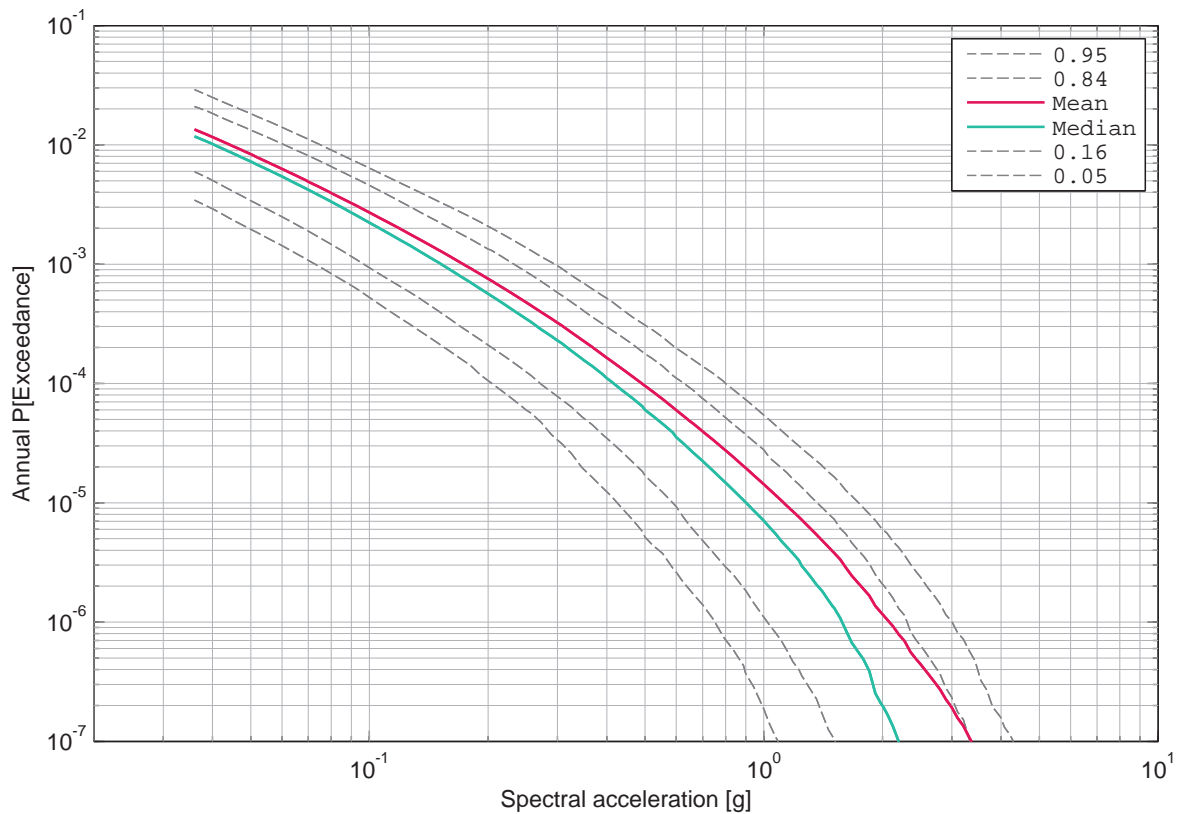


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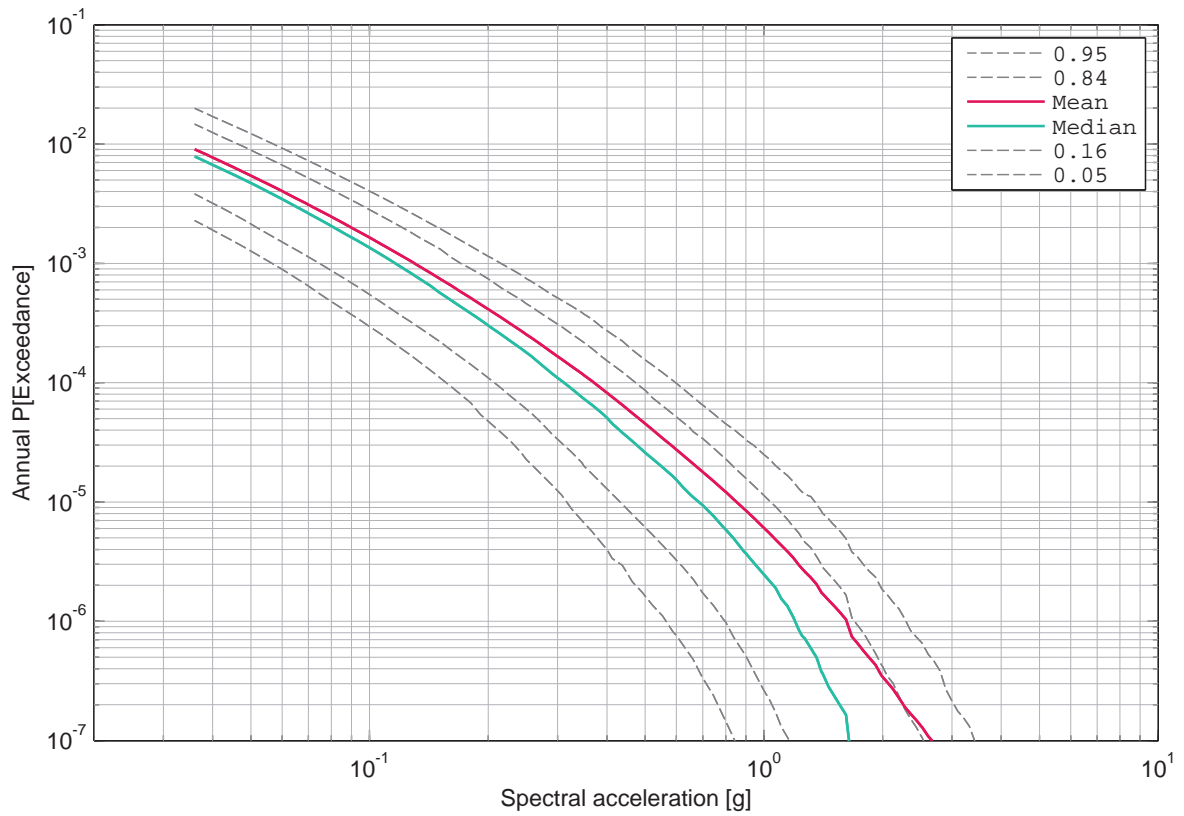


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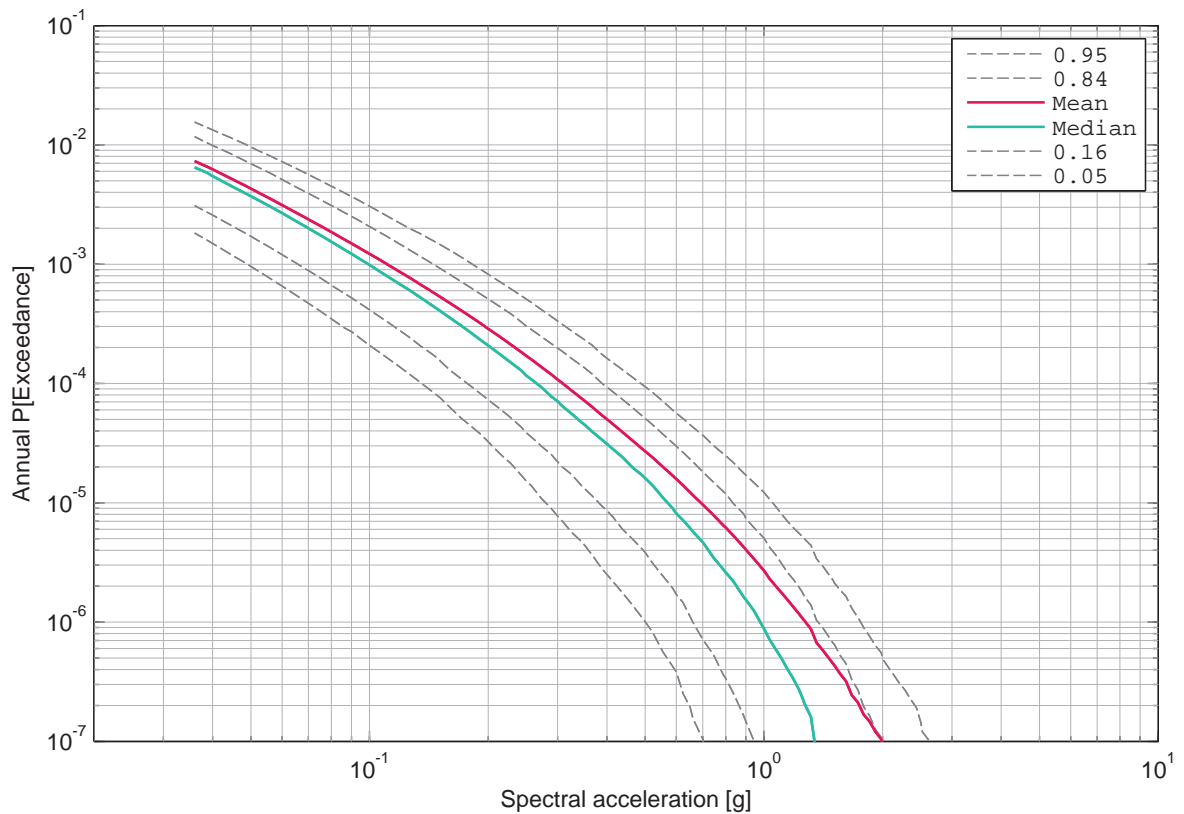


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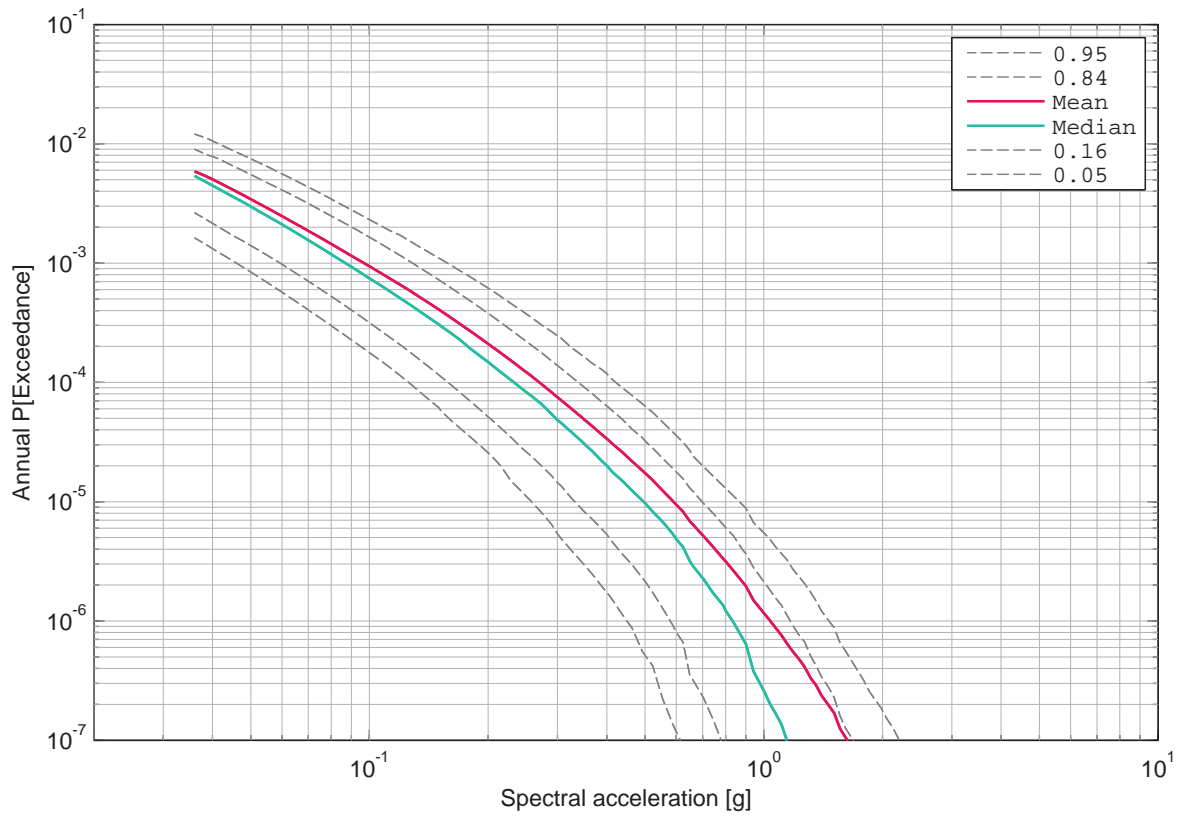


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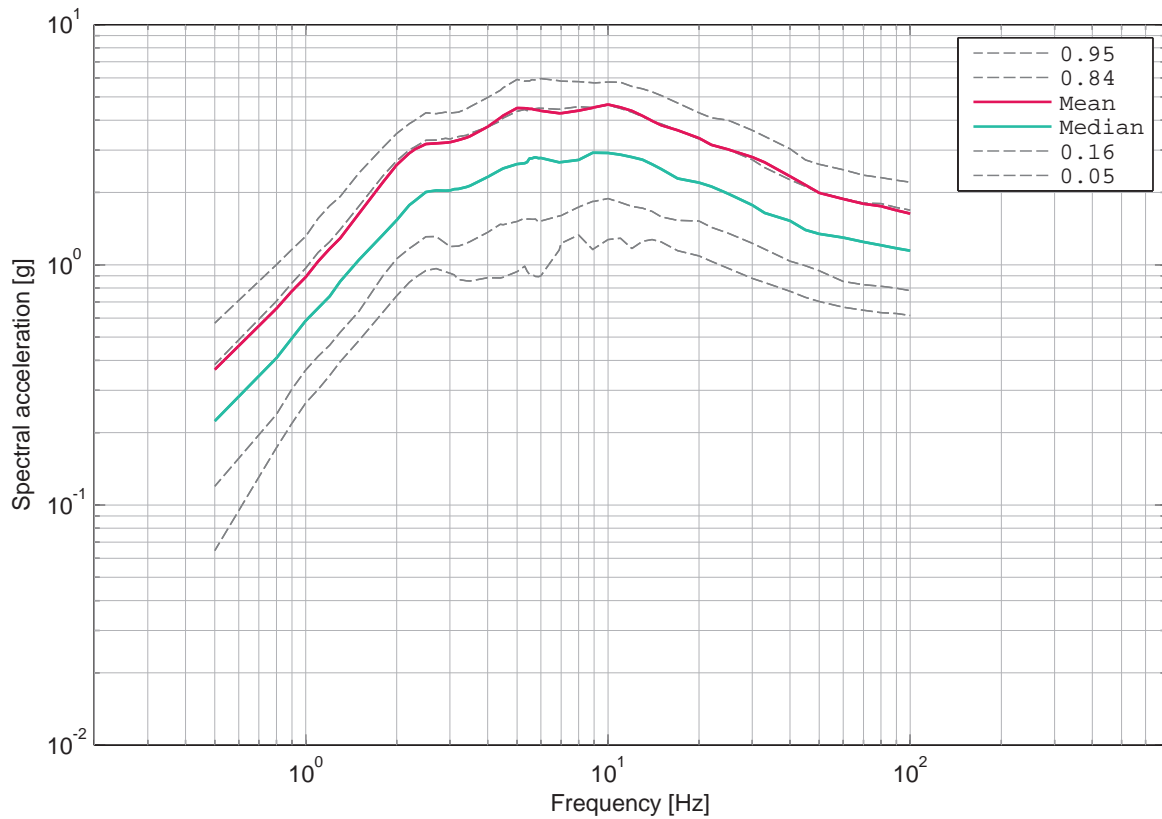


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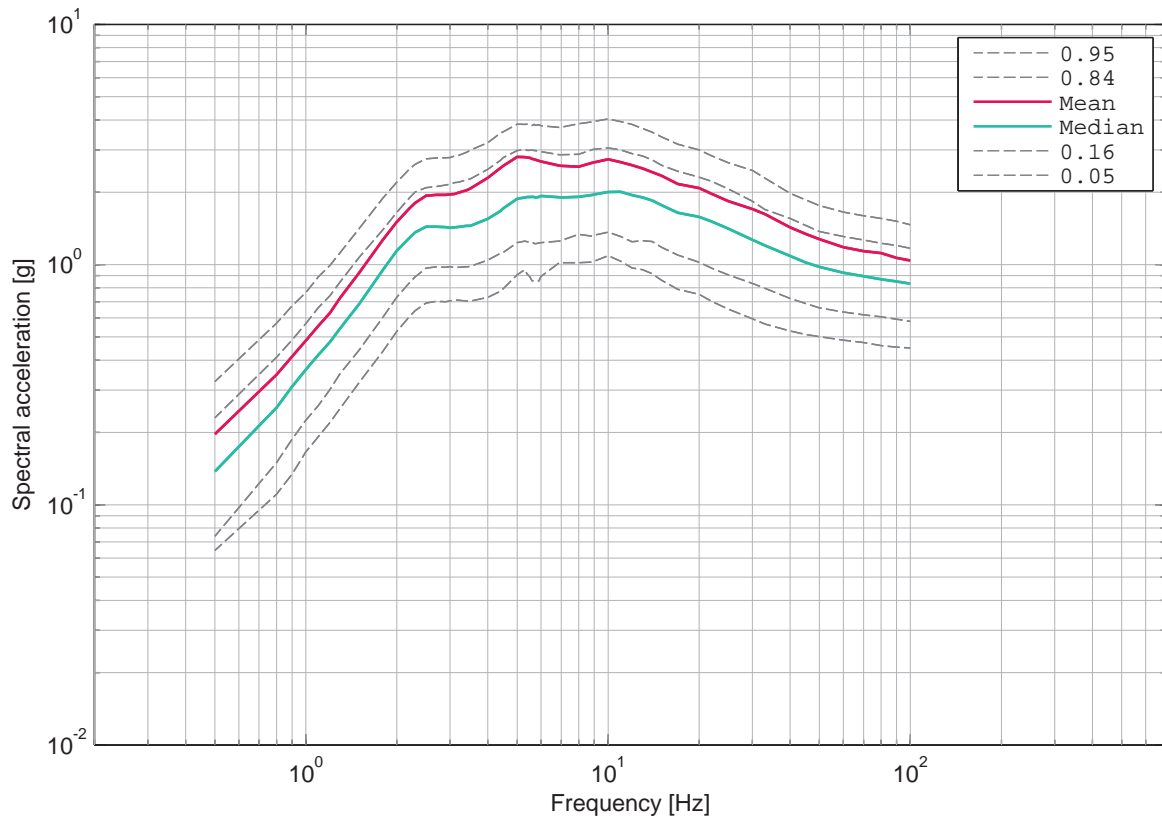


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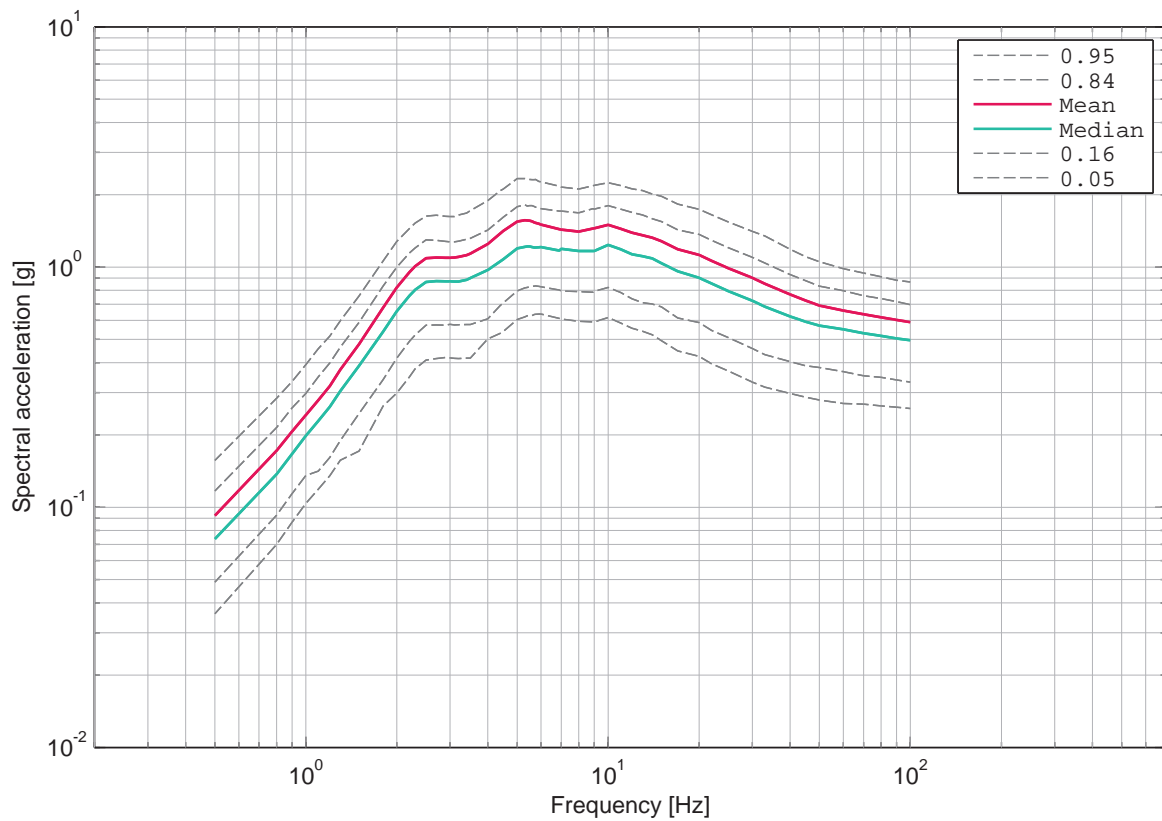


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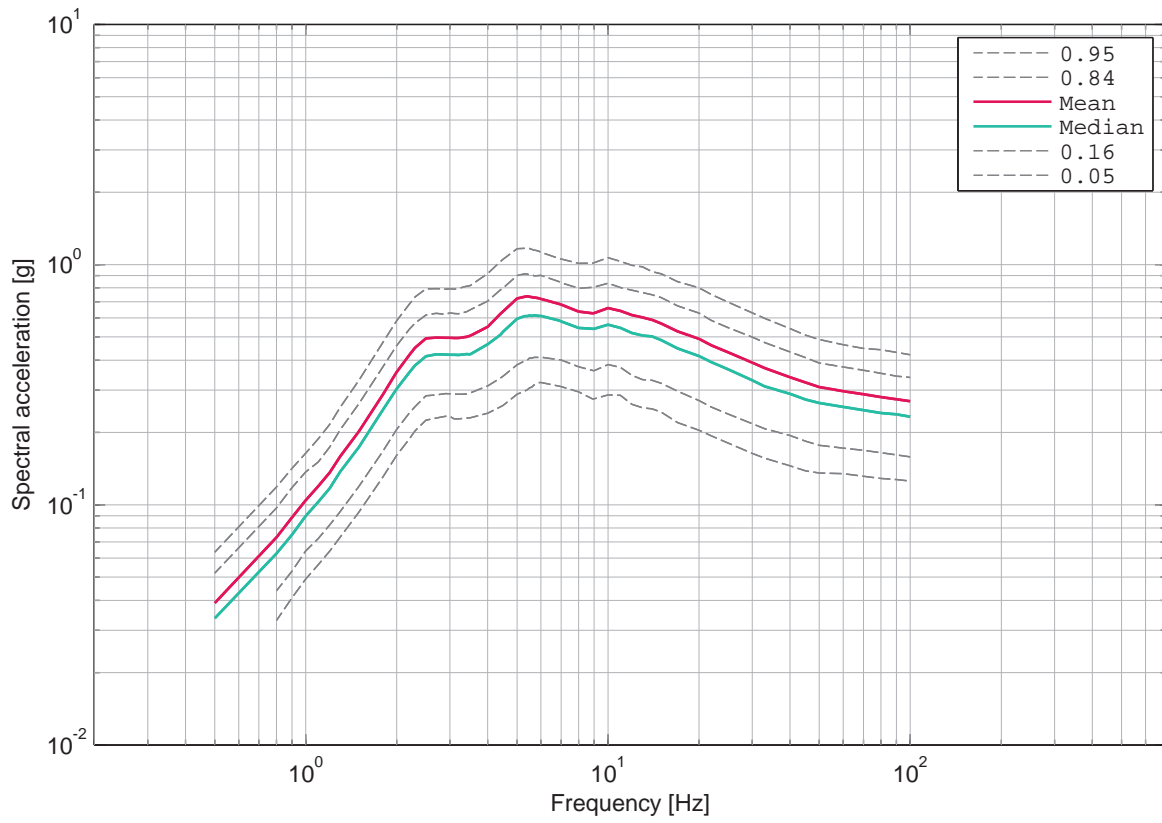


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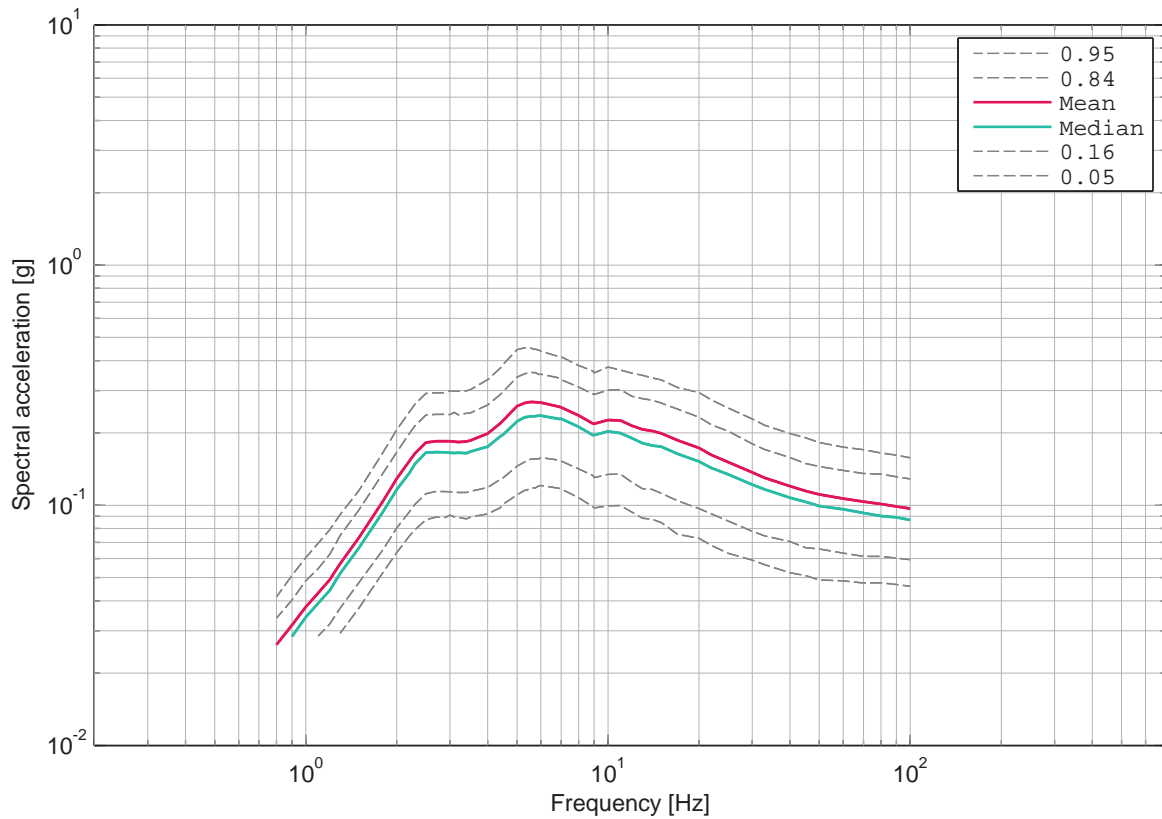


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2.4 Beznau, Rock Hazard Deaggregation, Horizontal Component

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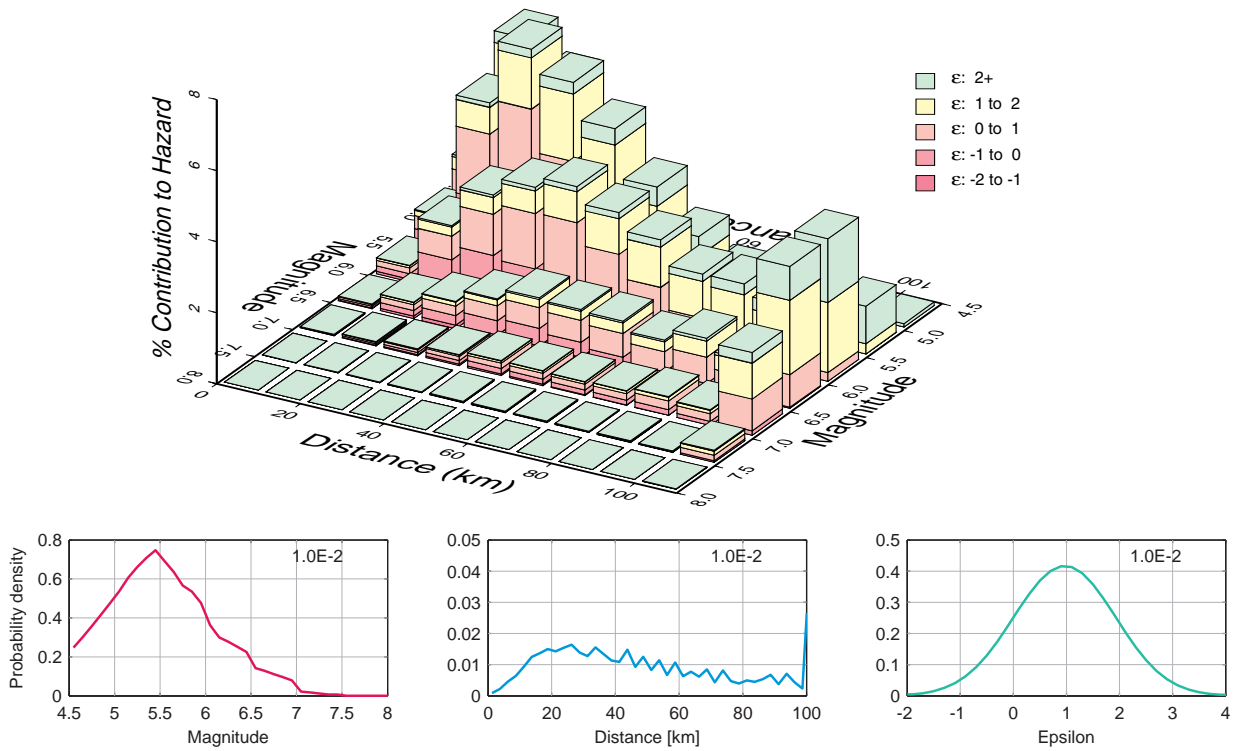


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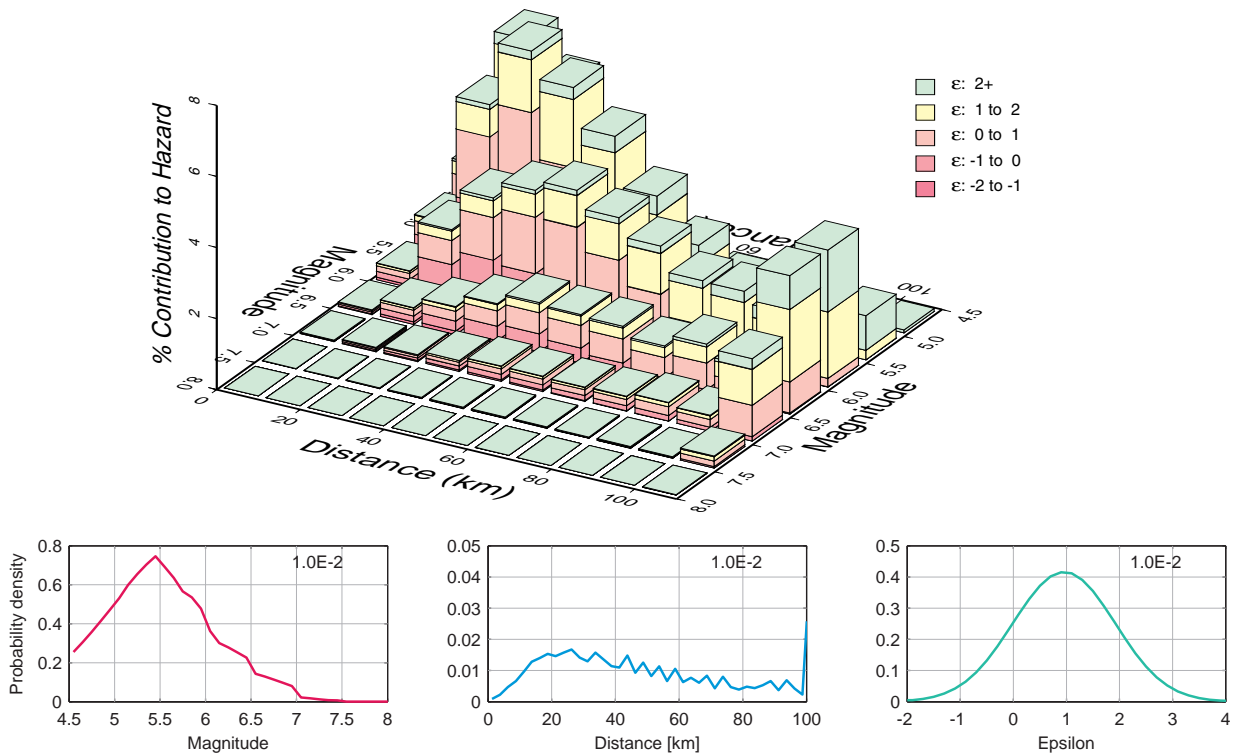


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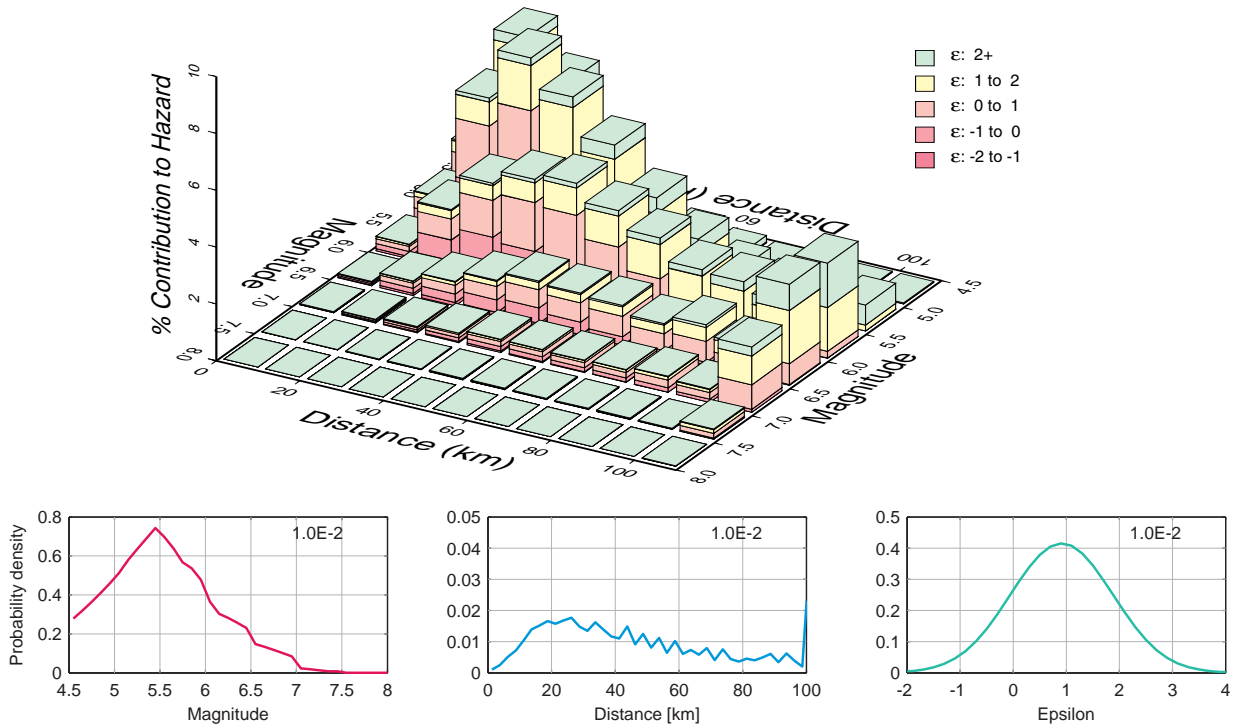


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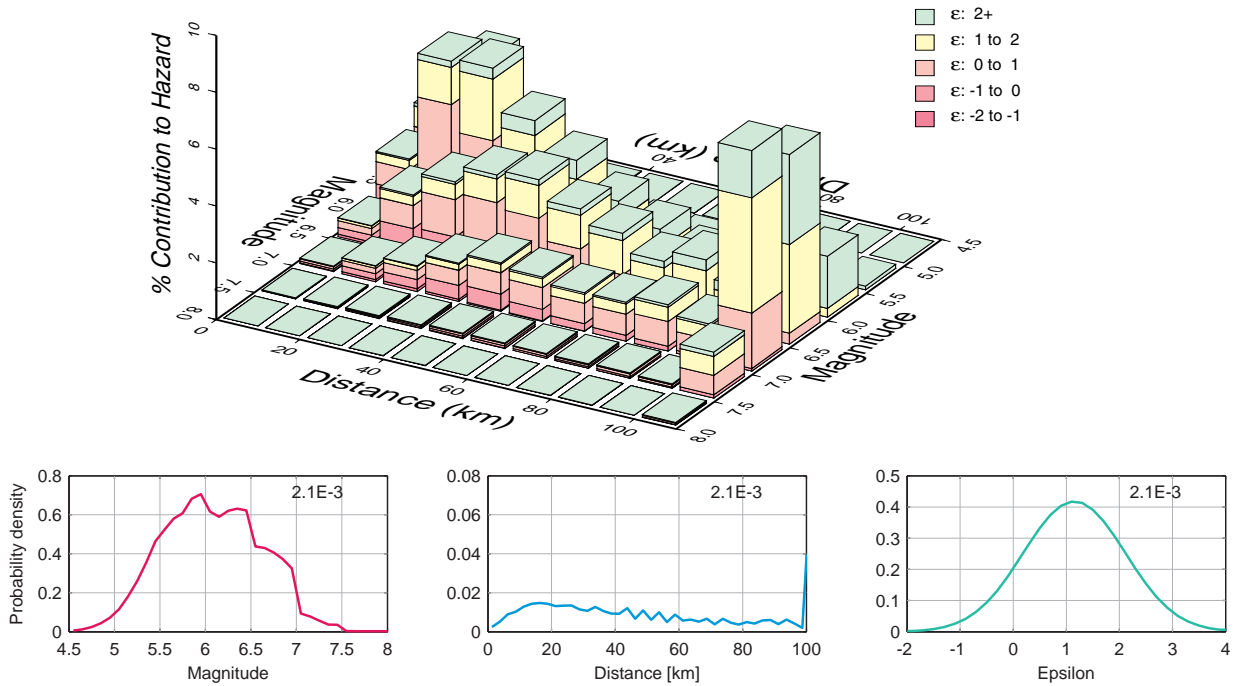


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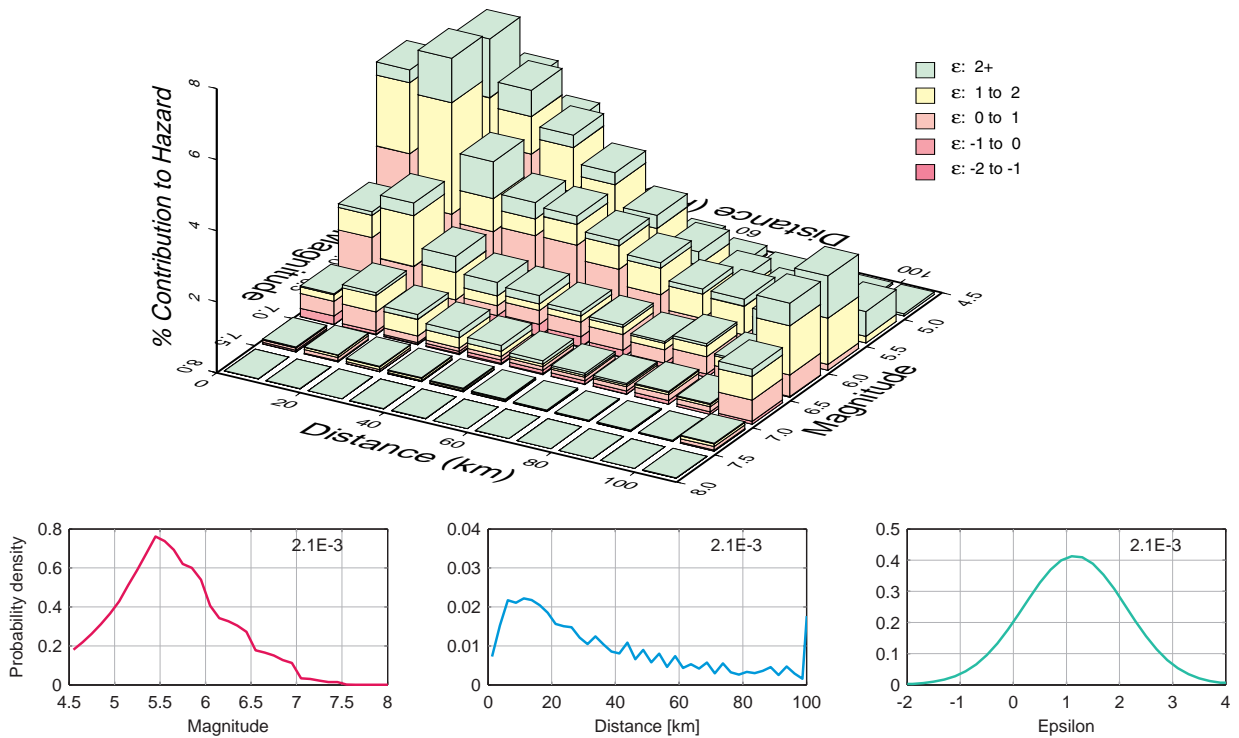


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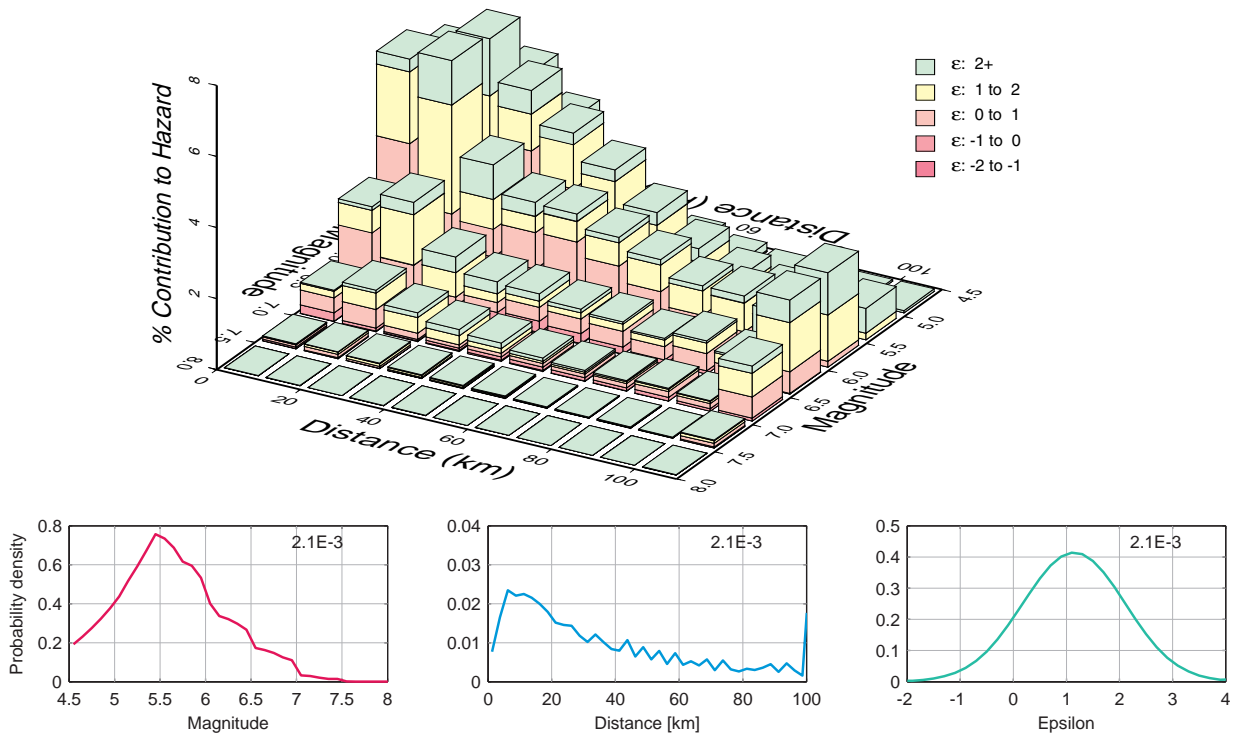


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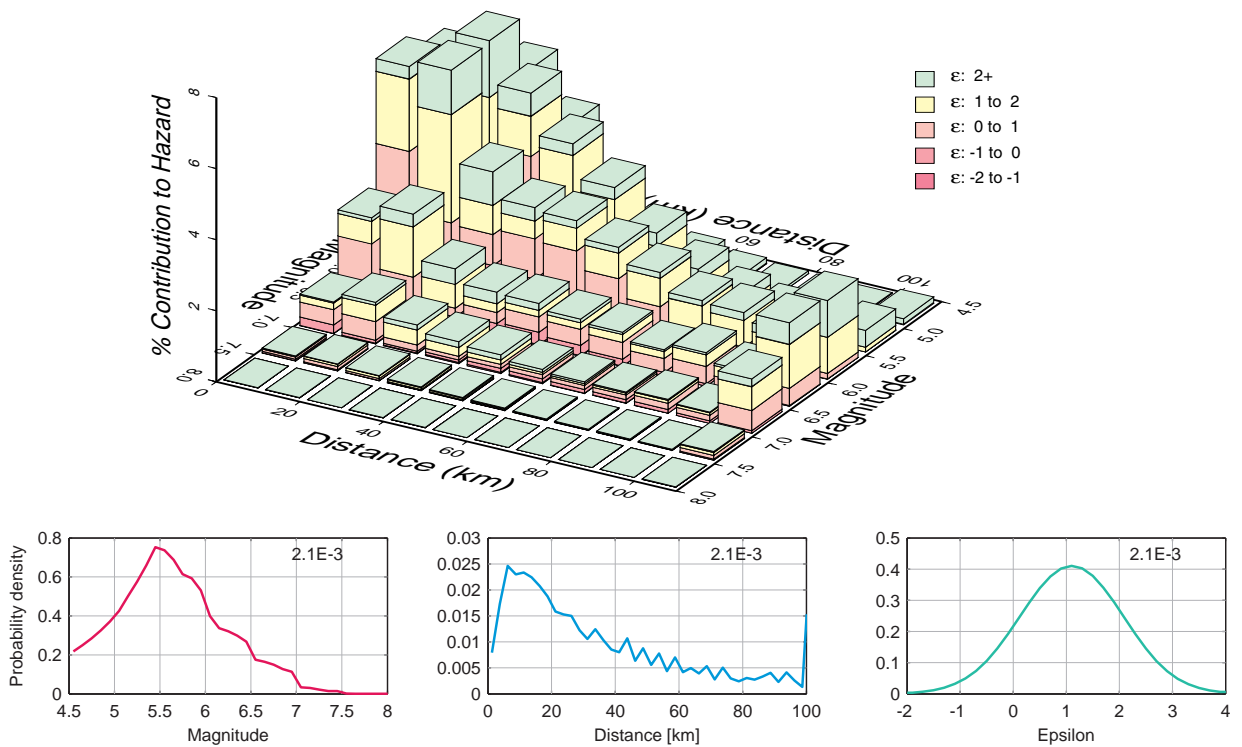


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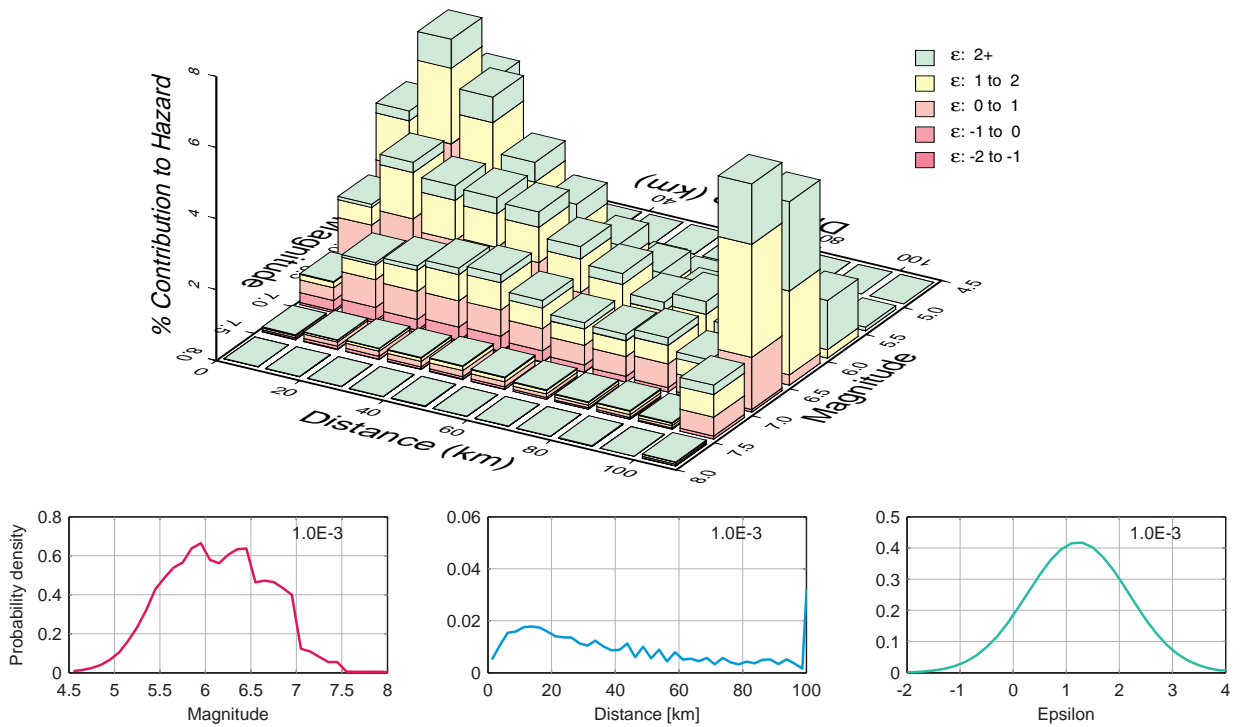


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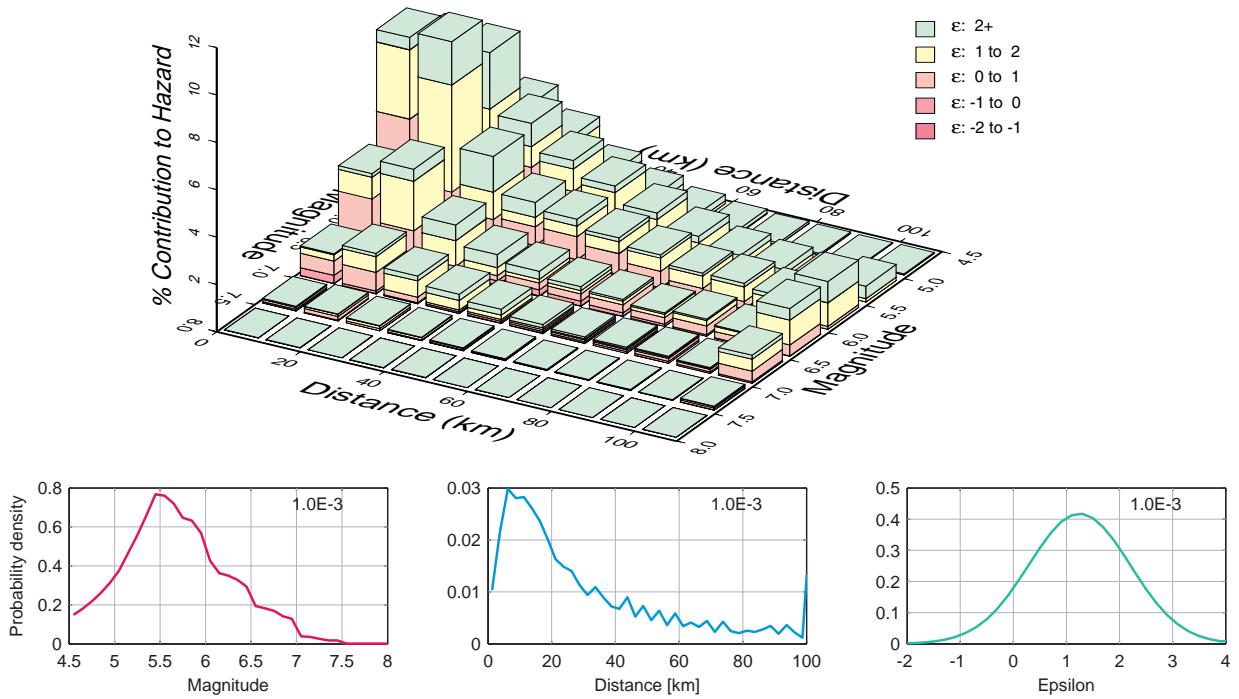


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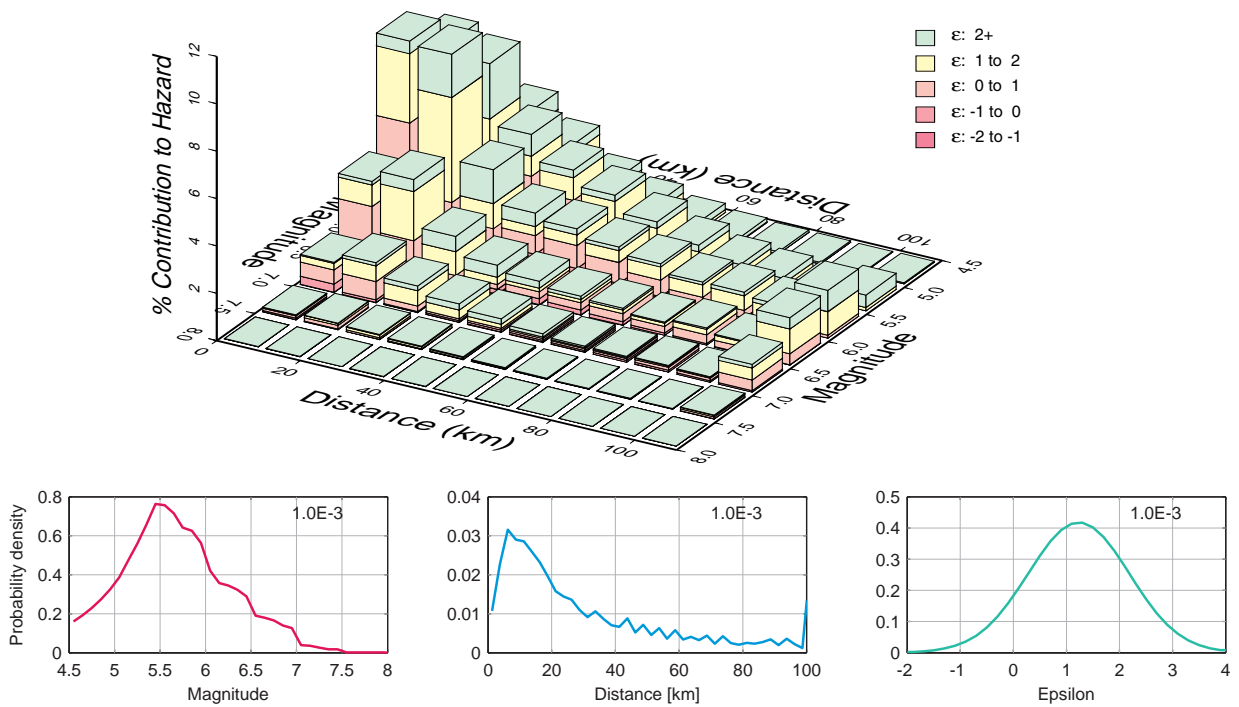


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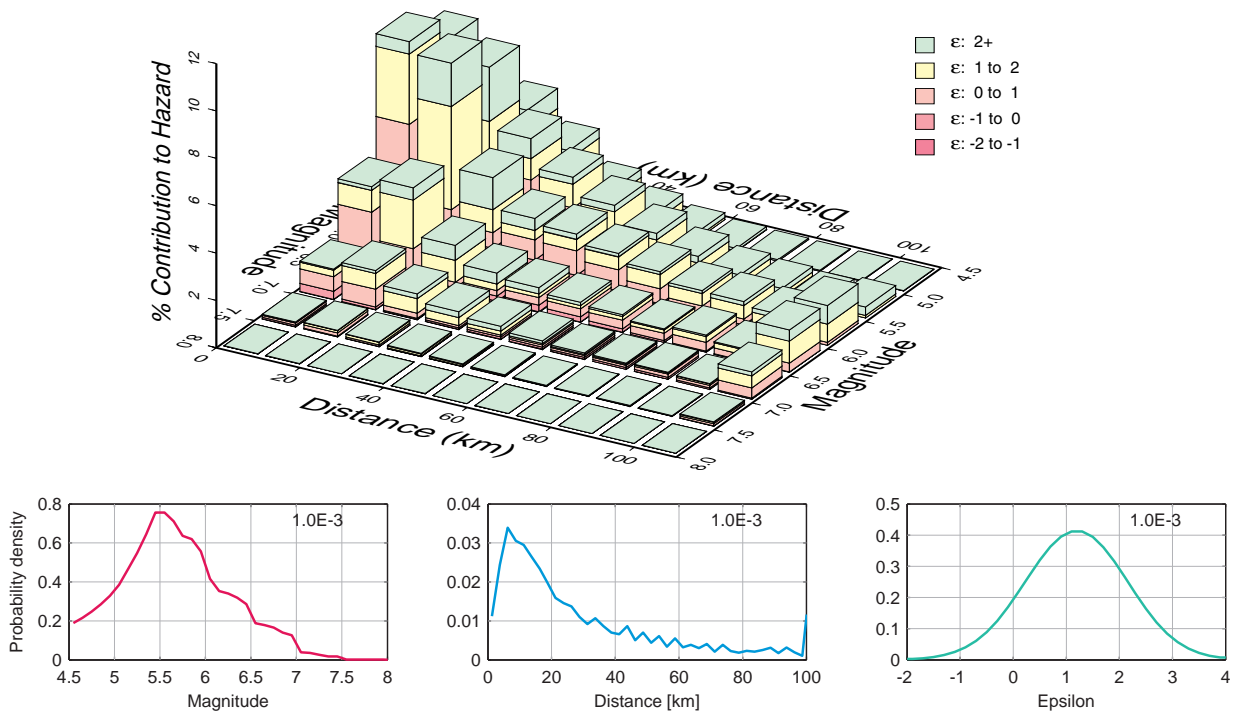


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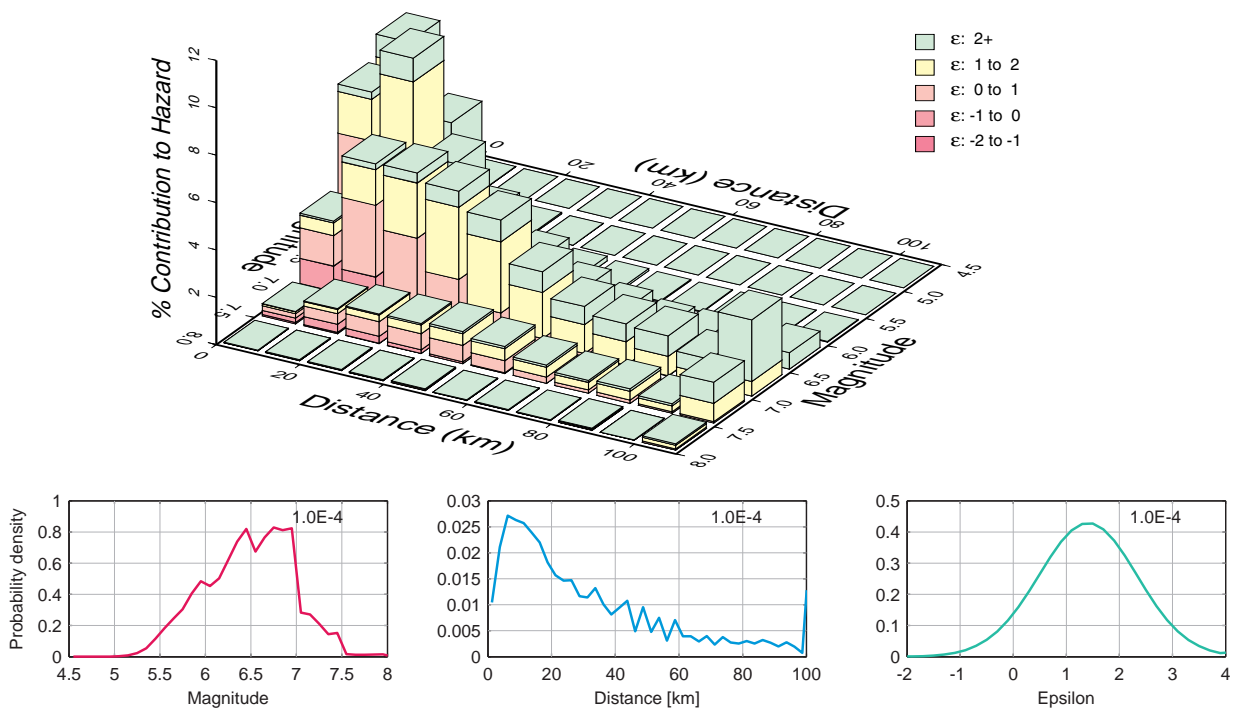


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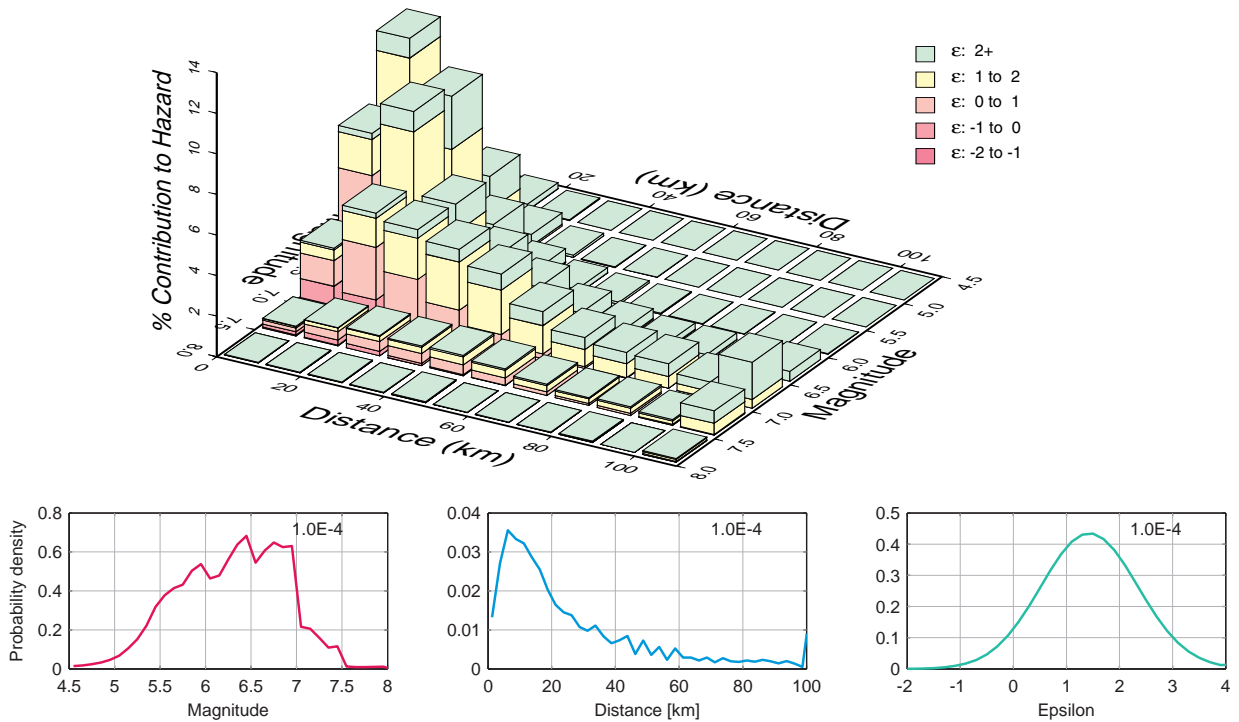


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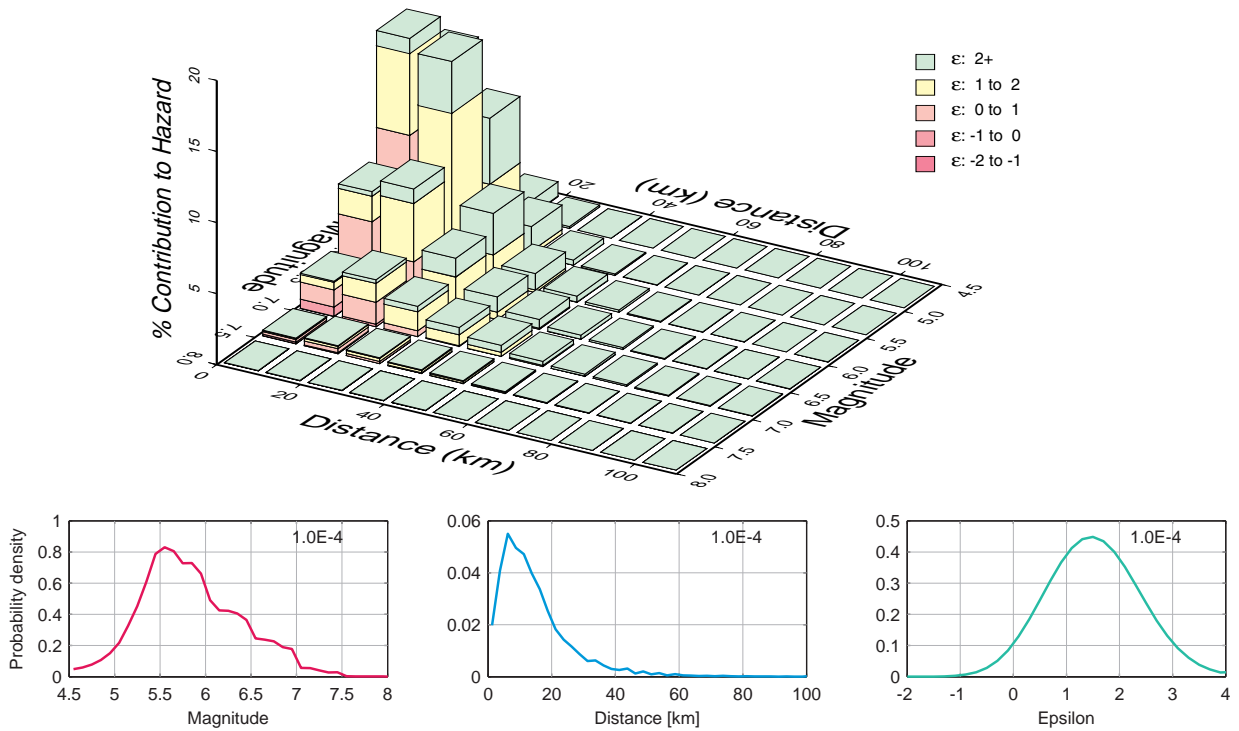


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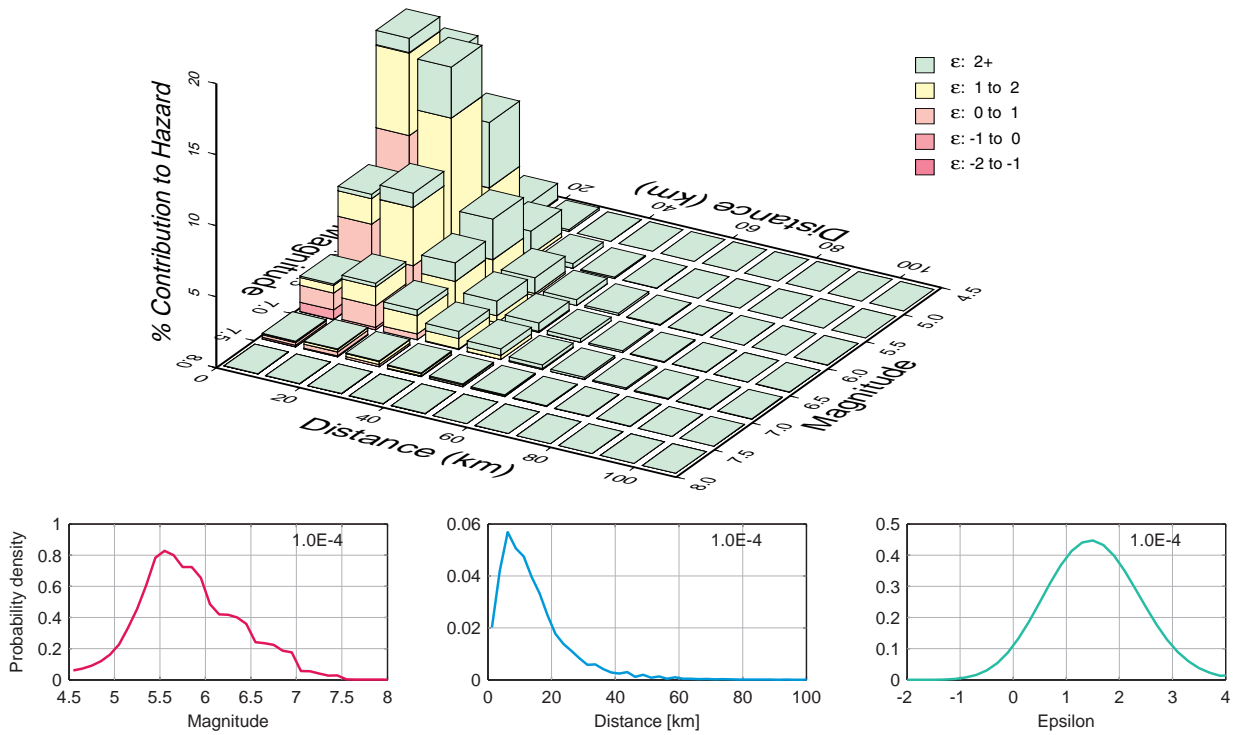


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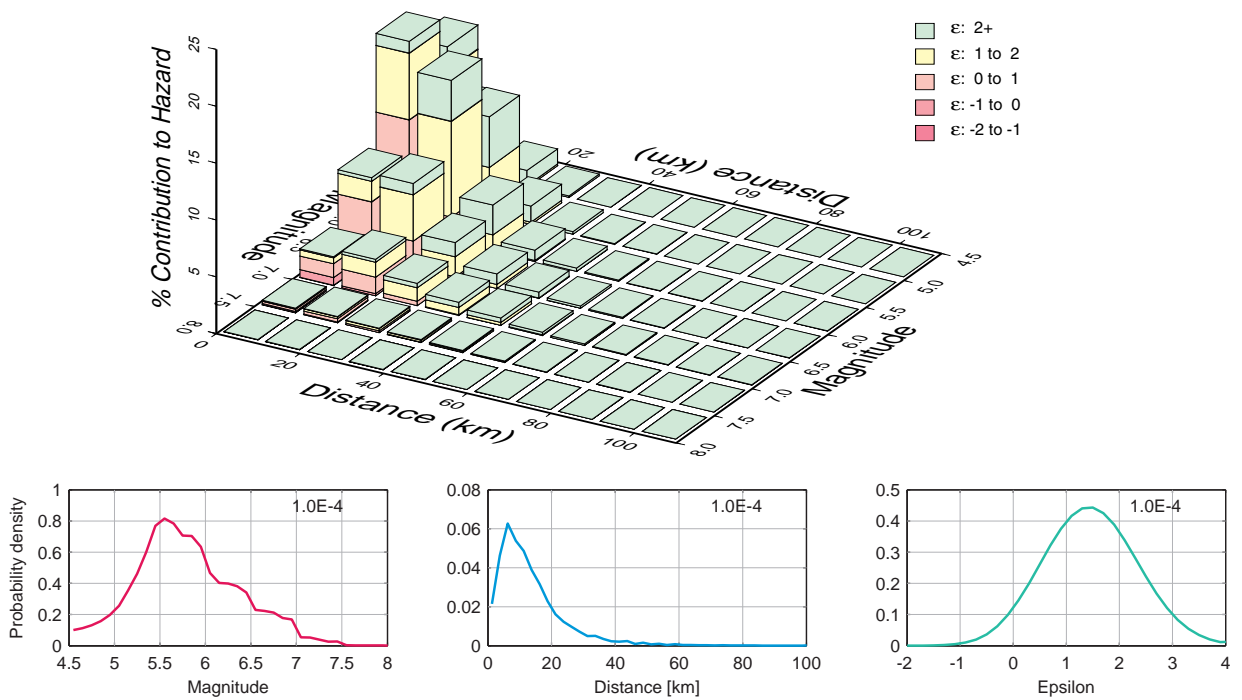


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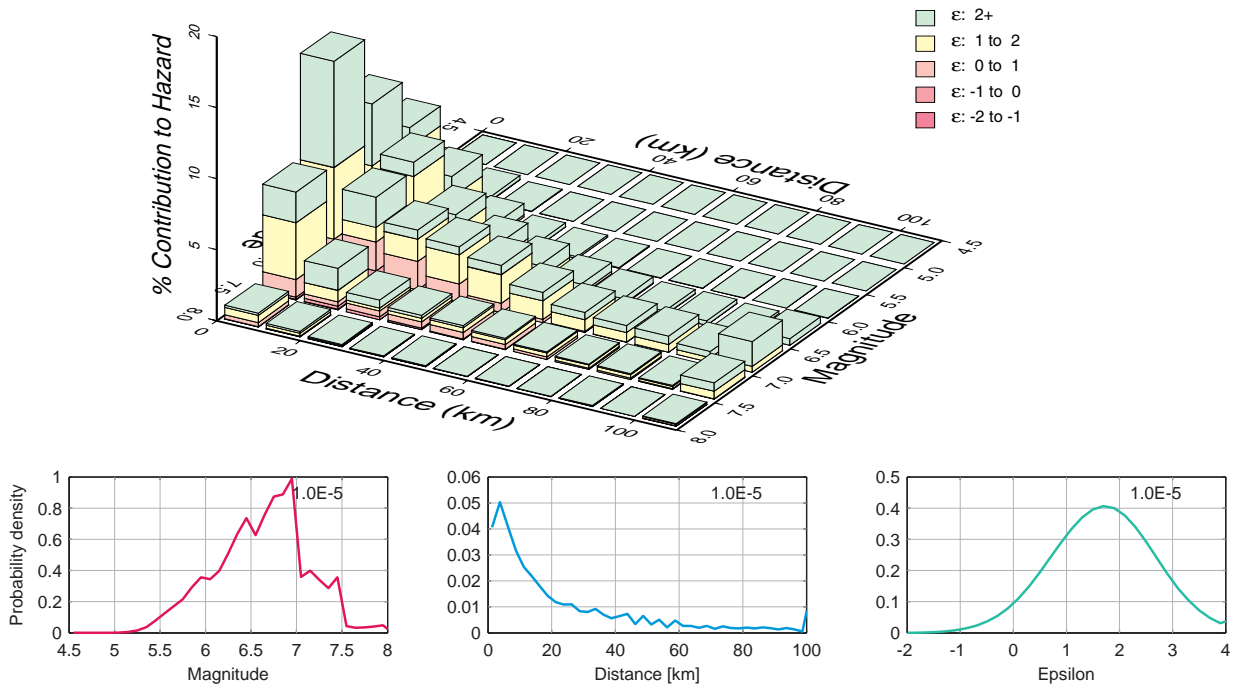


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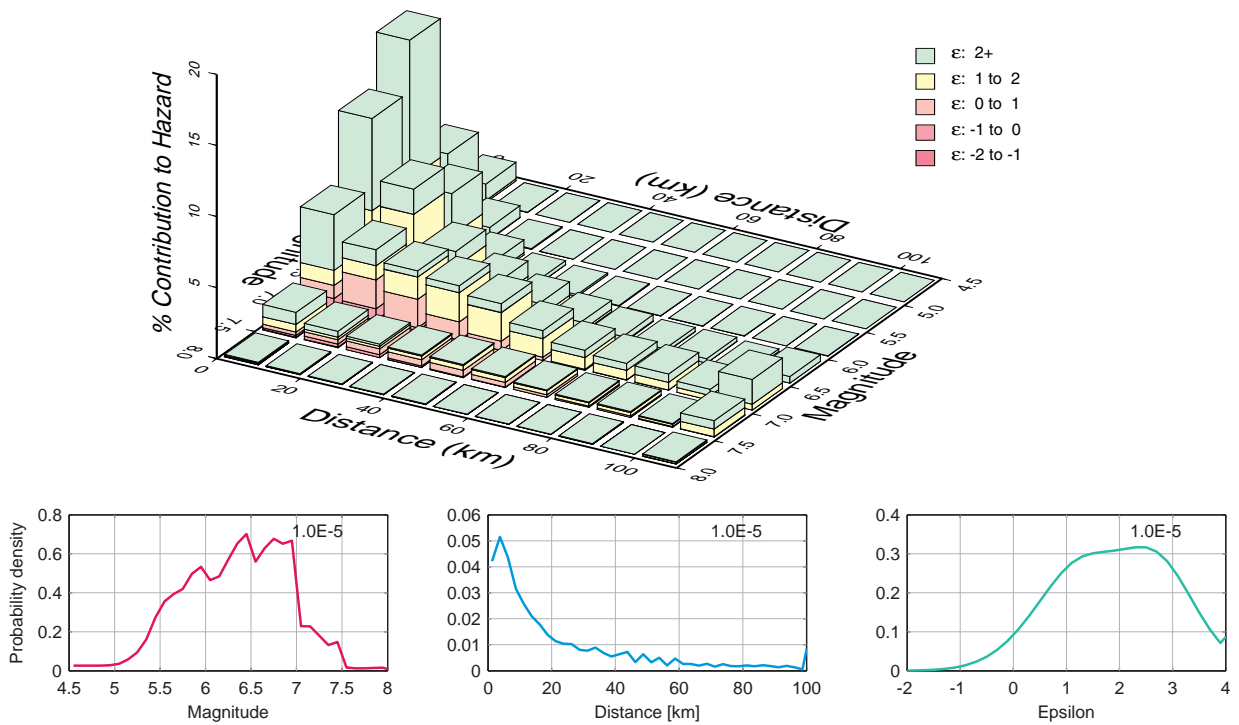


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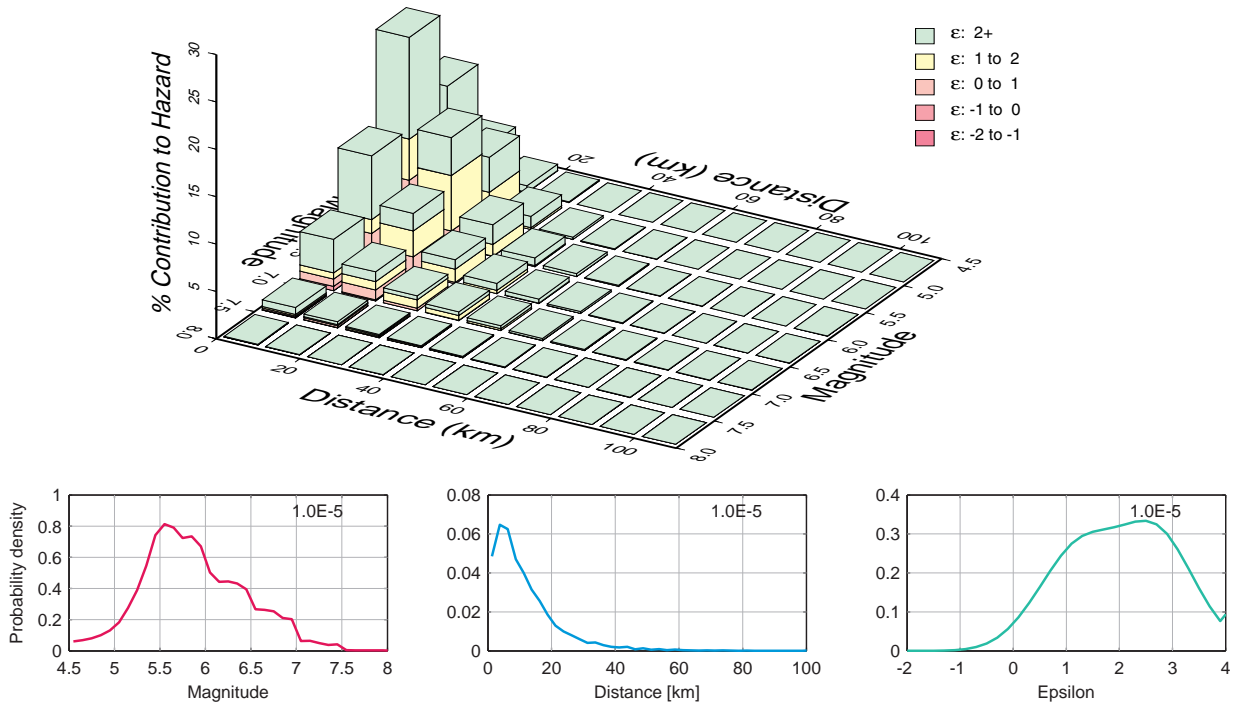


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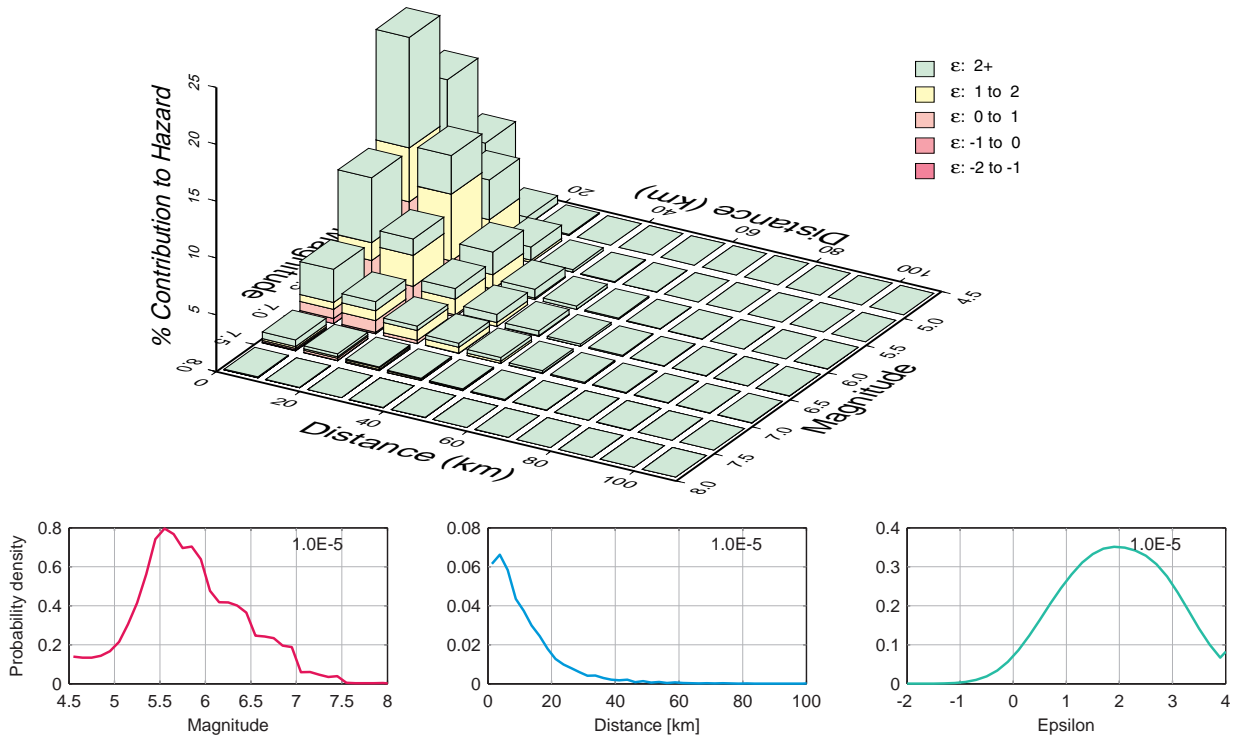


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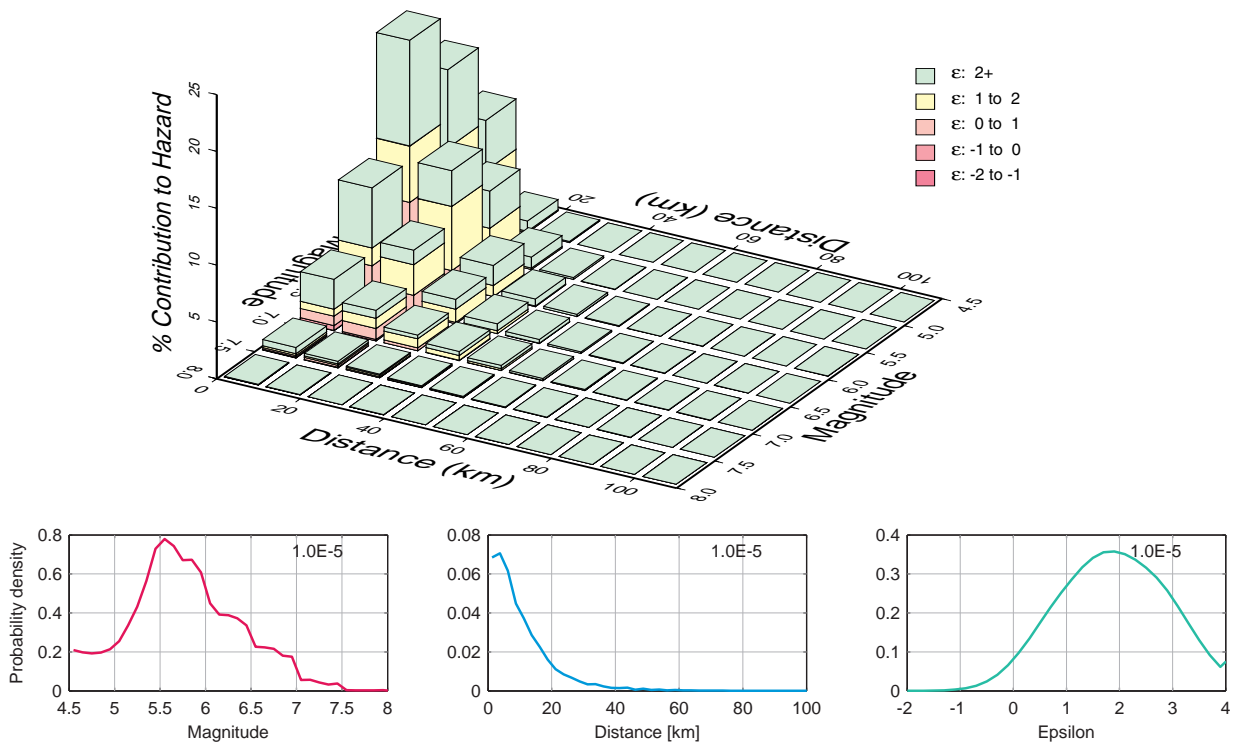


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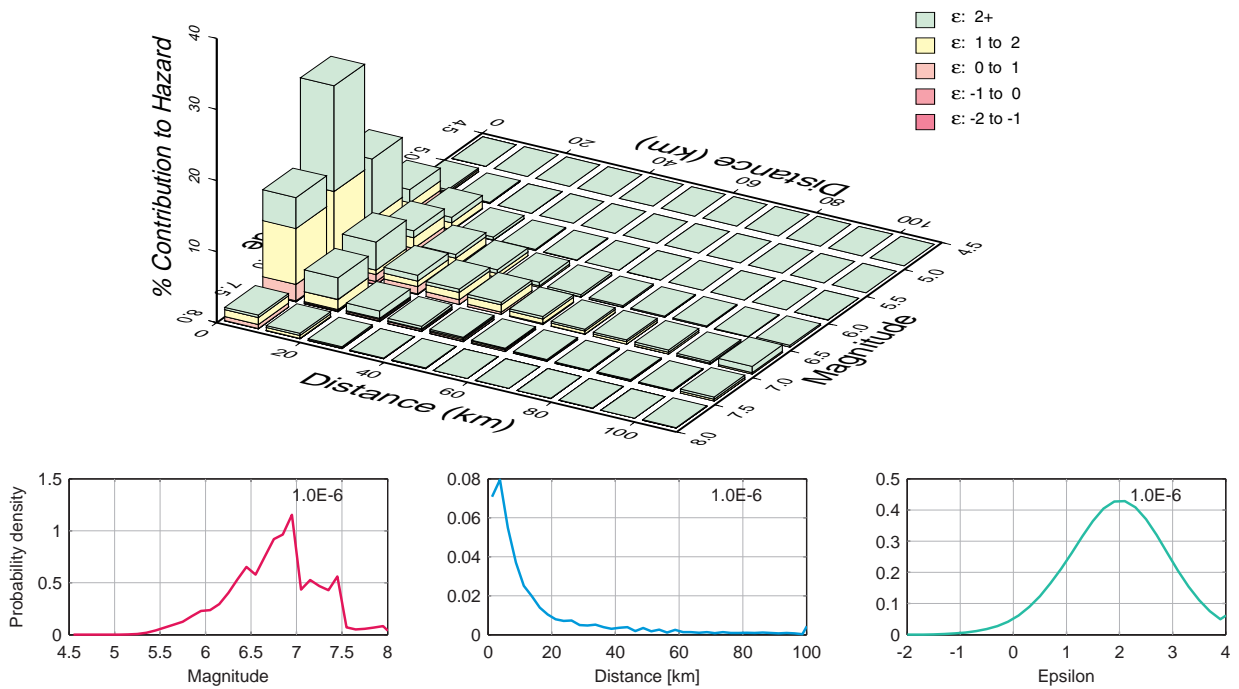


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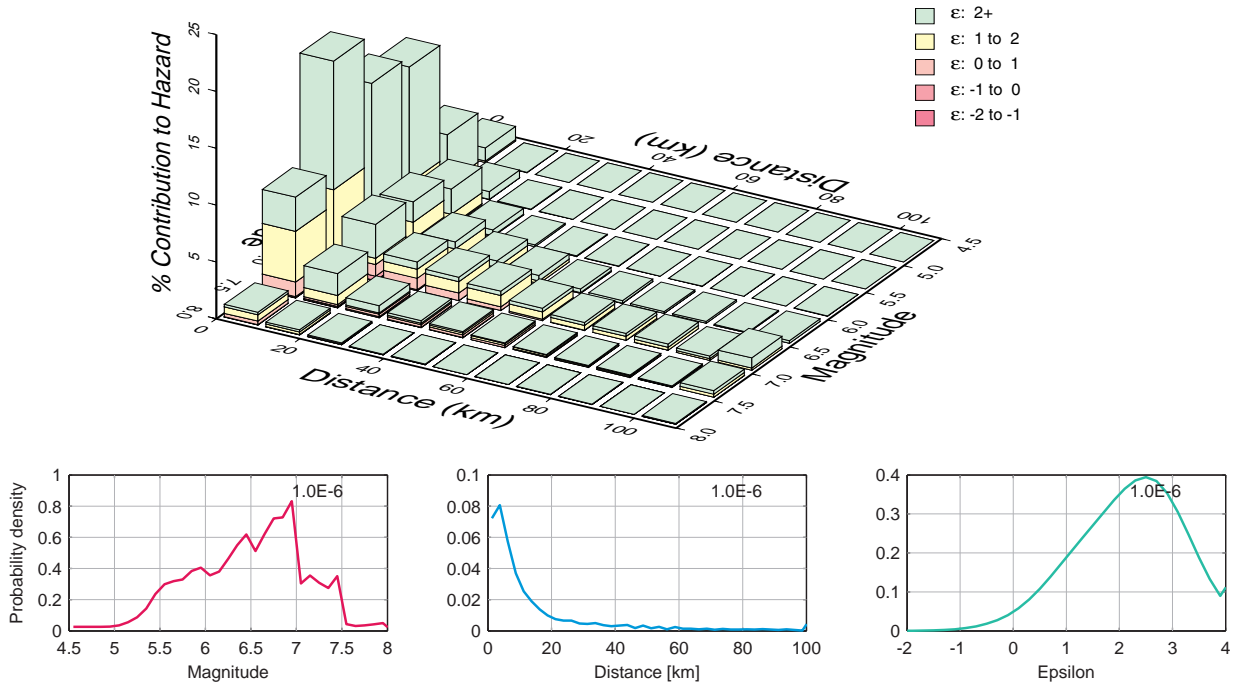


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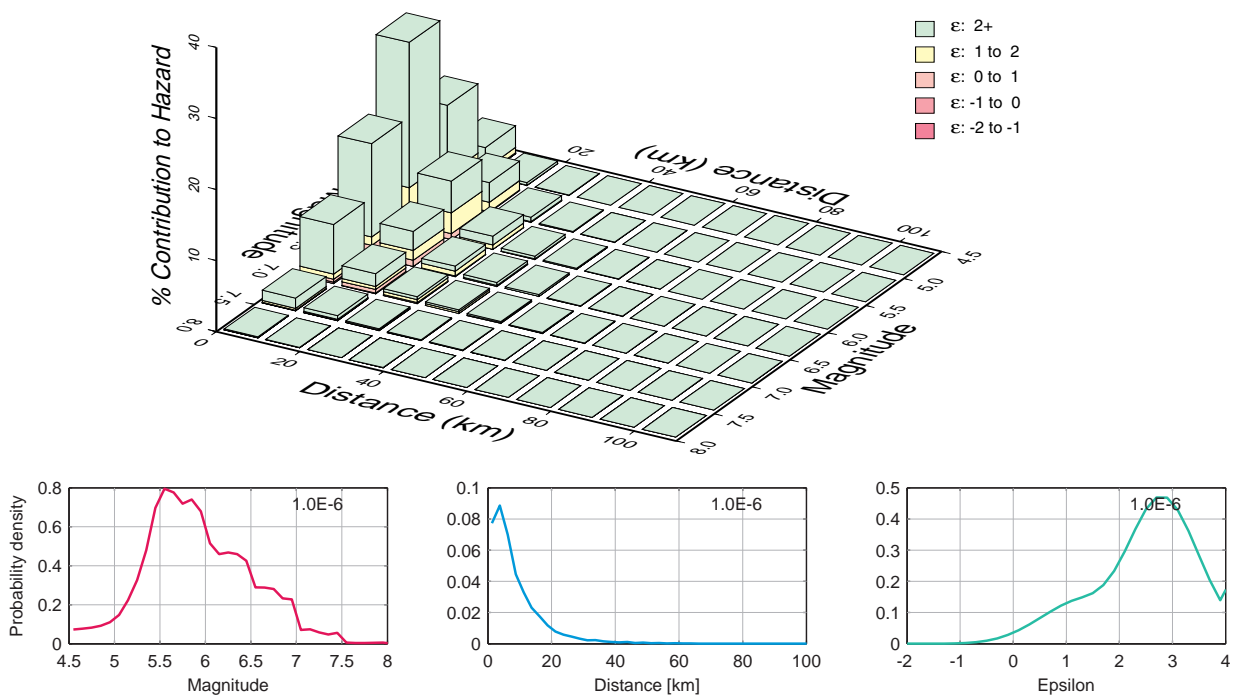


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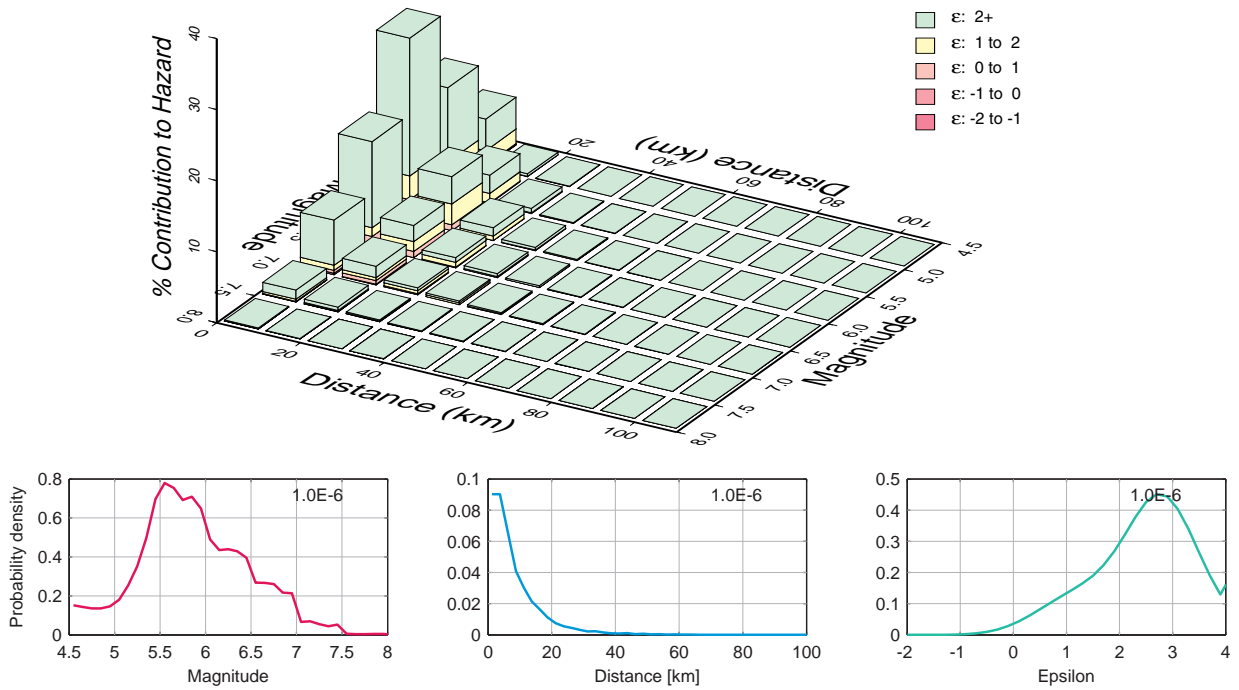


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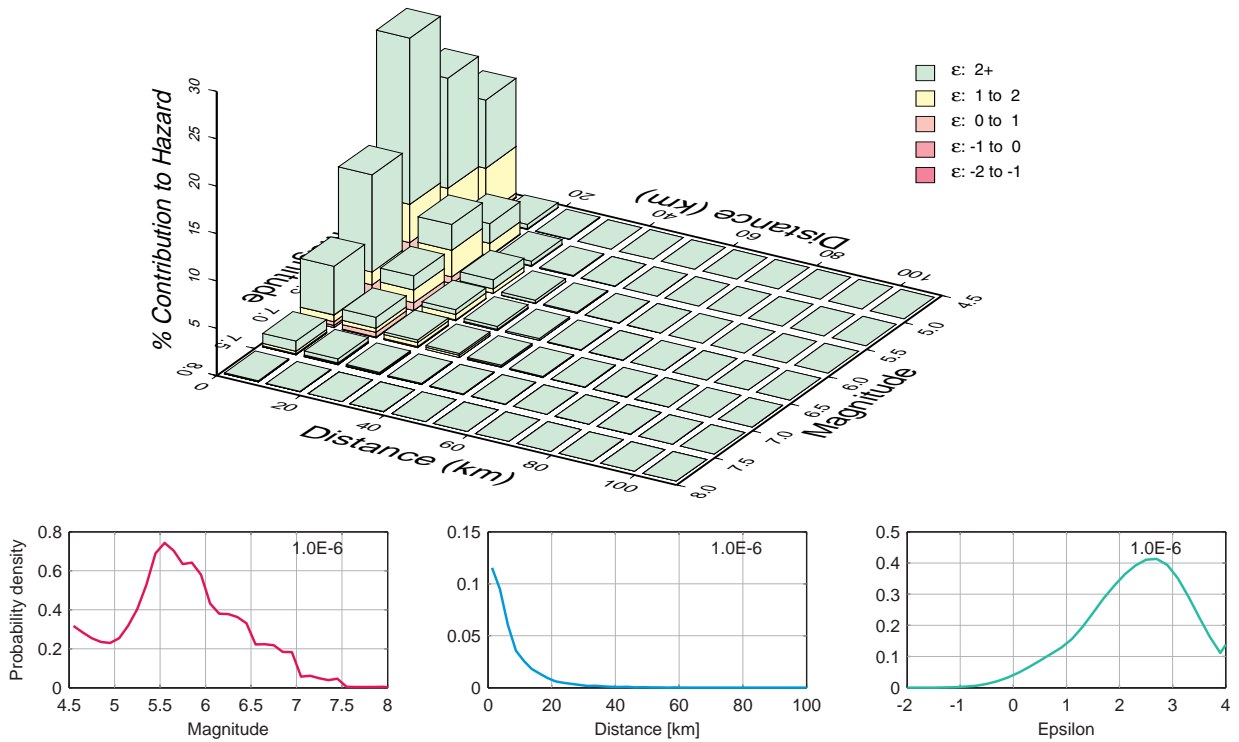


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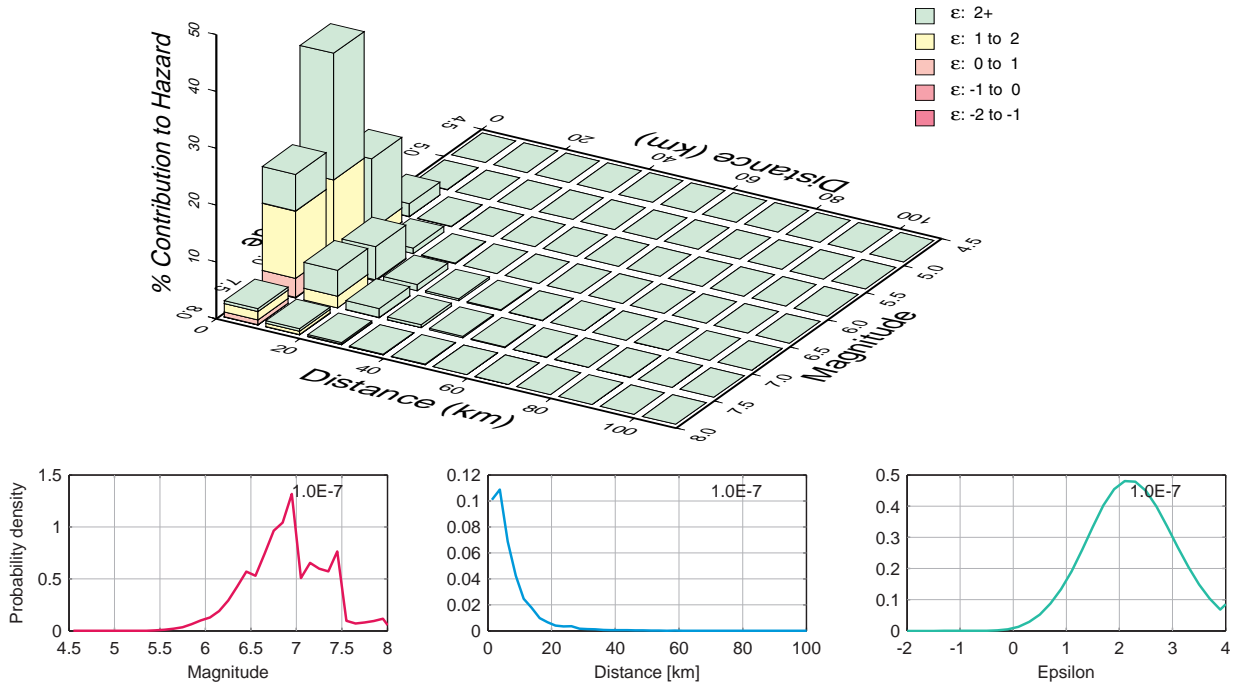


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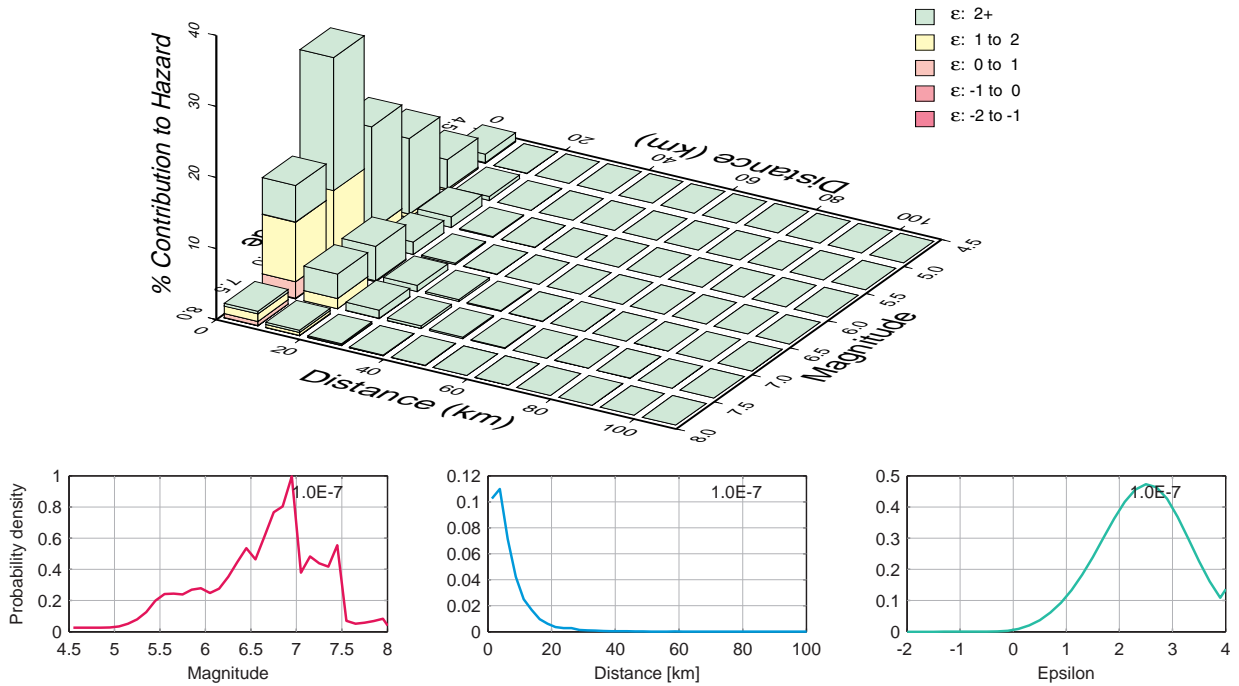


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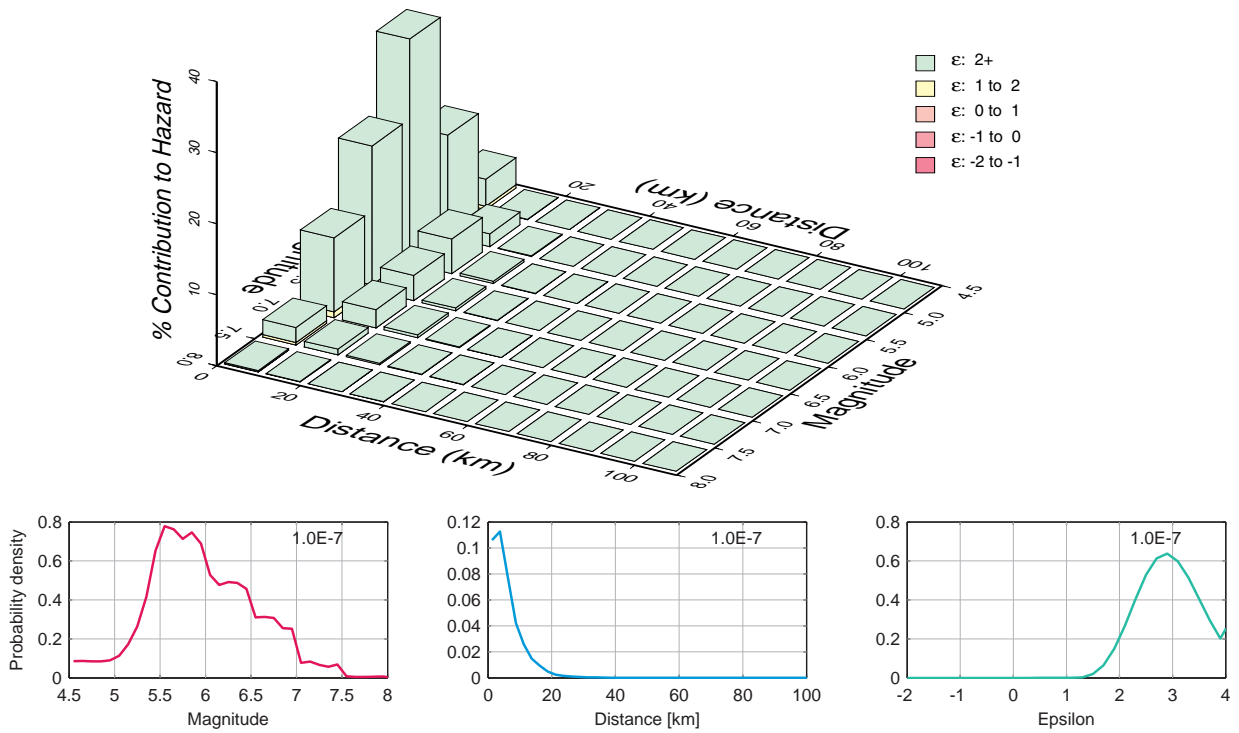


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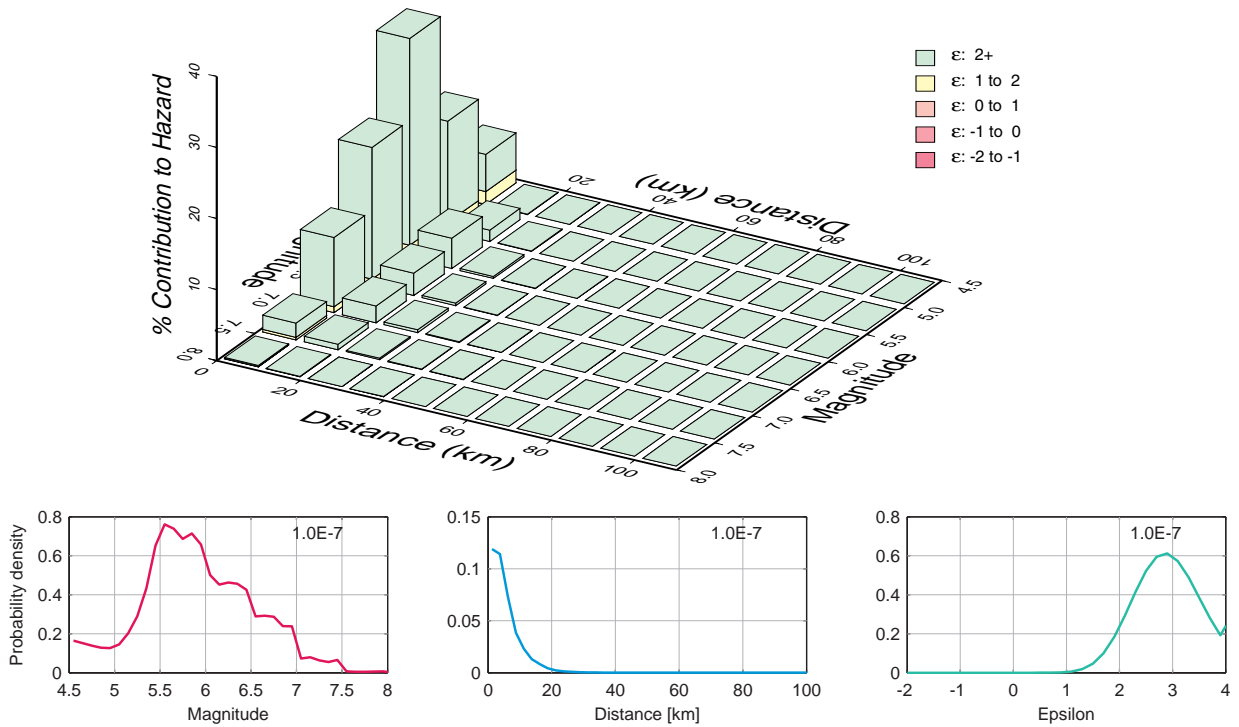


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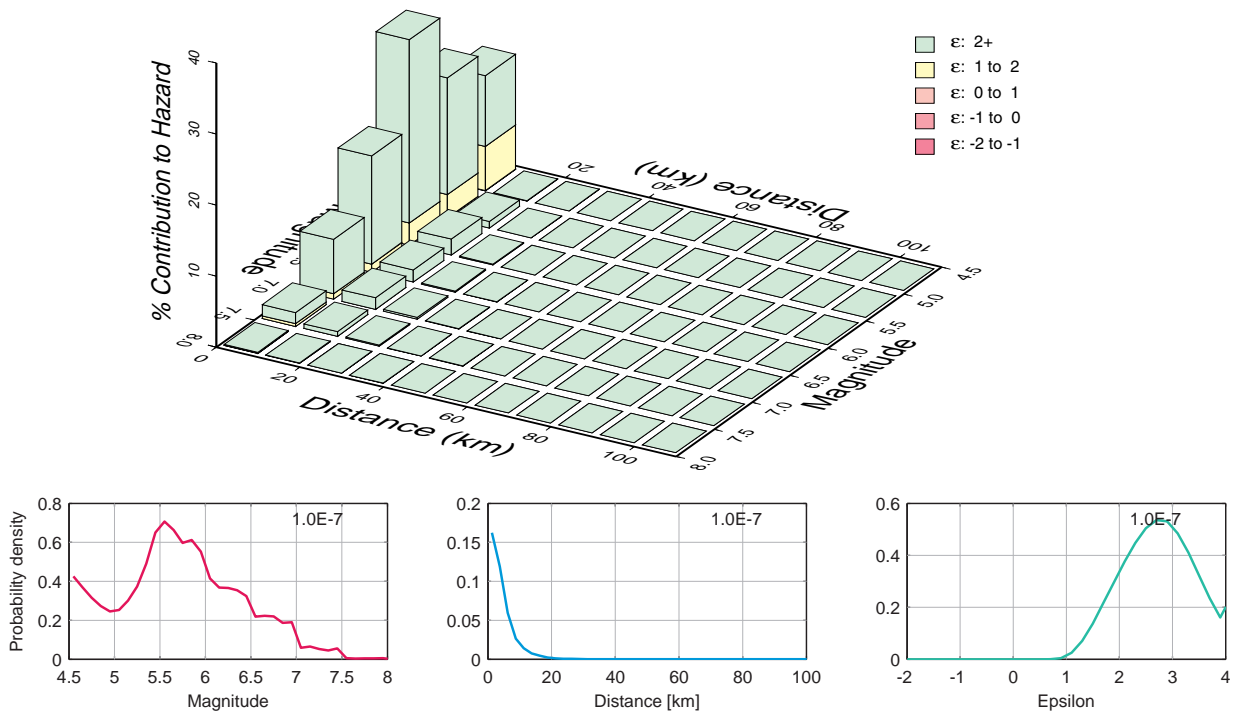


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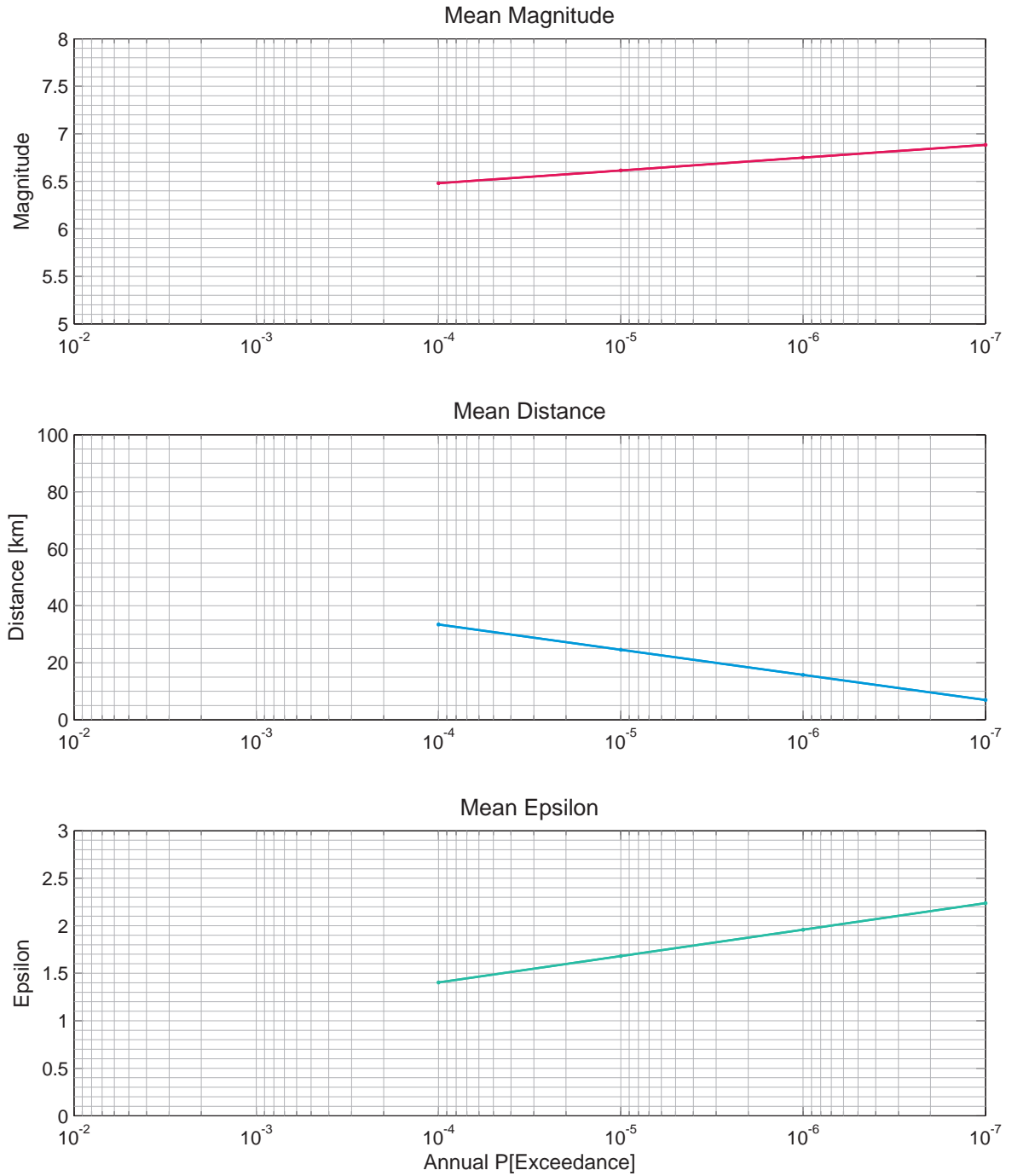


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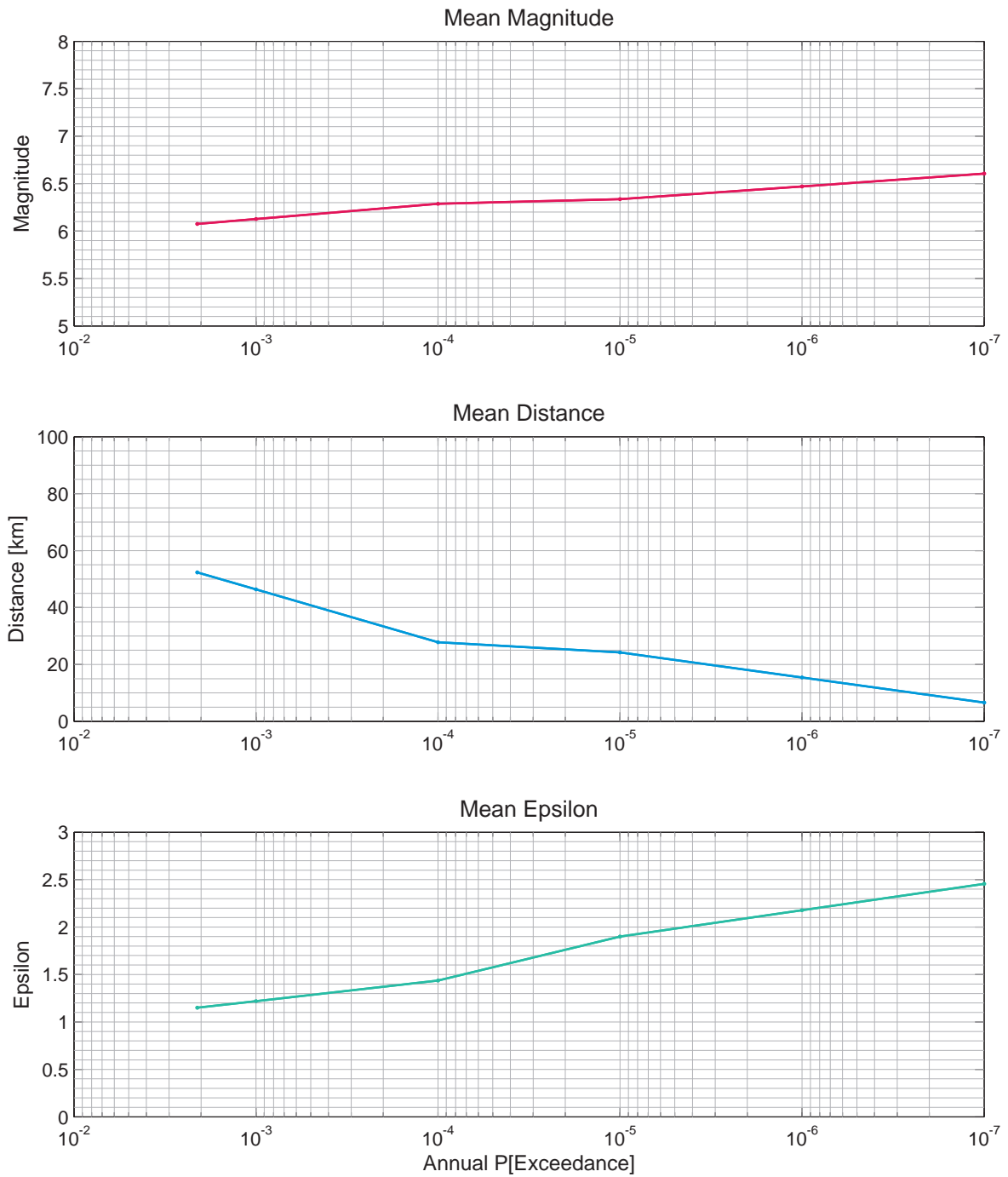


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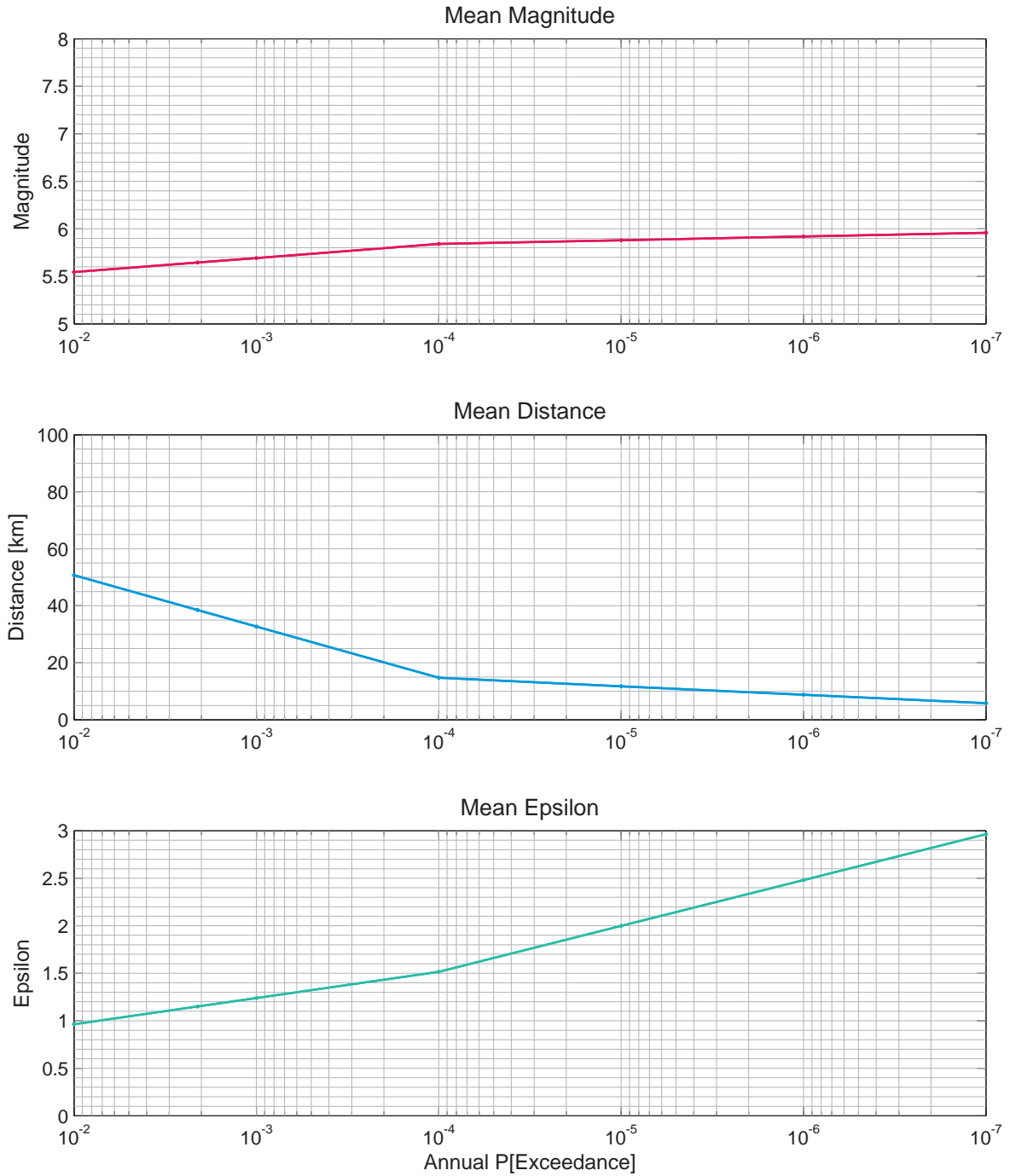


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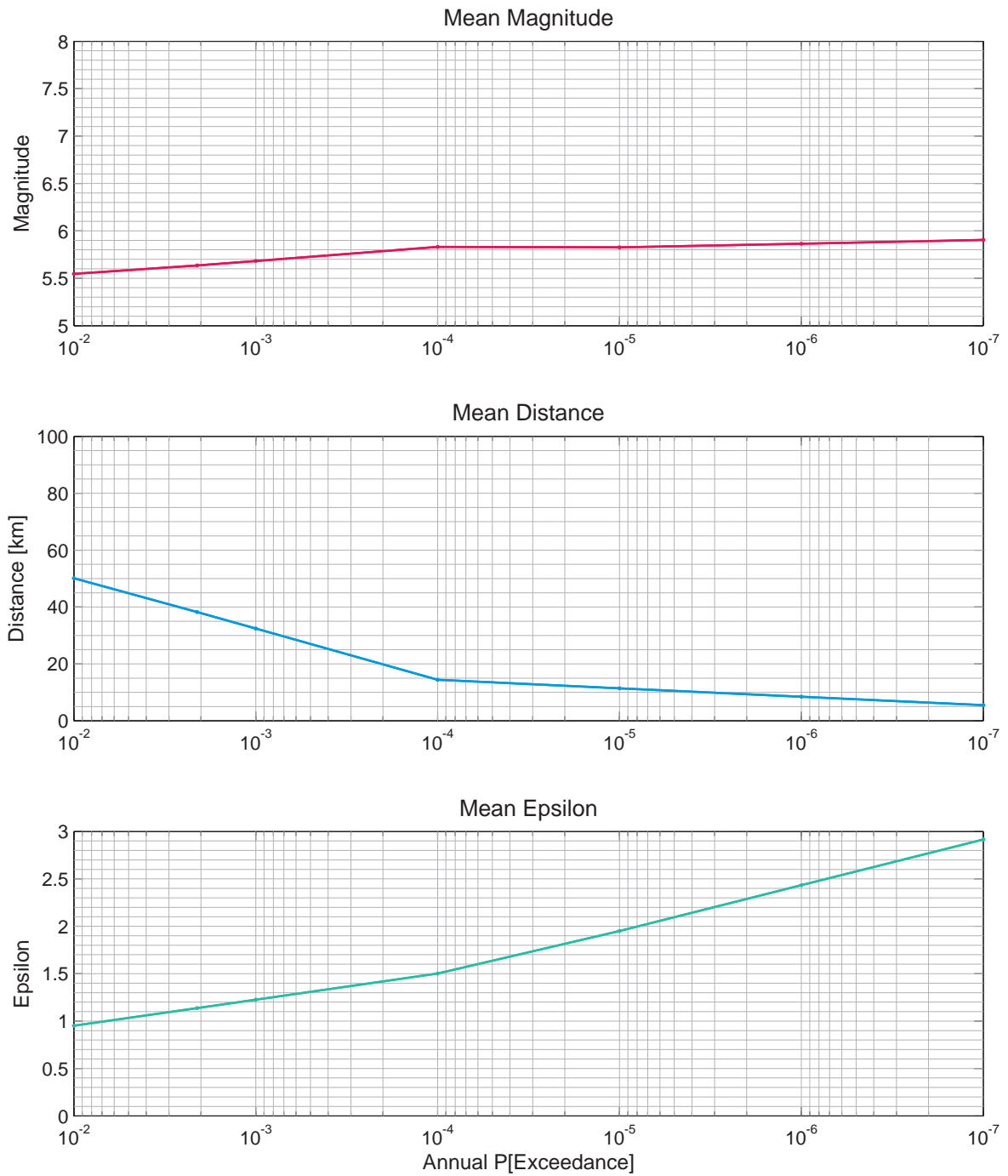


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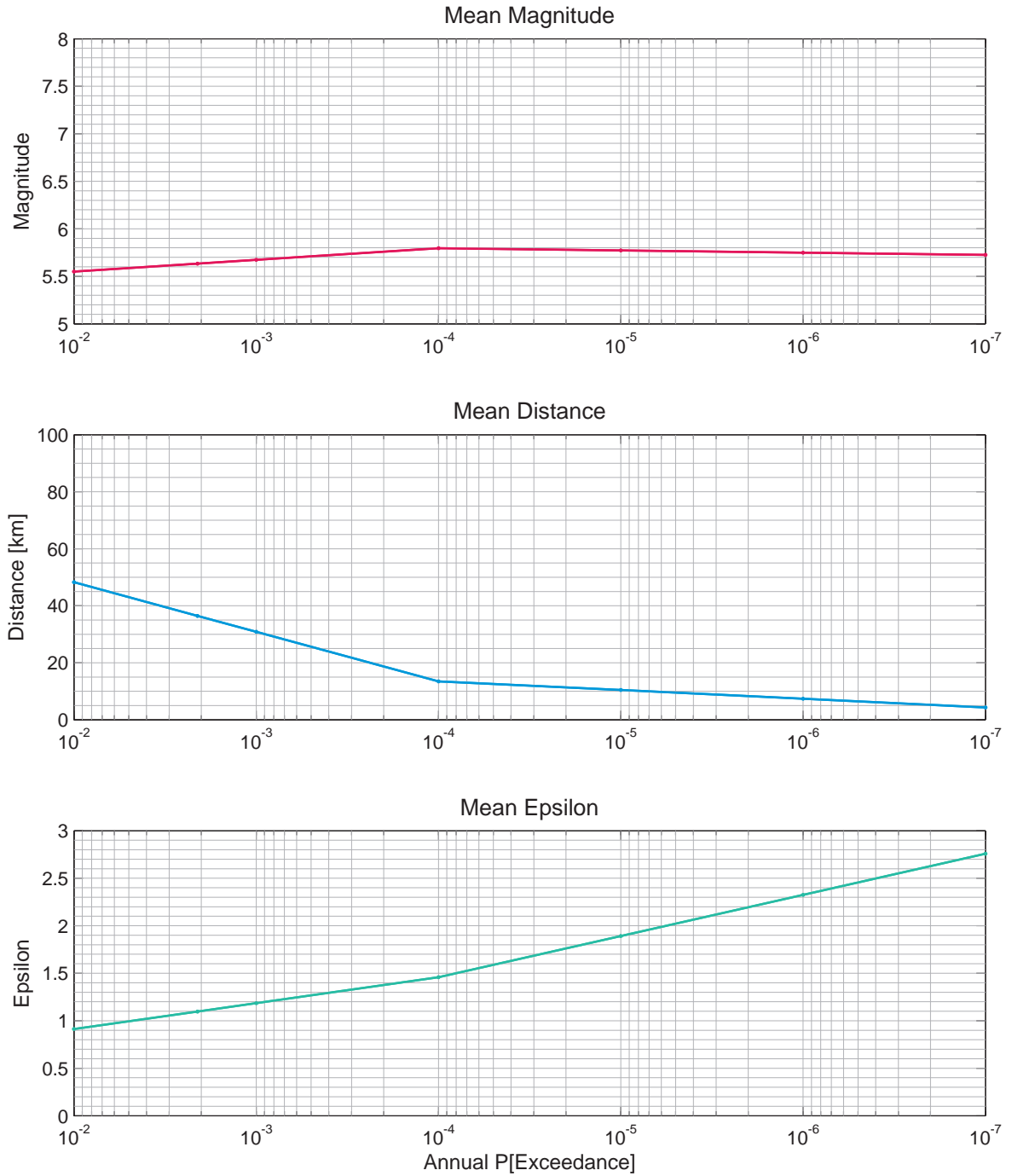


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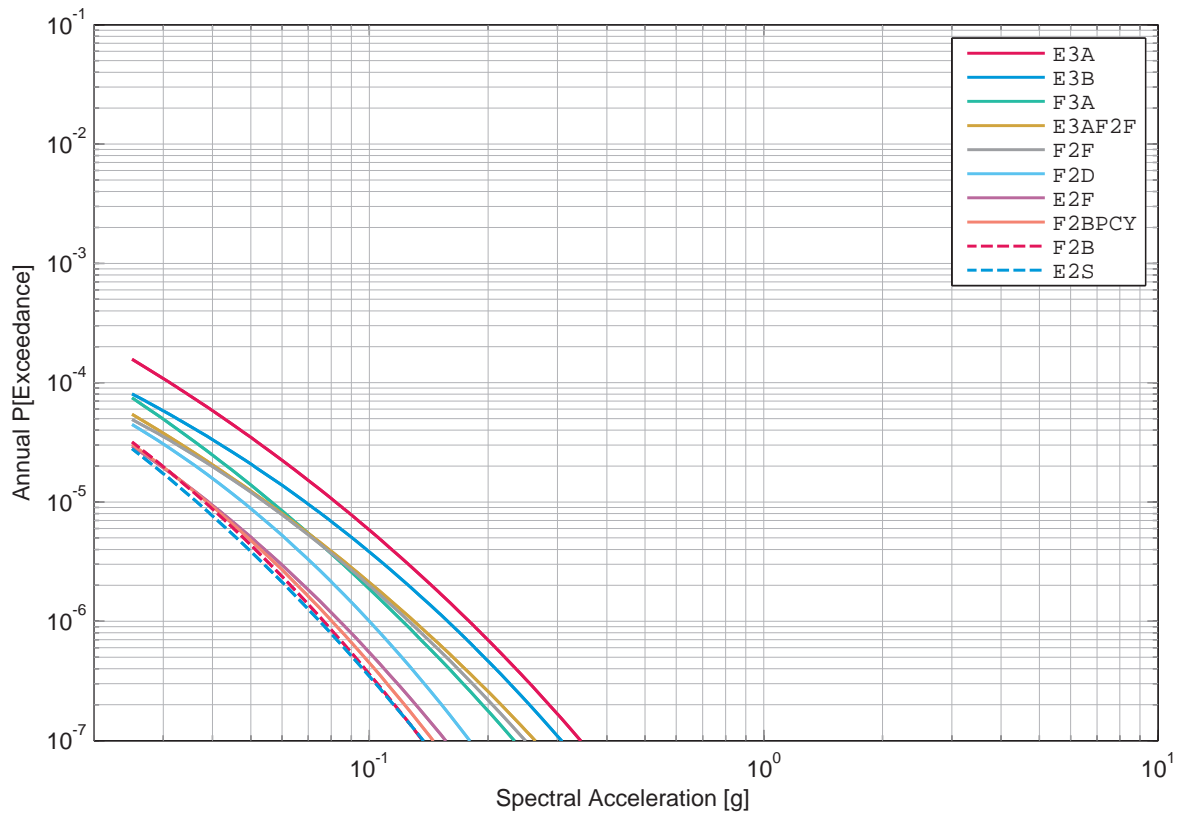


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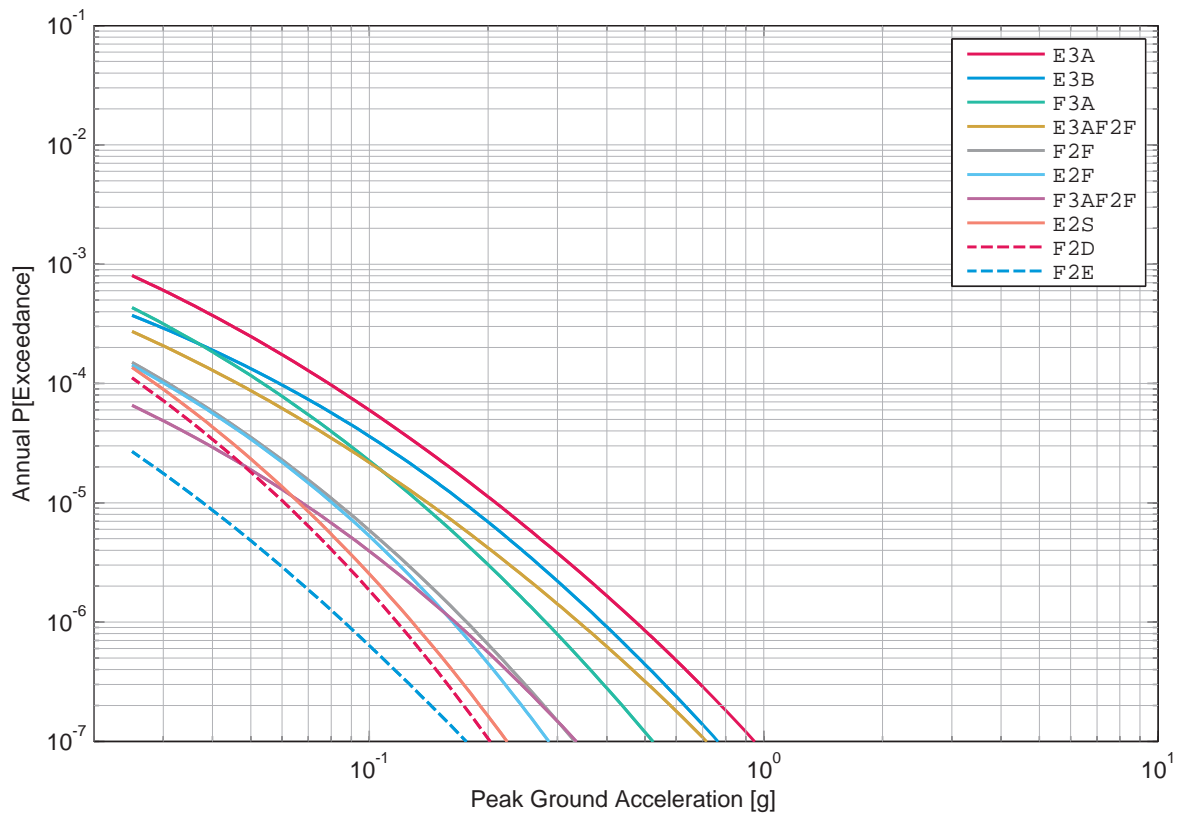


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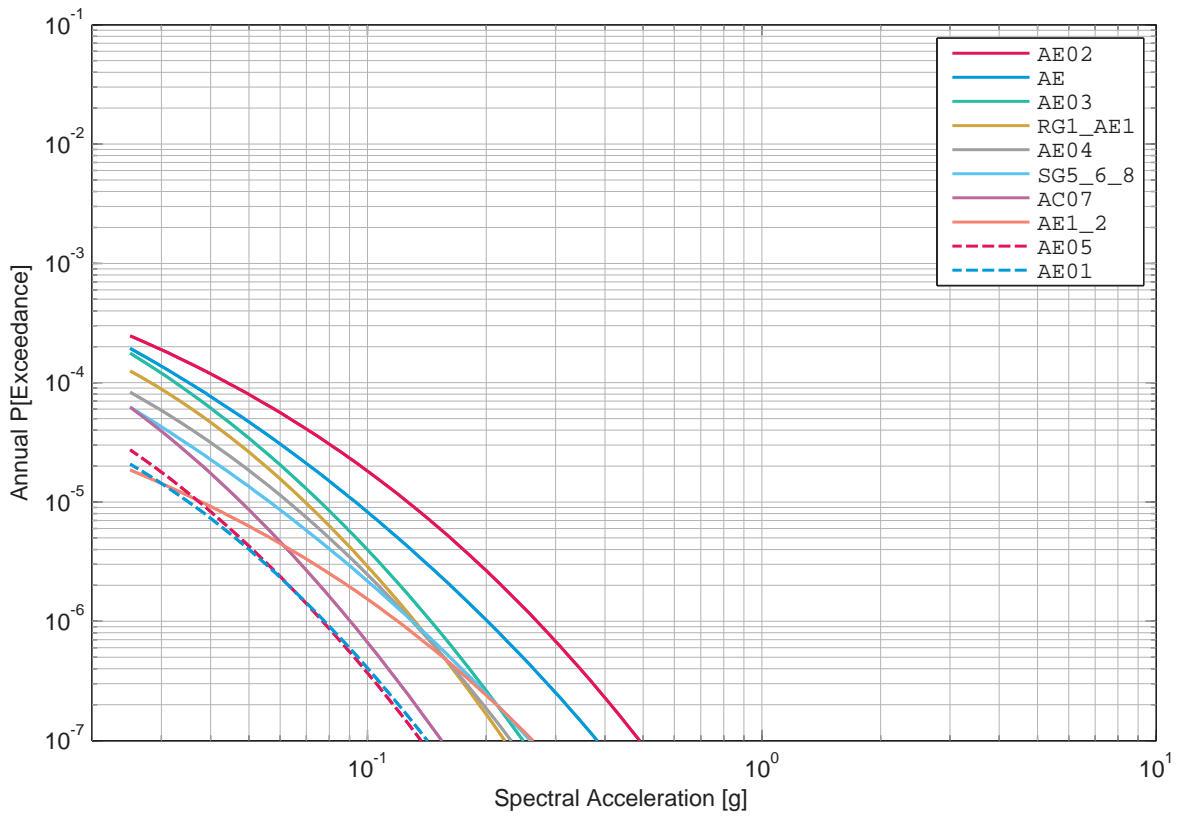


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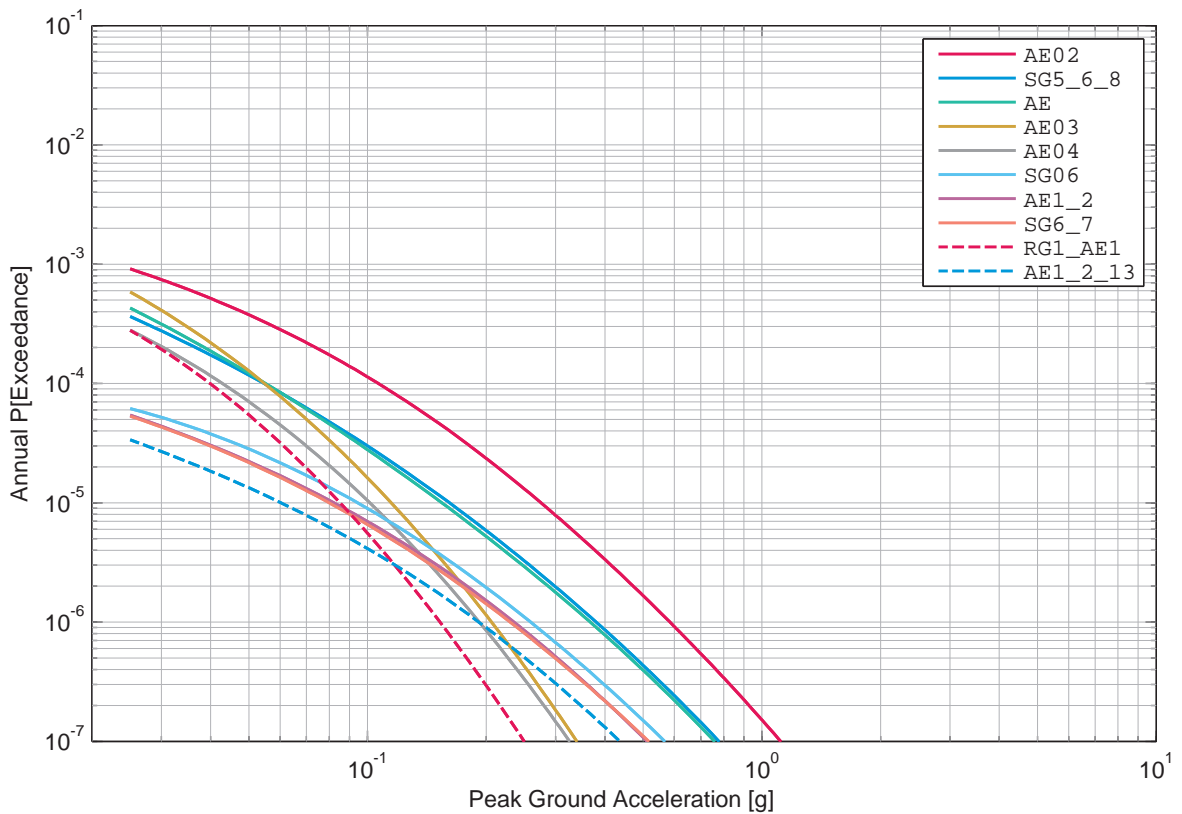


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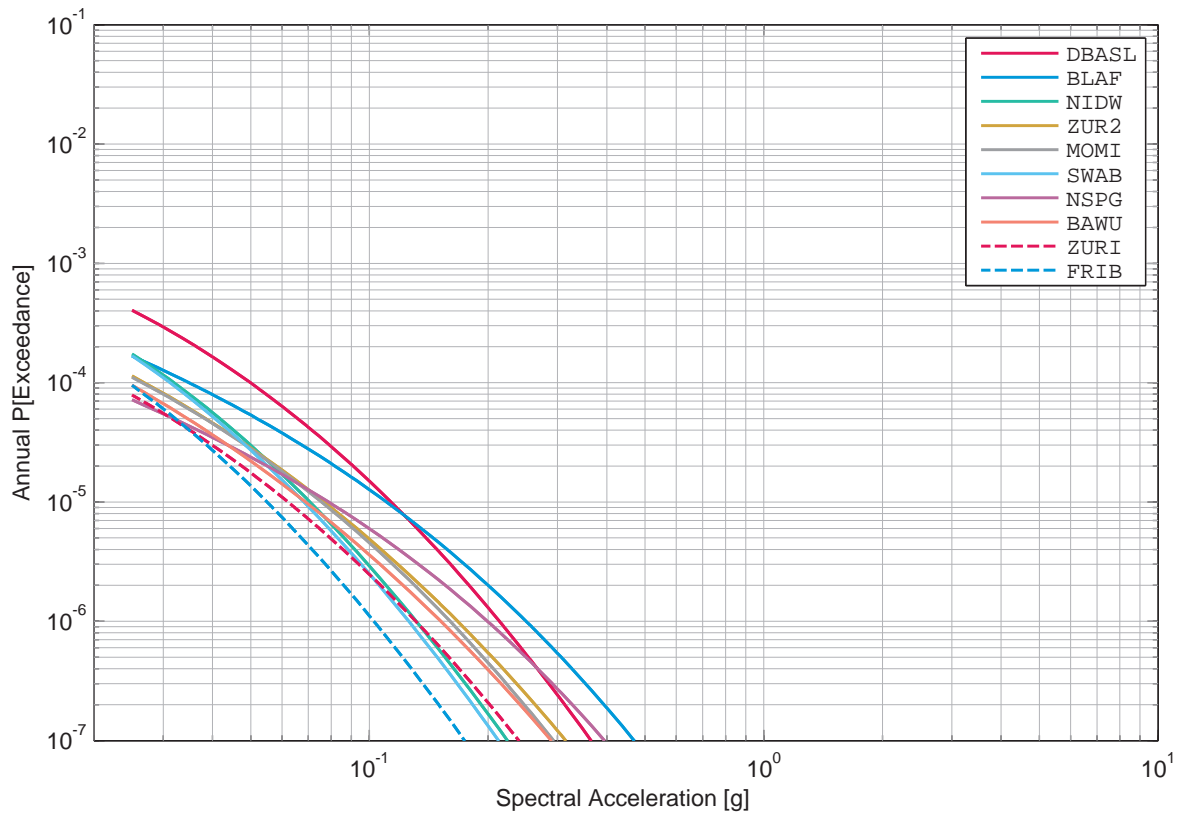


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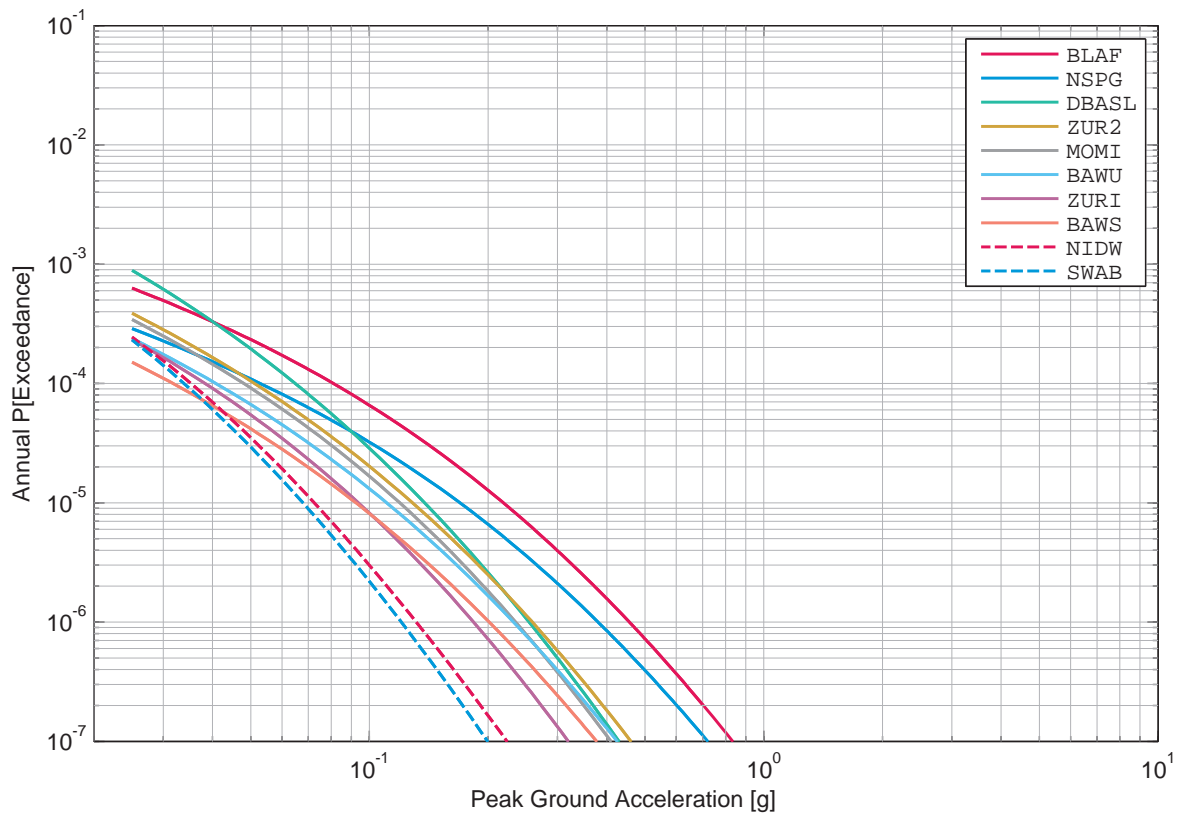


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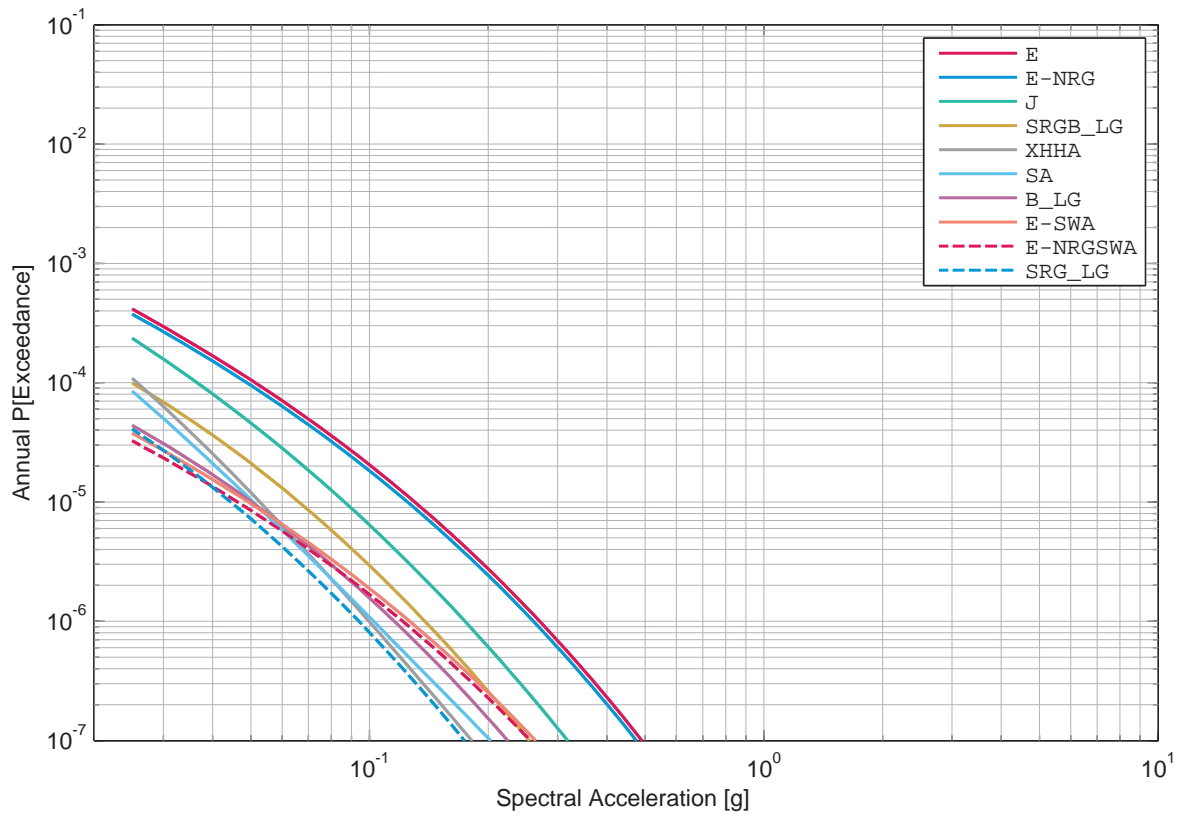


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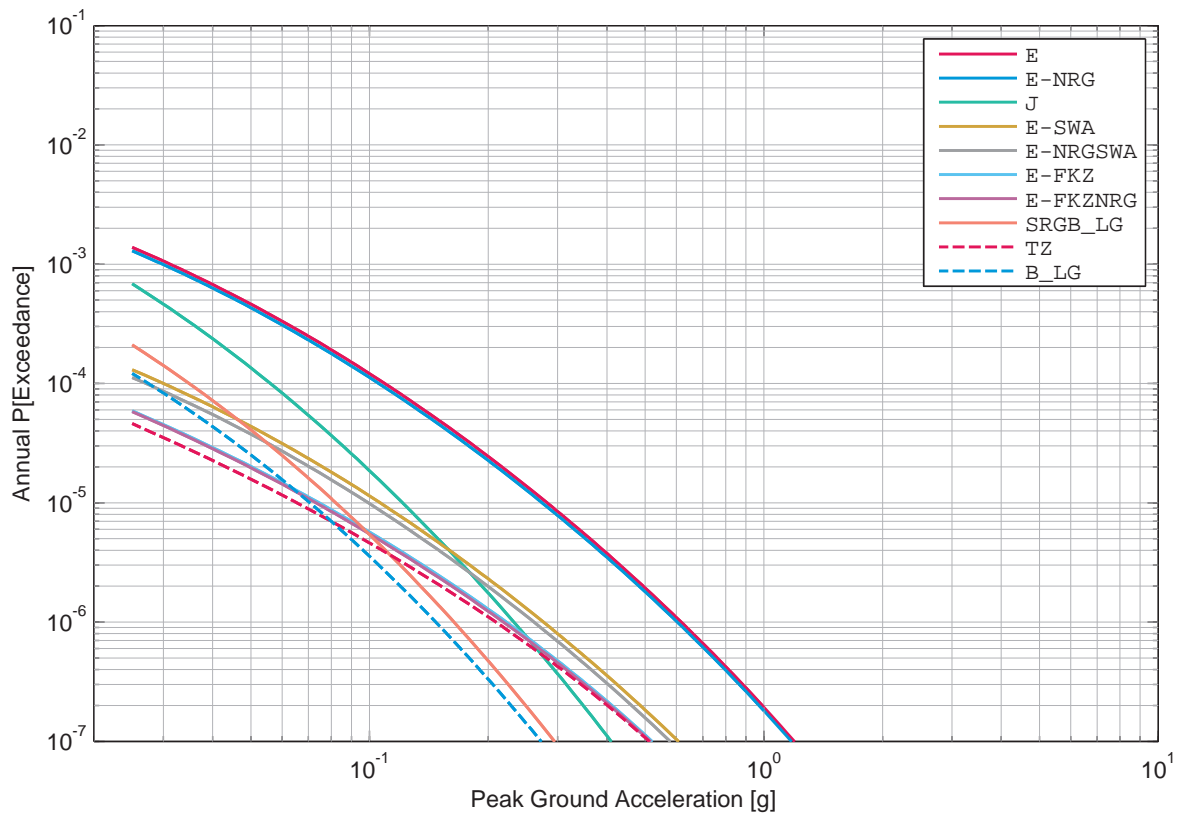


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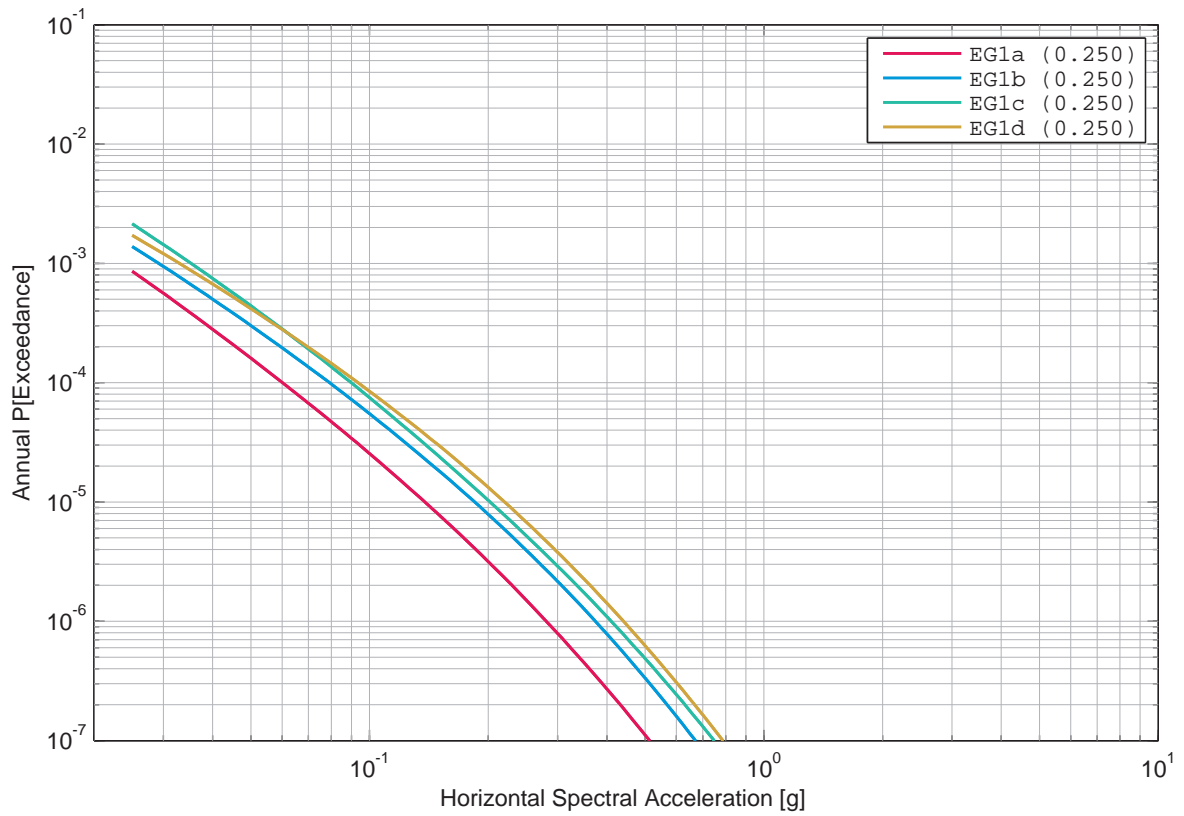


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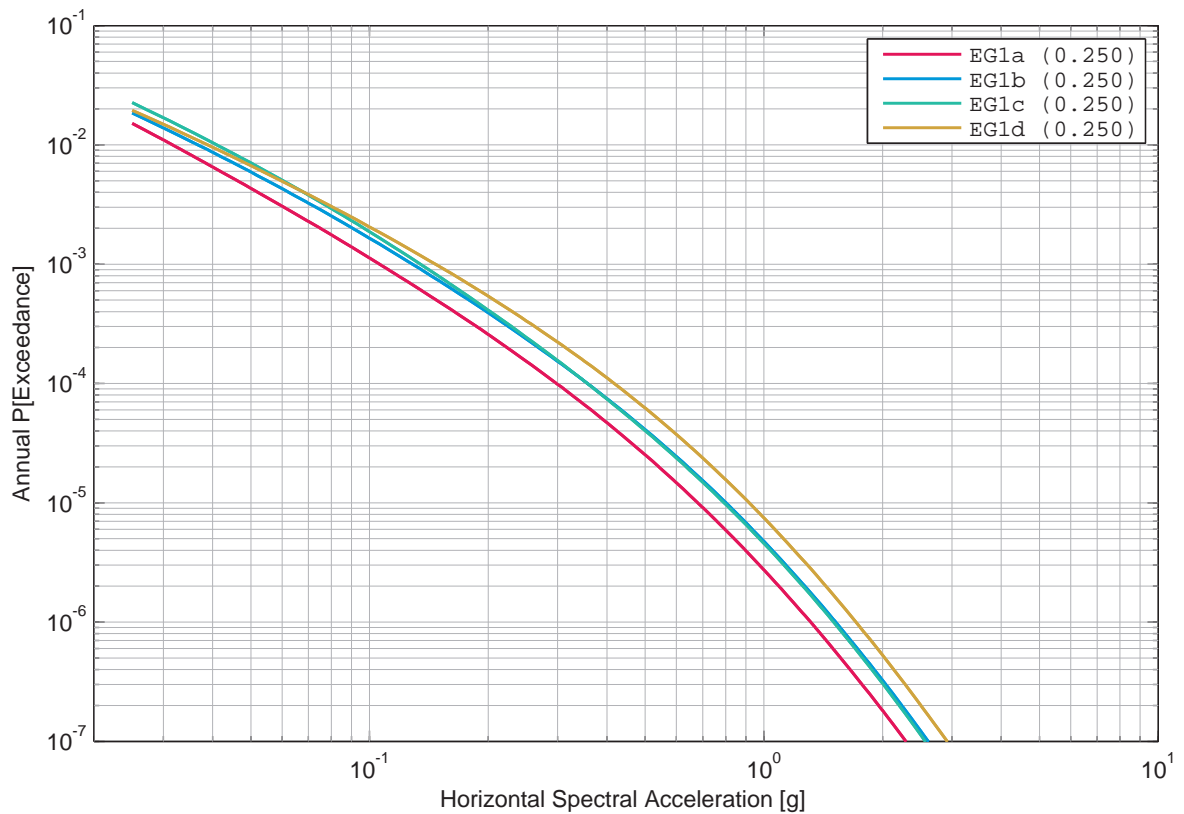


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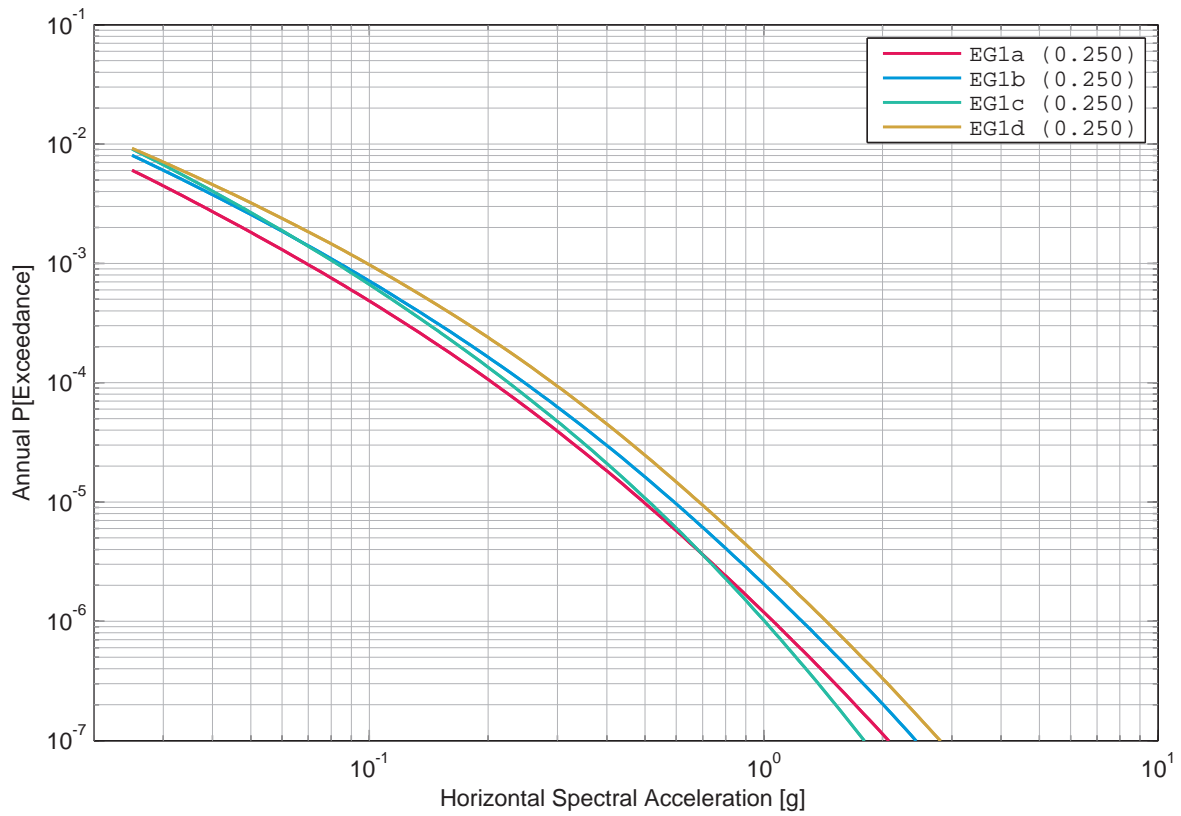


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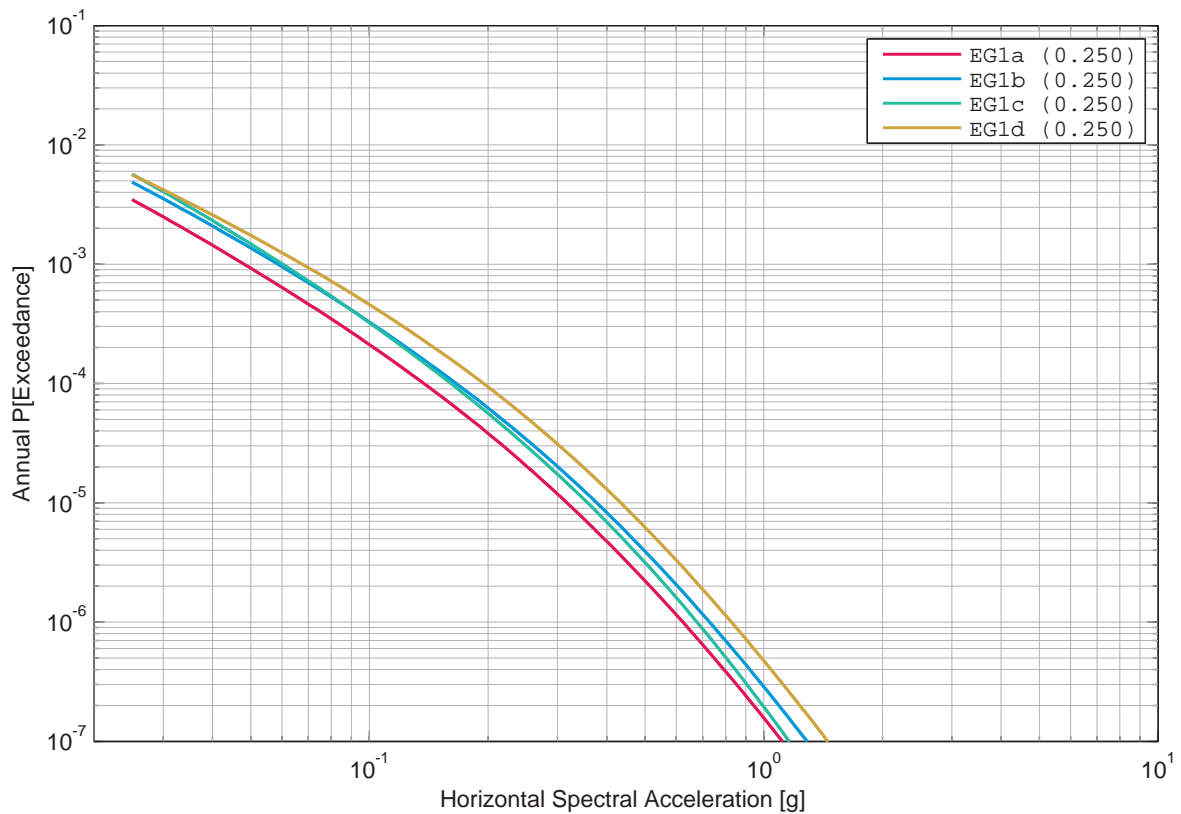


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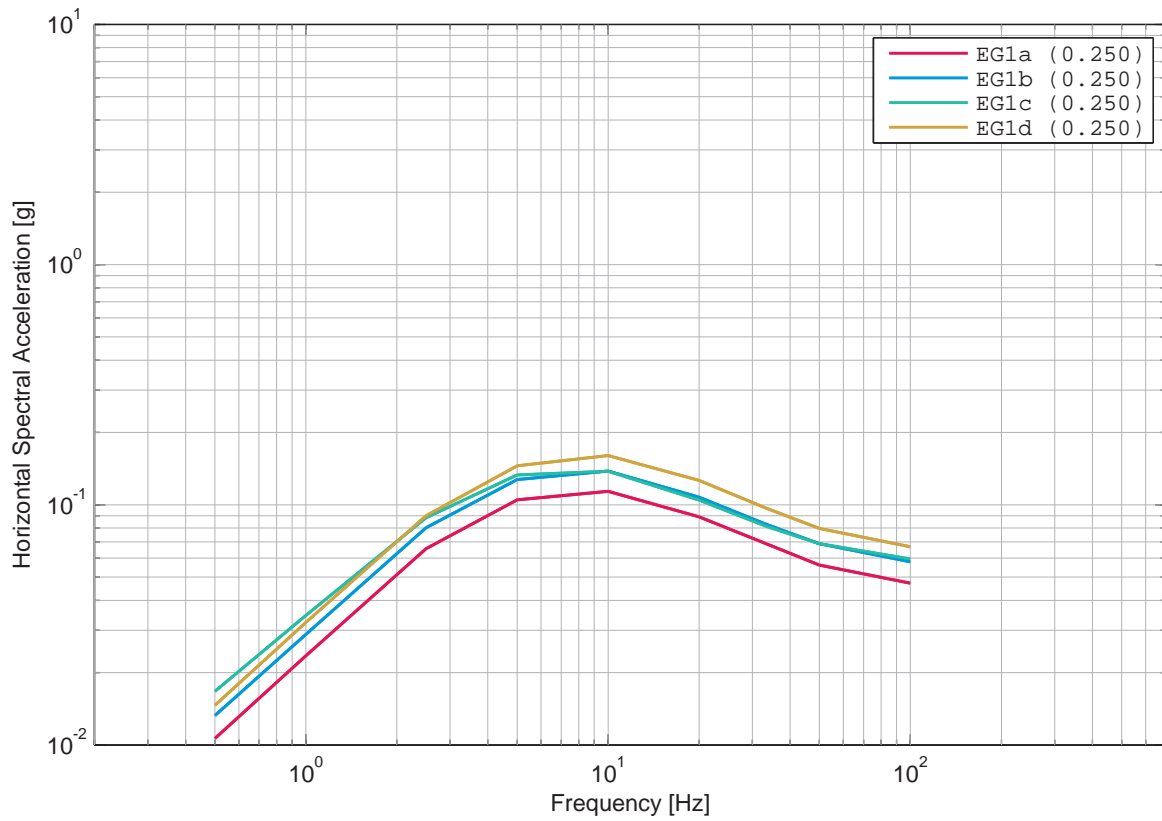


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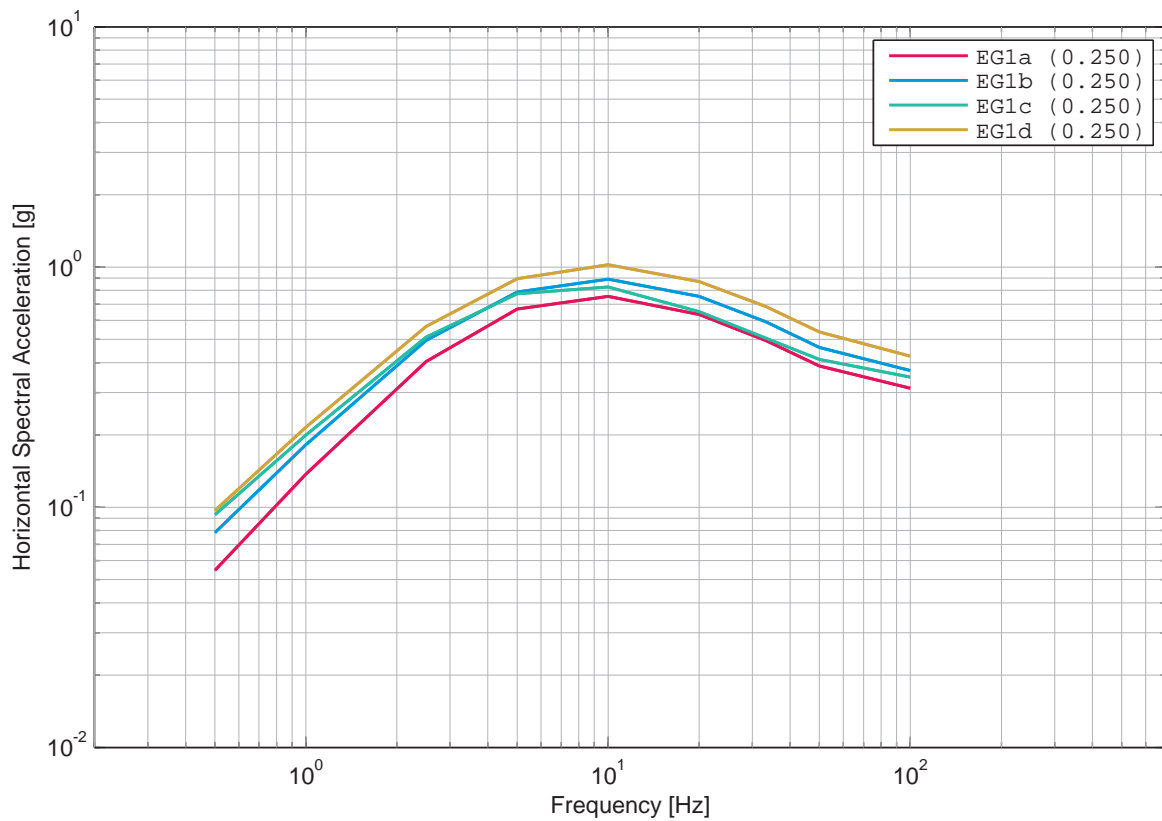


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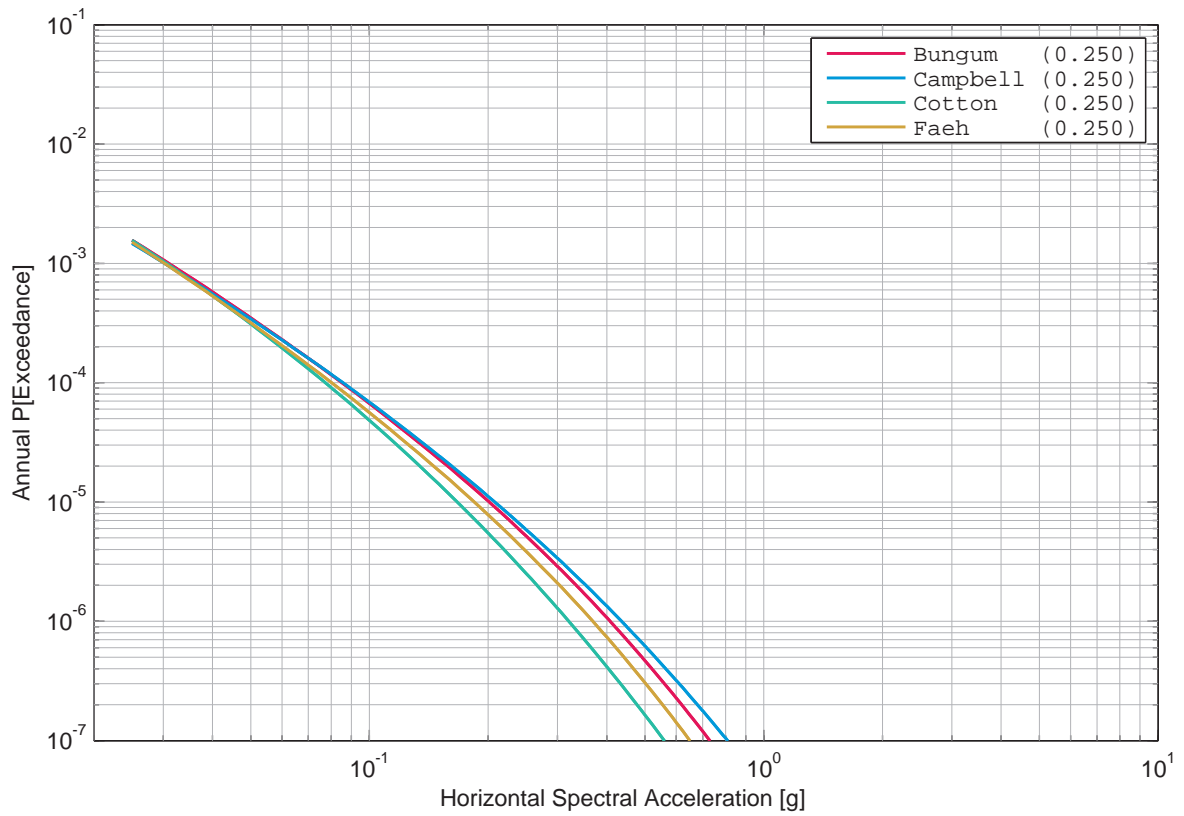


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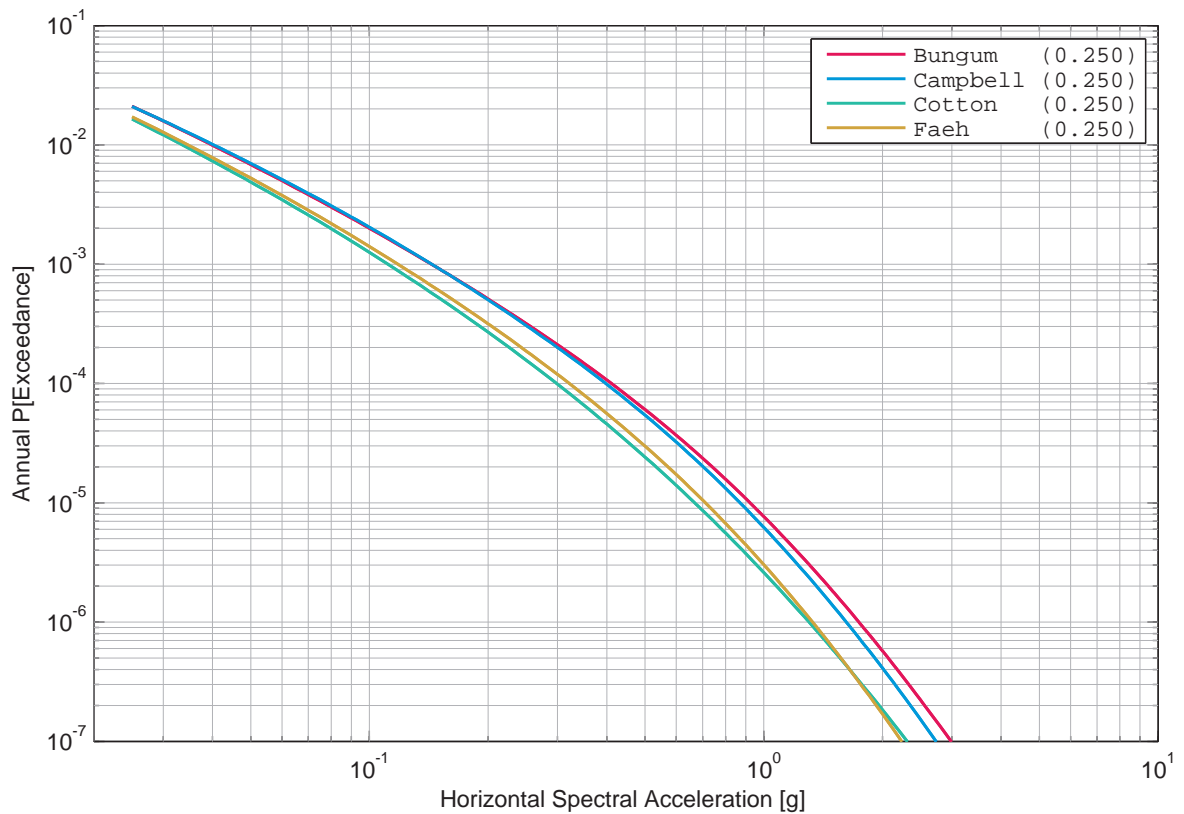


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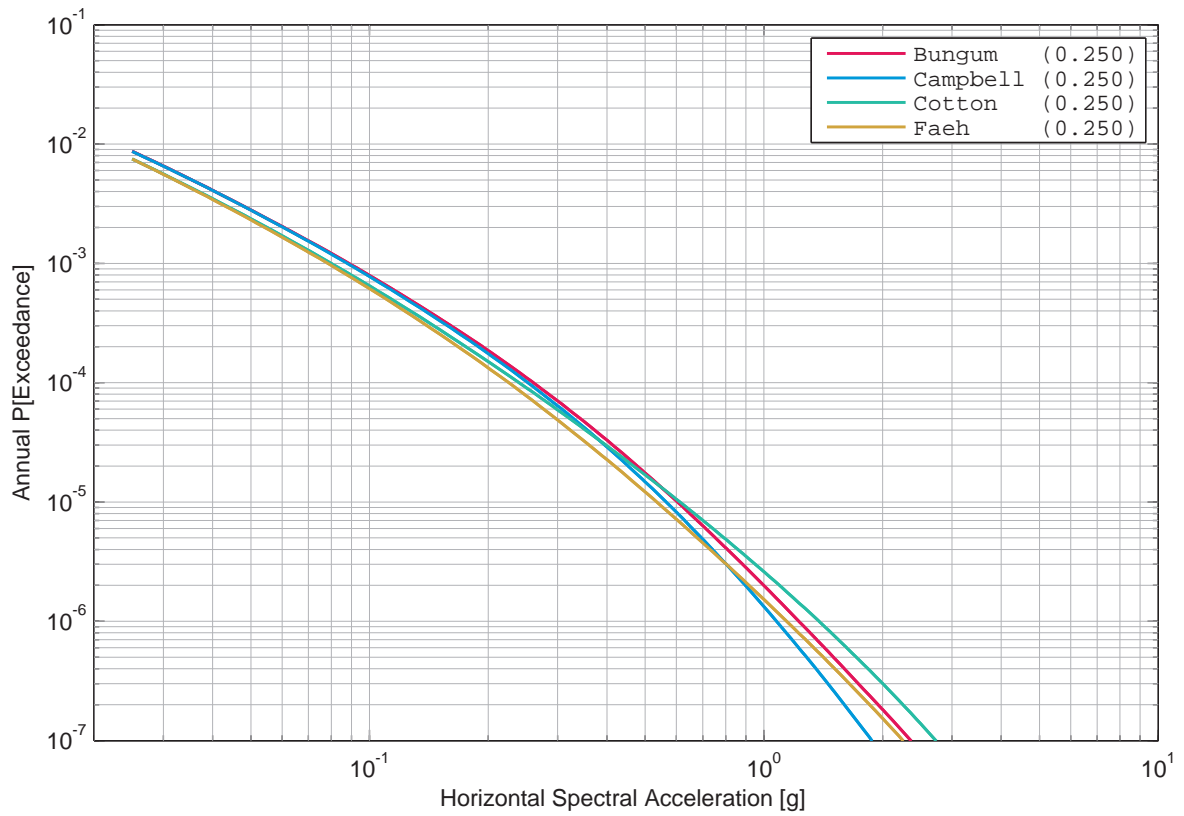


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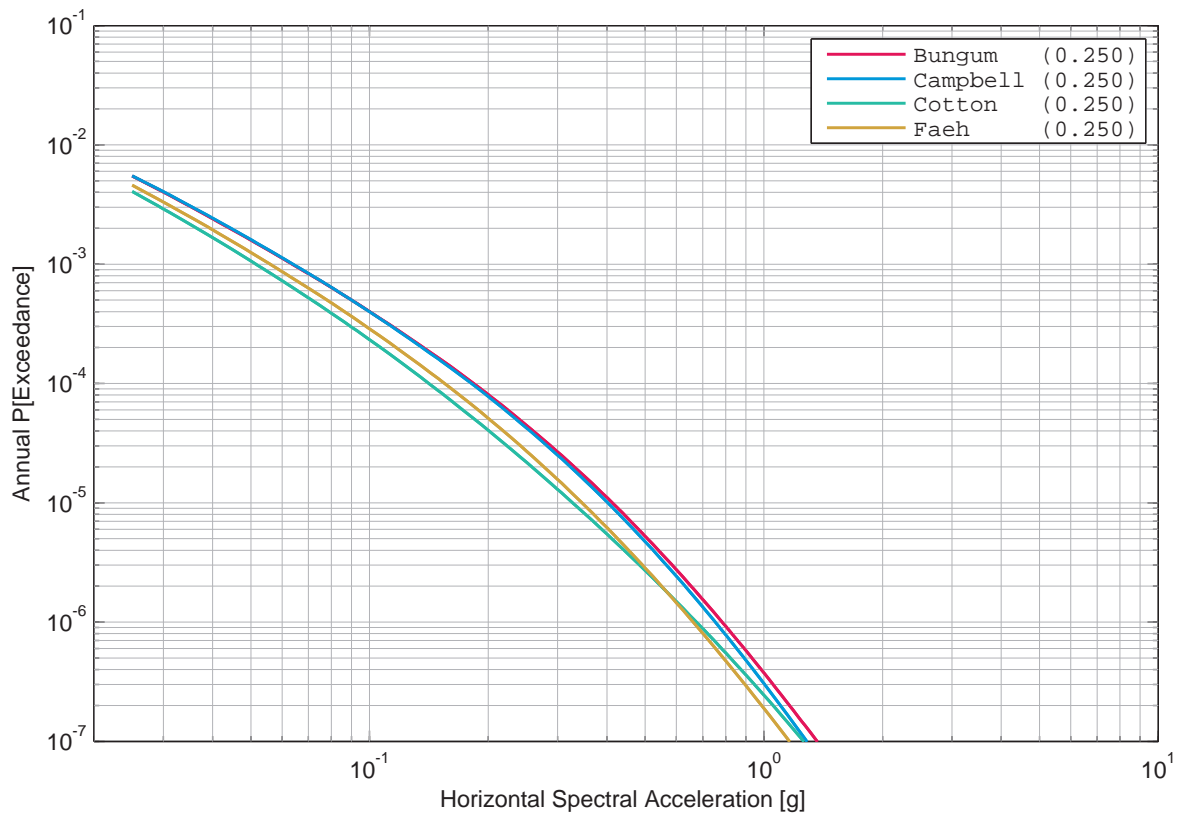


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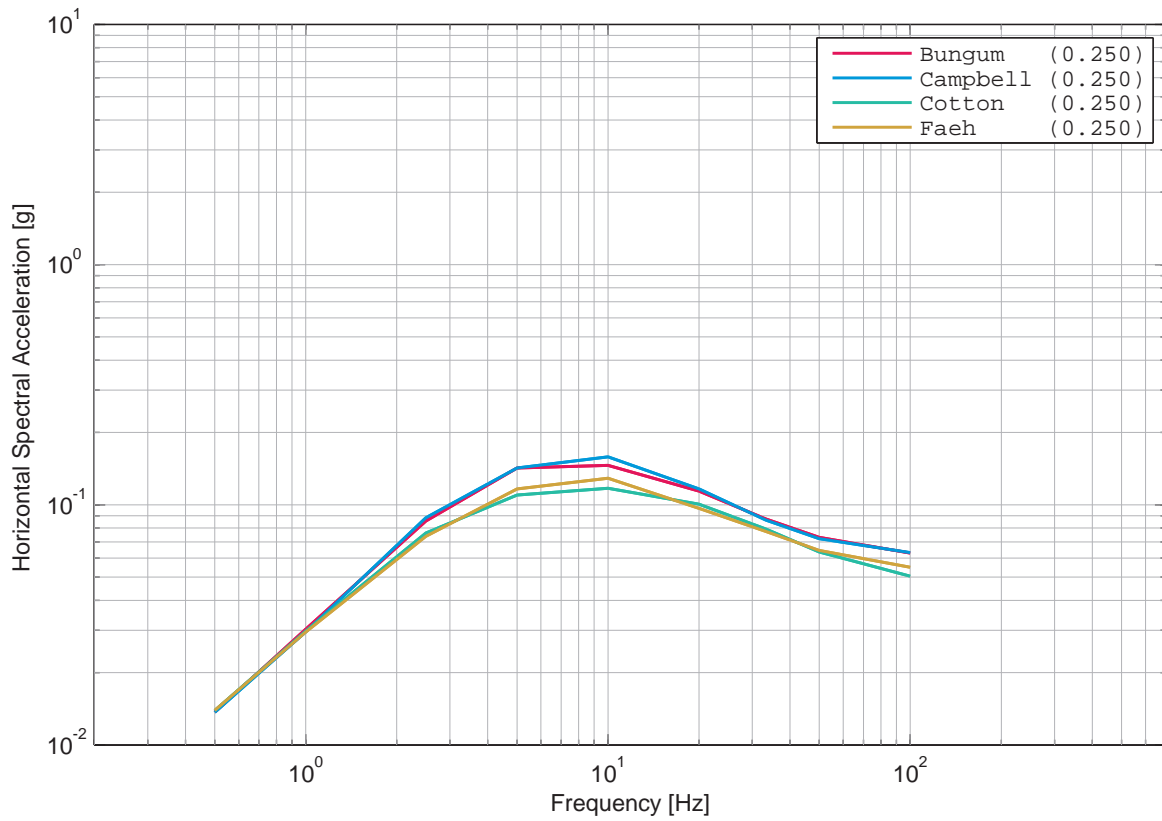


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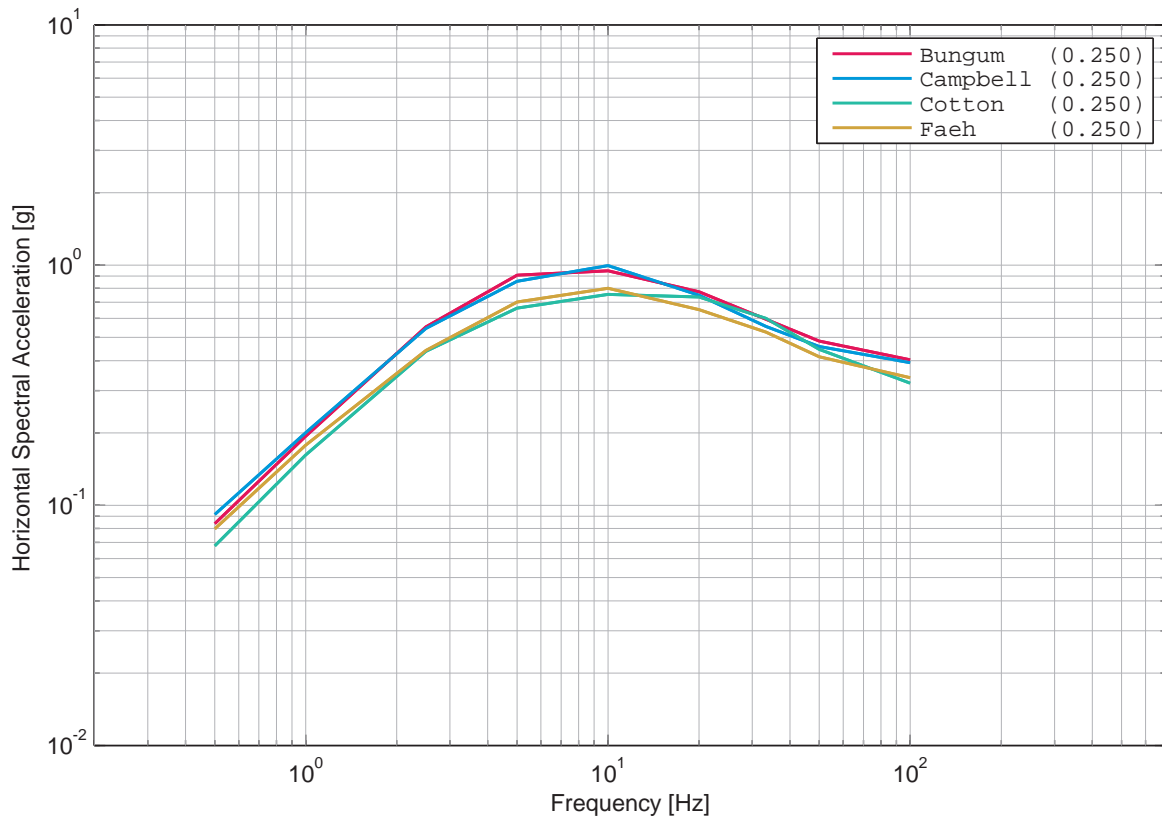


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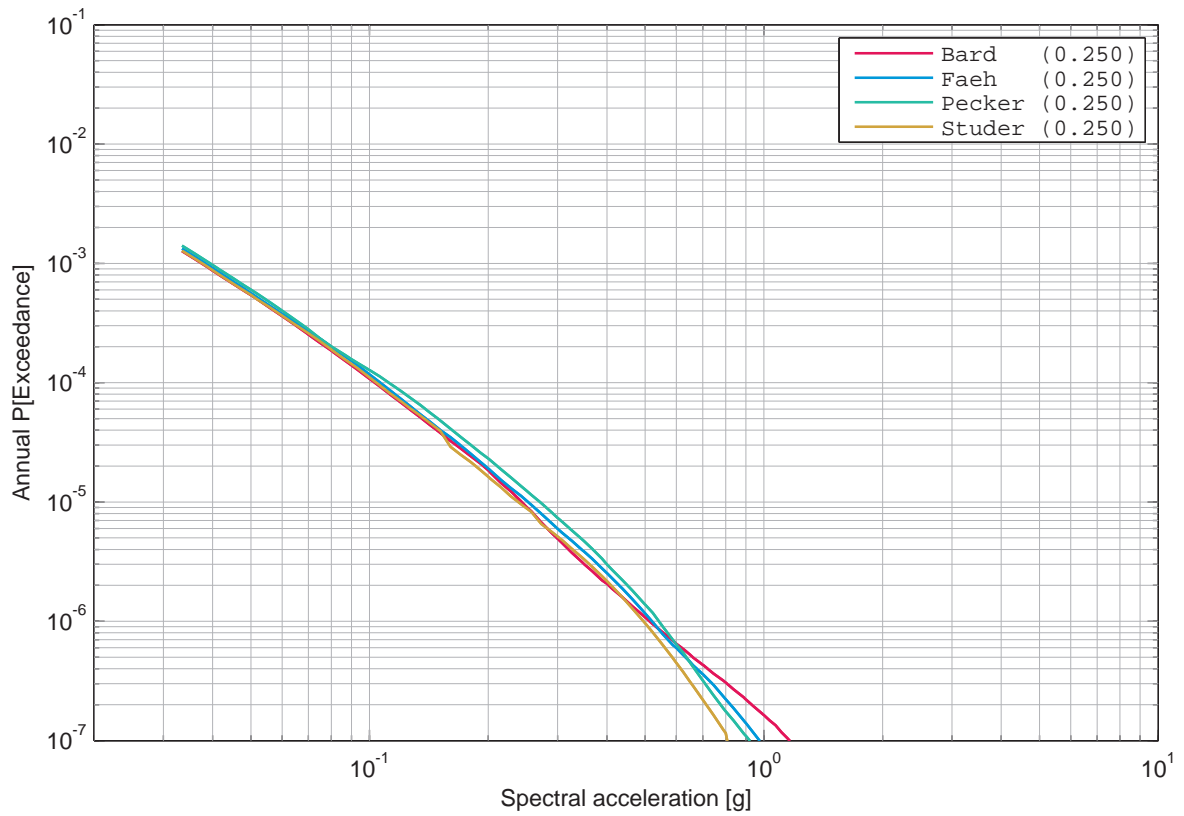


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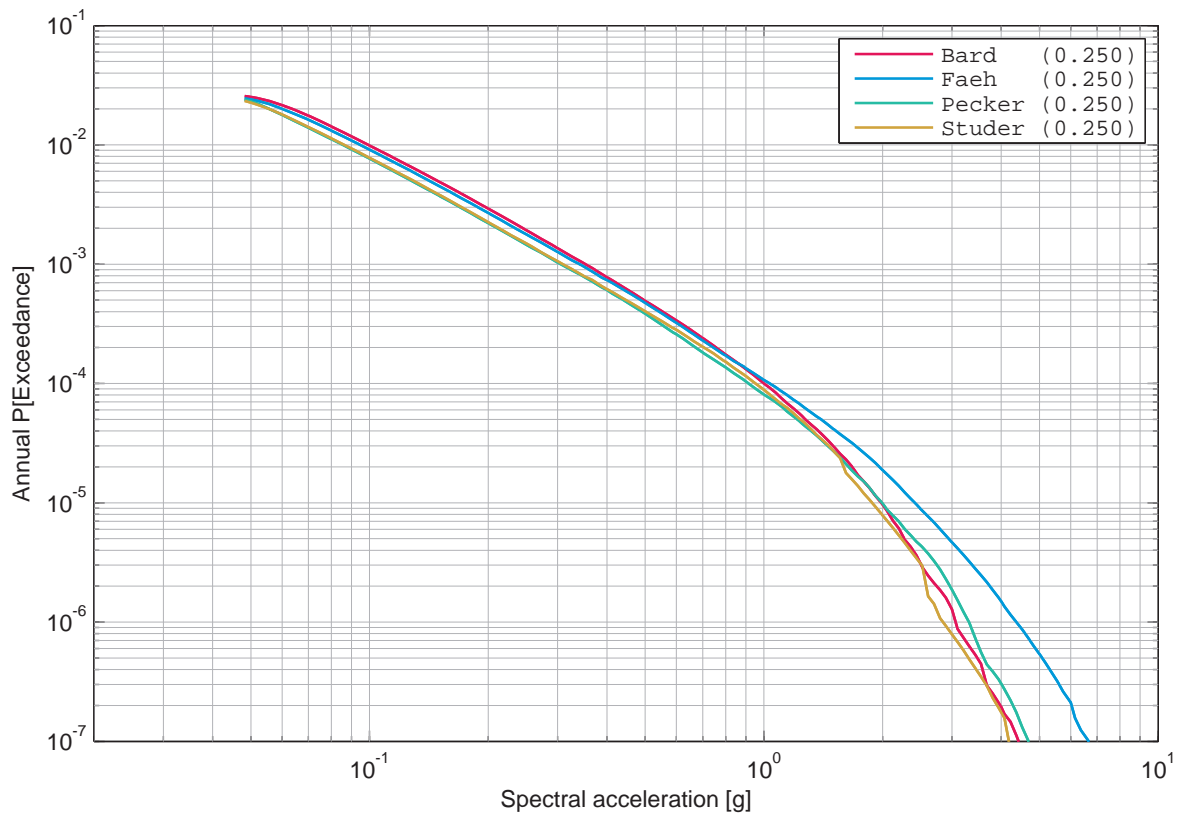


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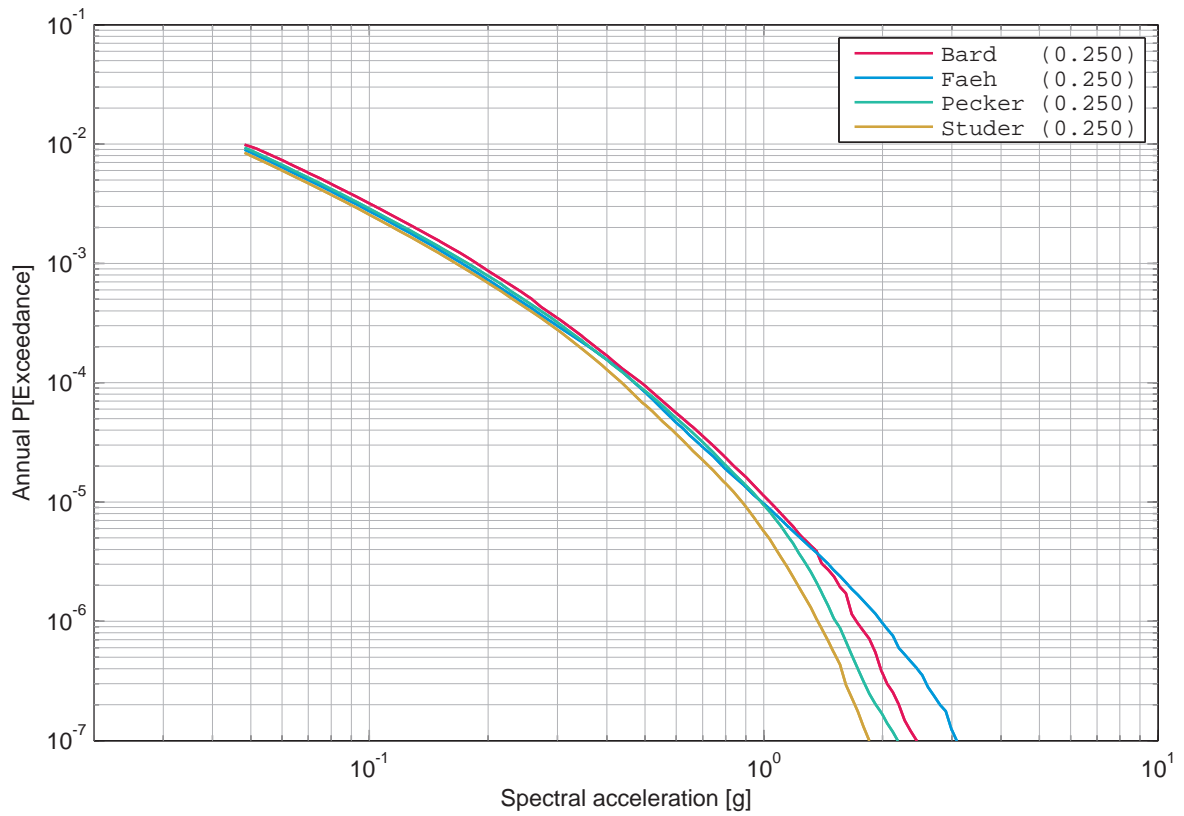


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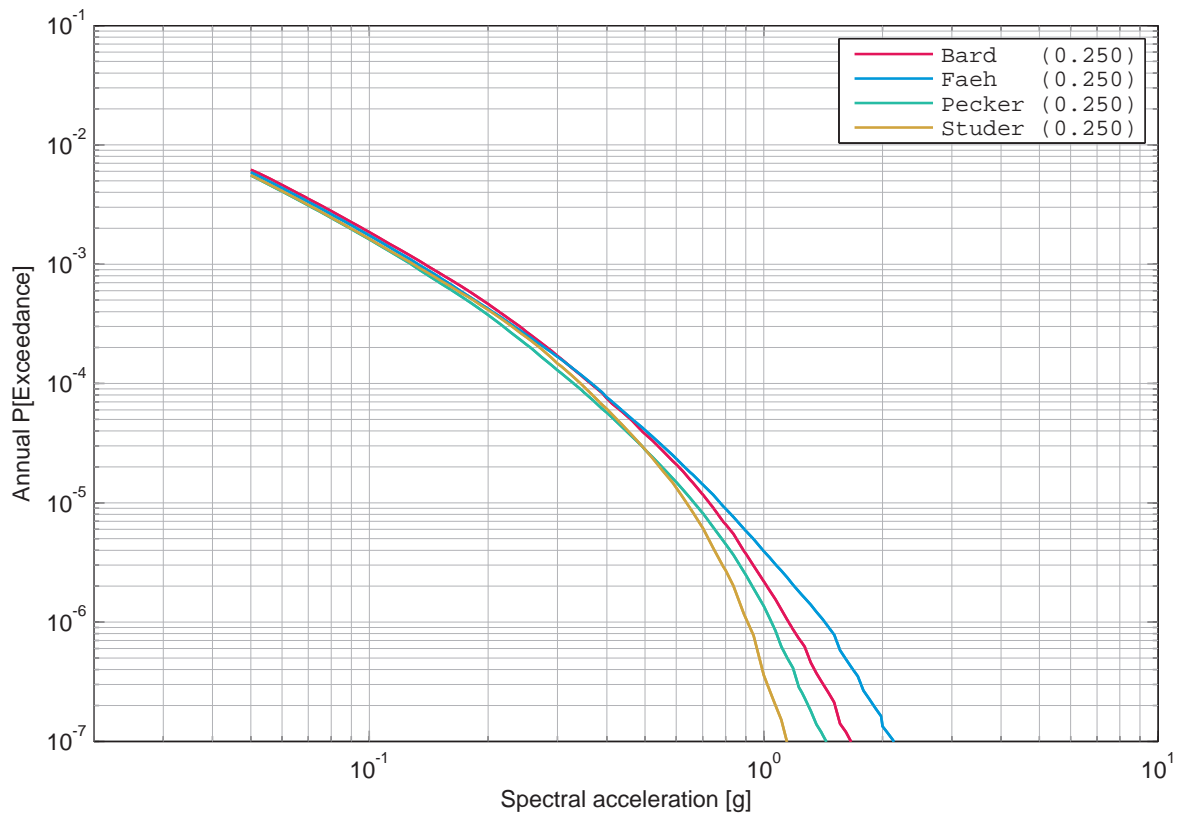


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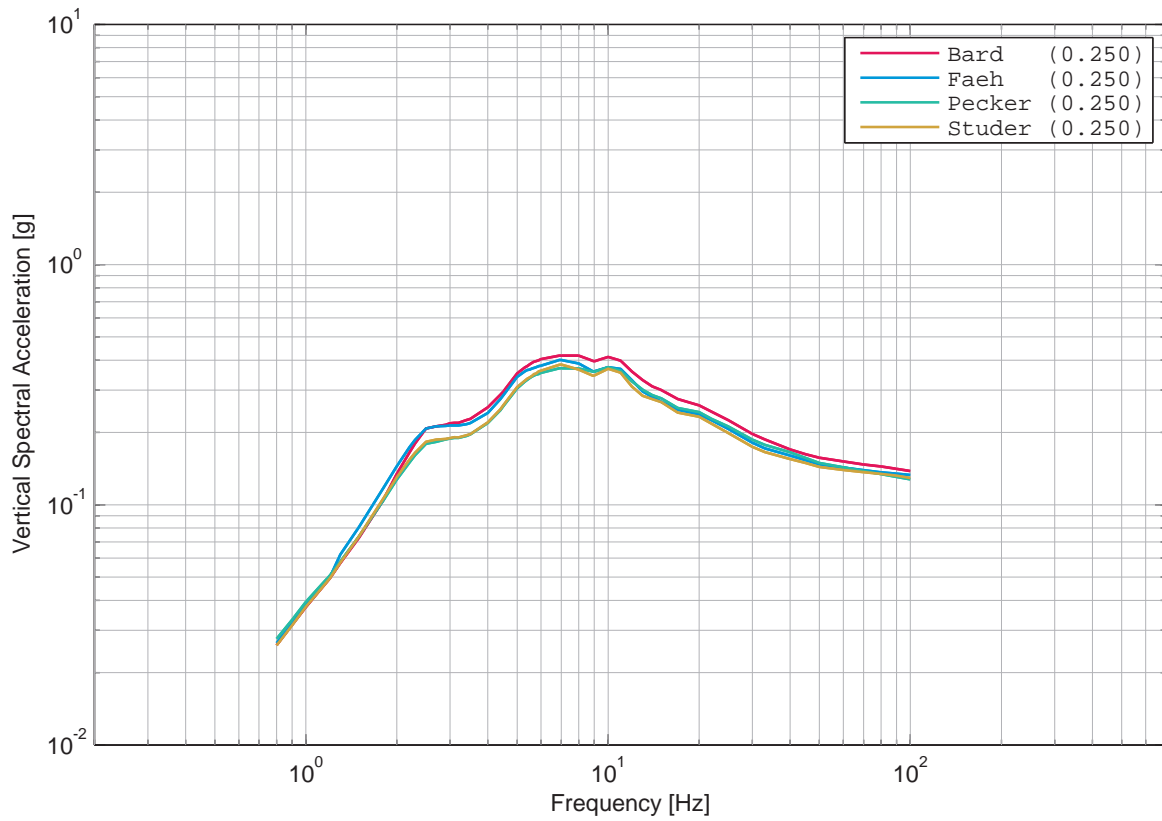


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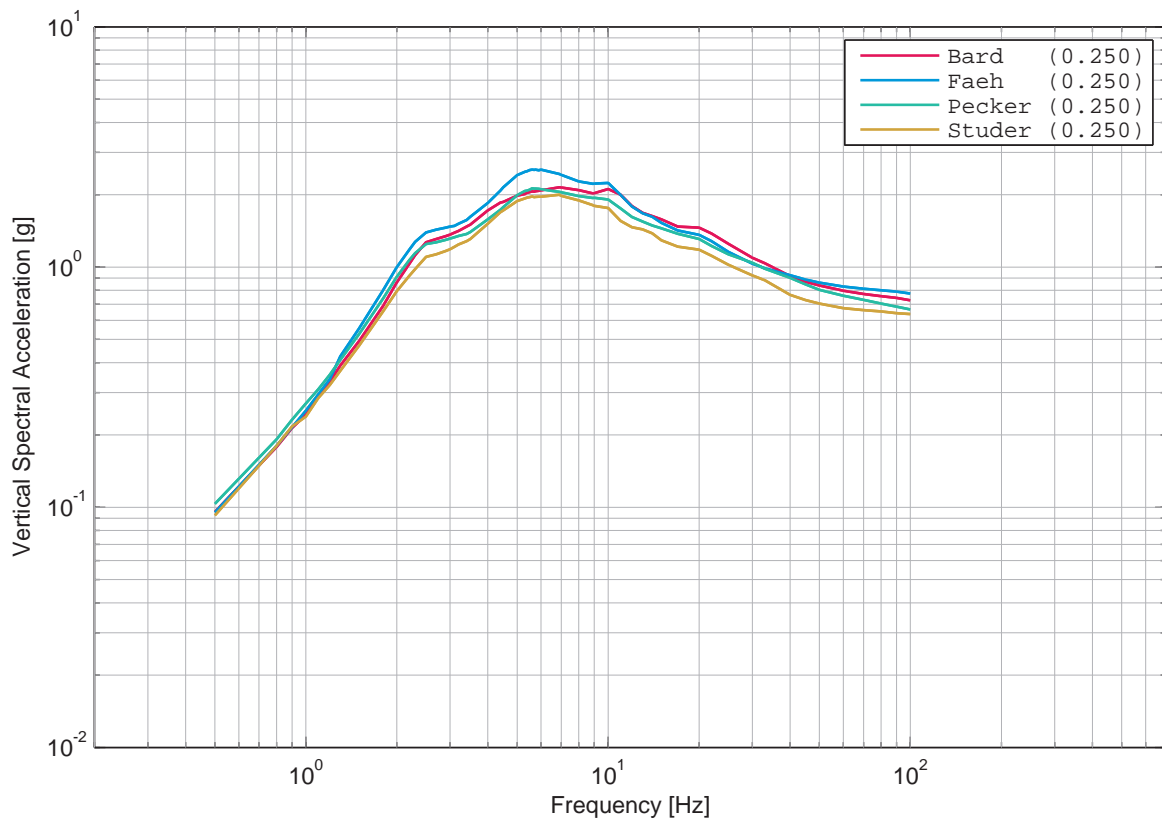


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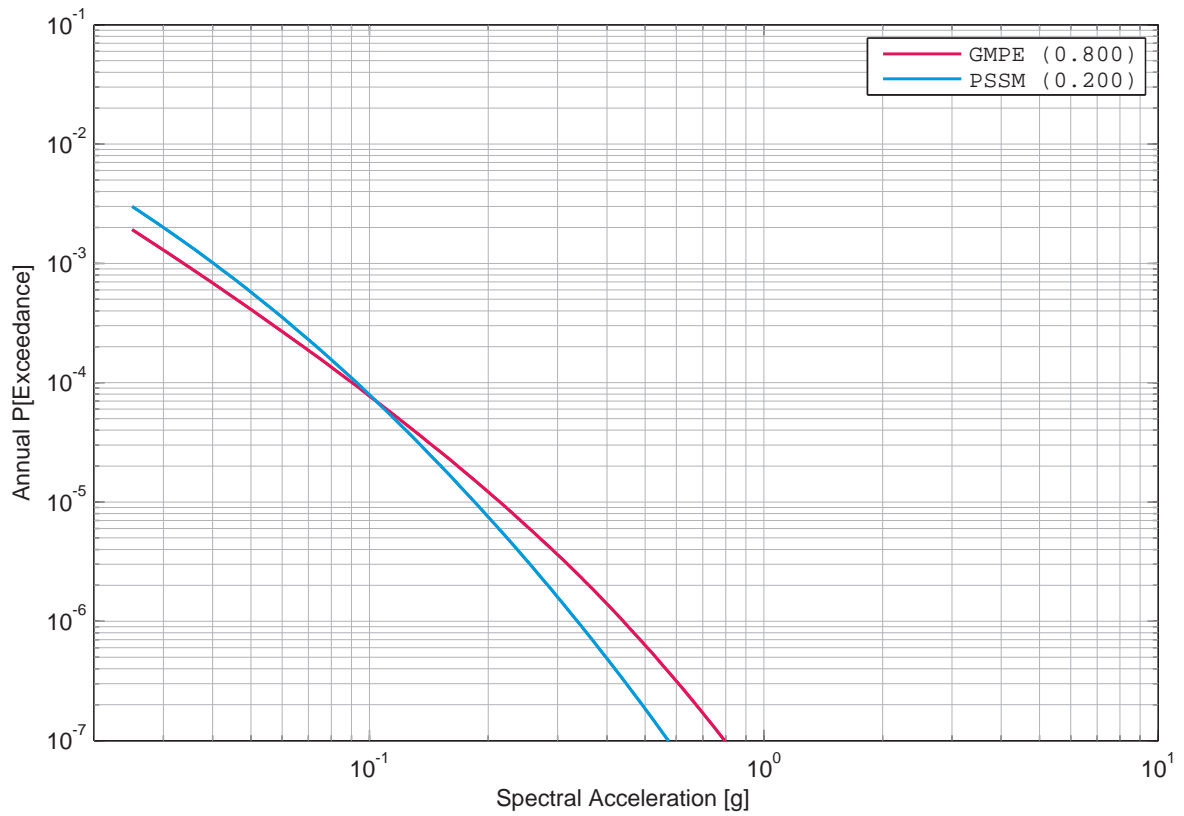


Figure 2.8.1: Beznau, horizontal component, rock, Bungum’s sensitivity to the model category, 1 Hz.

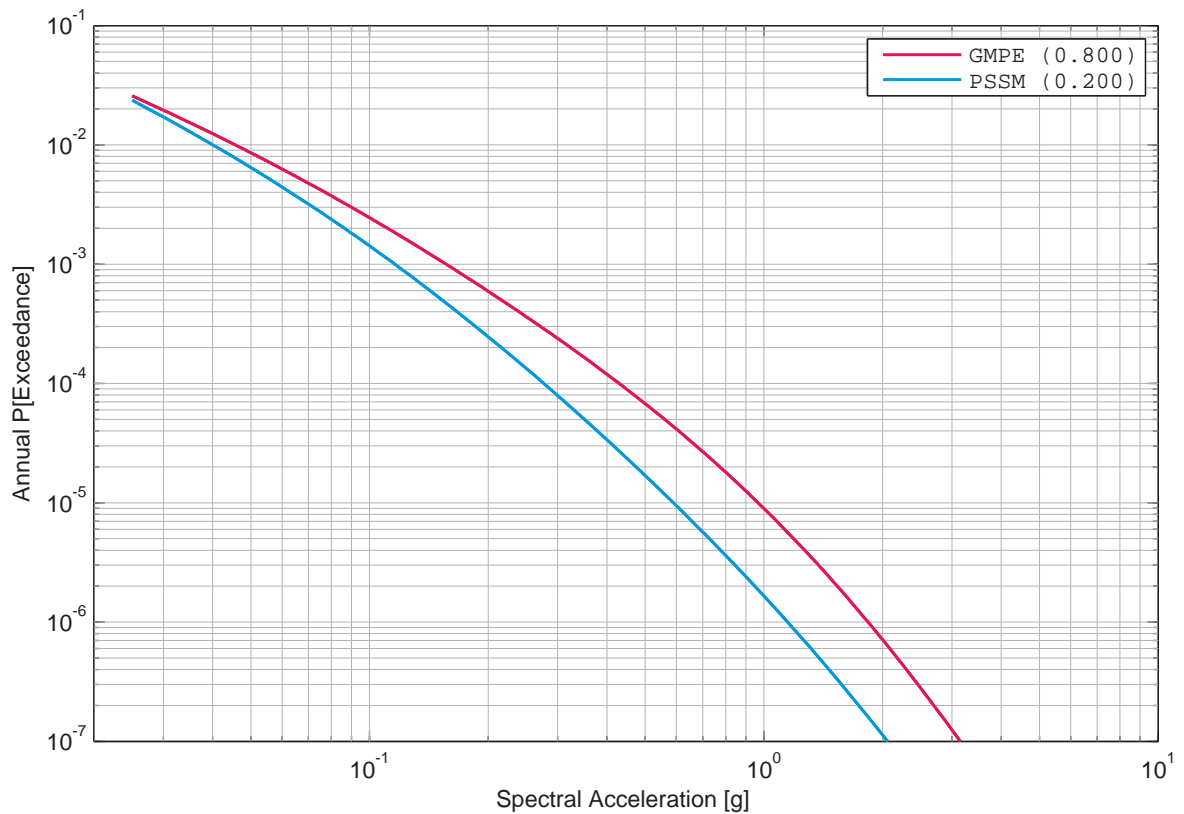


Figure 2.8.2: Beznau, horizontal component, rock, Bungum’s sensitivity to the model category, 5 Hz.

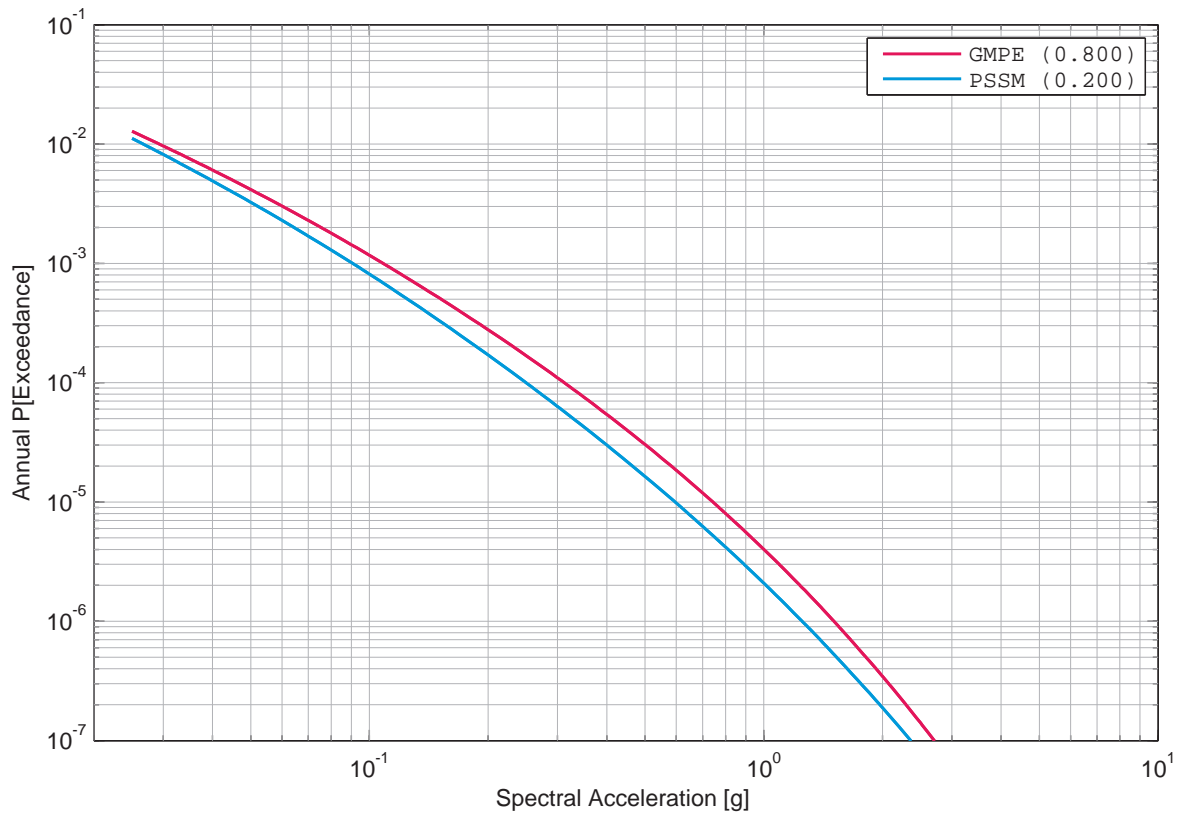


Figure 2.8.3: Beznau, horizontal component, rock, Bungum’s sensitivity to the model category, 33 Hz.

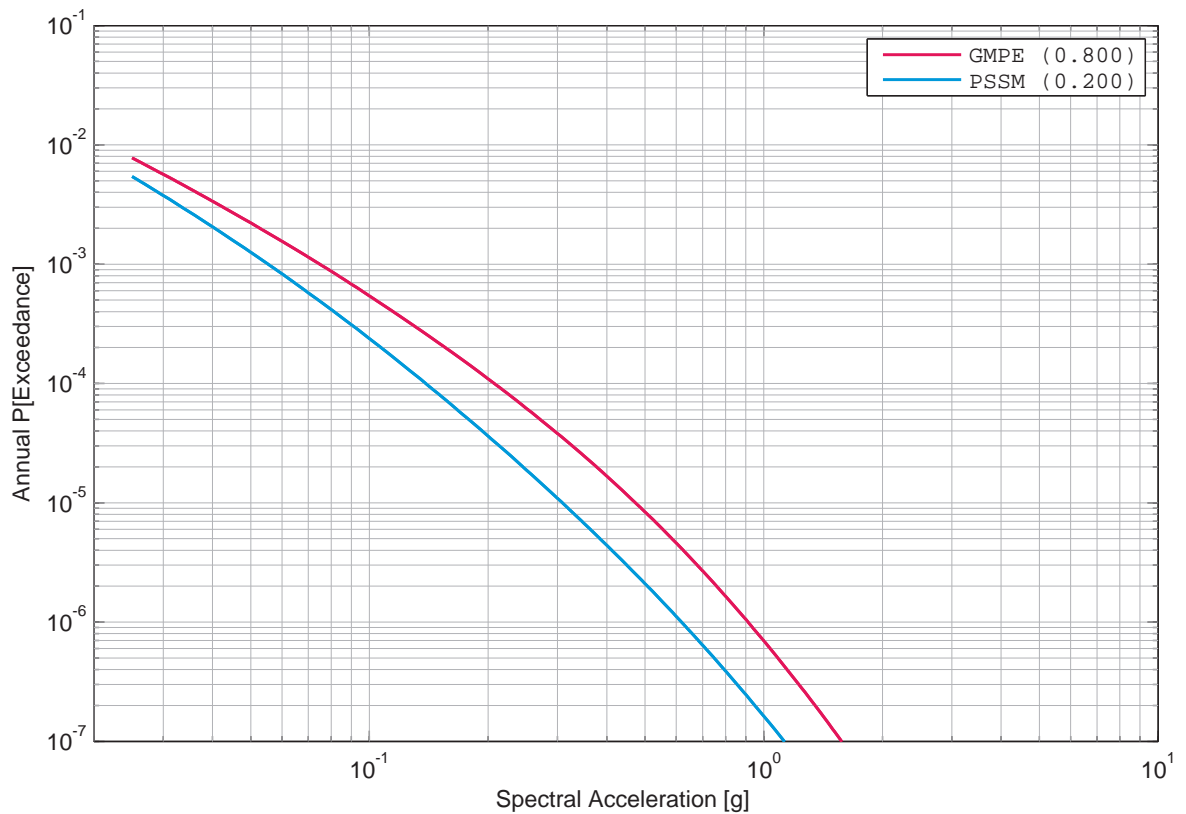


Figure 2.8.4: Beznau, horizontal component, rock, Bungum’s sensitivity to the model category, 100 Hz.

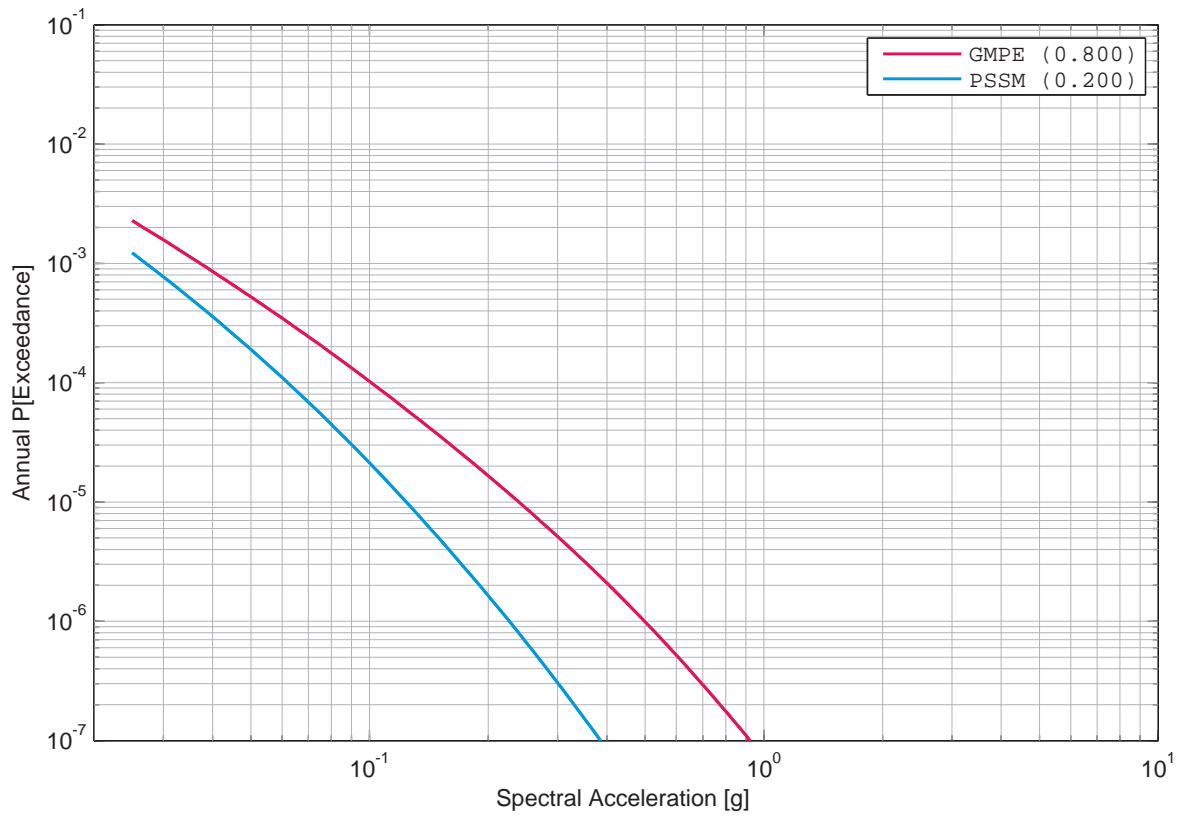


Figure 2.8.5: Beznau, horizontal component, rock, Campbell's sensitivity to the model category, 1 Hz.

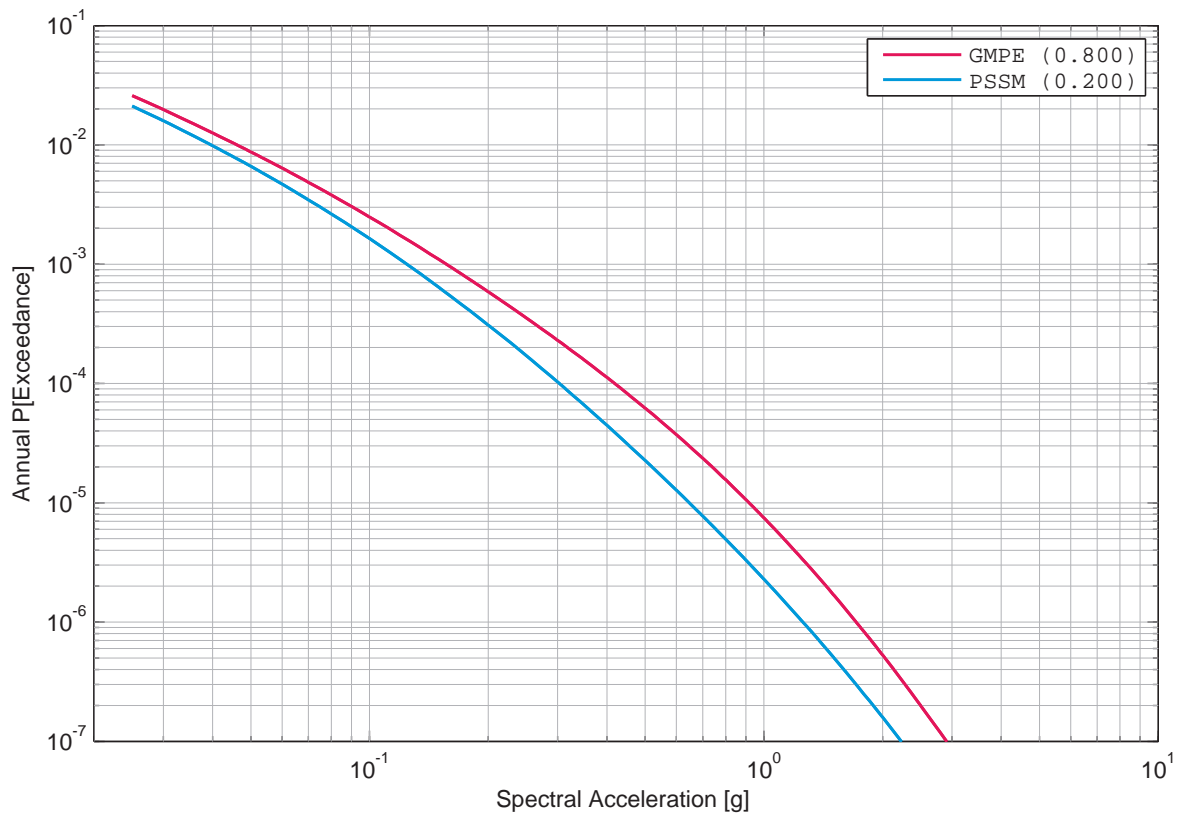


Figure 2.8.6: Beznau, horizontal component, rock, Campbell's sensitivity to the model category, 5 Hz.

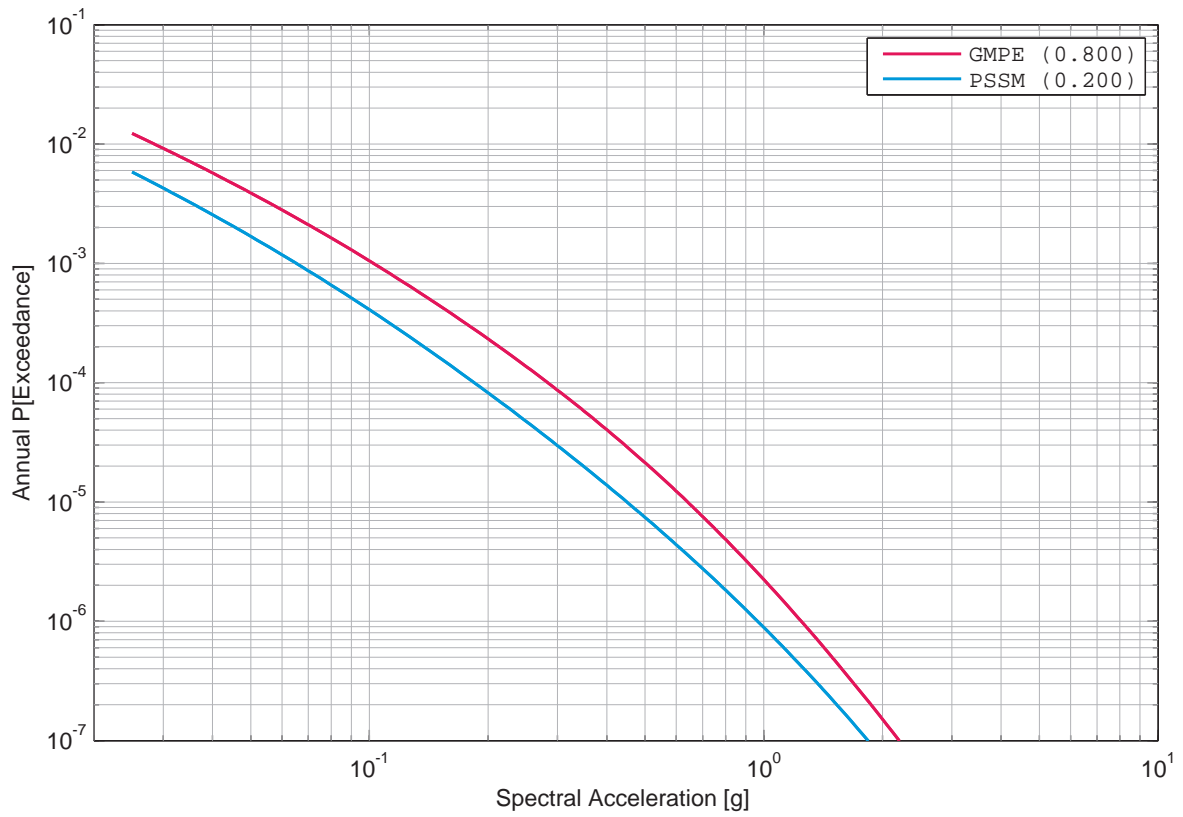


Figure 2.8.7: Beznau, horizontal component, rock, Campbell's sensitivity to the model category, 33 Hz.

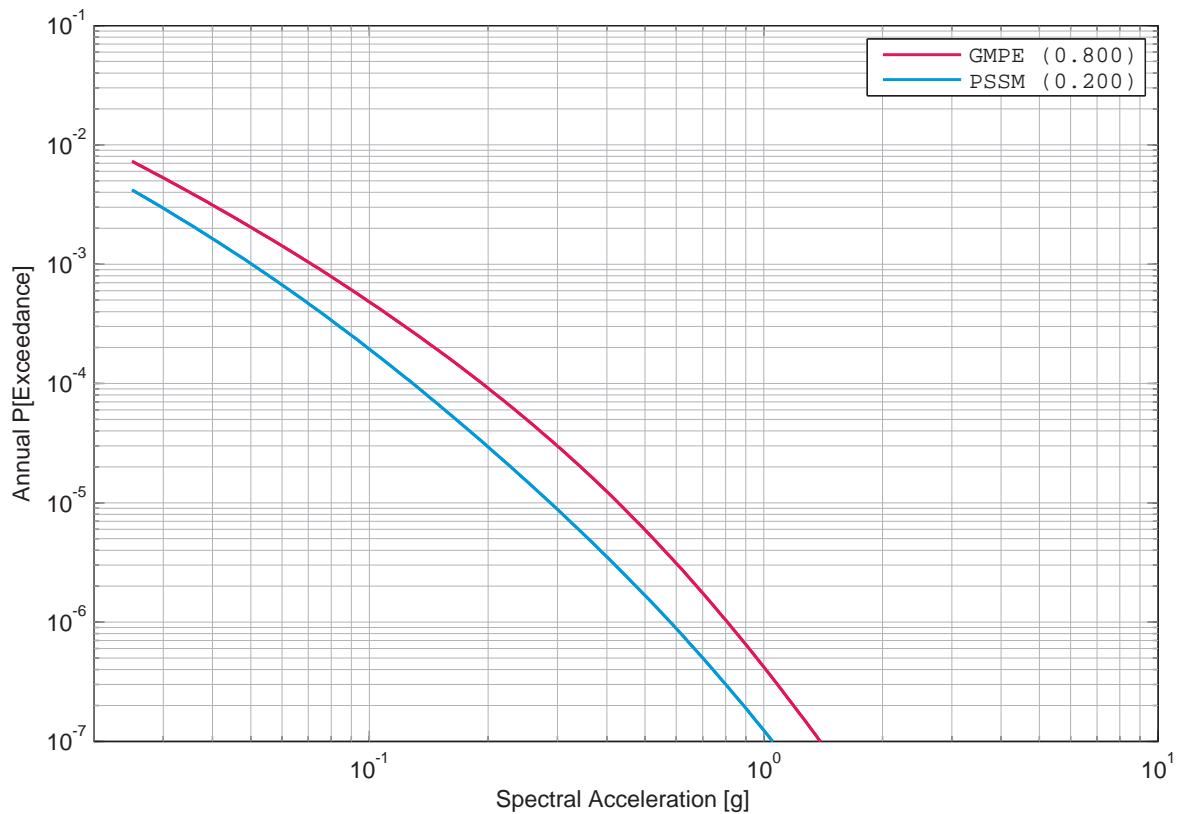


Figure 2.8.8: Beznau, horizontal component, rock, Campbell's sensitivity to the model category, 100 Hz.

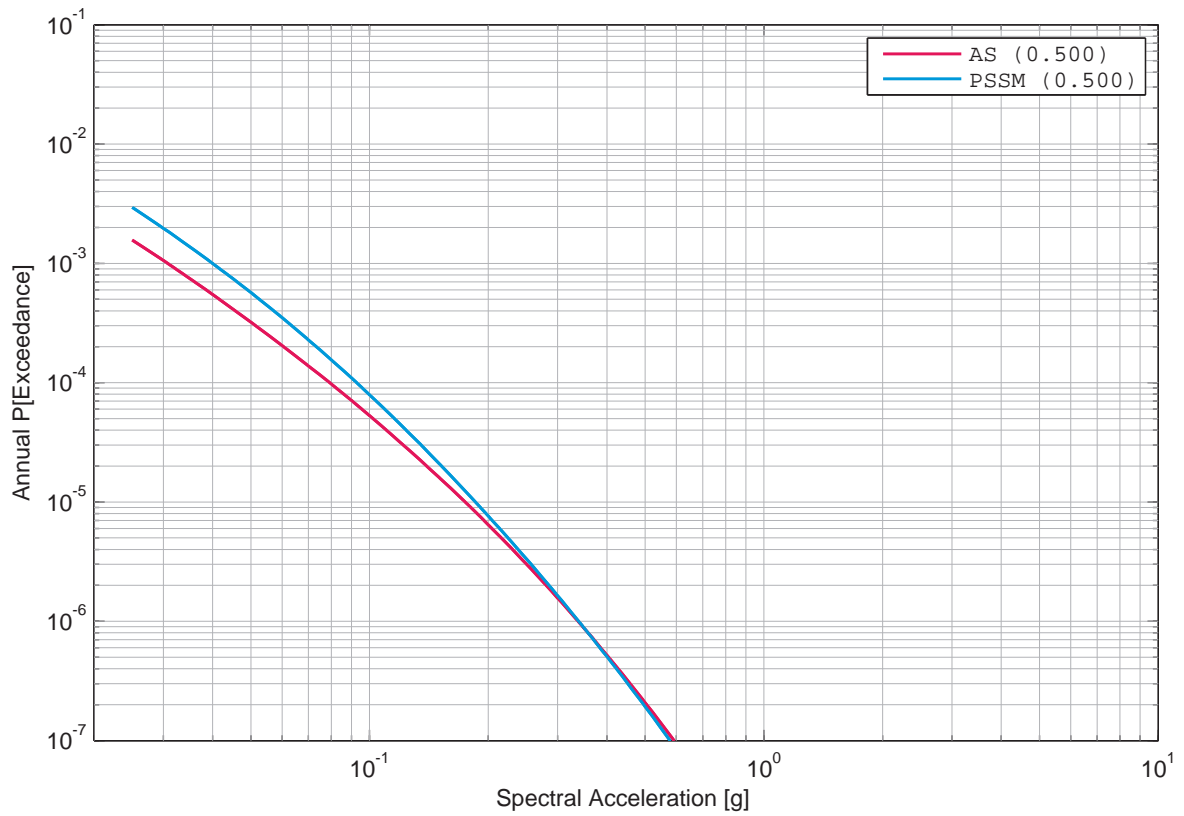


Figure 2.8.9: Beznau, horizontal component, rock, Cotton's sensitivity to the model category, 1 Hz.

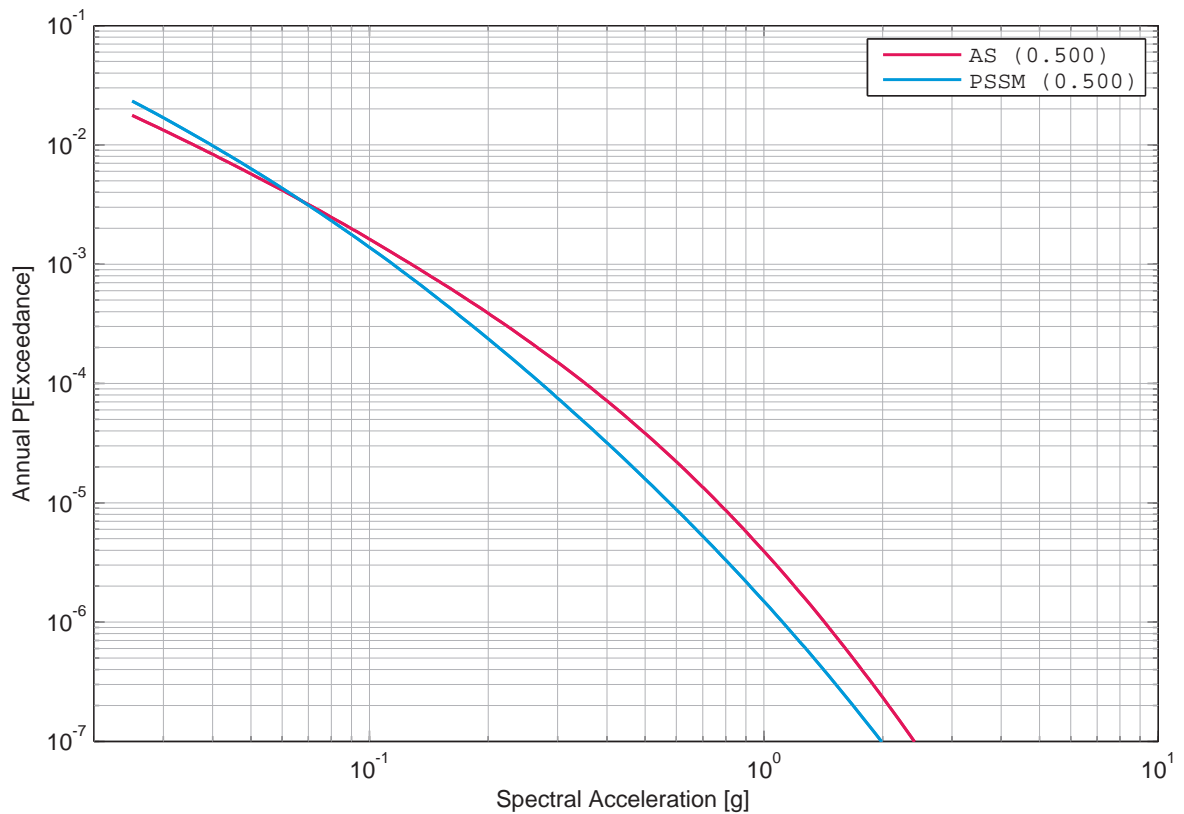


Figure 2.8.10: Beznau, horizontal component, rock, Cotton's sensitivity to the model category, 5 Hz.

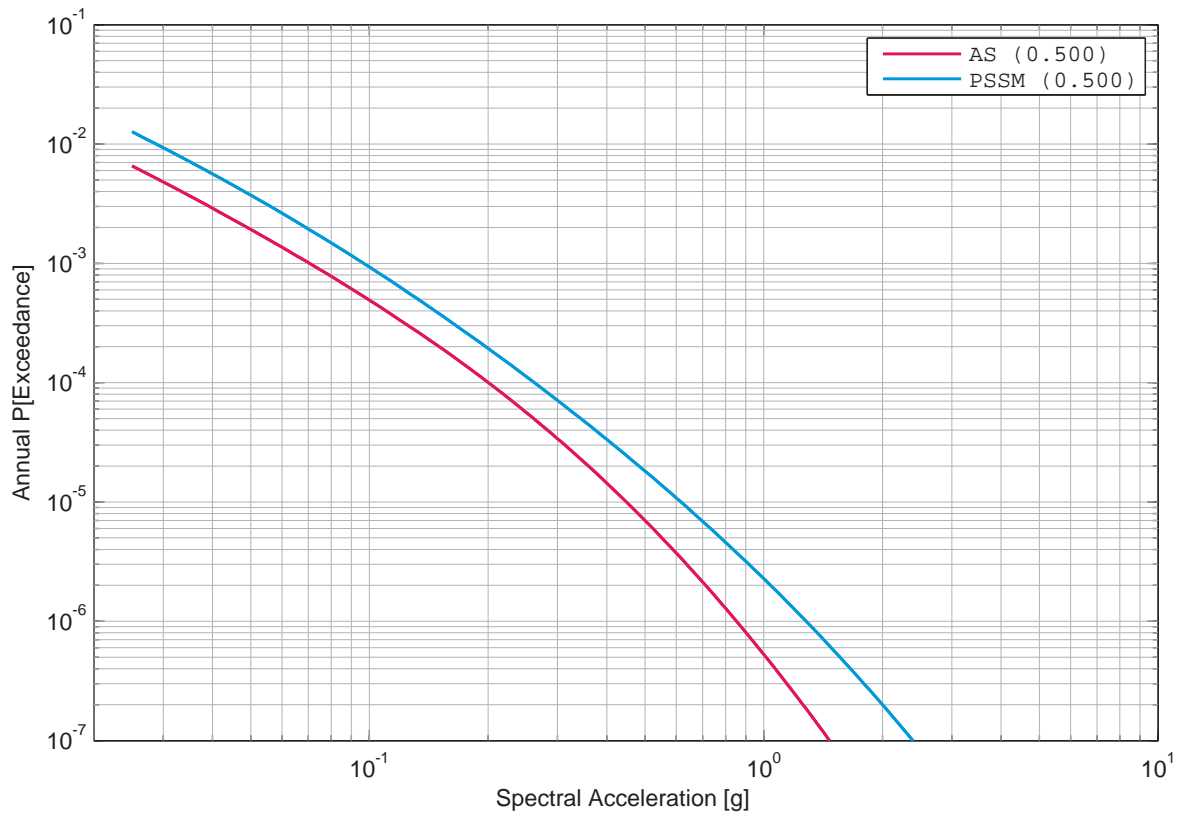


Figure 2.8.11: Beznau, horizontal component, rock, Cotton’s sensitivity to the model category, 33 Hz.

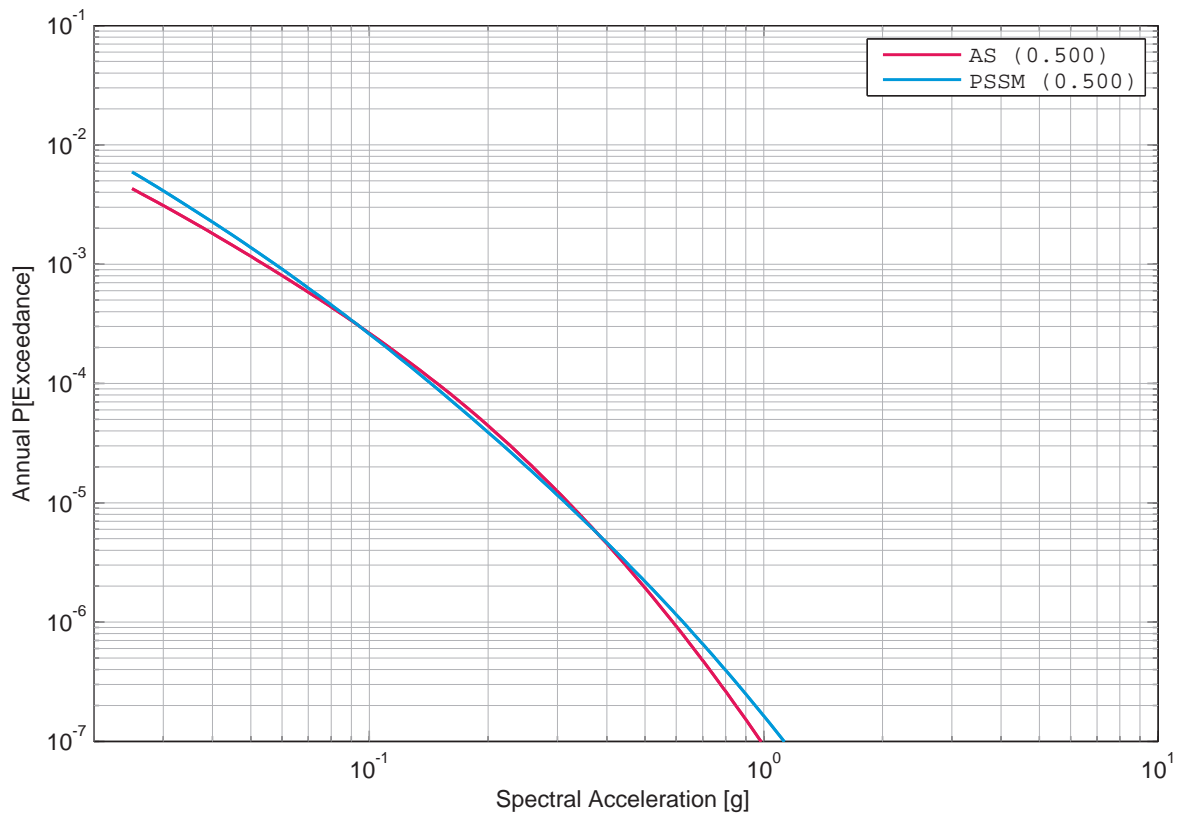


Figure 2.8.12: Beznau, horizontal component, rock, Cotton’s sensitivity to the model category, 100 Hz.

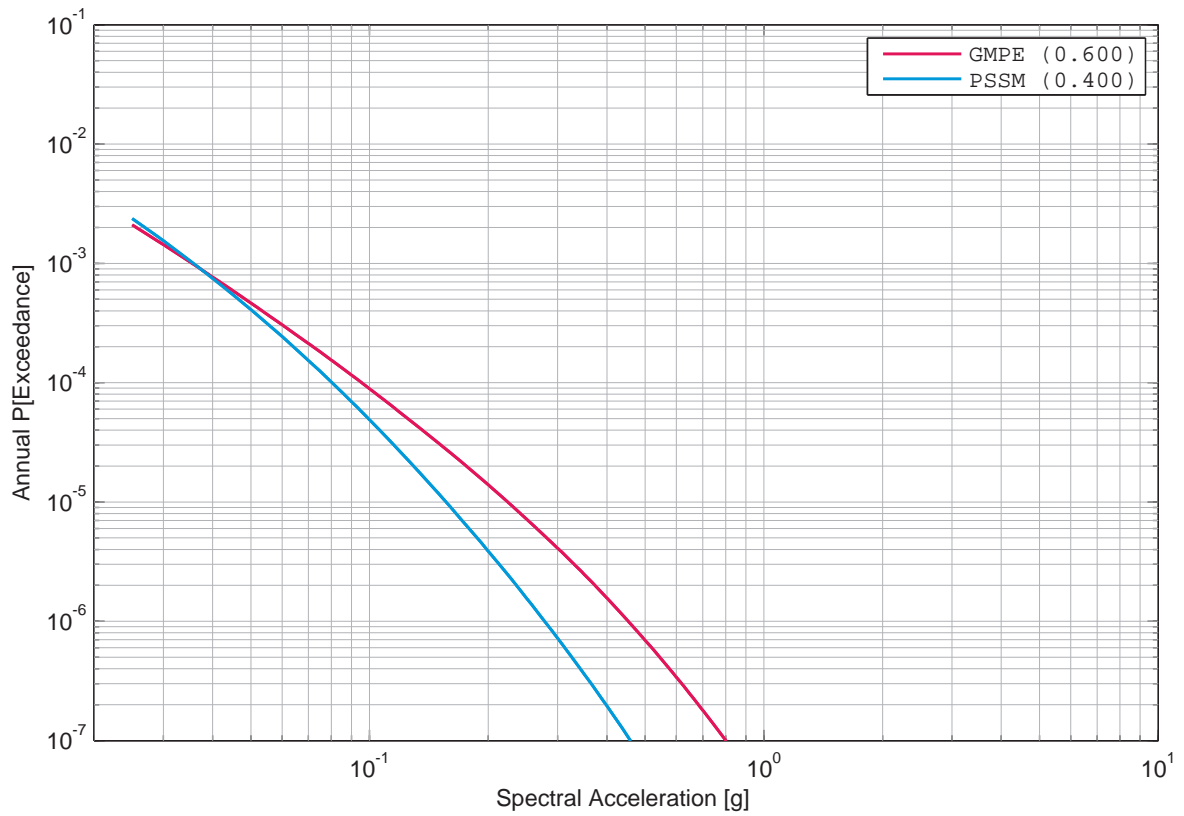


Figure 2.8.13: Beznau, horizontal component, rock, Faeh’s sensitivity to the model category, 1 Hz.

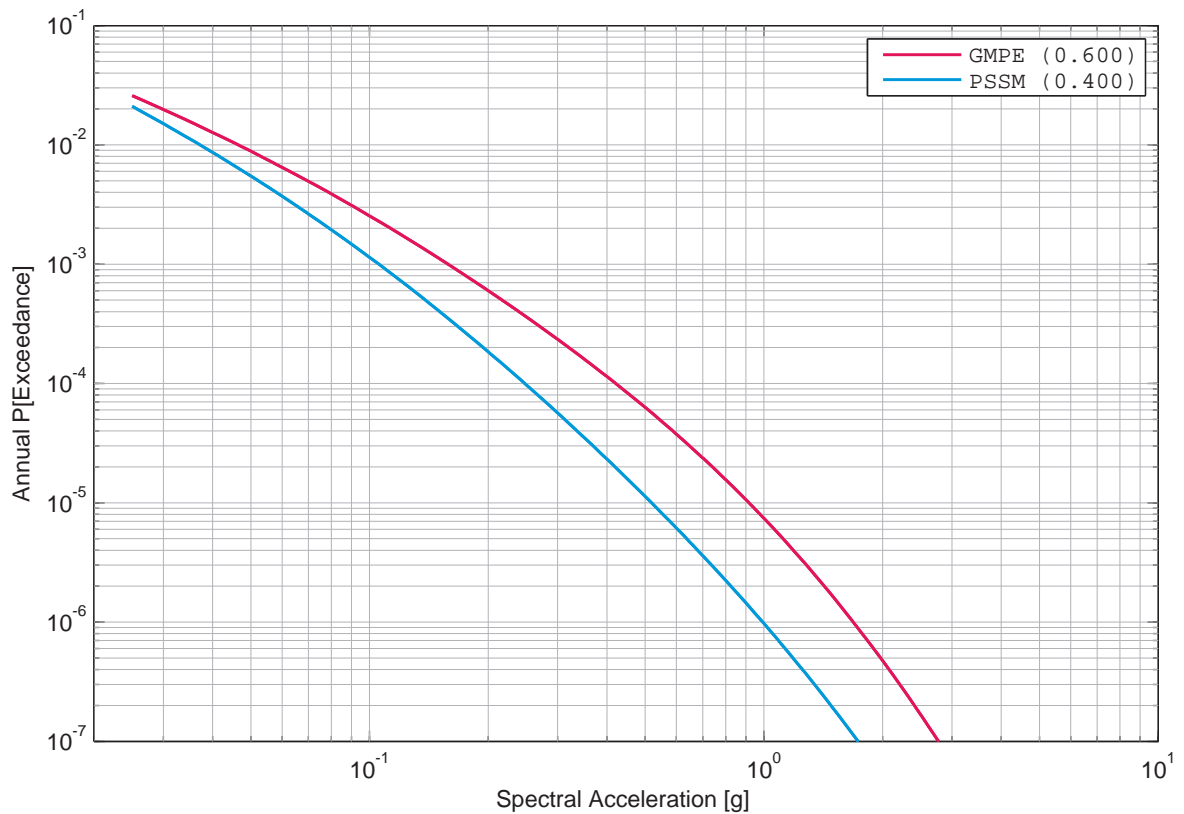


Figure 2.8.14: Beznau, horizontal component, rock, Faeh’s sensitivity to the model category, 5 Hz.

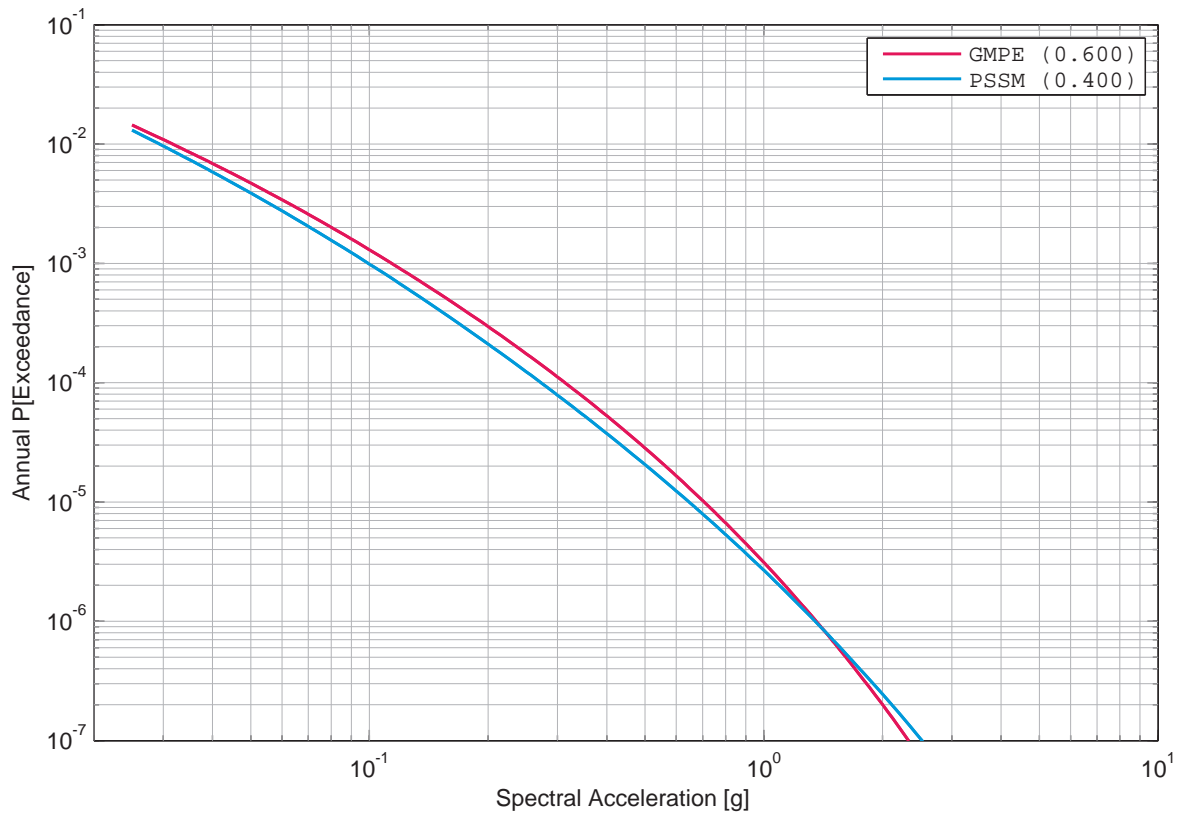


Figure 2.8.15: Beznau, horizontal component, rock, Faeh’s sensitivity to the model category, 33 Hz.

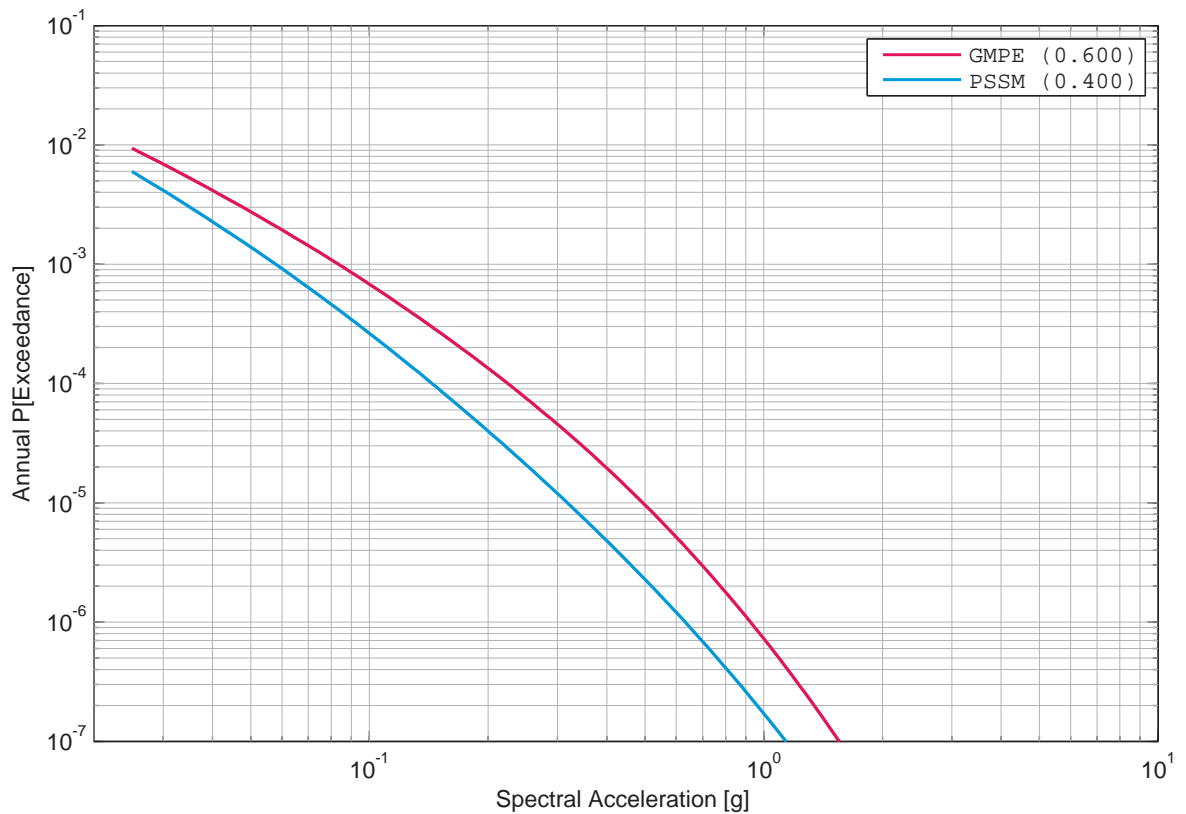


Figure 2.8.16: Beznau, horizontal component, rock, Faeh’s sensitivity to the model category, 100 Hz.

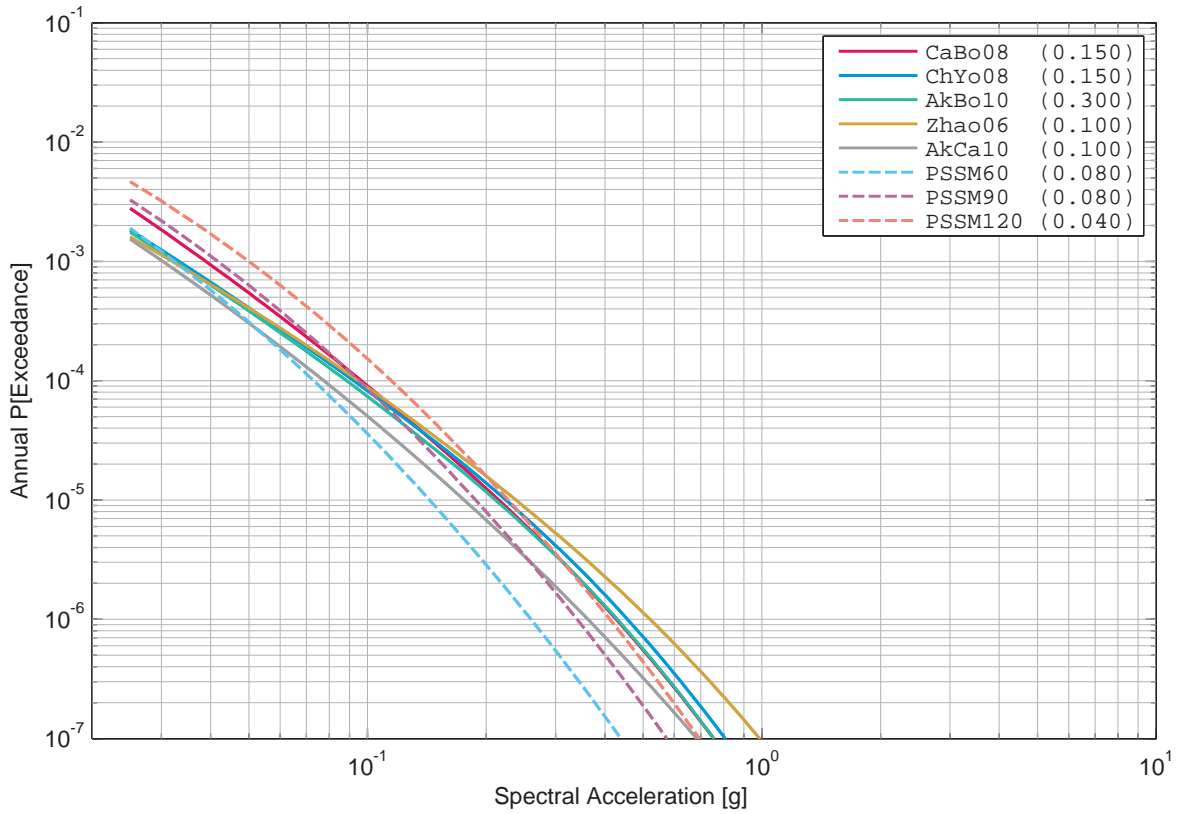


Figure 2.8.17: Beznau, horizontal component, rock, Bungum’s sensitivity to the model, 1 Hz.

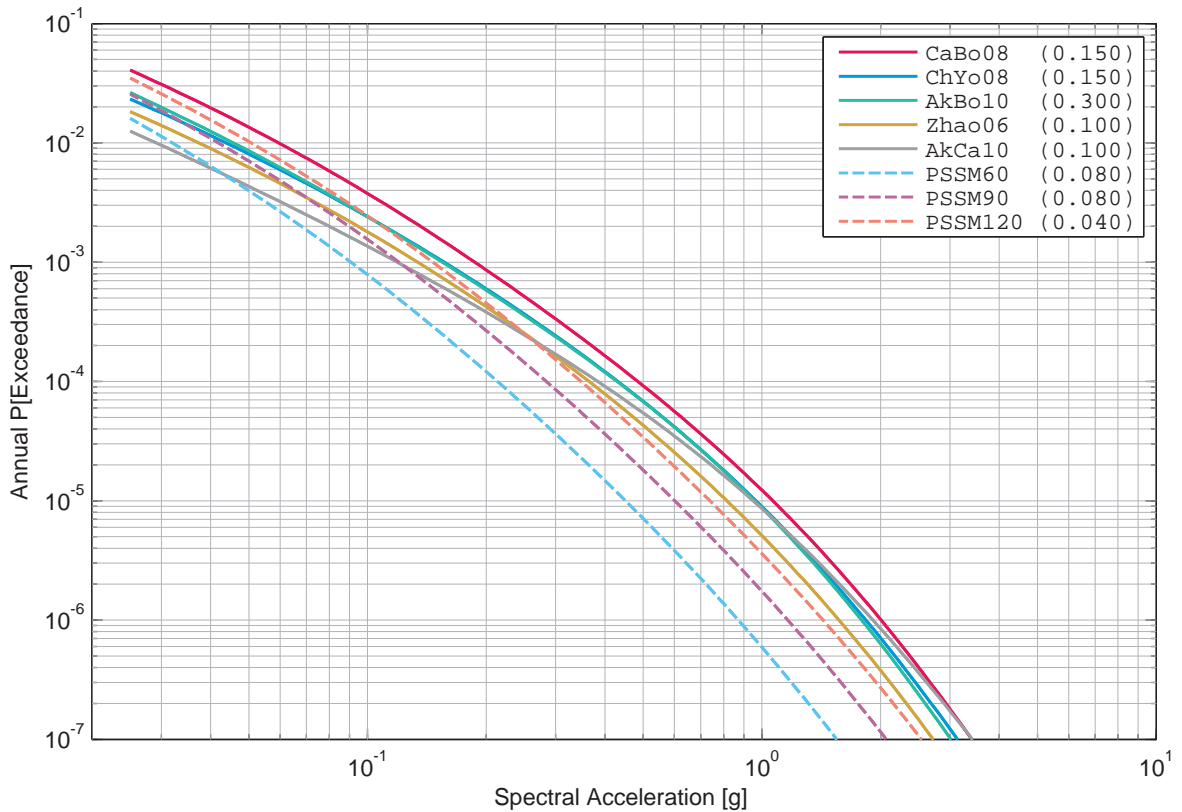


Figure 2.8.18: Beznau, horizontal component, rock, Bungum’s sensitivity to the model, 5 Hz.

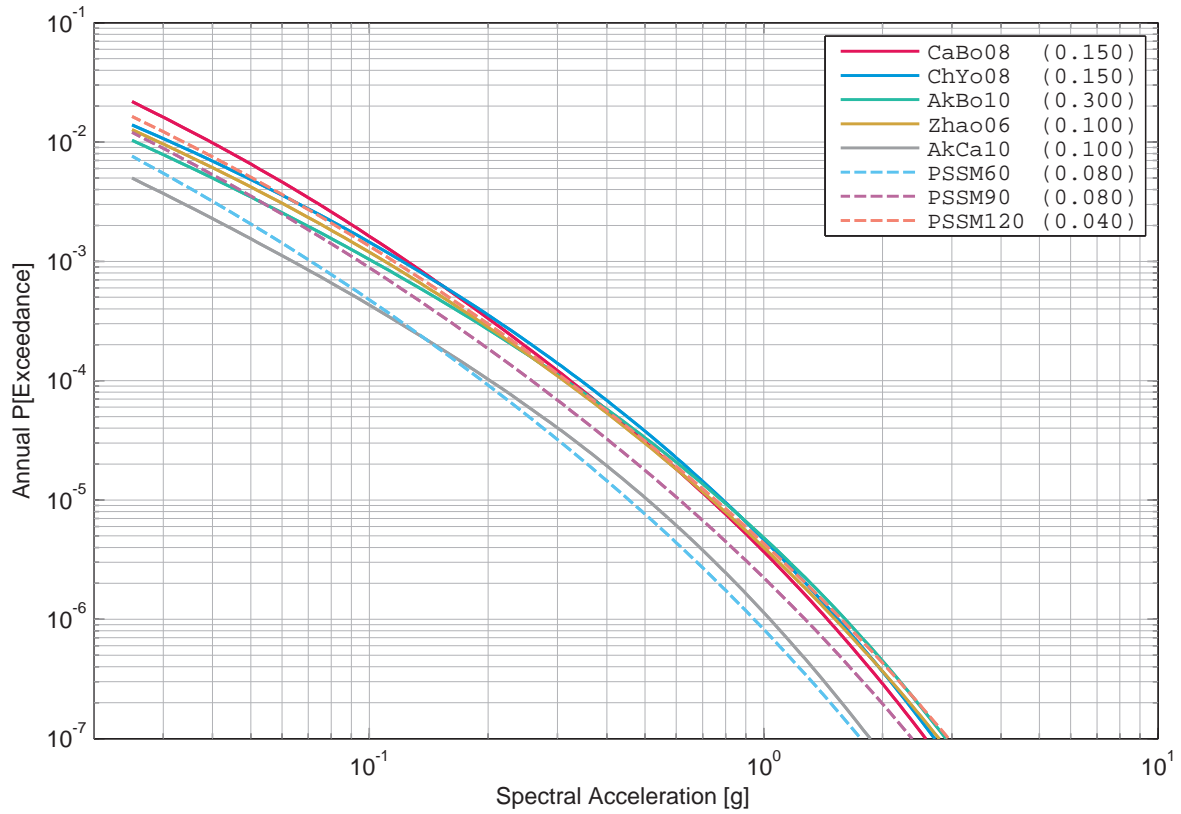


Figure 2.8.19: Beznau, horizontal component, rock, Bungum’s sensitivity to the model, 33 Hz.

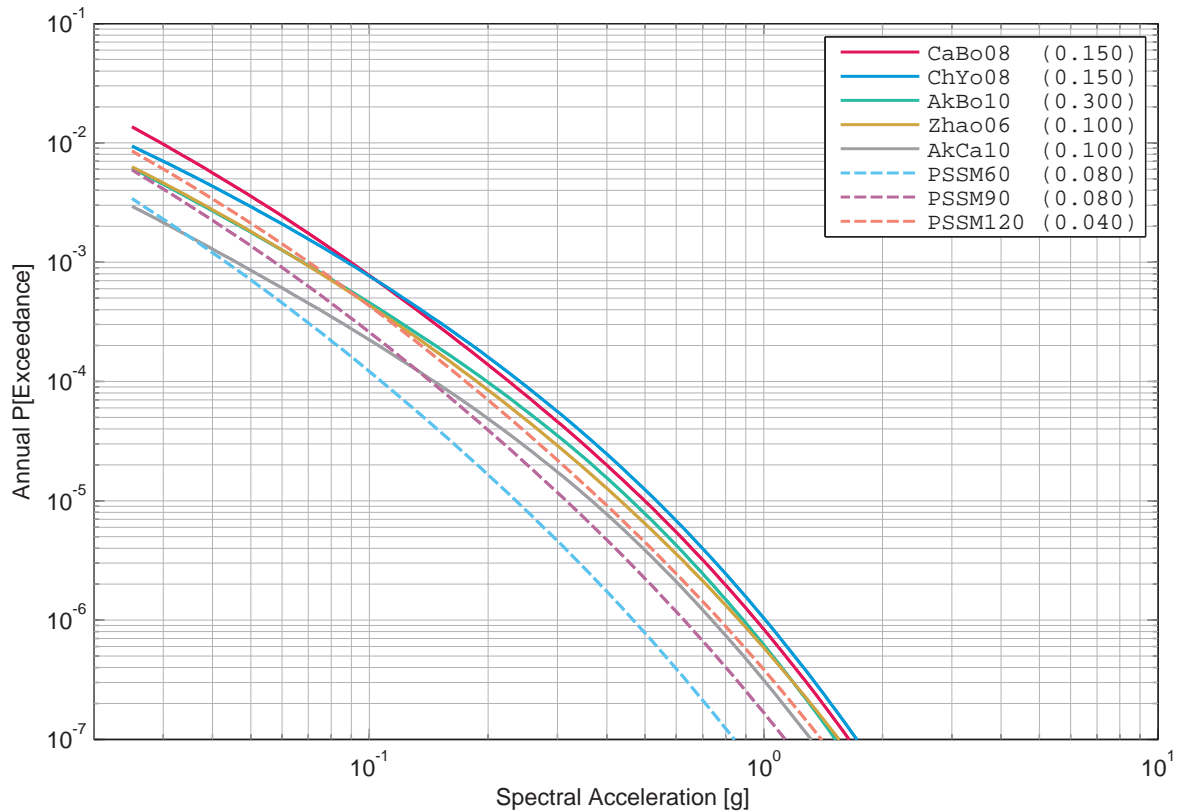


Figure 2.8.20: Beznau, horizontal component, rock, Bungum’s sensitivity to the model, 100 Hz.

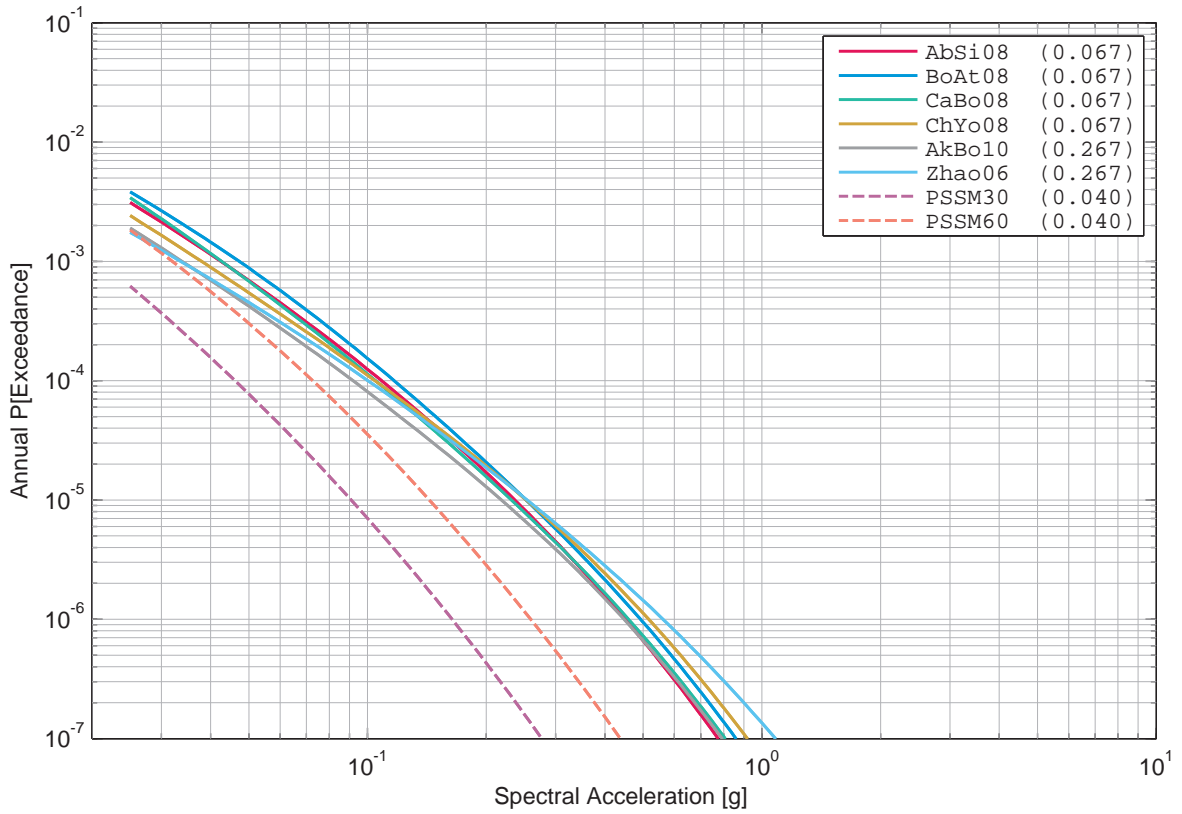


Figure 2.8.21: Beznau, horizontal component, rock, Campbell's sensitivity to the model, 1 Hz.

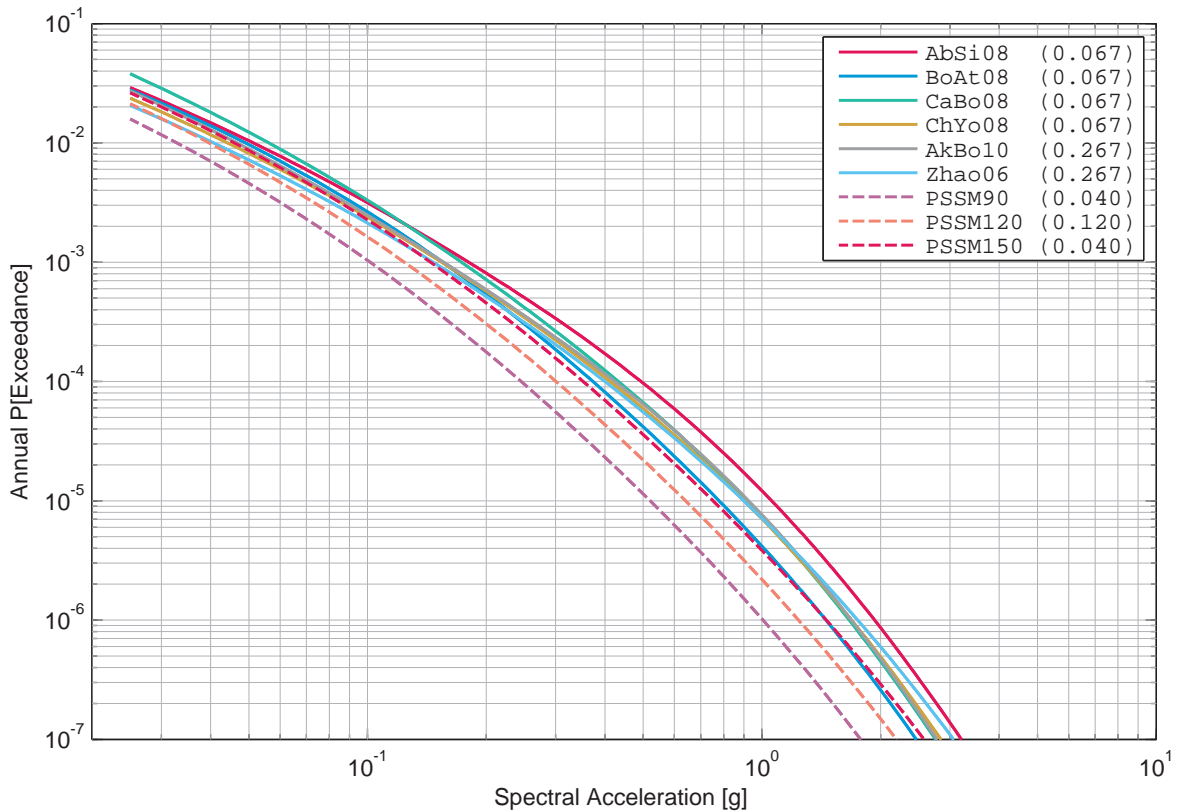


Figure 2.8.22: Beznau, horizontal component, rock, Campbell's sensitivity to the model, 5 Hz.

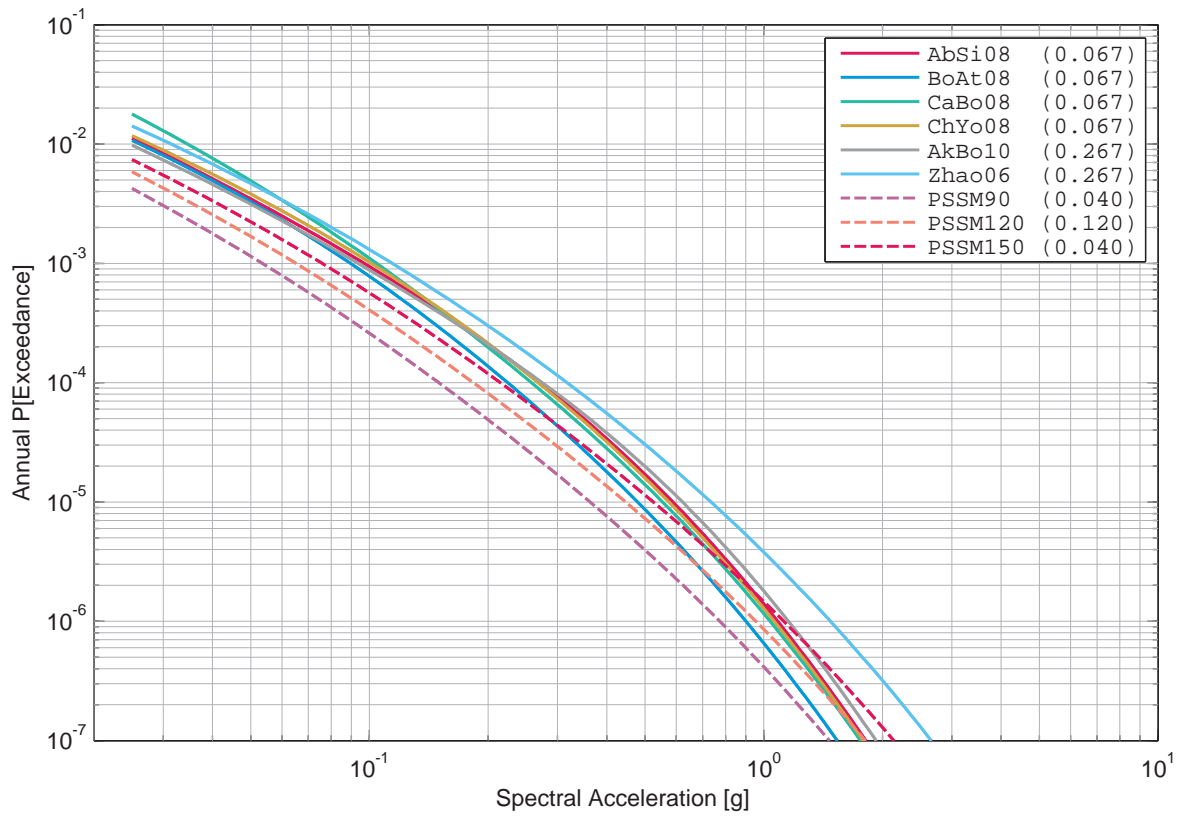


Figure 2.8.23: Beznau, horizontal component, rock, Campbell's sensitivity to the model, 33 Hz.

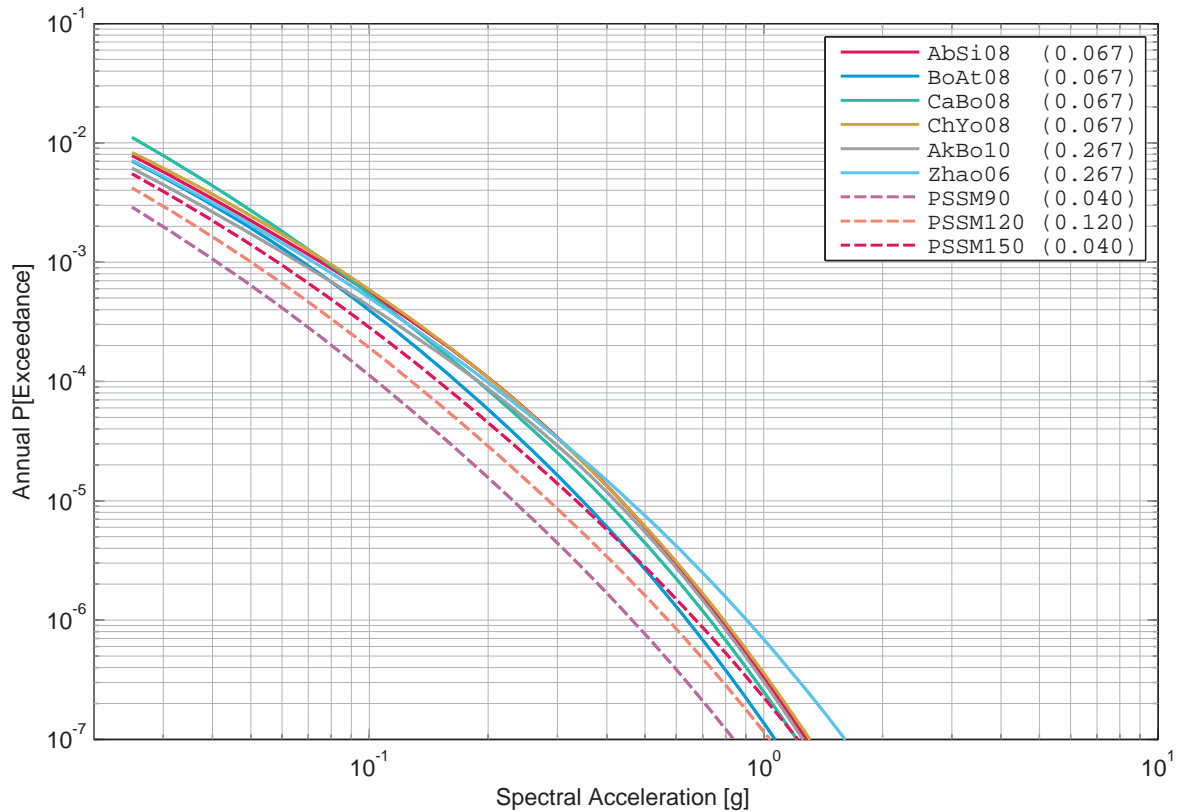


Figure 2.8.24: Beznau, horizontal component, rock, Campbell's sensitivity to the model, 100 Hz.

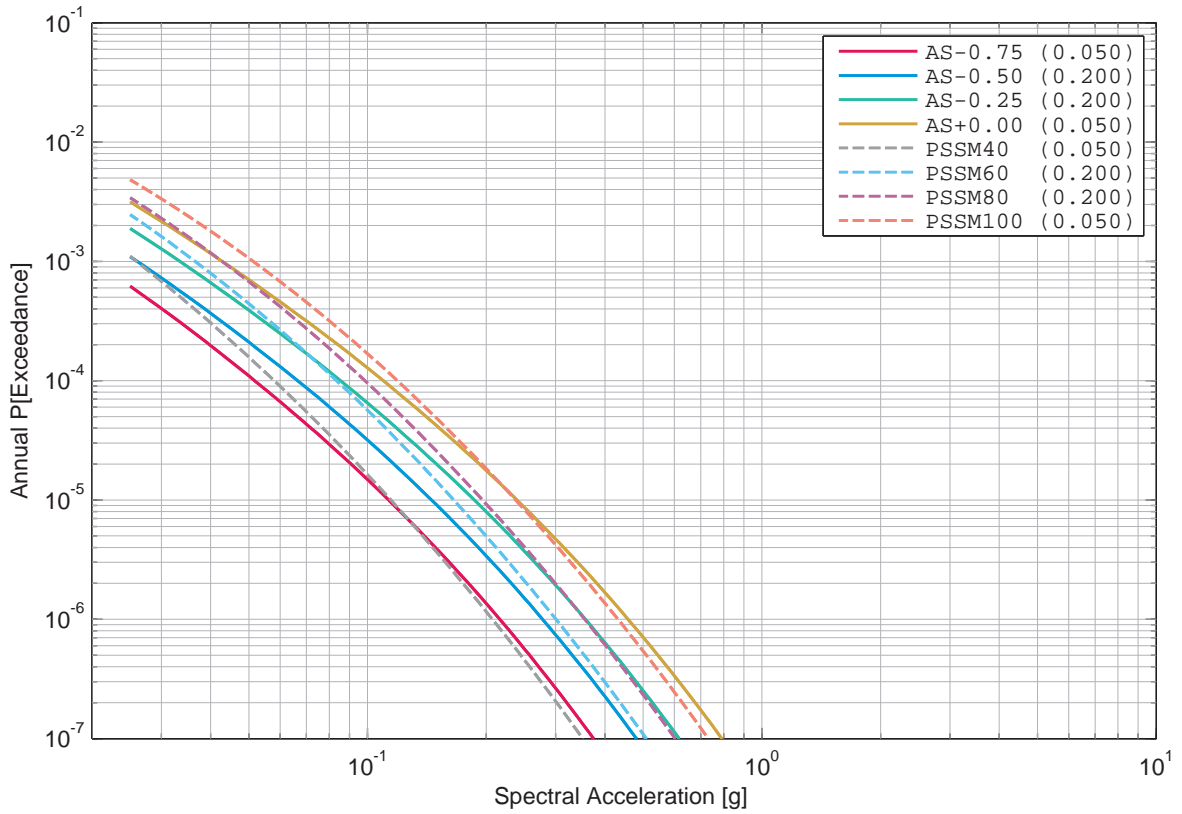


Figure 2.8.25: Beznau, horizontal component, rock, Cotton's sensitivity to the model, 1 Hz.

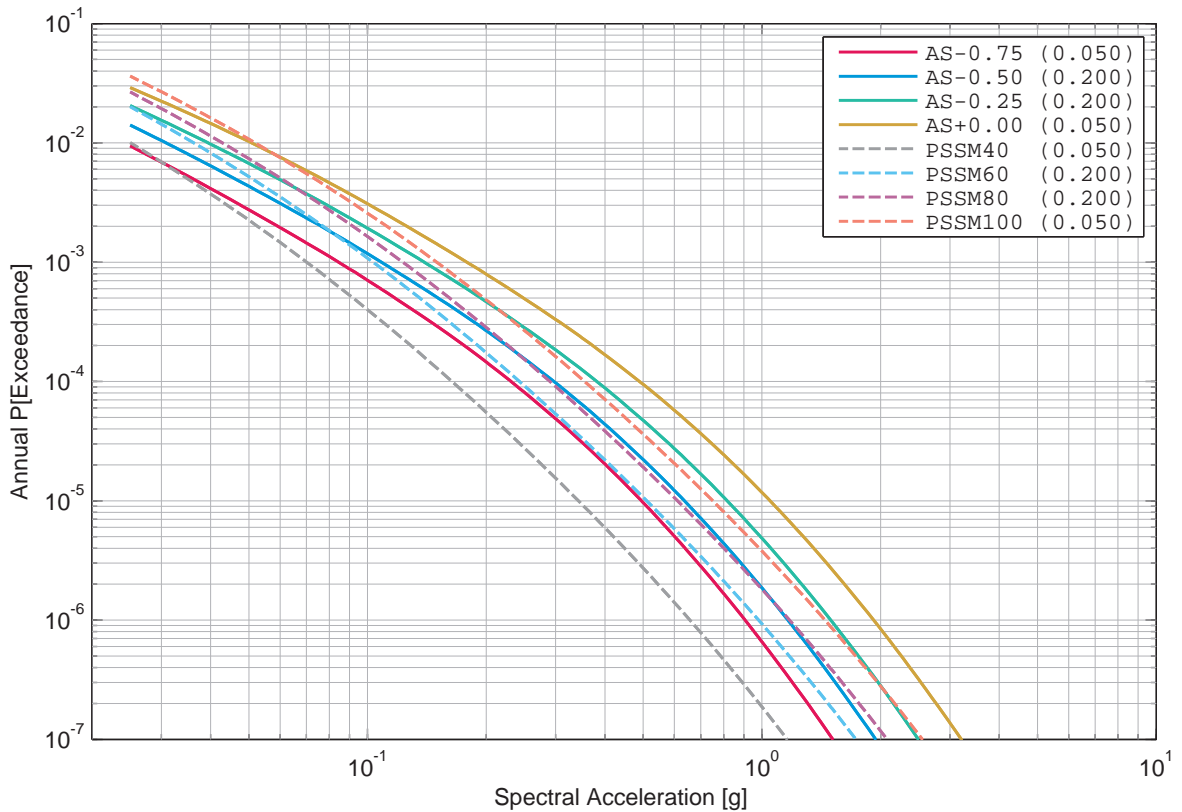


Figure 2.8.26: Beznau, horizontal component, rock, Cotton's sensitivity to the model, 5 Hz.

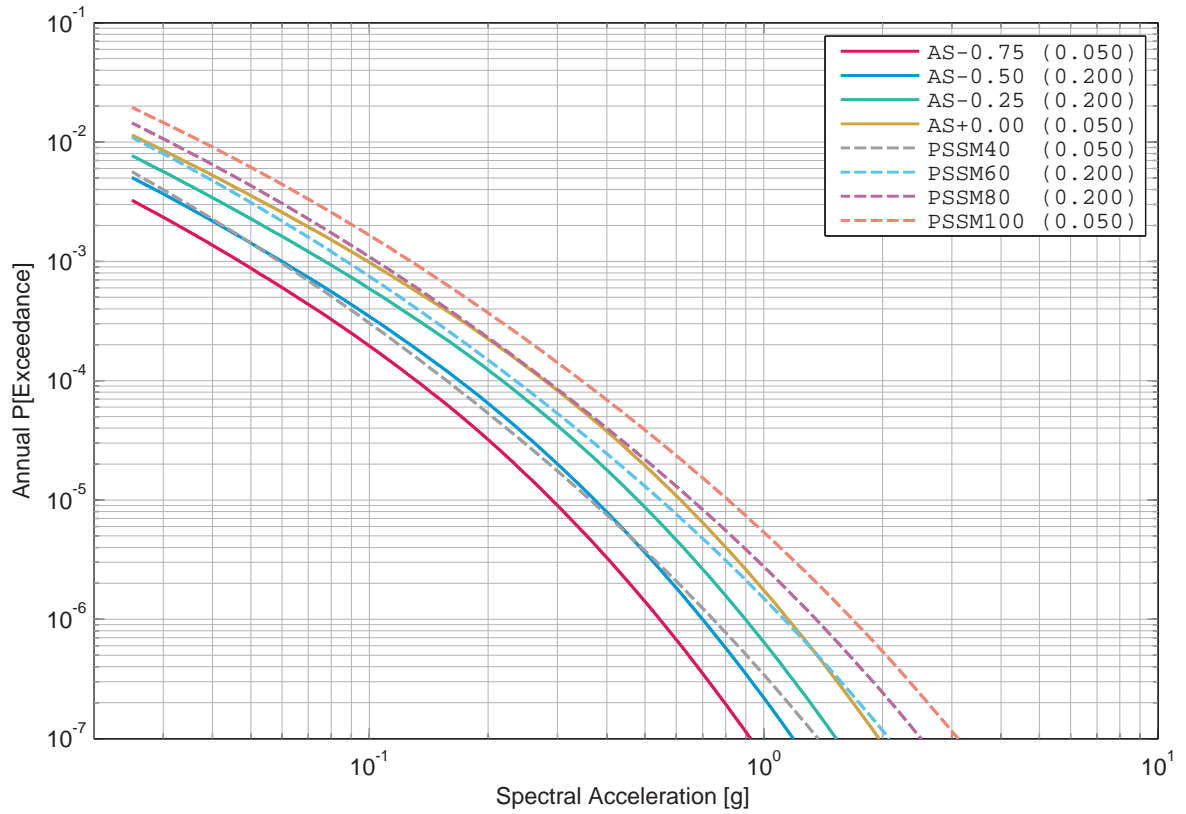


Figure 2.8.27: Beznau, horizontal component, rock, Cotton’s sensitivity to the model, 33 Hz.

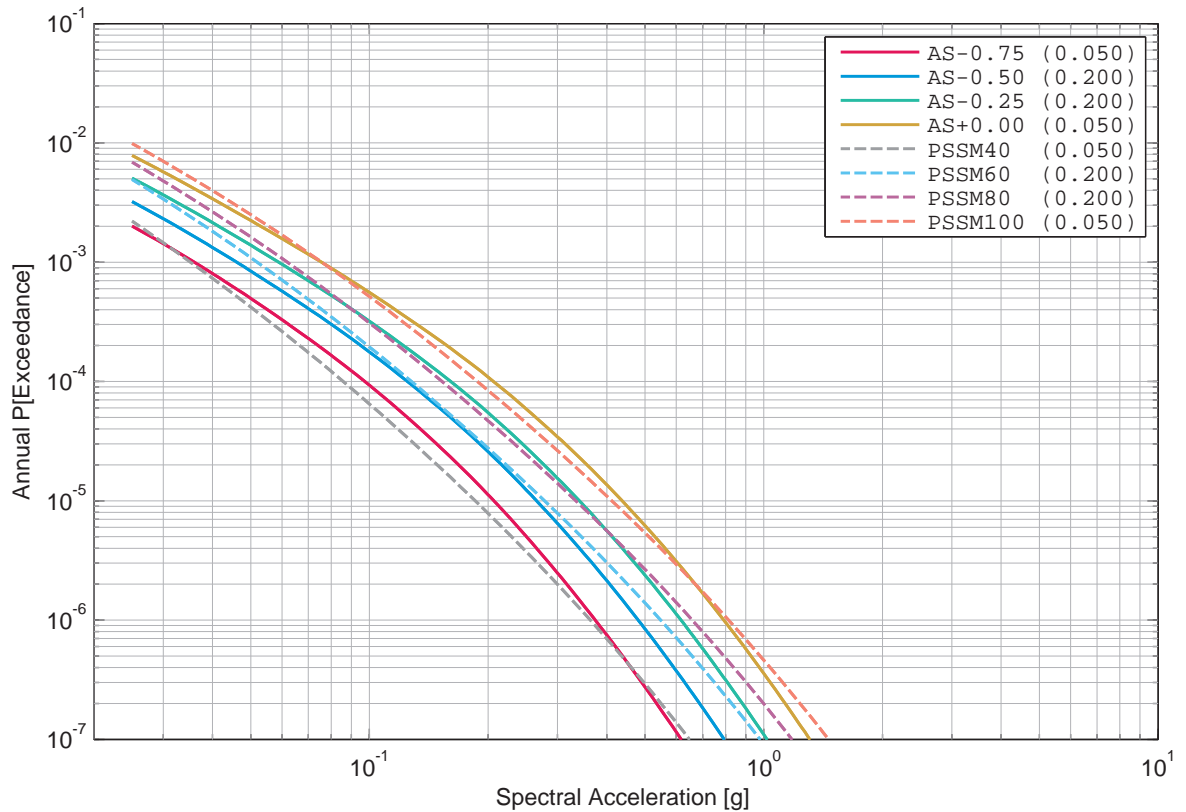


Figure 2.8.28: Beznau, horizontal component, rock, Cotton’s sensitivity to the model, 100 Hz.

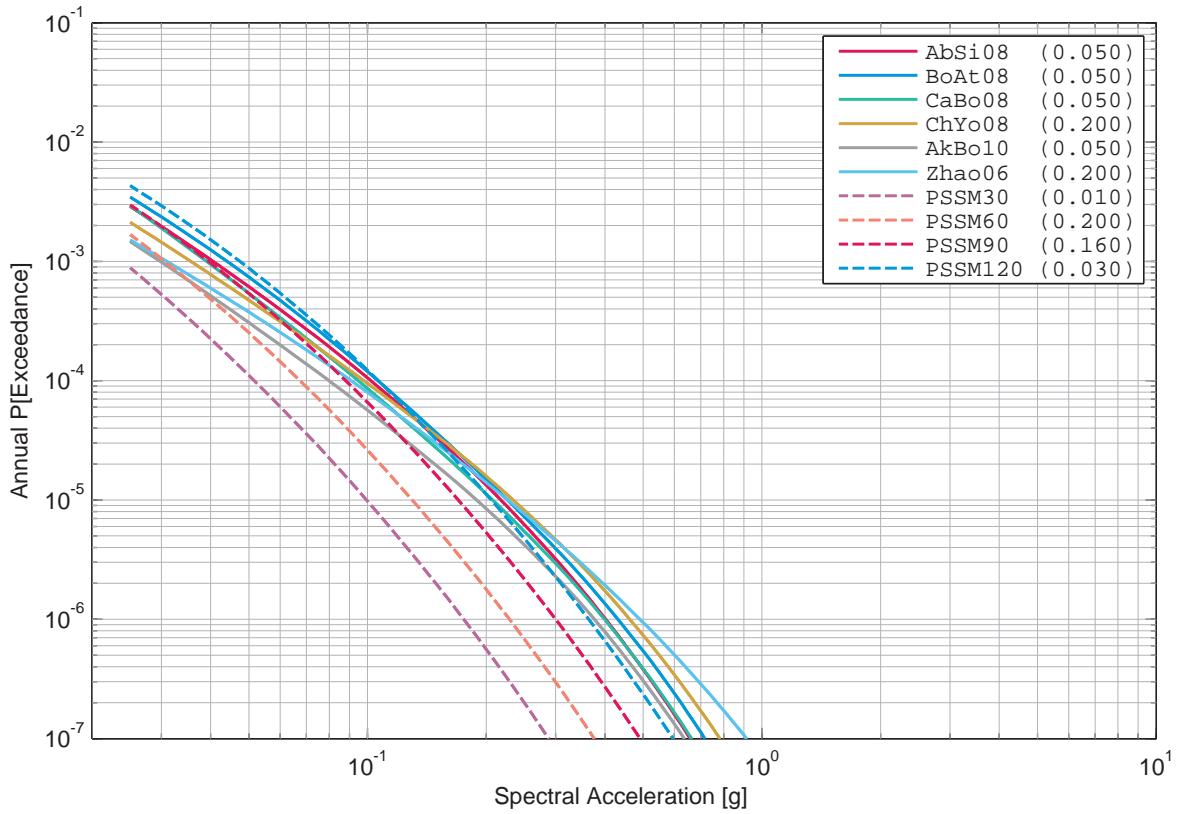


Figure 2.8.29: Beznau, horizontal component, rock, Faeh’s sensitivity to the model, 1 Hz.

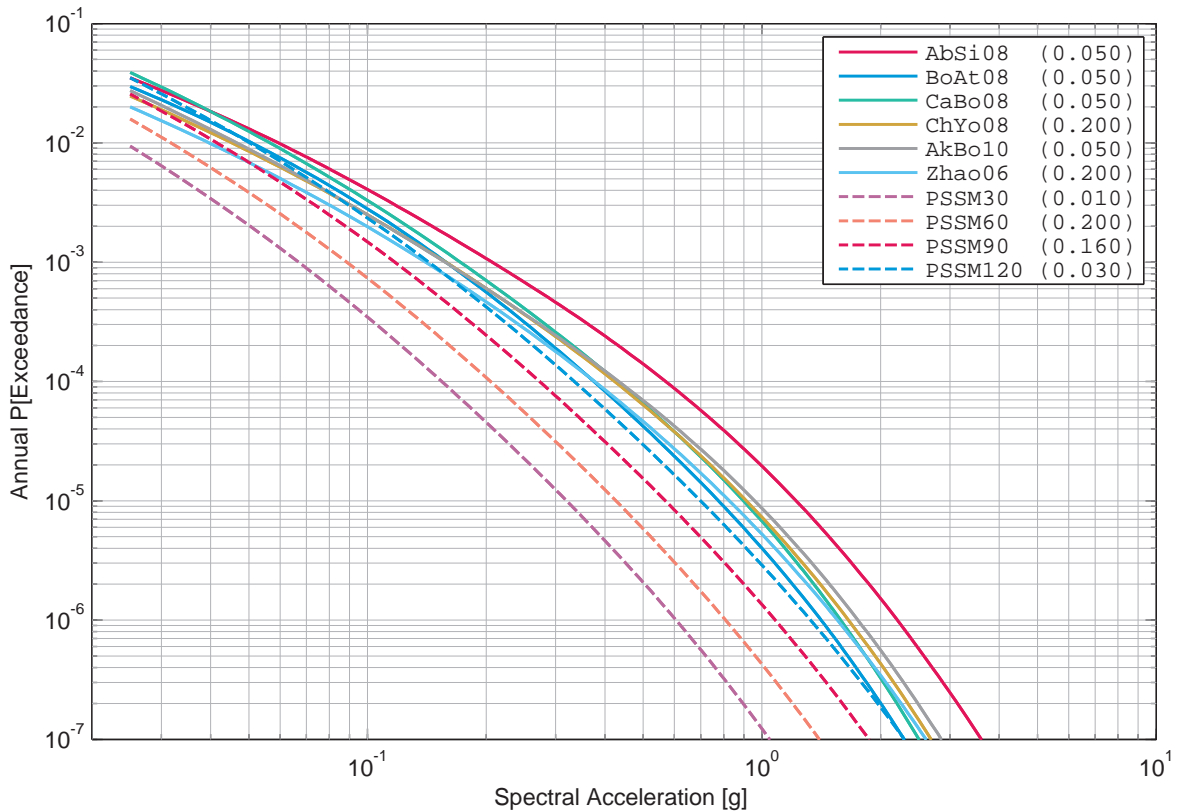


Figure 2.8.30: Beznau, horizontal component, rock, Faeh’s sensitivity to the model, 5 Hz.

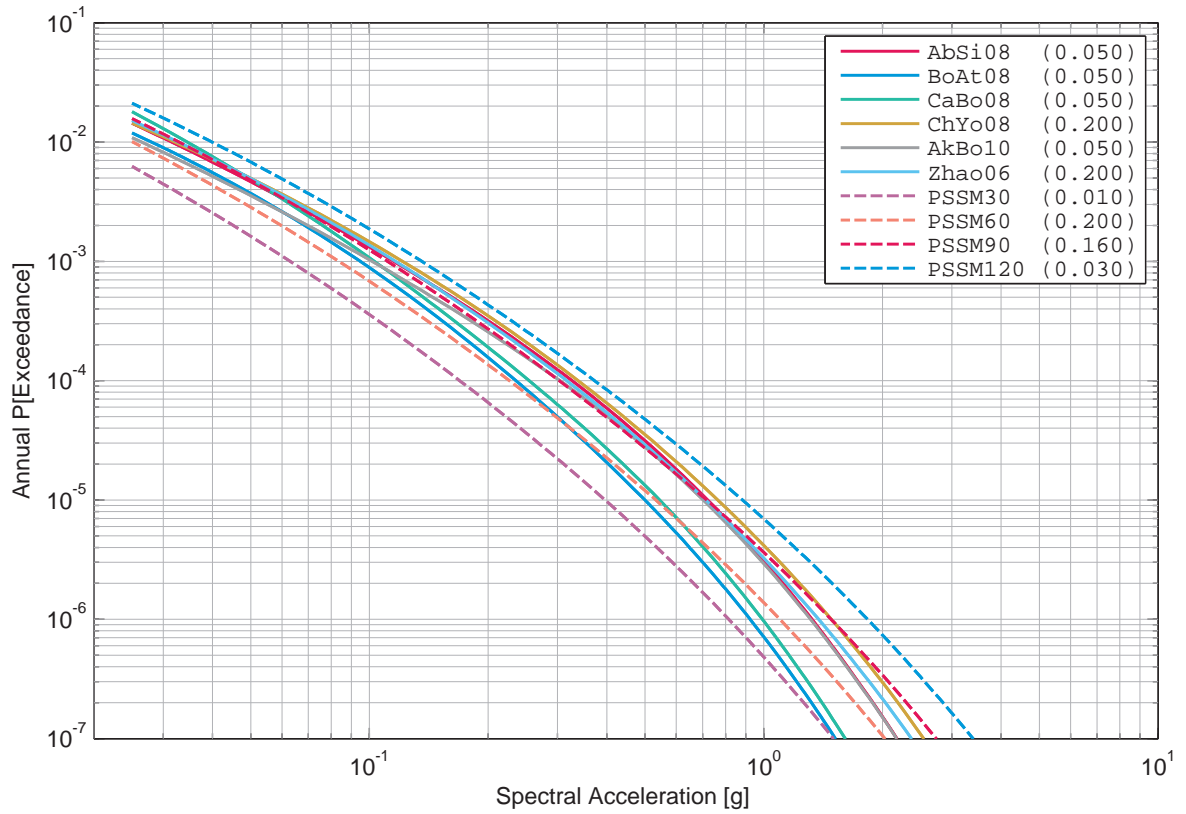


Figure 2.8.31: Beznau, horizontal component, rock, Faeh’s sensitivity to the model, 33 Hz.

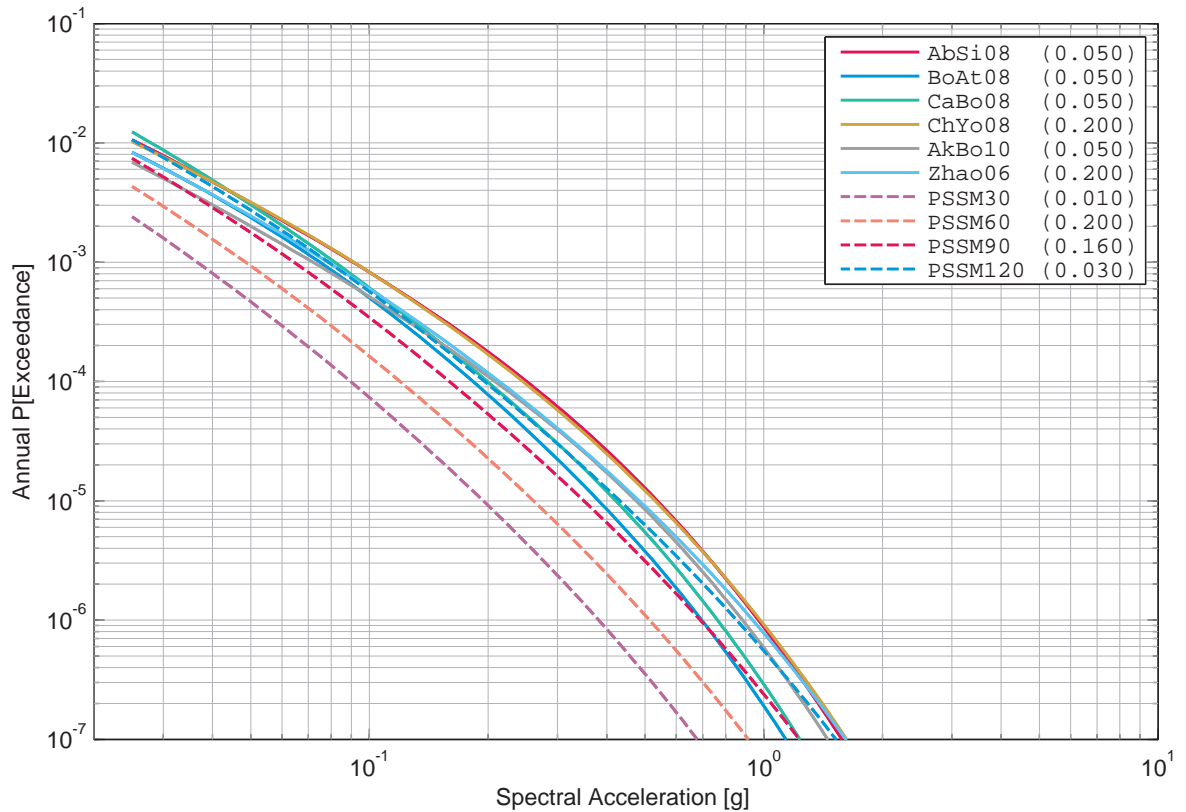


Figure 2.8.32: Beznau, horizontal component, rock, Faeh’s sensitivity to the model, 100 Hz.

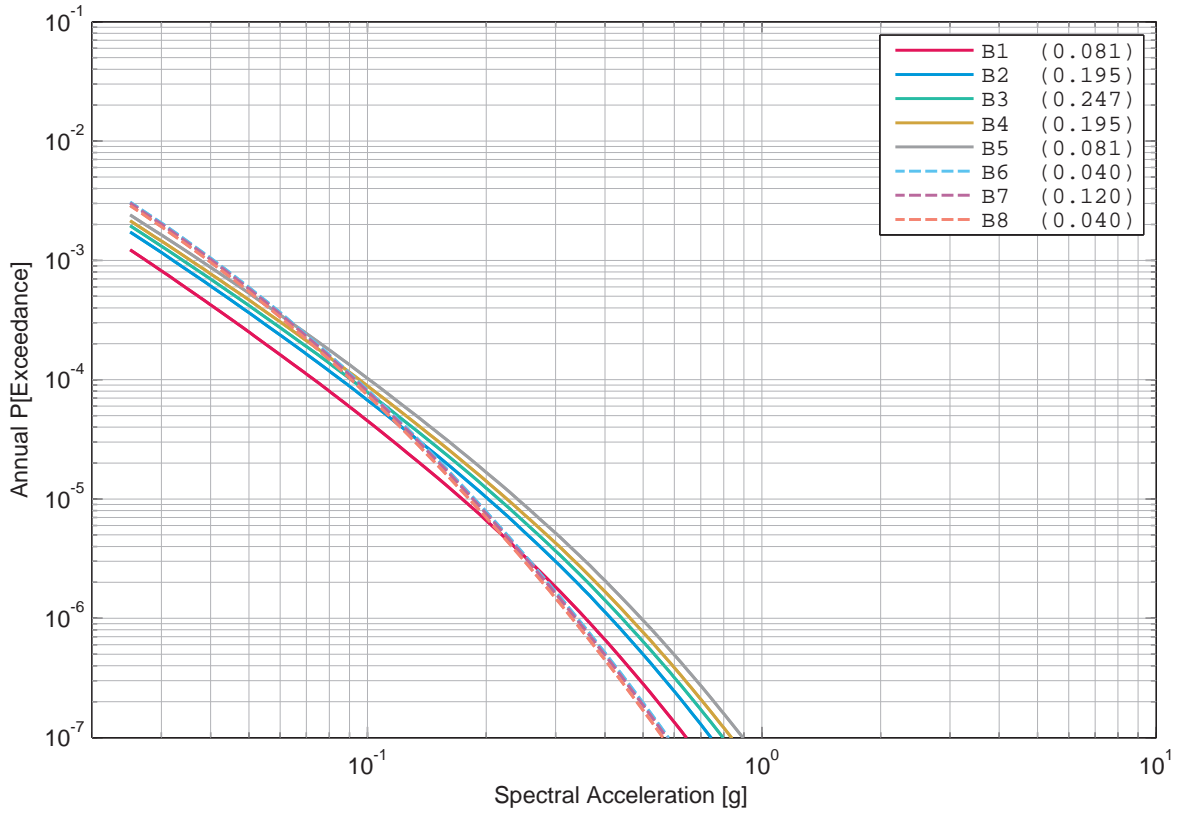


Figure 2.8.33: Beznau, horizontal component, rock, Bungum's sensitivity to the Vs-kappa correction, 1 Hz.

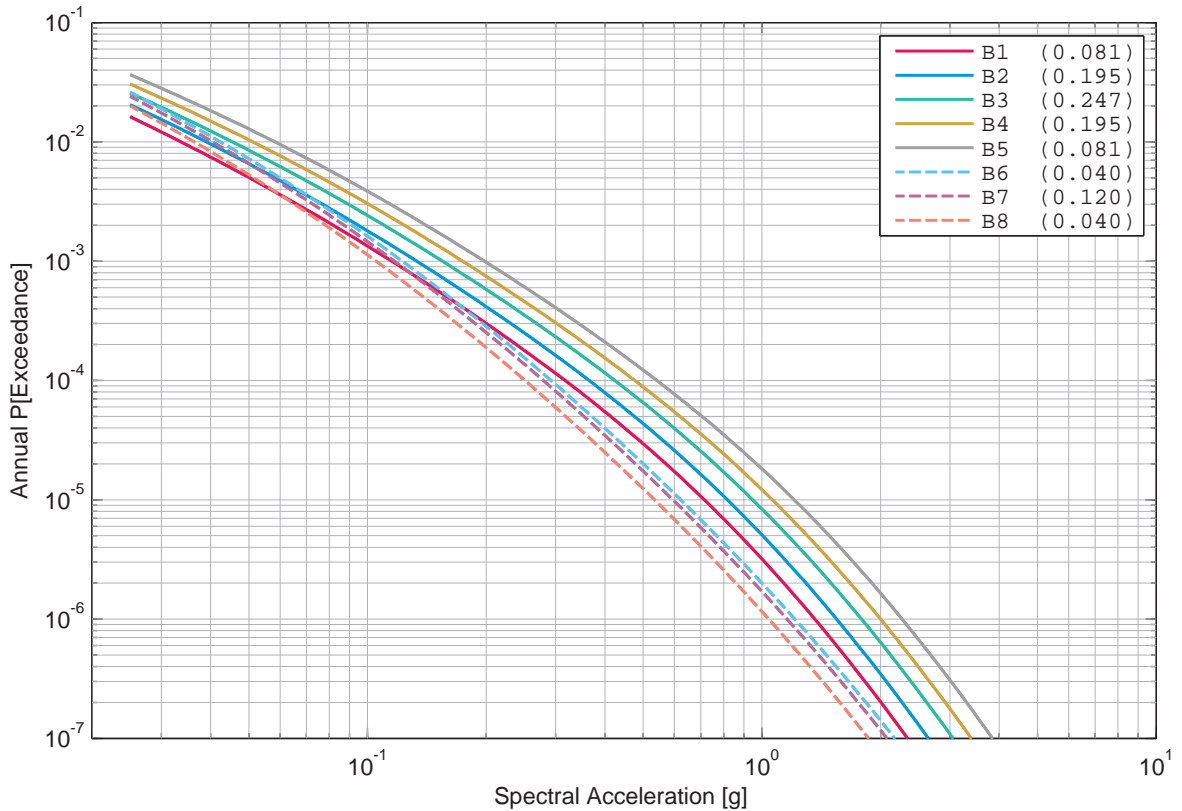


Figure 2.8.34: Beznau, horizontal component, rock, Bungum's sensitivity to the Vs-kappa correction, 5 Hz.

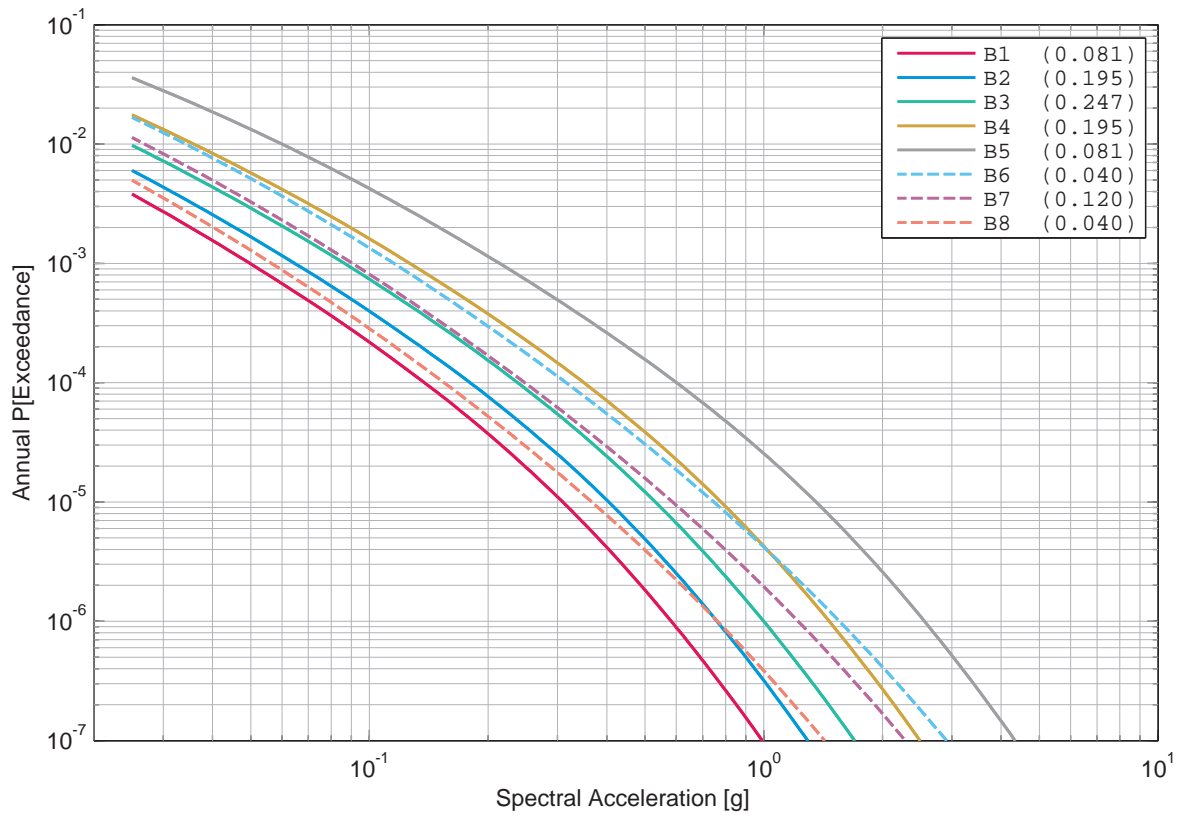


Figure 2.8.35: Beznau, horizontal component, rock, Bungum’s sensitivity to the Vs-kappa correction, 33 Hz.

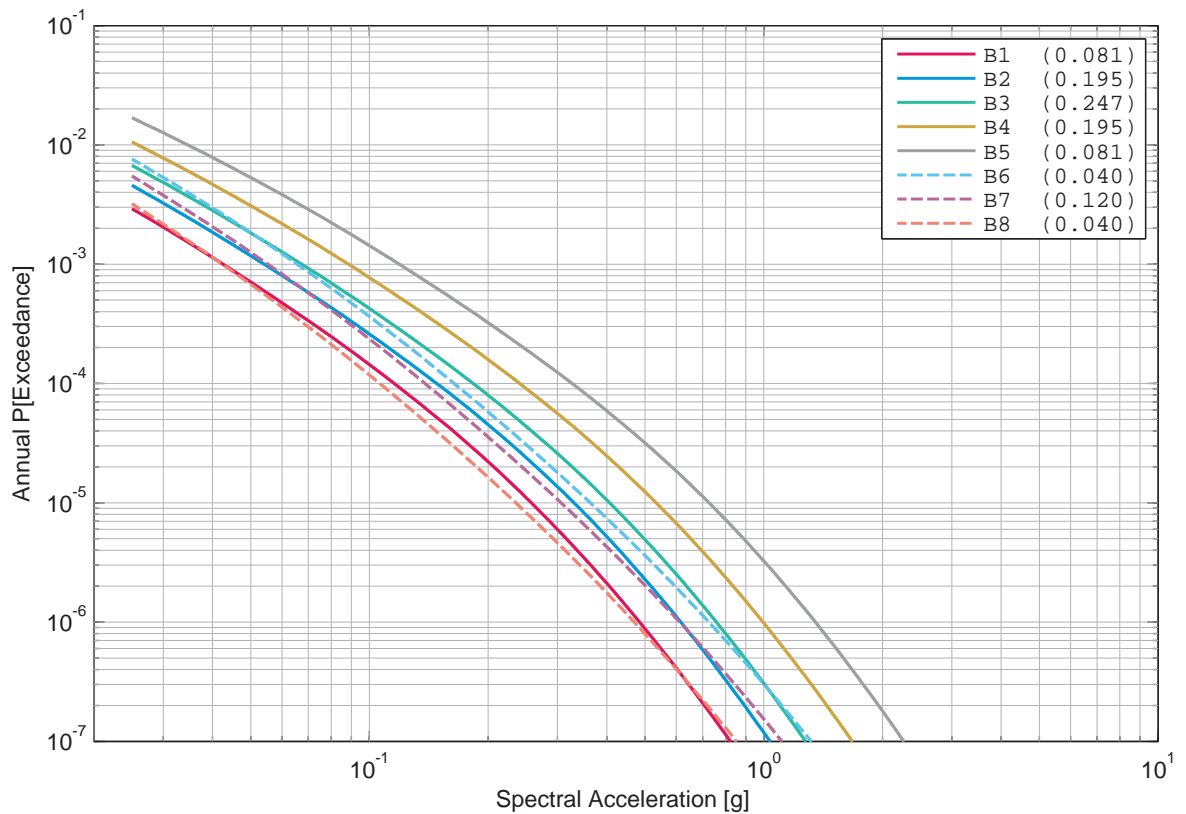


Figure 2.8.36: Beznau, horizontal component, rock, Bungum’s sensitivity to the Vs-kappa correction, 100 Hz.

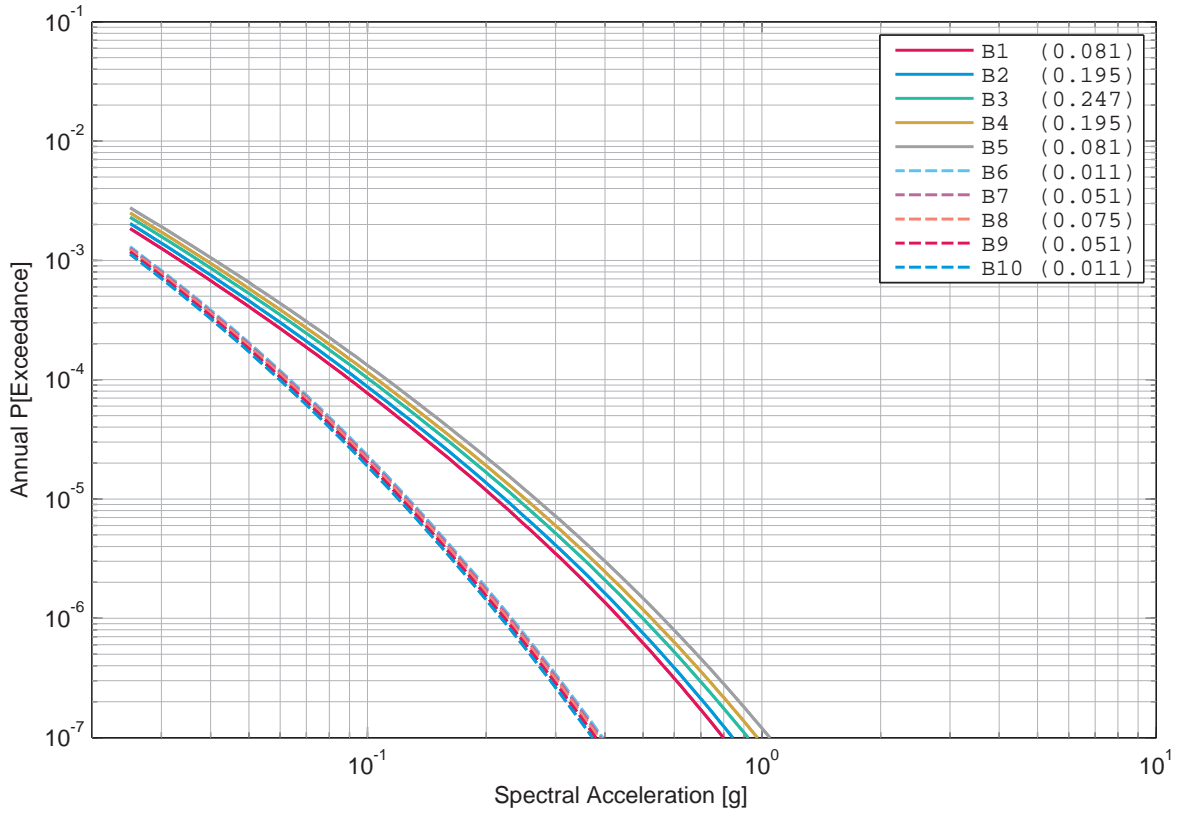


Figure 2.8.37: Beznau, horizontal component, rock, Campbell's sensitivity to the Vs-kappa correction, 1 Hz.

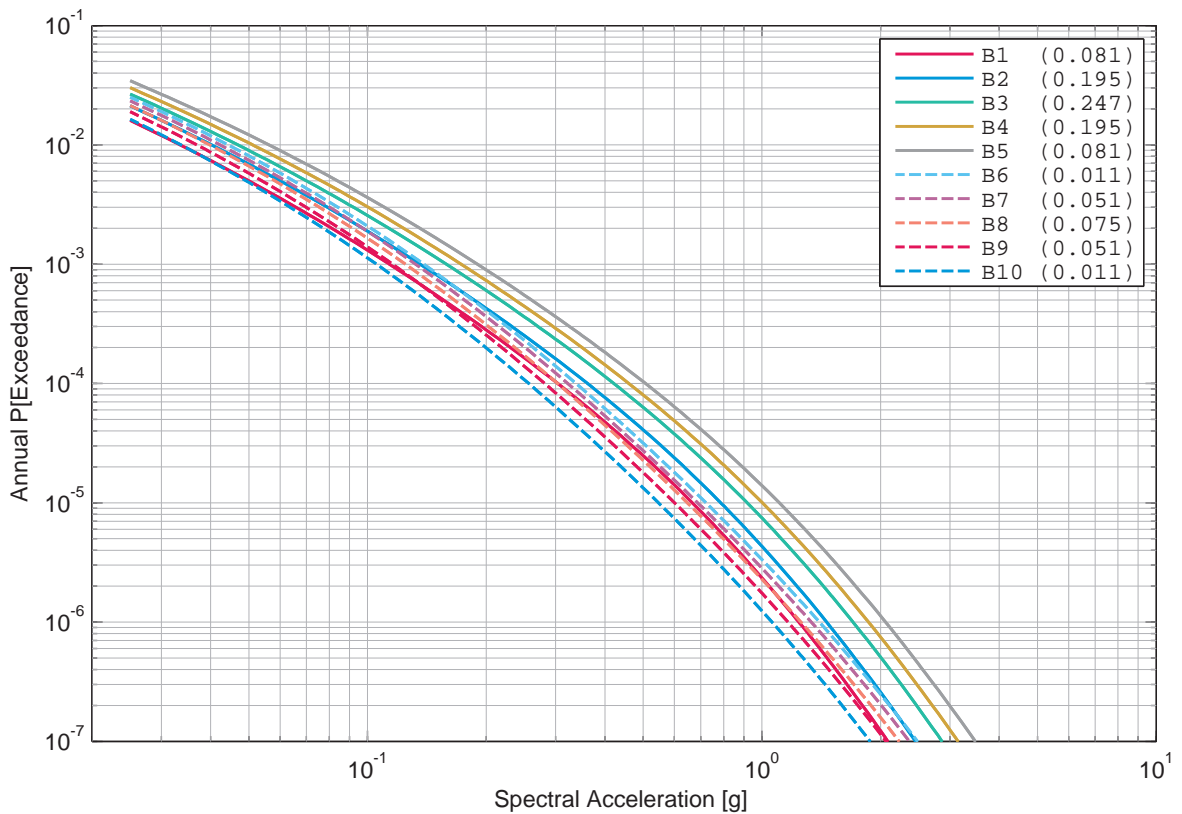


Figure 2.8.38: Beznau, horizontal component, rock, Campbell's sensitivity to the Vs-kappa correction, 5 Hz.

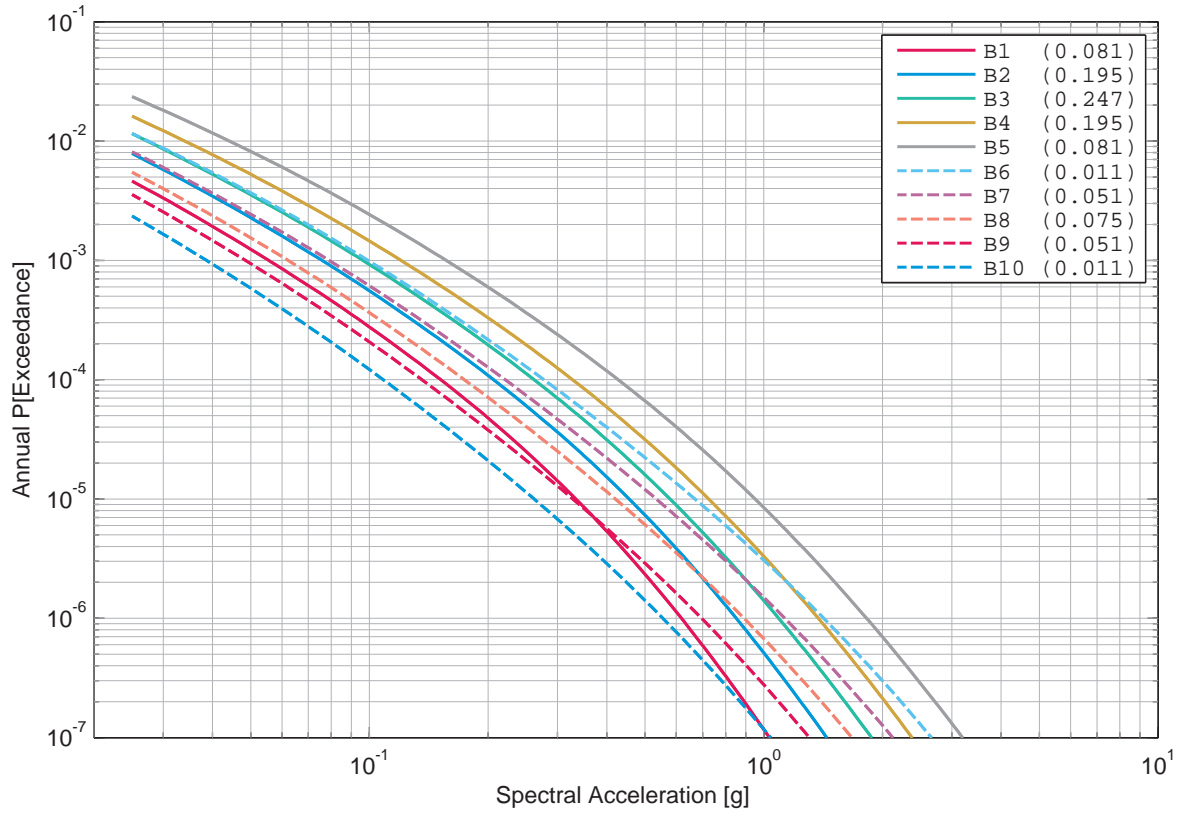


Figure 2.8.39: Beznau, horizontal component, rock, Campbell’s sensitivity to the Vs-kappa correction, 33 Hz.

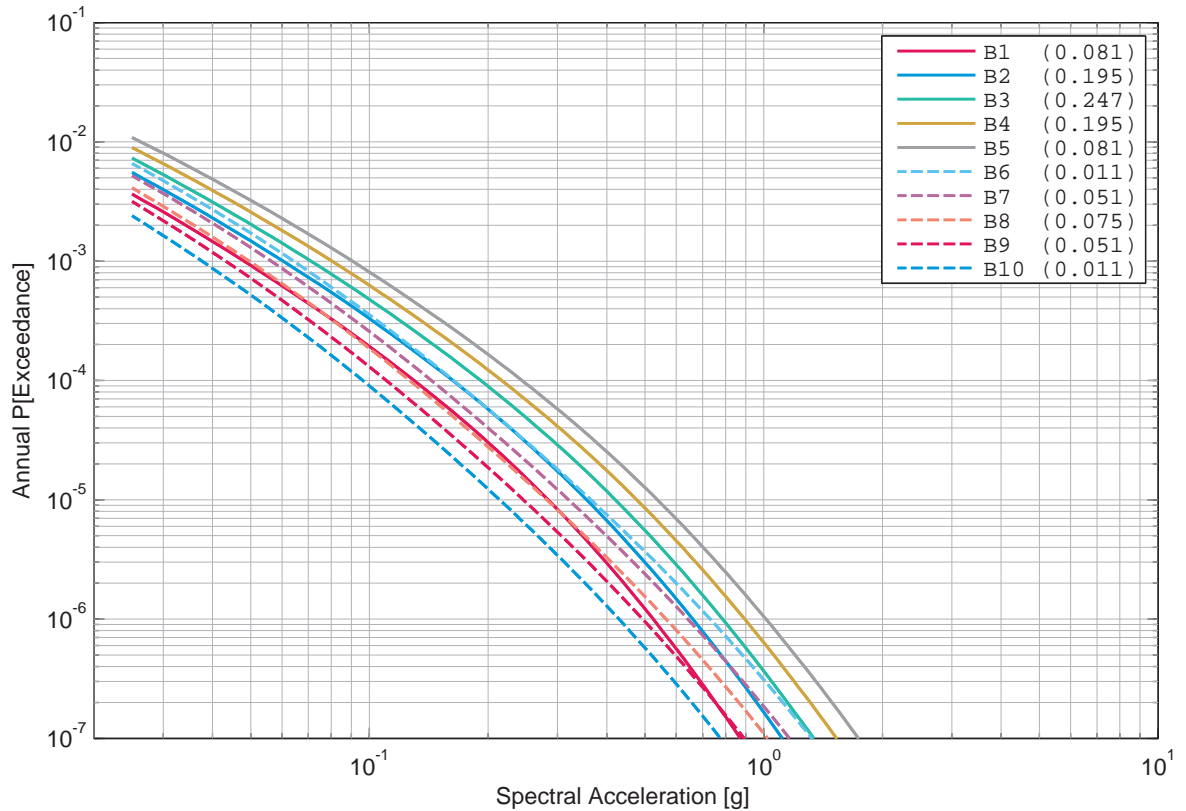


Figure 2.8.40: Beznau, horizontal component, rock, Campbell’s sensitivity to the Vs-kappa correction, 100 Hz.

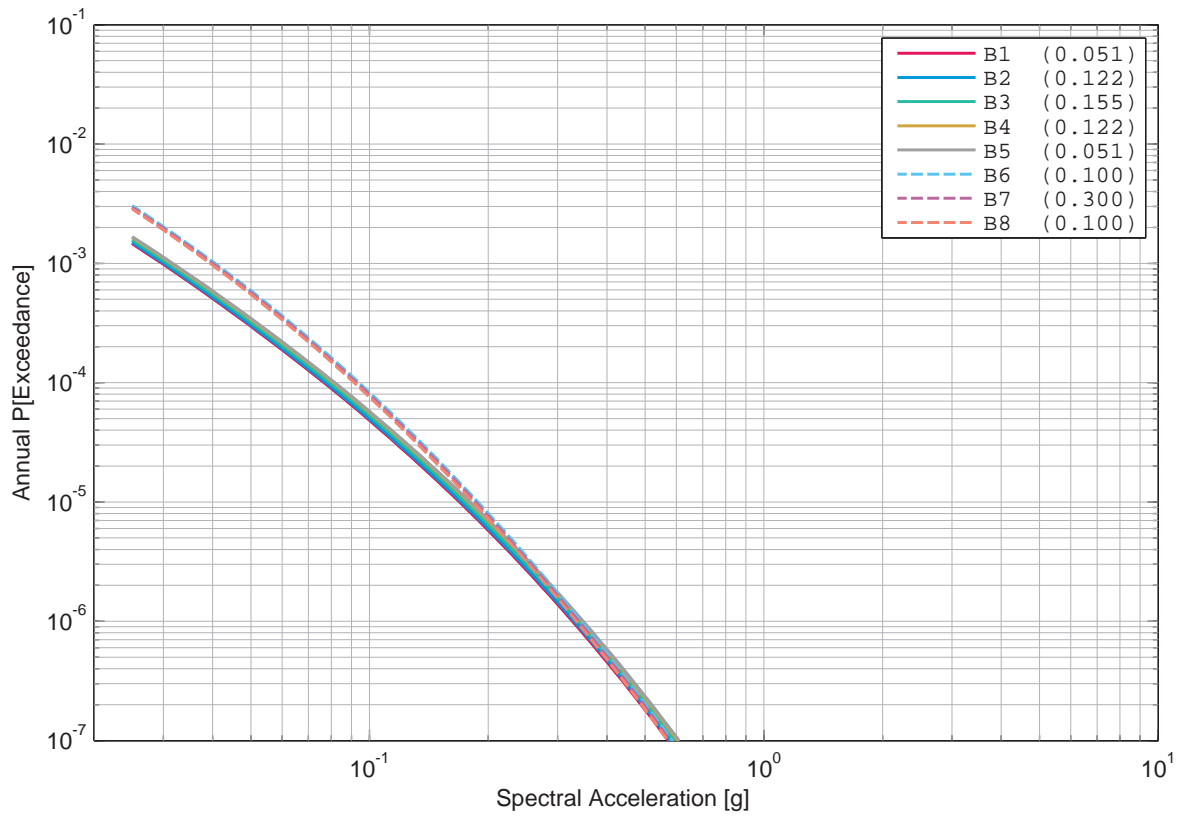


Figure 2.8.41: Beznau, horizontal component, rock, Cotton's sensitivity to the Vs-kappa correction, 1 Hz.

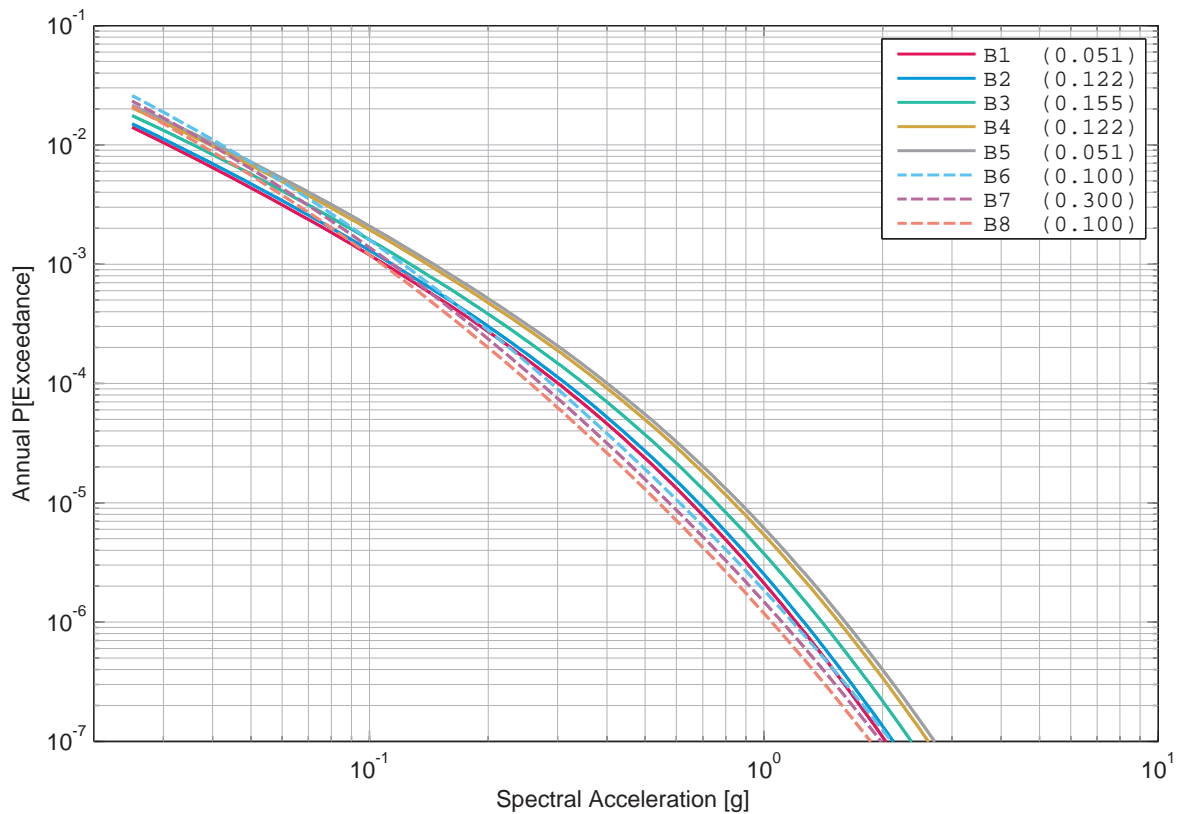


Figure 2.8.42: Beznau, horizontal component, rock, Cotton's sensitivity to the Vs-kappa correction, 5 Hz.

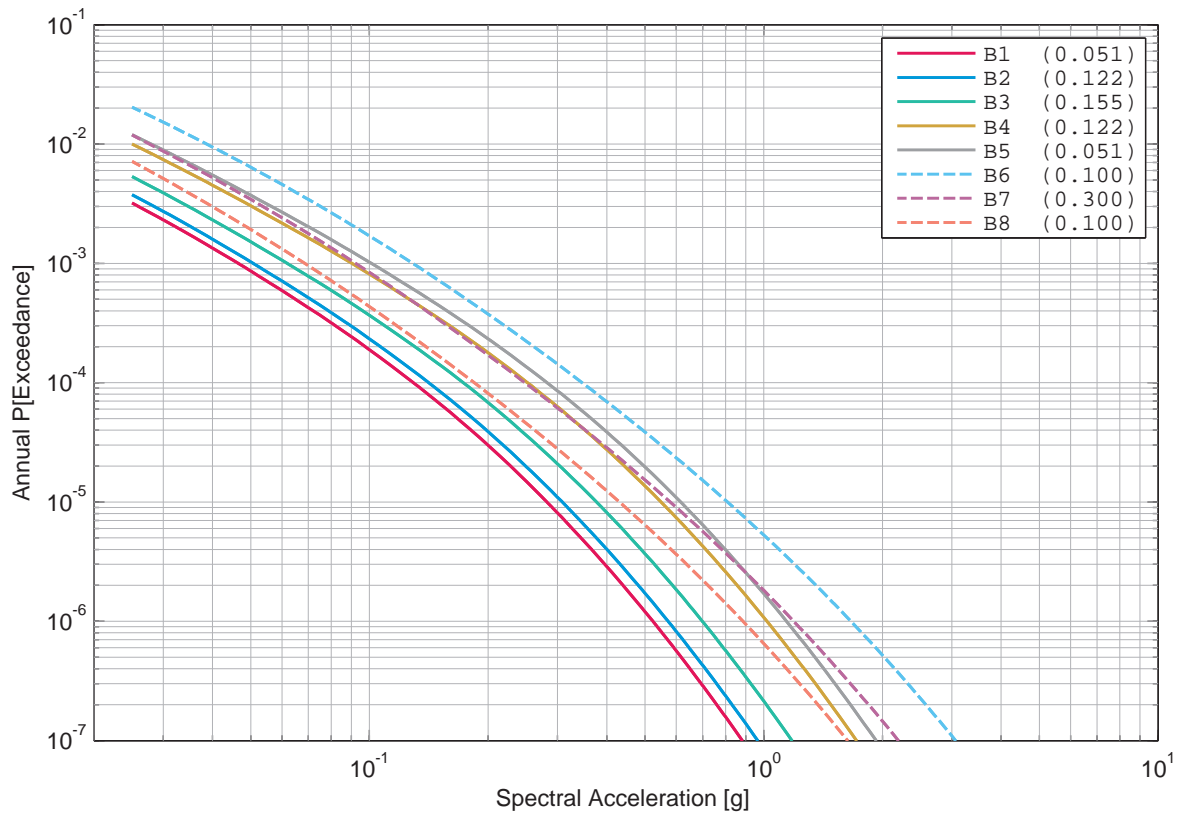


Figure 2.8.43: Beznau, horizontal component, rock, Cotton’s sensitivity to the Vs-kappa correction, 33 Hz.

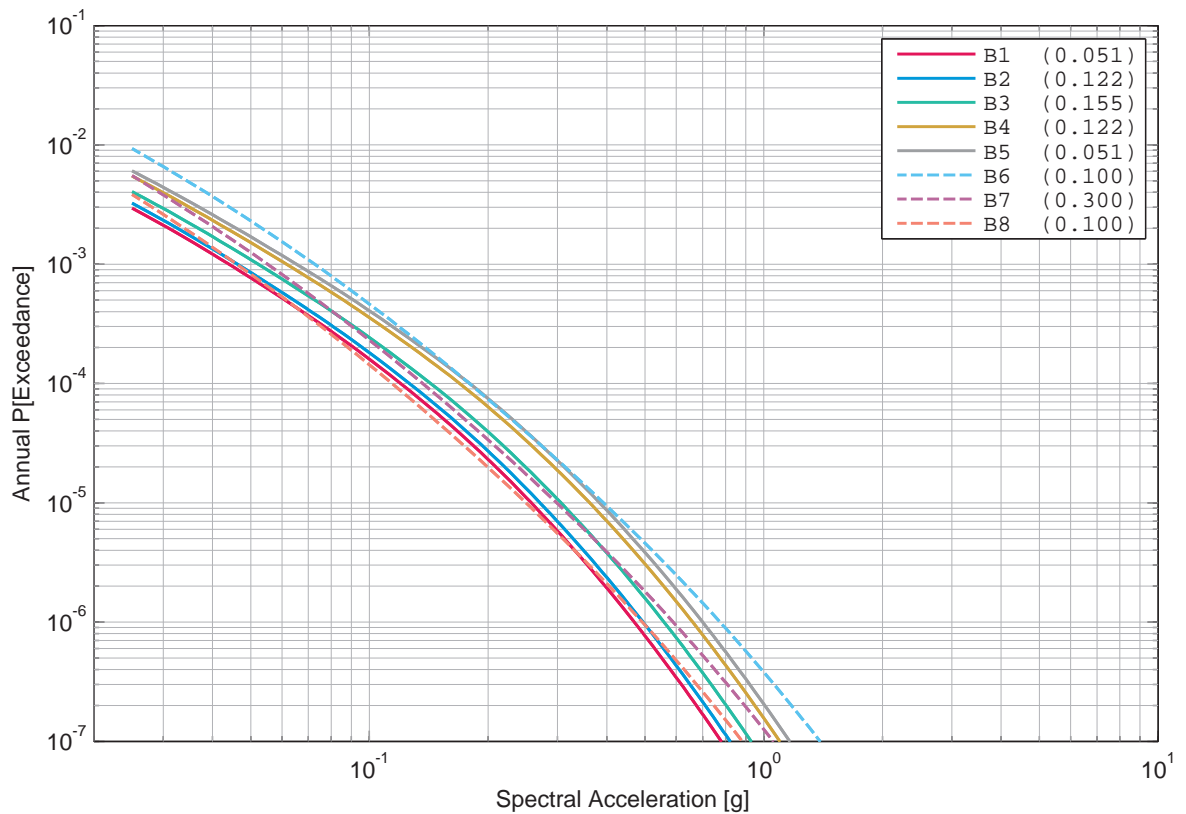


Figure 2.8.44: Beznau, horizontal component, rock, Cotton’s sensitivity to the Vs-kappa correction, 100 Hz.

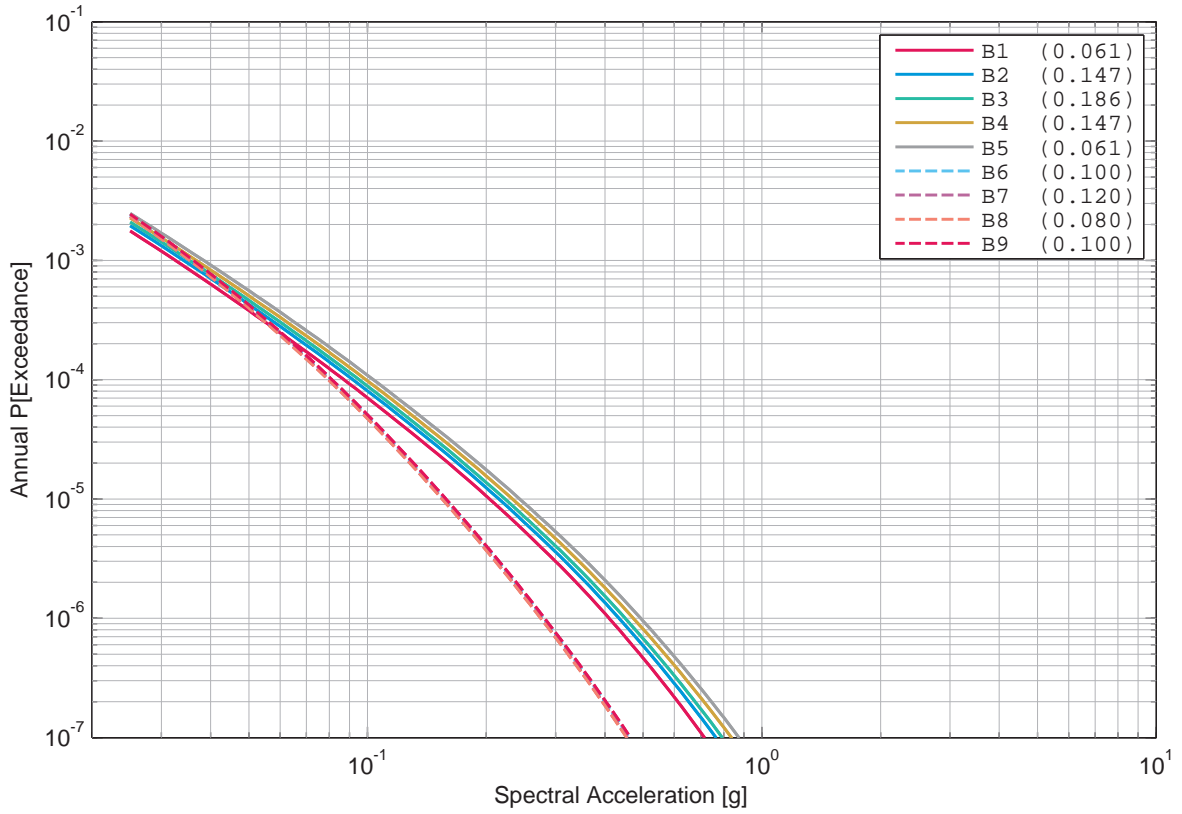


Figure 2.8.45: Beznau, horizontal component, rock, Faeh's sensitivity to the Vs-kappa correction, 1 Hz.

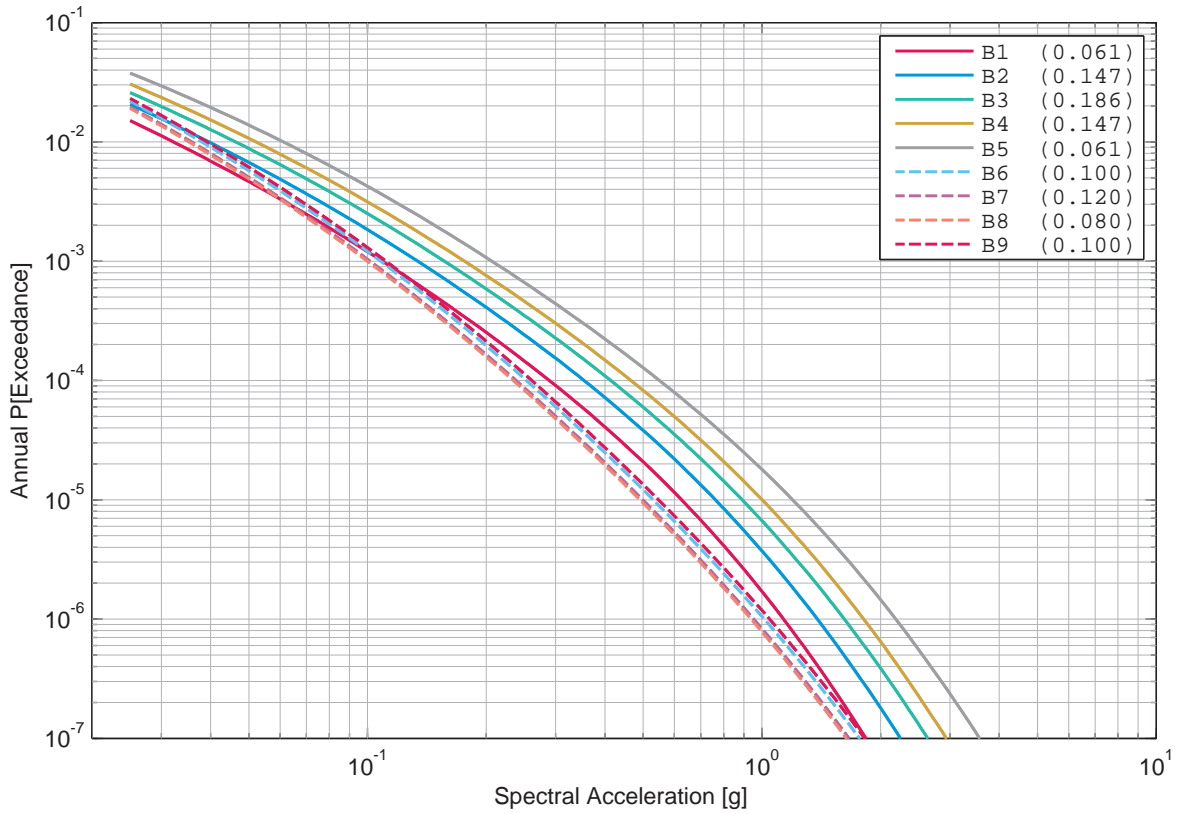


Figure 2.8.46: Beznau, horizontal component, rock, Faeh's sensitivity to the Vs-kappa correction, 5 Hz.

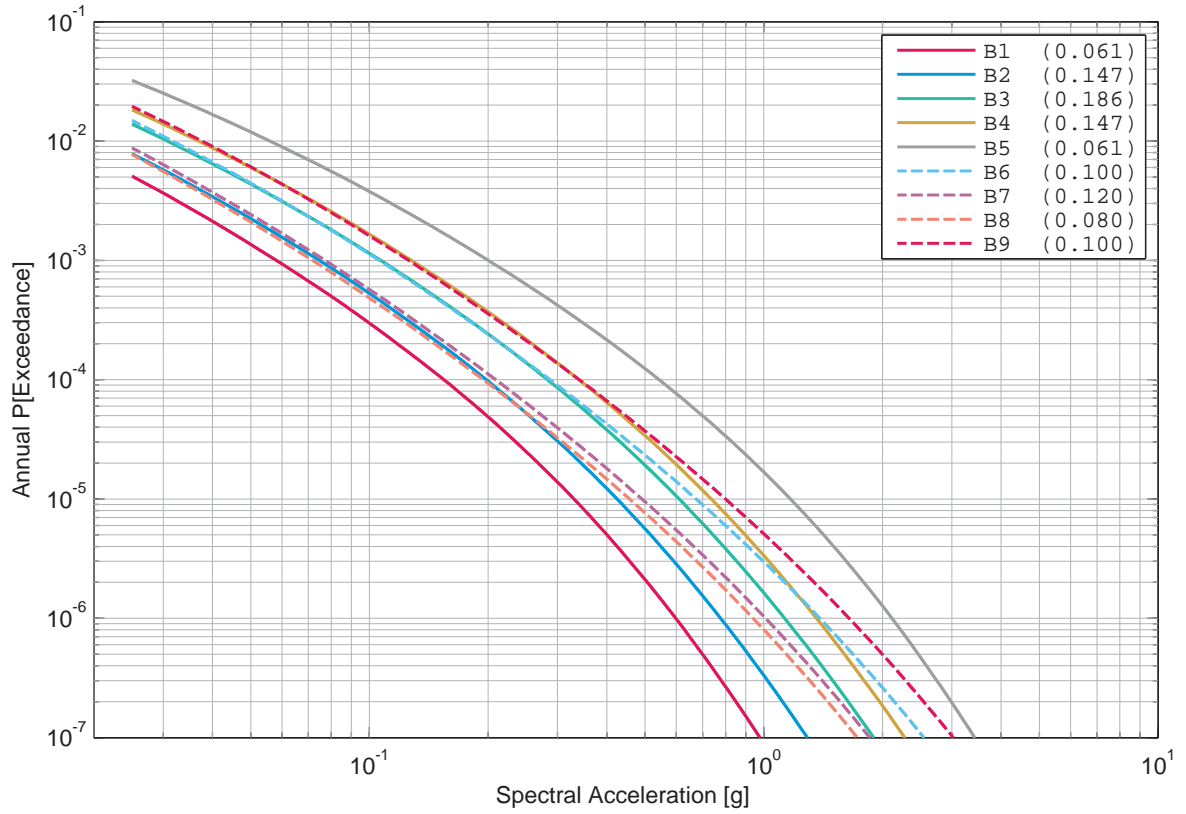


Figure 2.8.47: Beznau, horizontal component, rock, Faeh's sensitivity to the Vs-kappa correction, 33 Hz.

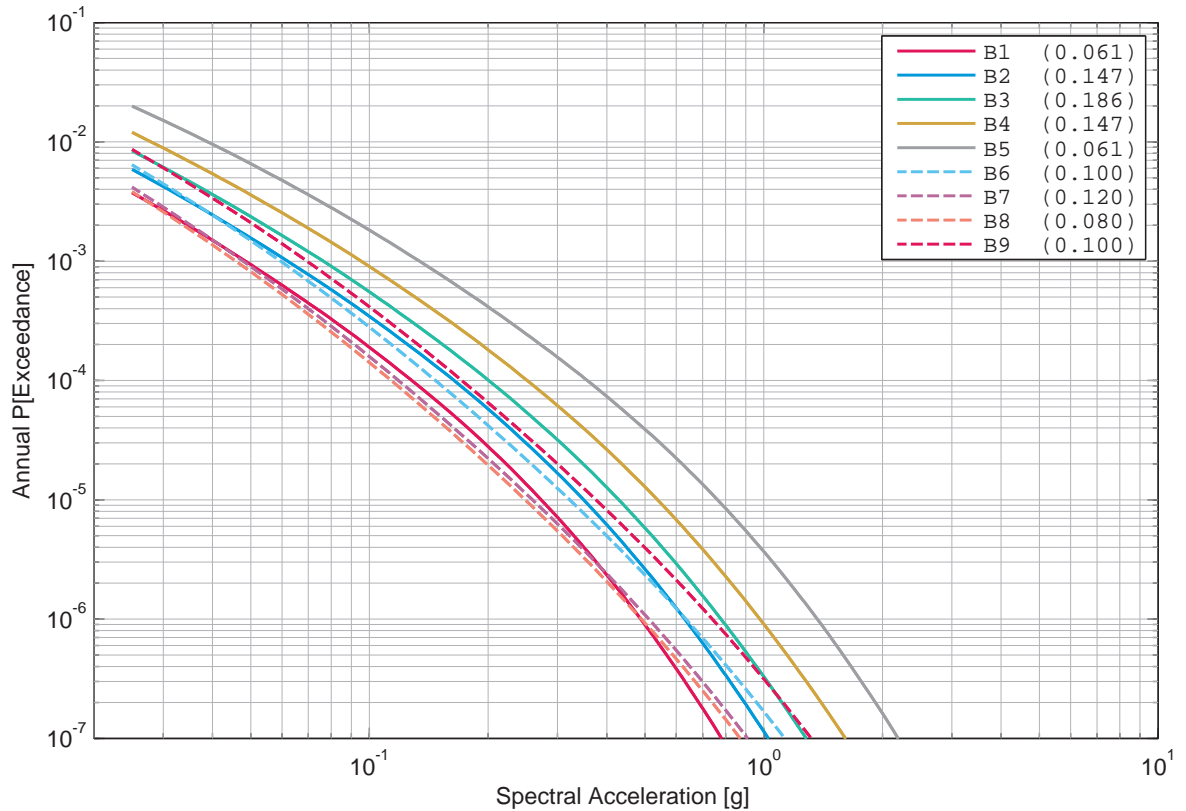


Figure 2.8.48: Beznau, horizontal component, rock, Faeh's sensitivity to the Vs-kappa correction, 100 Hz.

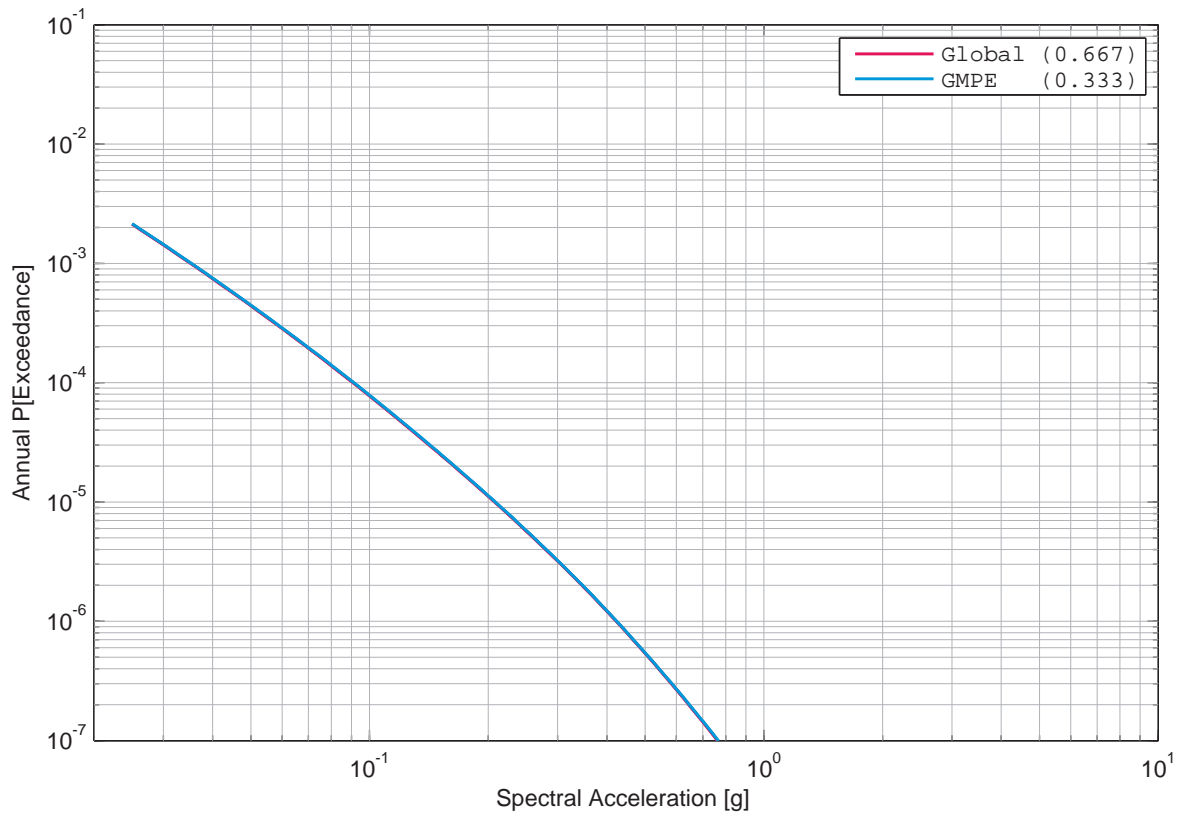


Figure 2.8.49: Beznau, horizontal component, rock, Bungum's sensitivity to tau, 1 Hz.

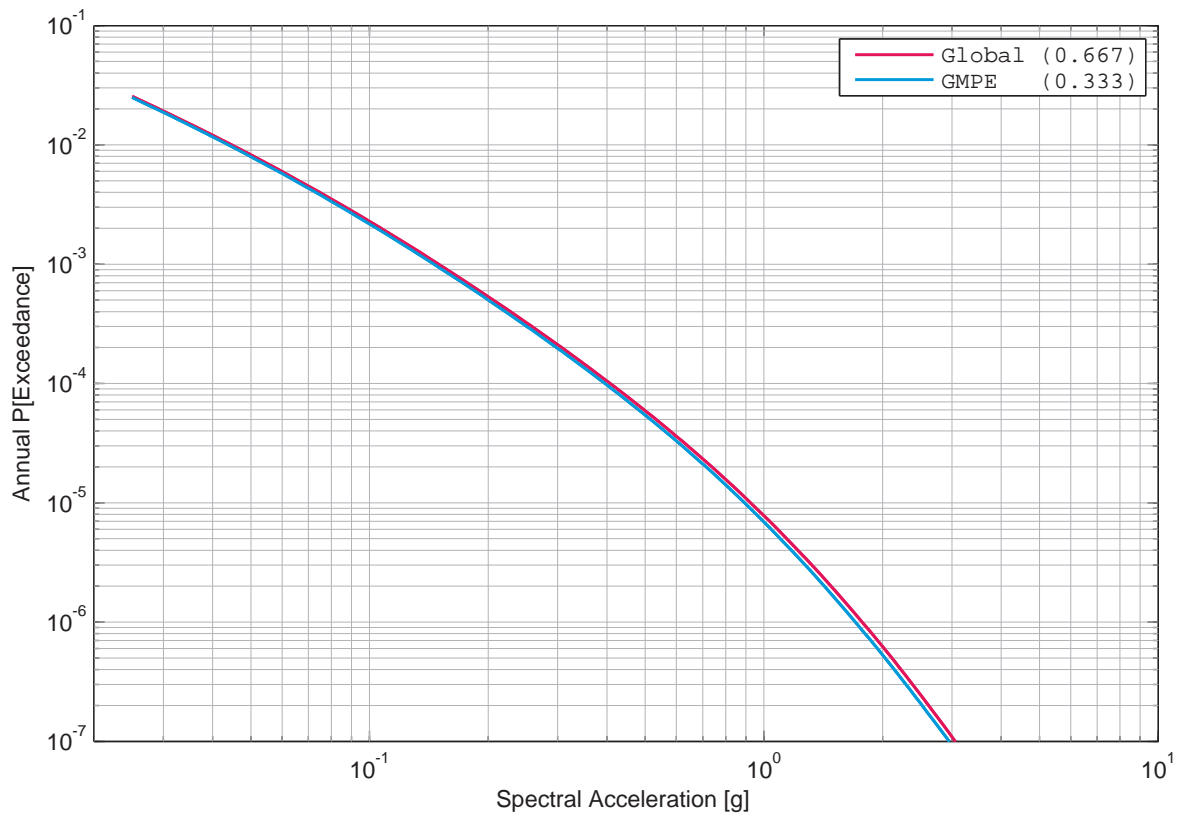


Figure 2.8.50: Beznau, horizontal component, rock, Bungum's sensitivity to tau, 5 Hz.

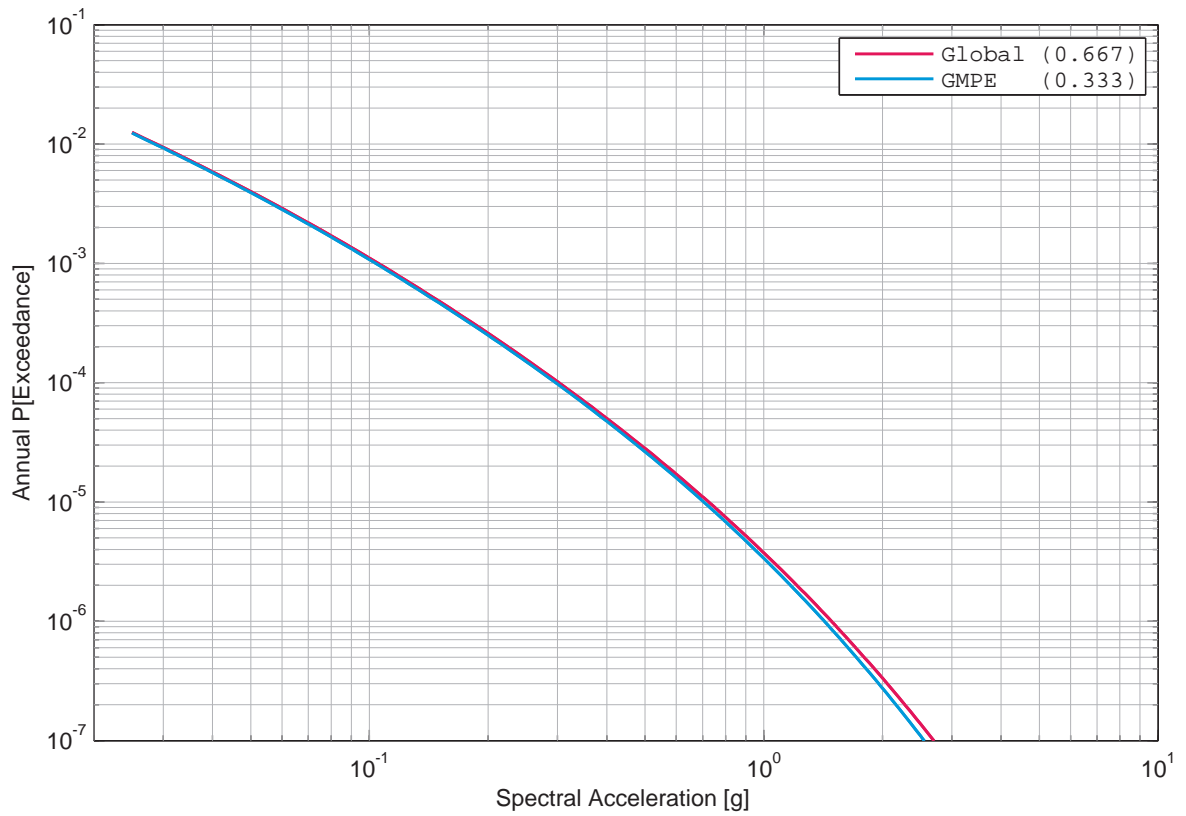


Figure 2.8.51: Beznau, horizontal component, rock, Bungum’s sensitivity to tau, 33 Hz.

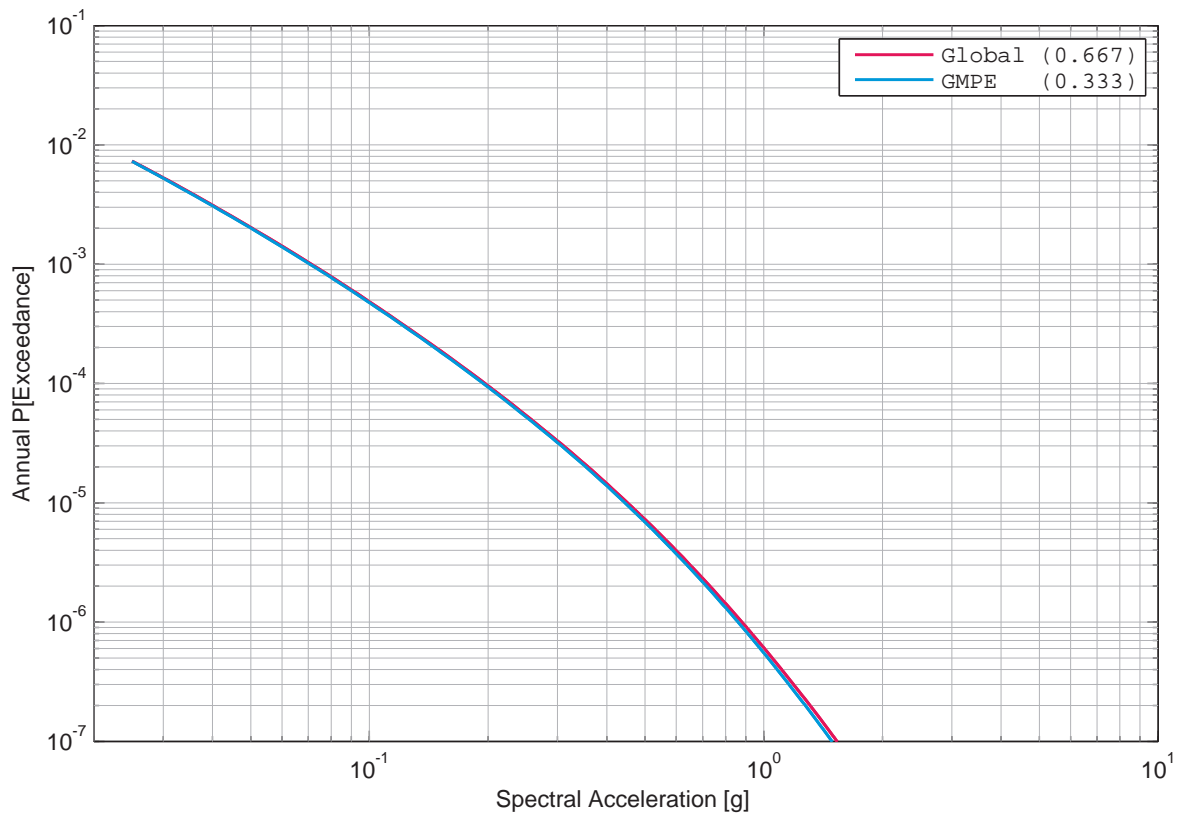


Figure 2.8.52: Beznau, horizontal component, rock, Bungum’s sensitivity to tau, 100 Hz.

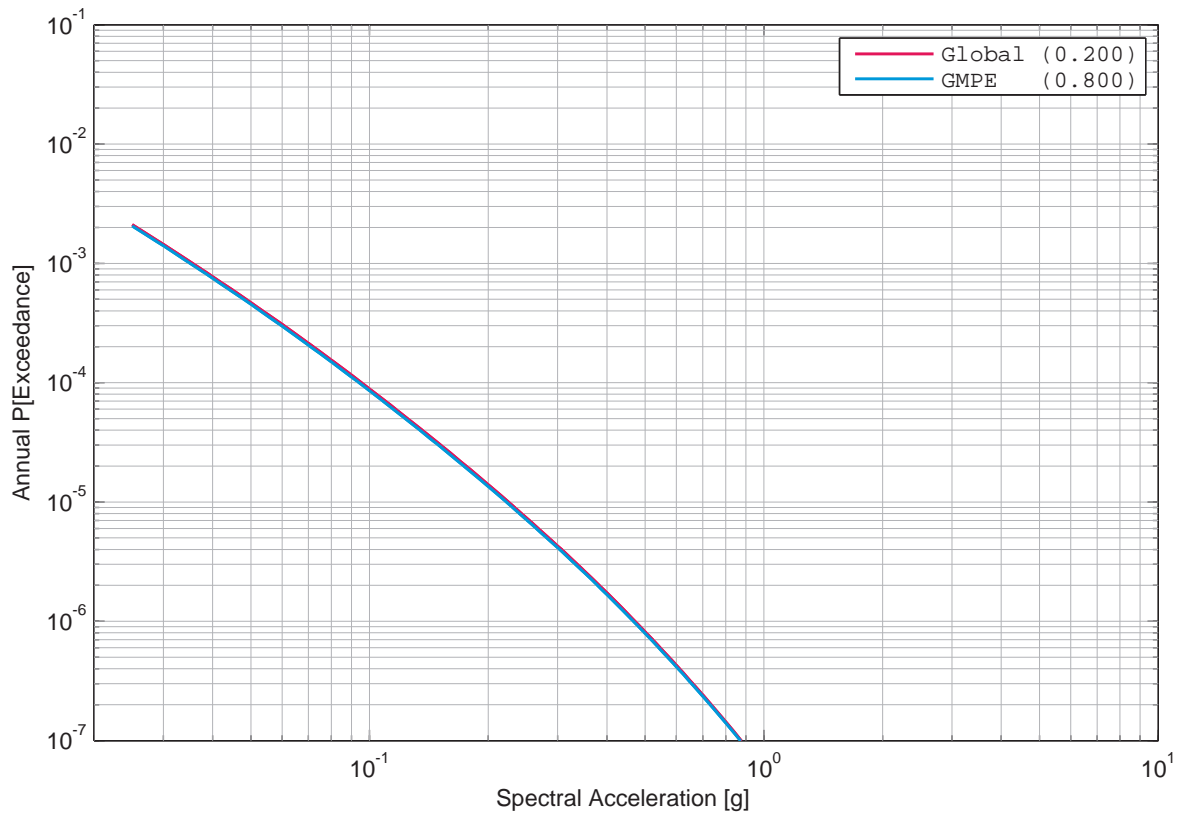


Figure 2.8.53: Beznau, horizontal component, rock, Campbell's sensitivity to tau, 1 Hz.

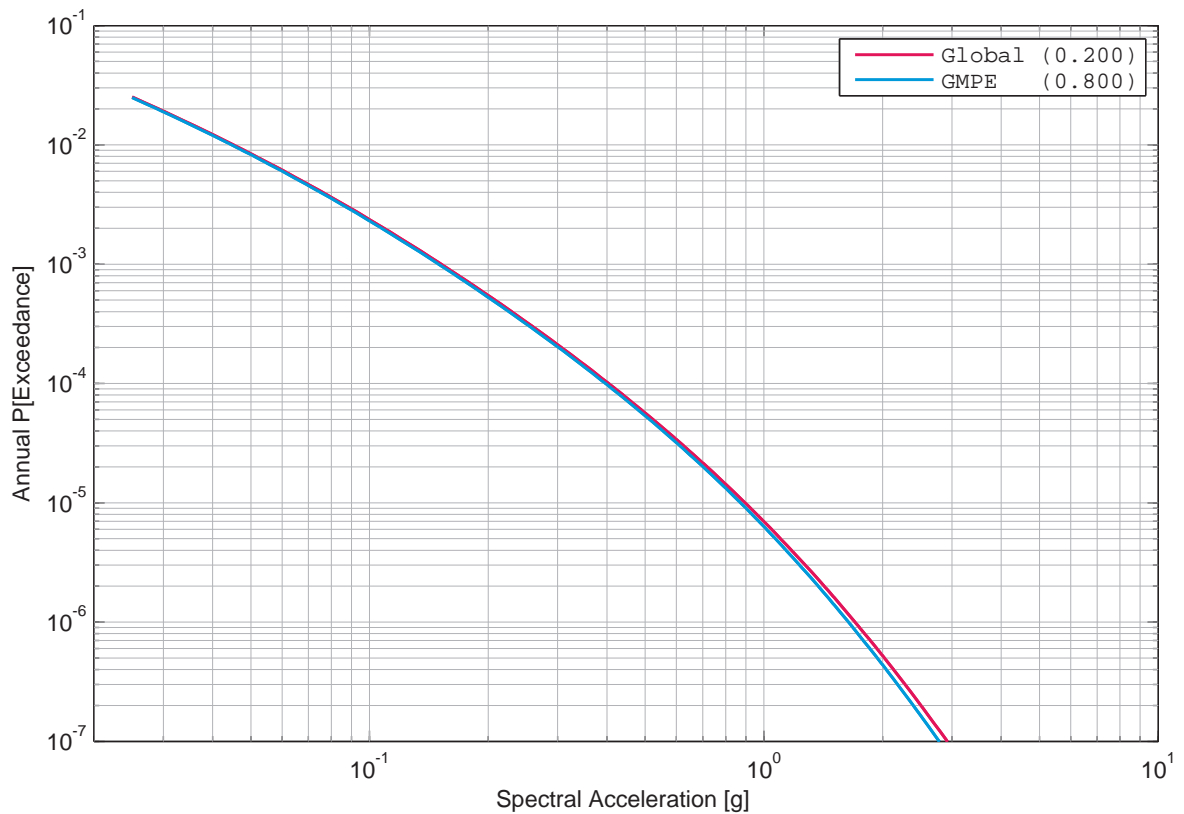


Figure 2.8.54: Beznau, horizontal component, rock, Campbell's sensitivity to tau, 5 Hz.

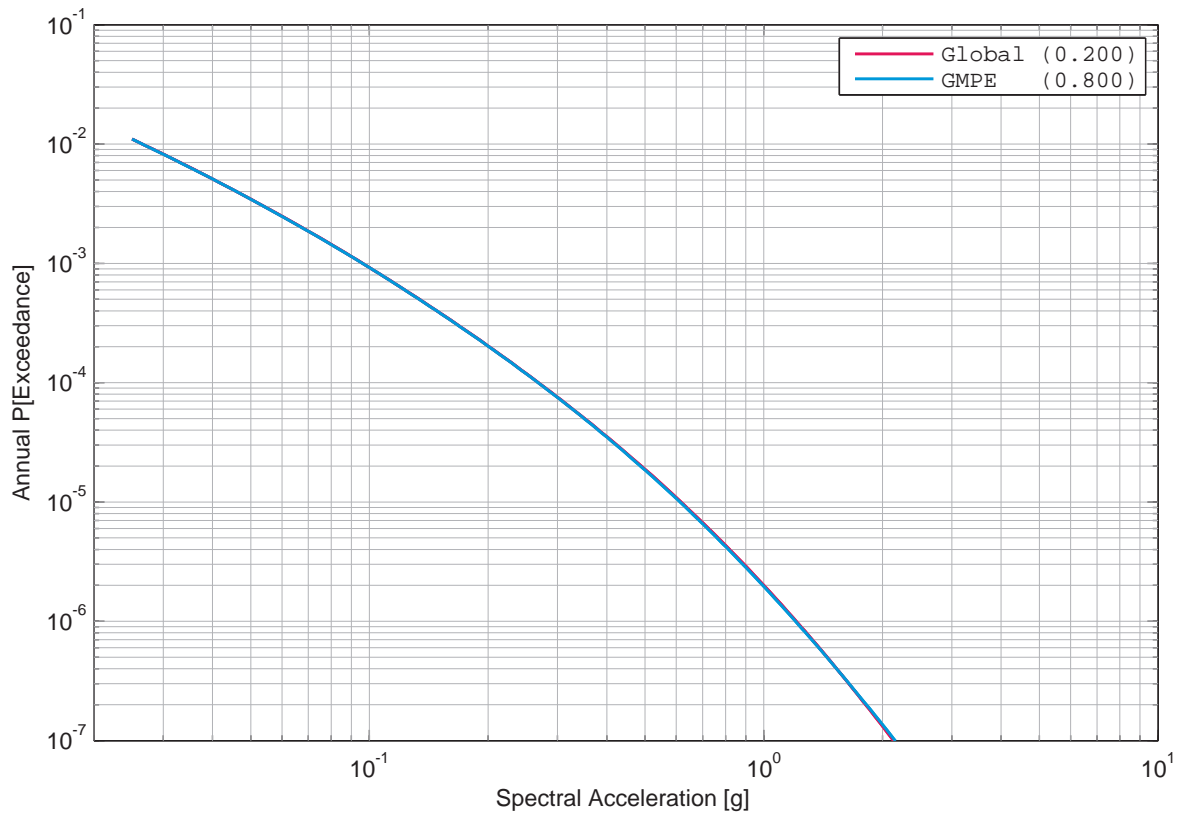


Figure 2.8.55: Beznau, horizontal component, rock, Campbell's sensitivity to tau, 33 Hz.

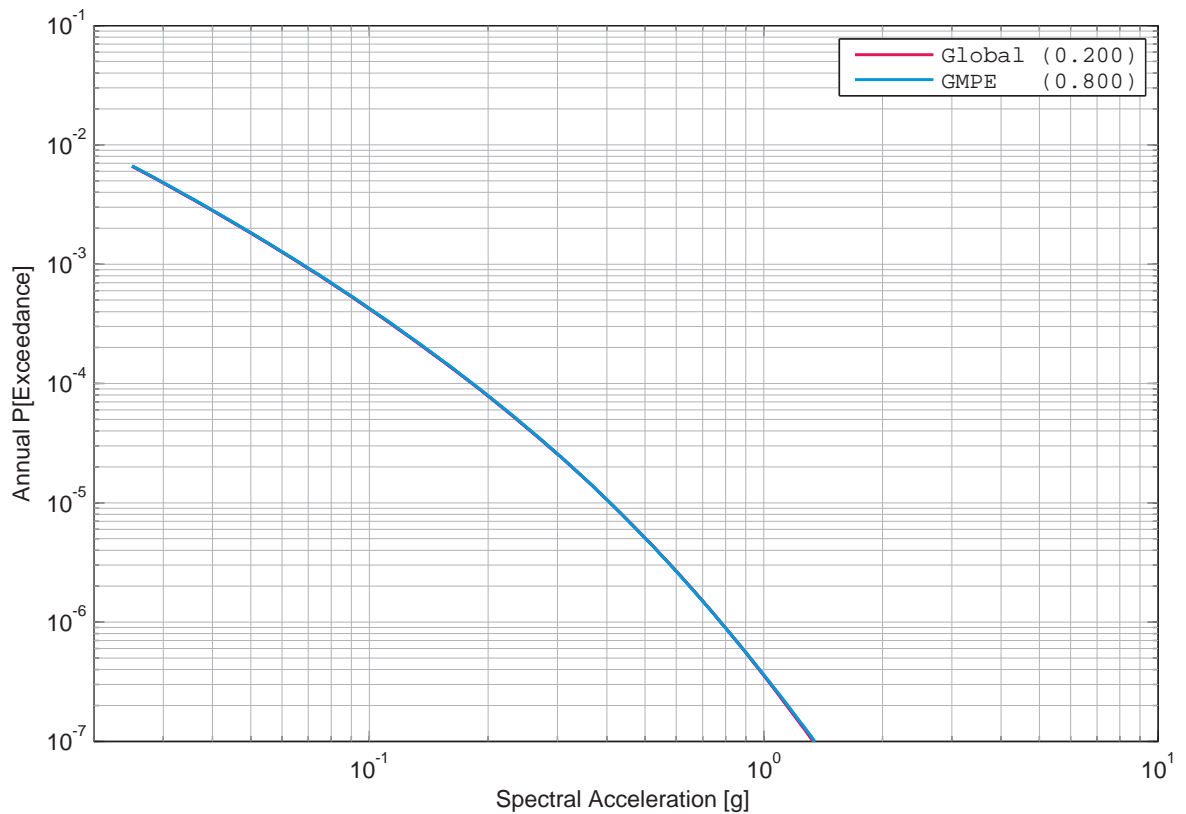


Figure 2.8.56: Beznau, horizontal component, rock, Campbell's sensitivity to tau, 100 Hz.

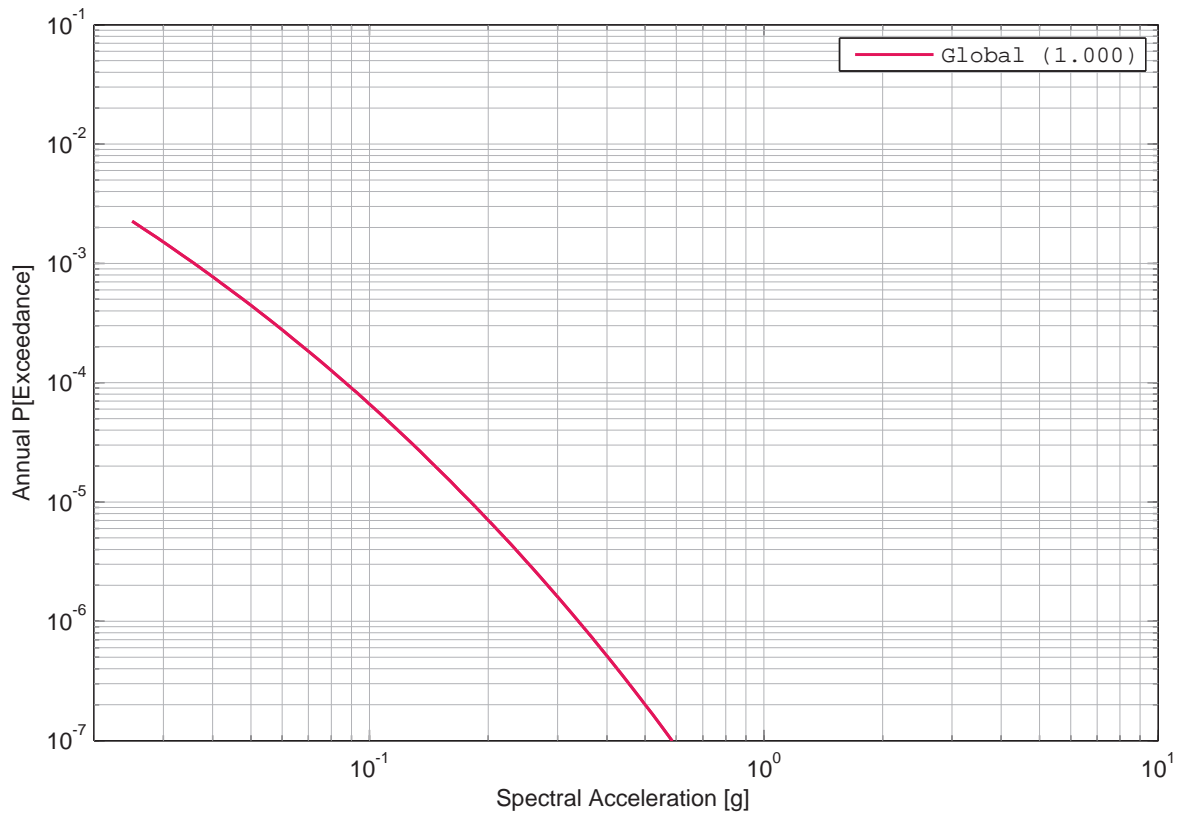


Figure 2.8.57: Beznau, horizontal component, rock, Cotton's sensitivity to tau, 1 Hz.

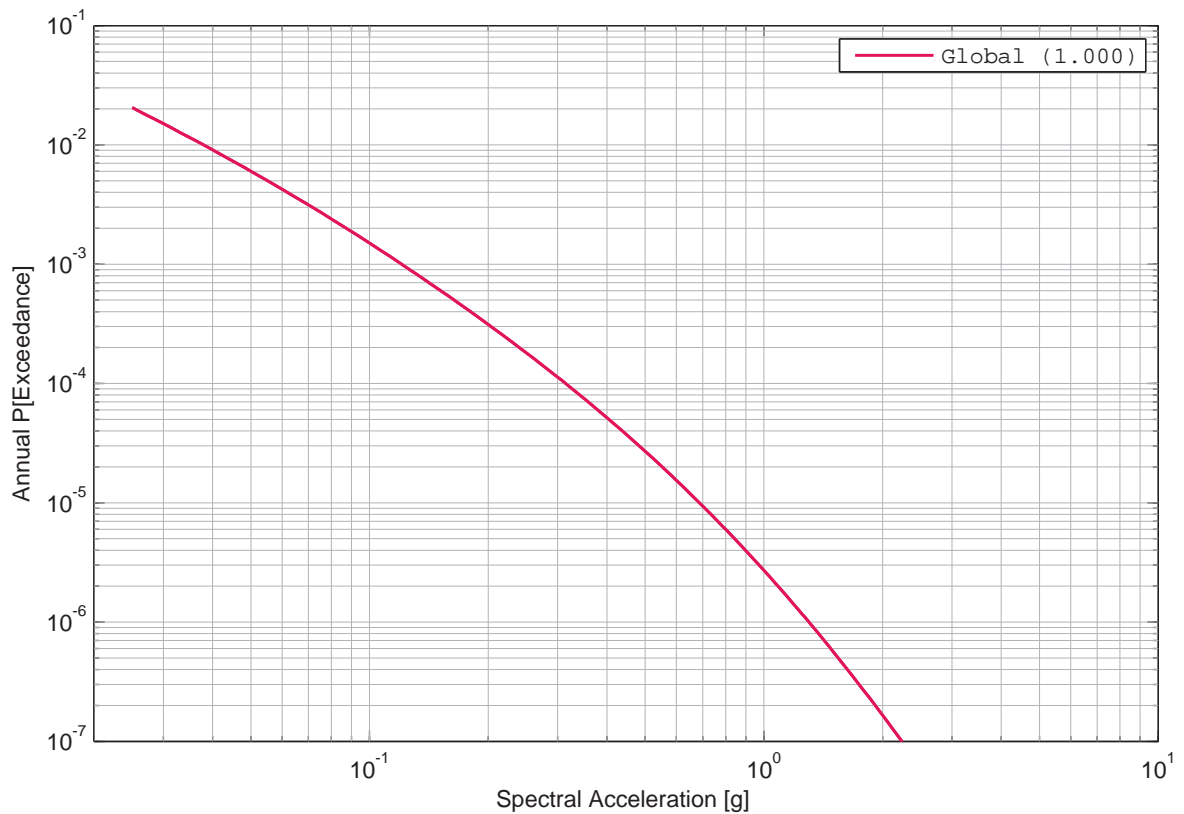


Figure 2.8.58: Beznau, horizontal component, rock, Cotton's sensitivity to tau, 5 Hz.

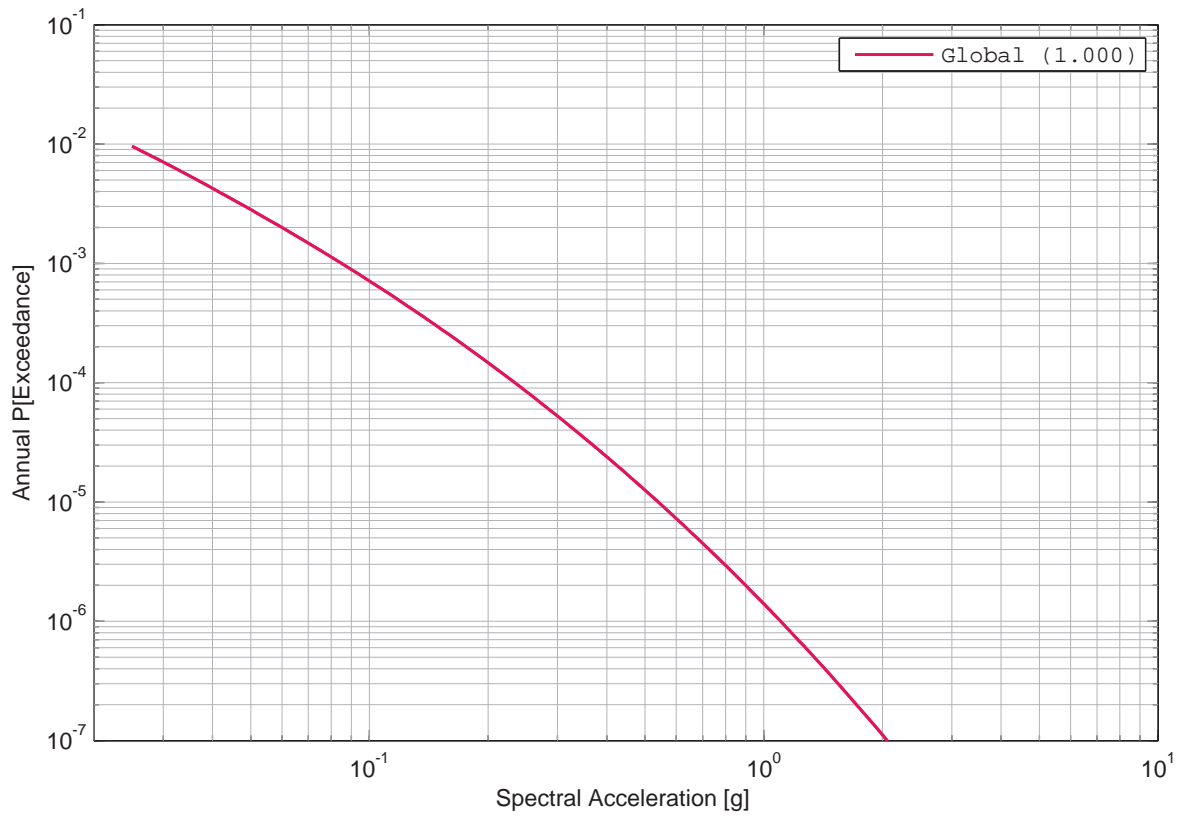


Figure 2.8.59: Beznau, horizontal component, rock, Cotton's sensitivity to tau, 33 Hz.

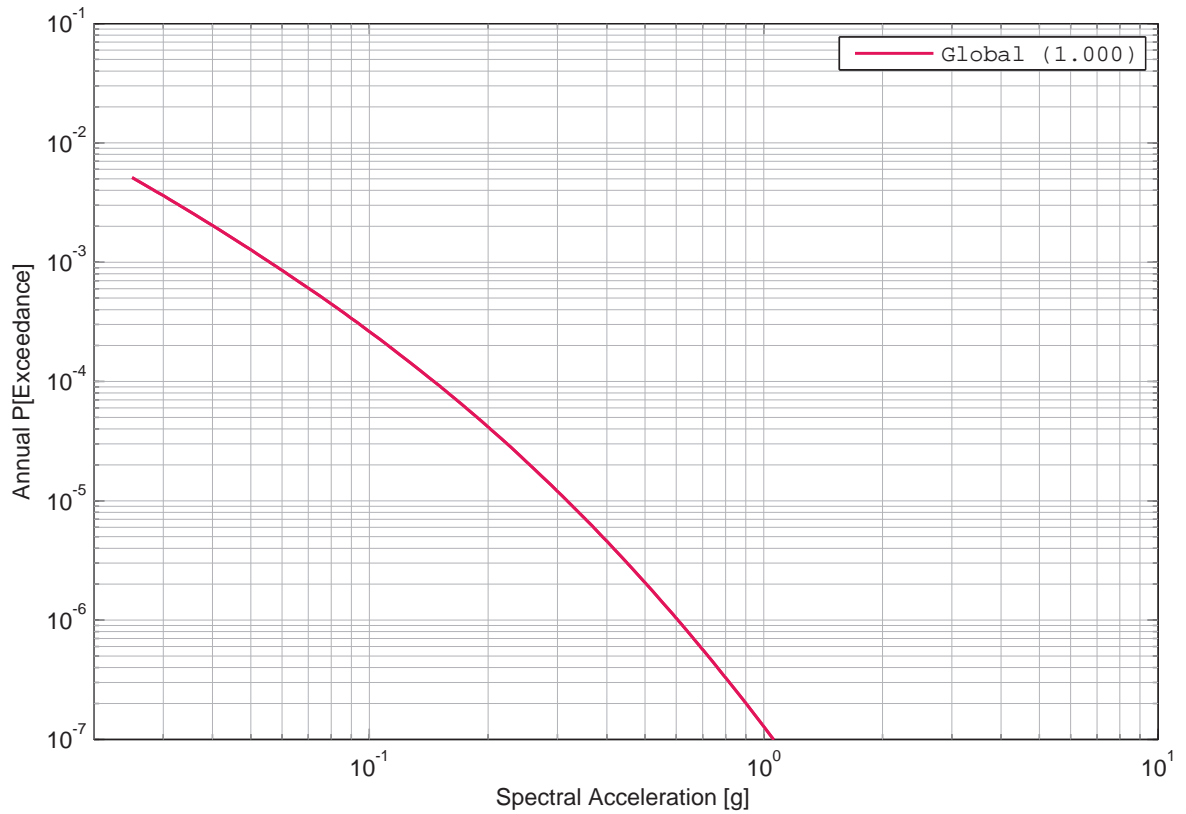


Figure 2.8.60: Beznau, horizontal component, rock, Cotton's sensitivity to tau, 100 Hz.

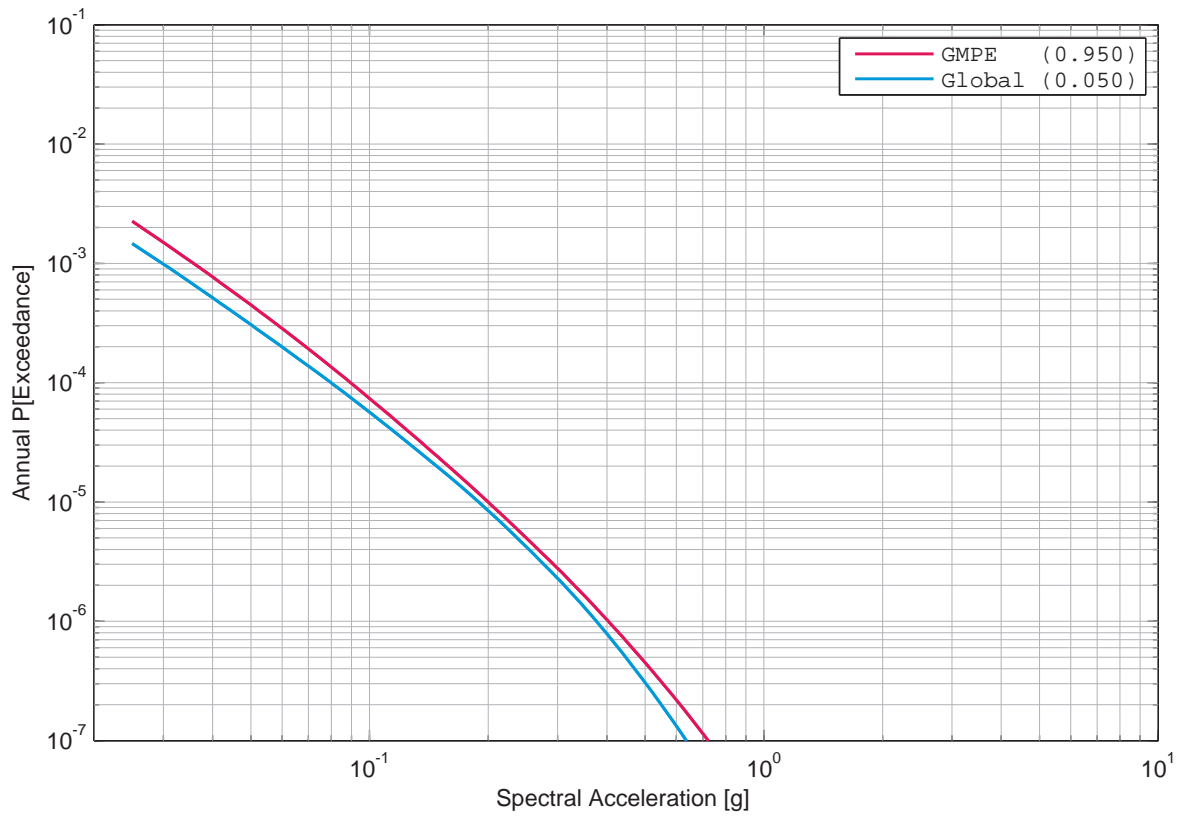


Figure 2.8.61: Beznau, horizontal component, rock, Faeh's sensitivity to tau, 1 Hz.

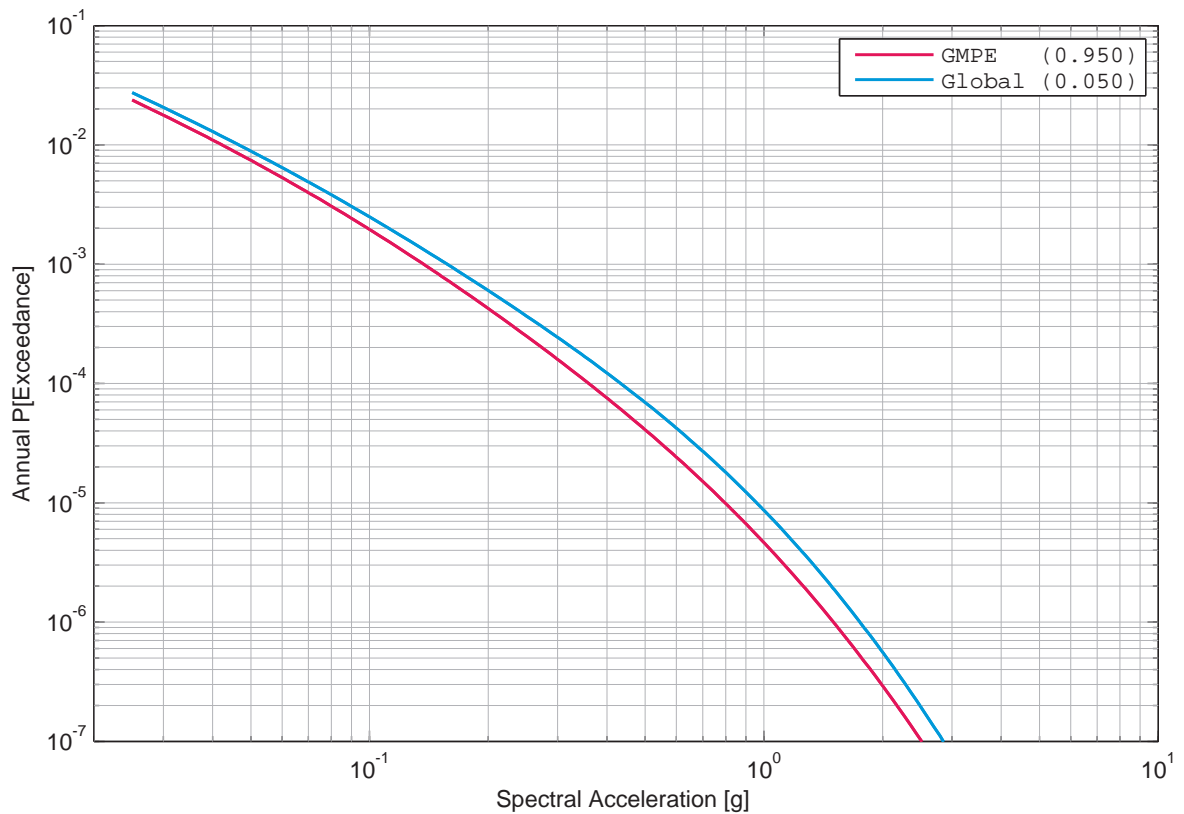


Figure 2.8.62: Beznau, horizontal component, rock, Faeh's sensitivity to tau, 5 Hz.

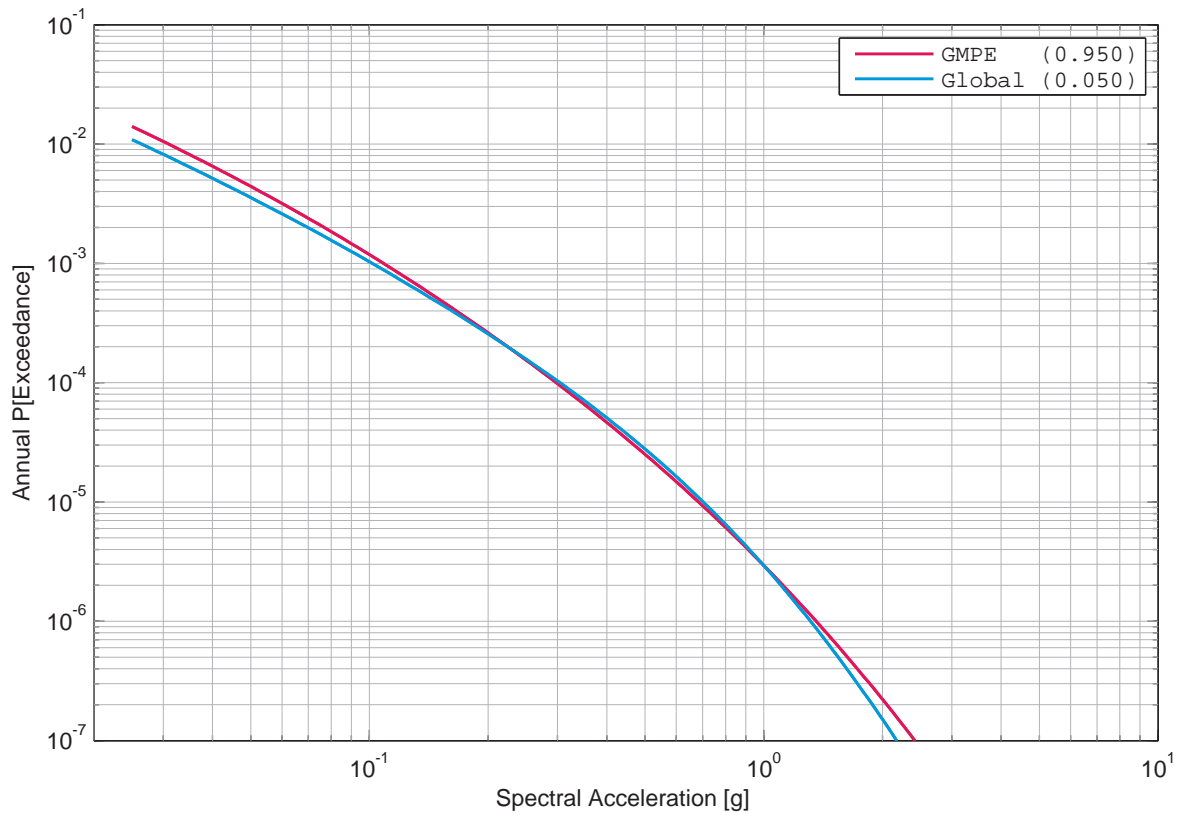


Figure 2.8.63: Beznau, horizontal component, rock, Faeh's sensitivity to tau, 33 Hz.

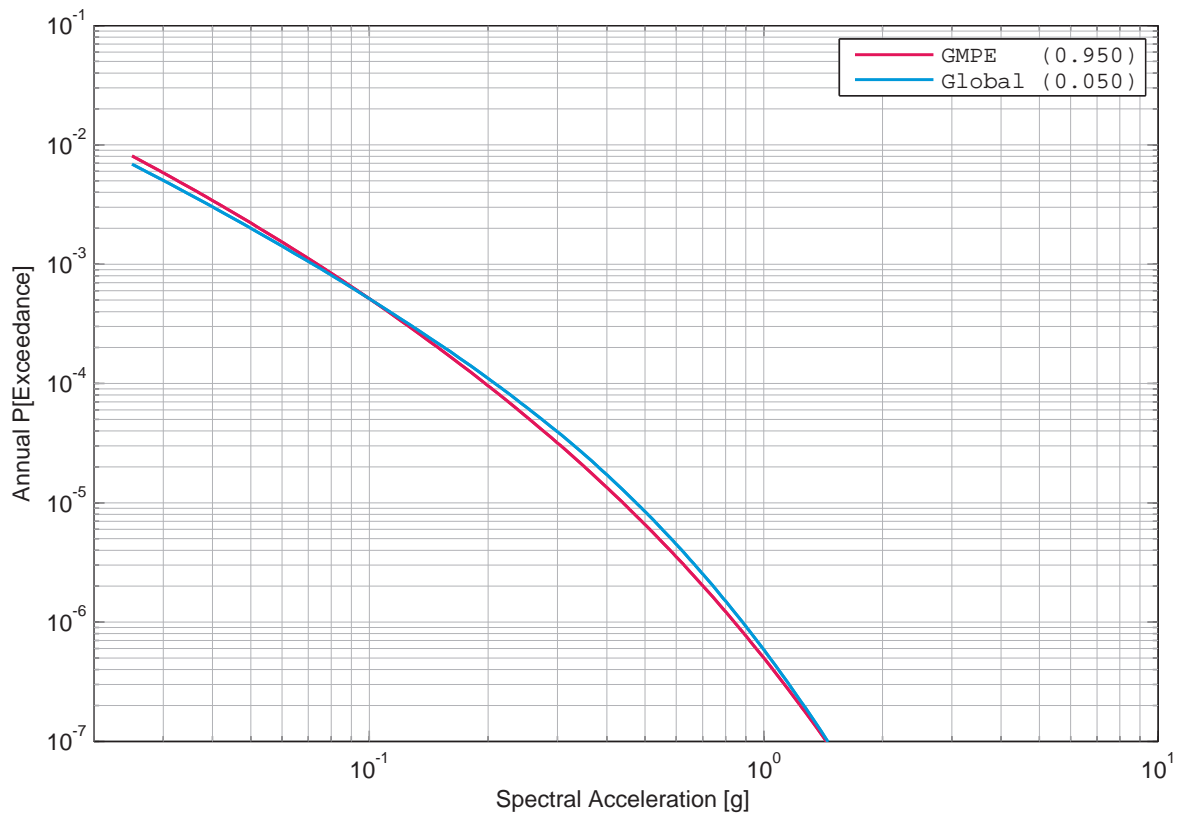


Figure 2.8.64: Beznau, horizontal component, rock, Faeh's sensitivity to tau, 100 Hz.

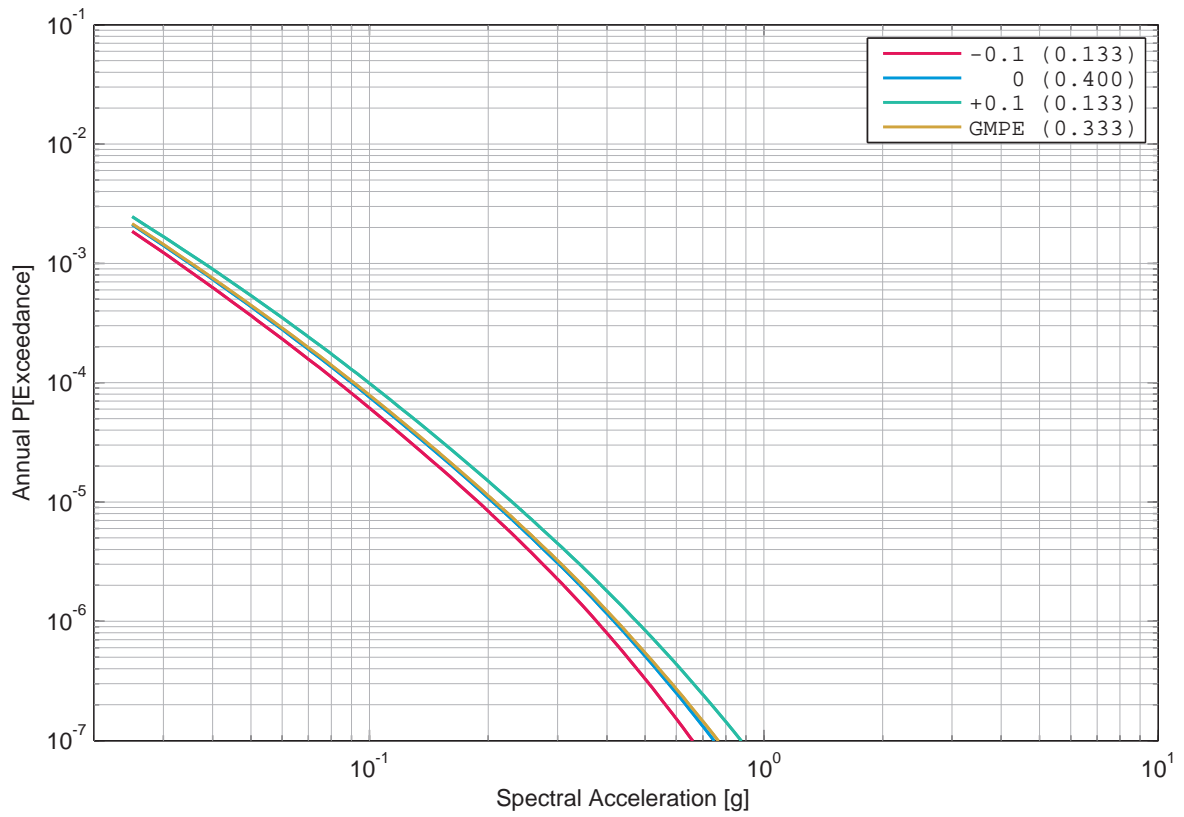


Figure 2.8.65: Beznau, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 1 Hz.

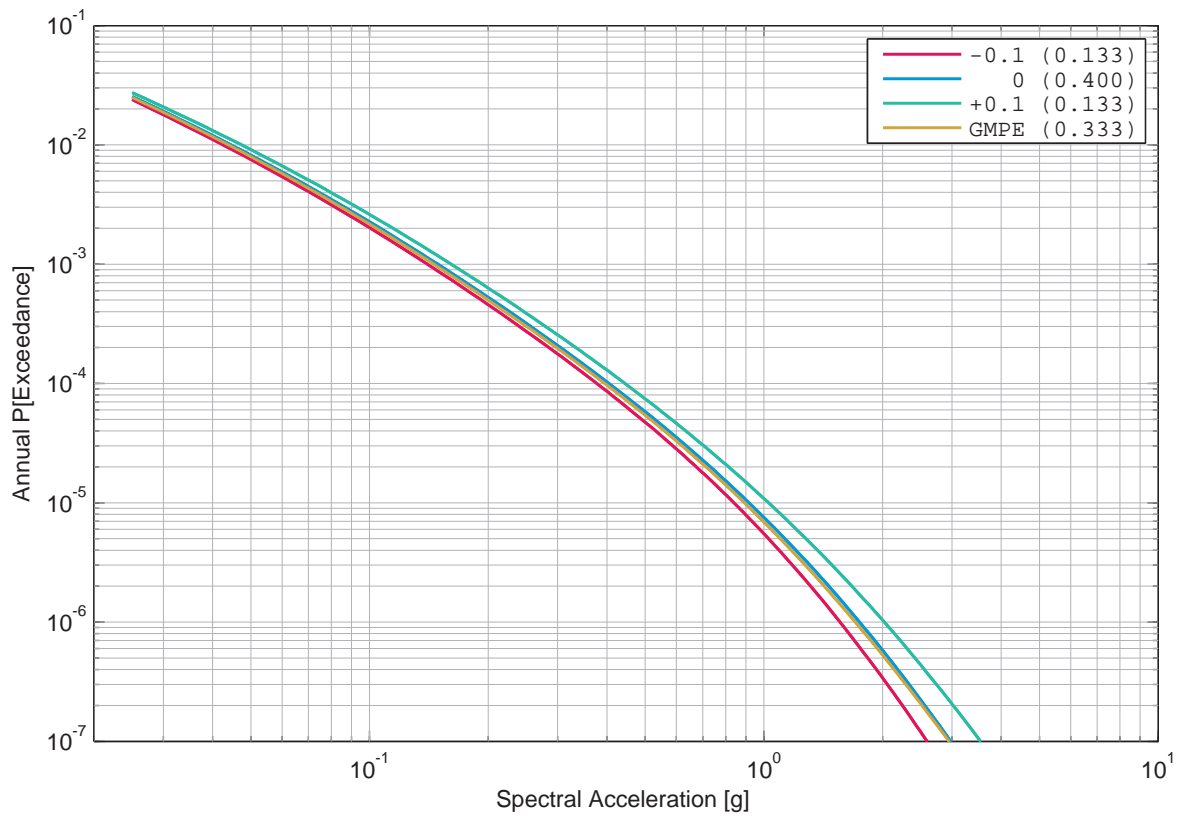


Figure 2.8.66: Beznau, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 5 Hz.

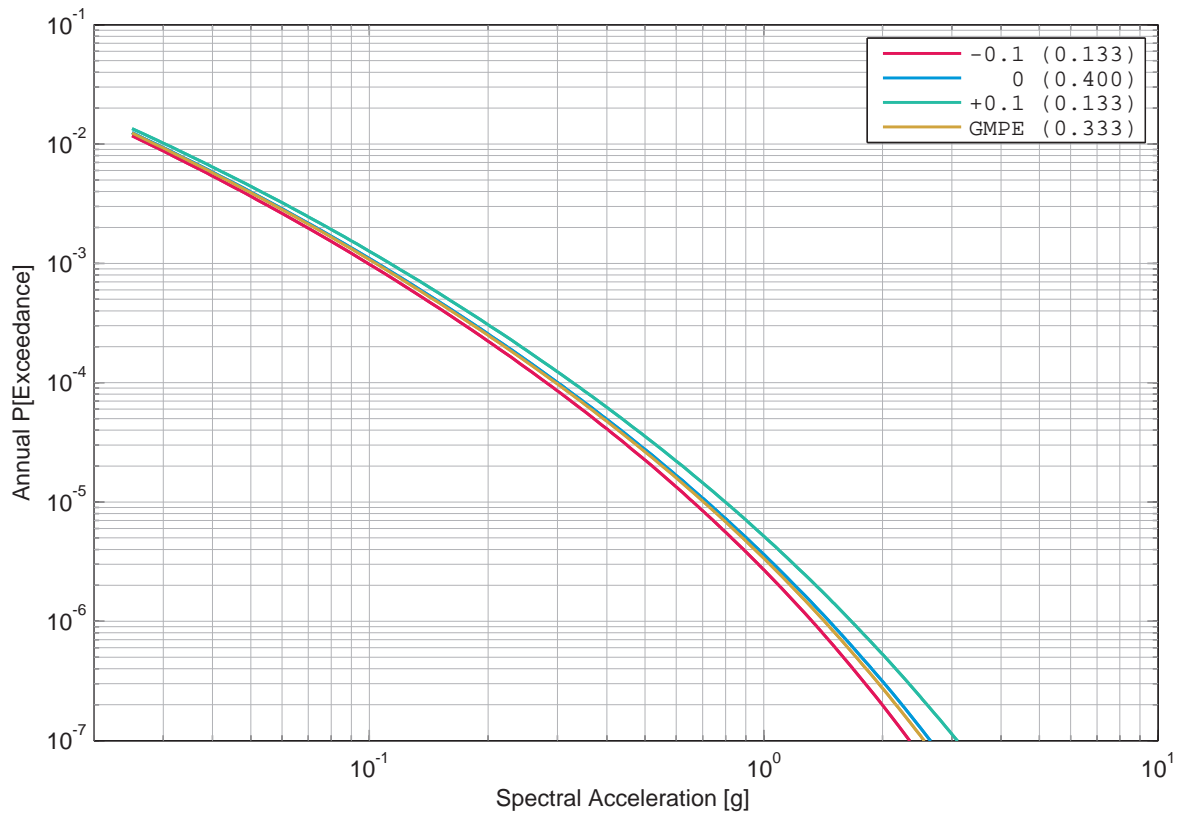


Figure 2.8.67: Beznau, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 33 Hz.

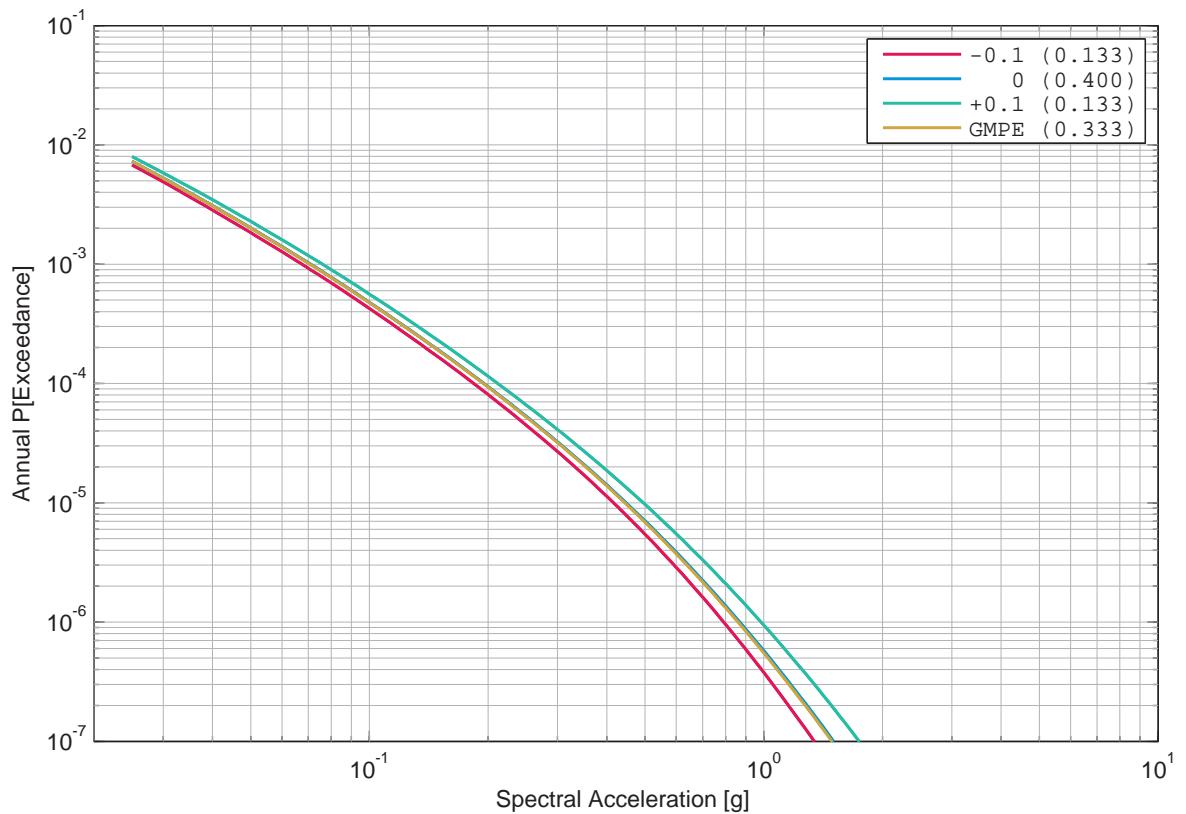


Figure 2.8.68: Beznau, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 100 Hz.

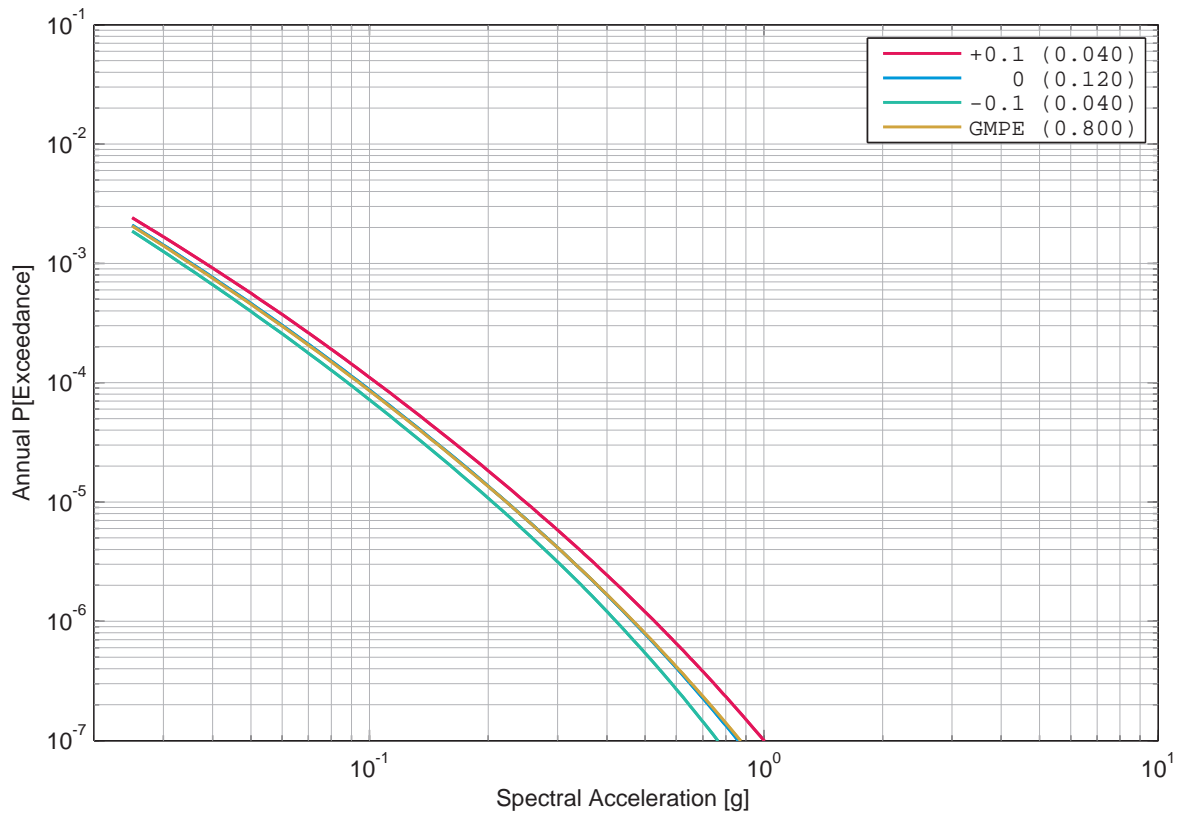


Figure 2.8.69: Beznau, horizontal component, rock, Campbell's sensitivity to the tau uncertainty, 1 Hz.

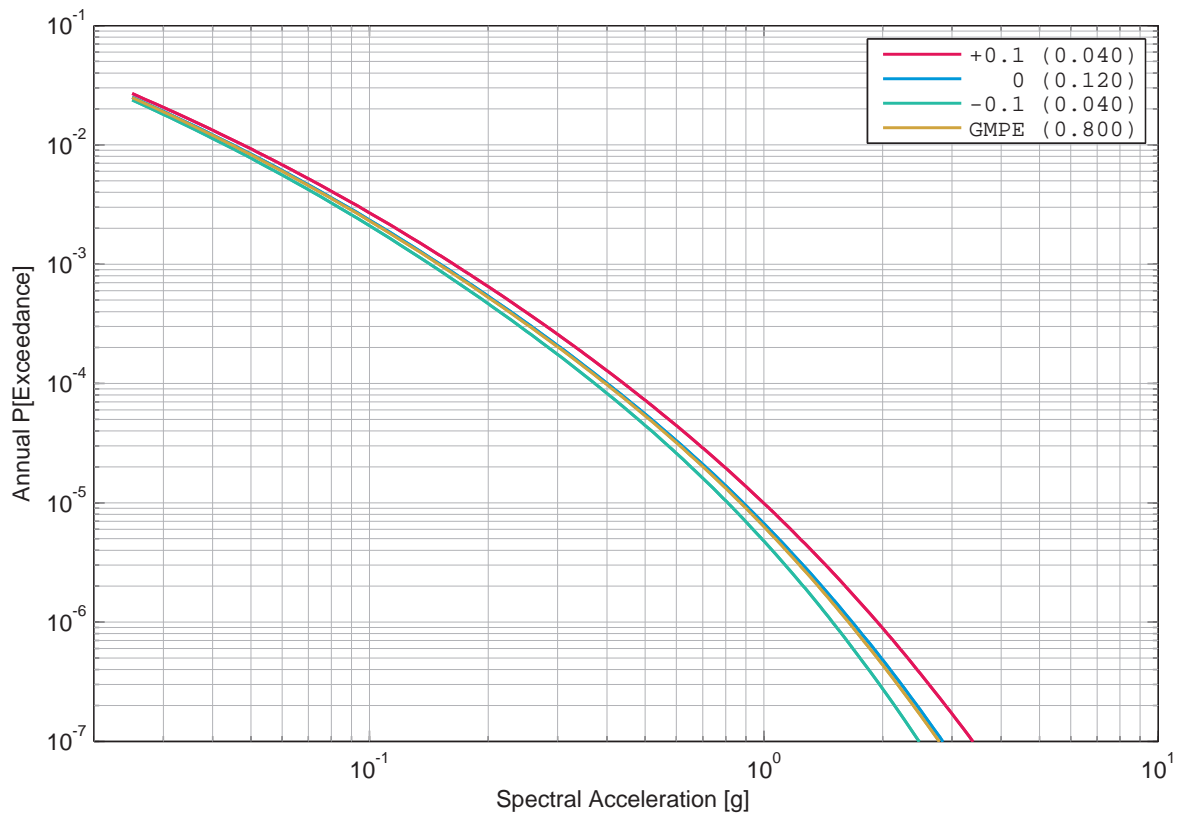


Figure 2.8.70: Beznau, horizontal component, rock, Campbell's sensitivity to the tau uncertainty, 5 Hz.

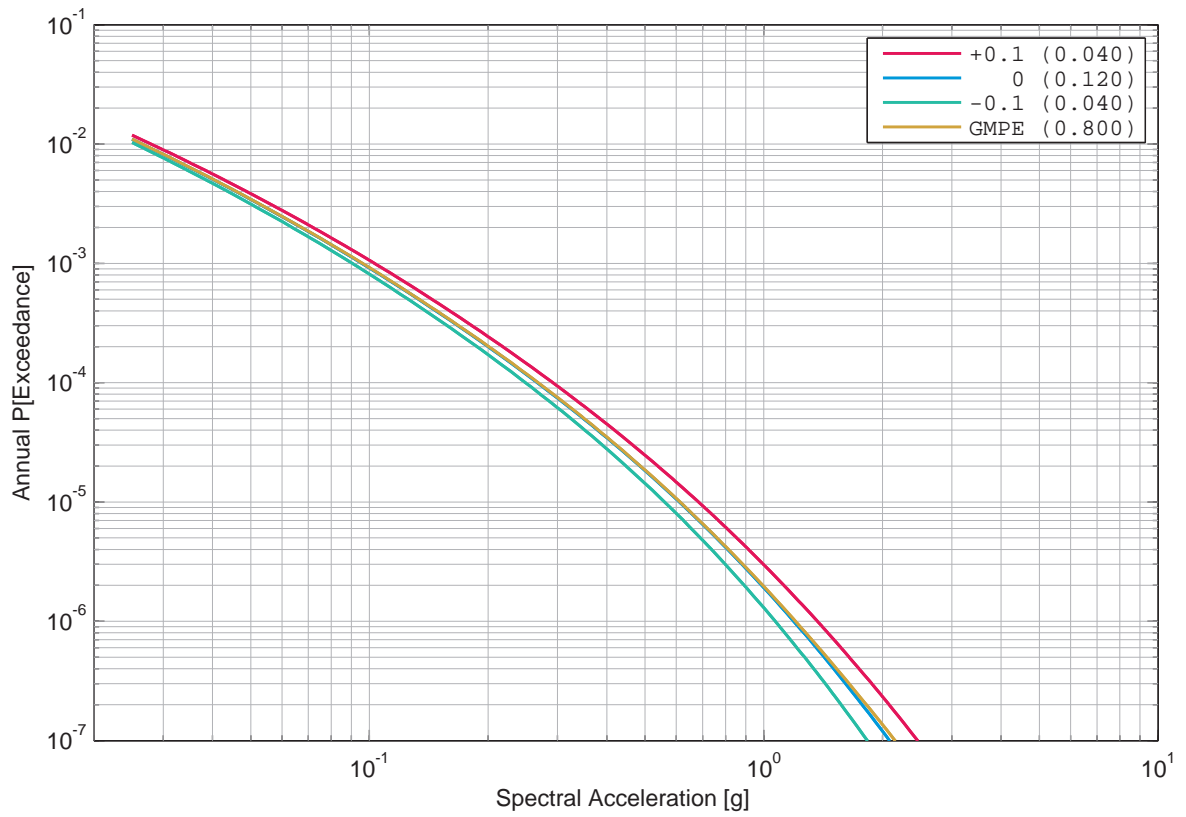


Figure 2.8.71: Beznau, horizontal component, rock, Campbell's sensitivity to the tau uncertainty, 33 Hz.

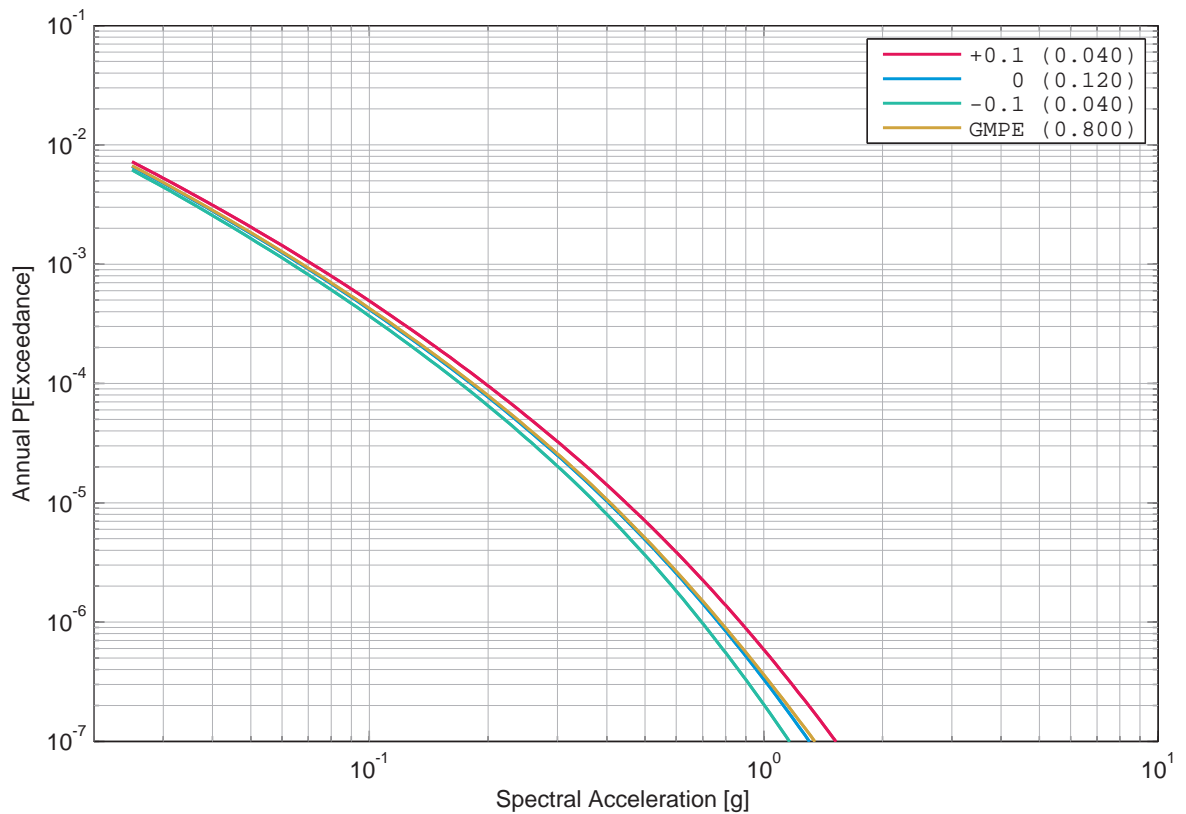


Figure 2.8.72: Beznau, horizontal component, rock, Campbell's sensitivity to the tau uncertainty, 100 Hz.

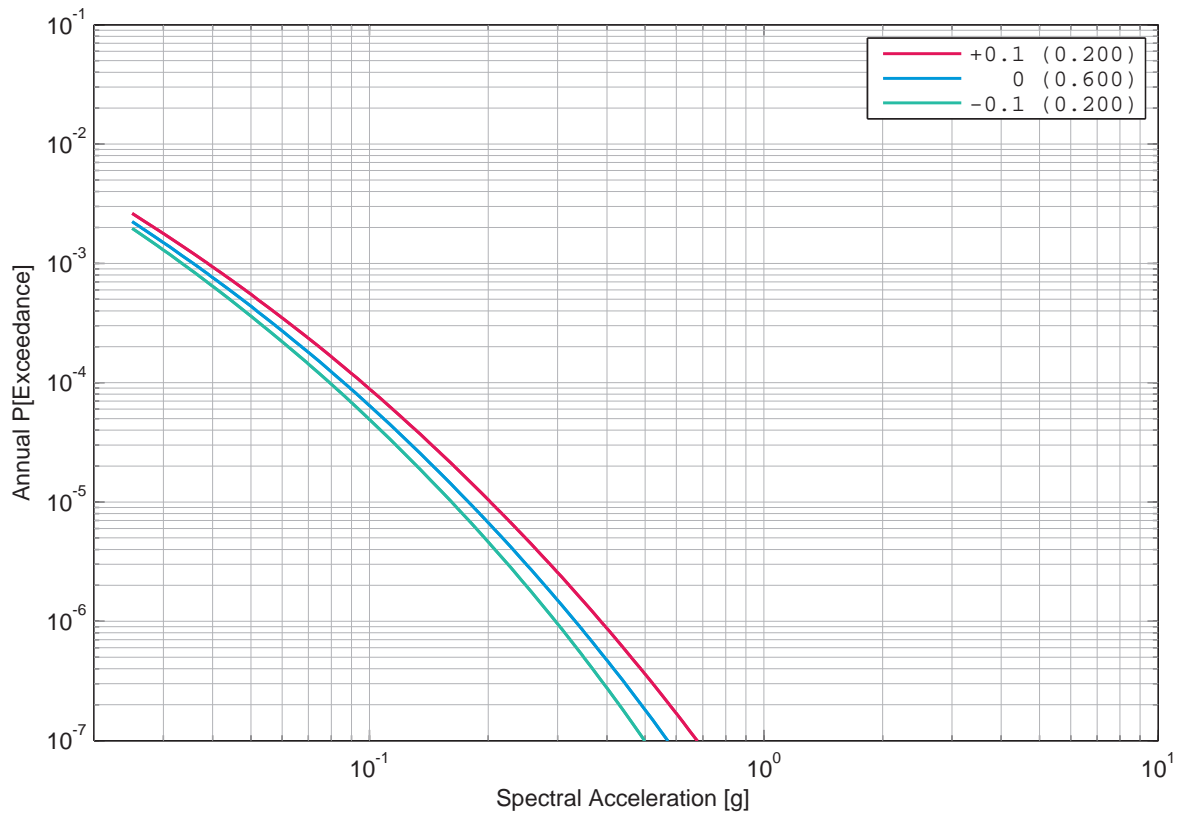


Figure 2.8.73: Beznau, horizontal component, rock, Cotton’s sensitivity to the tau uncertainty, 1 Hz.

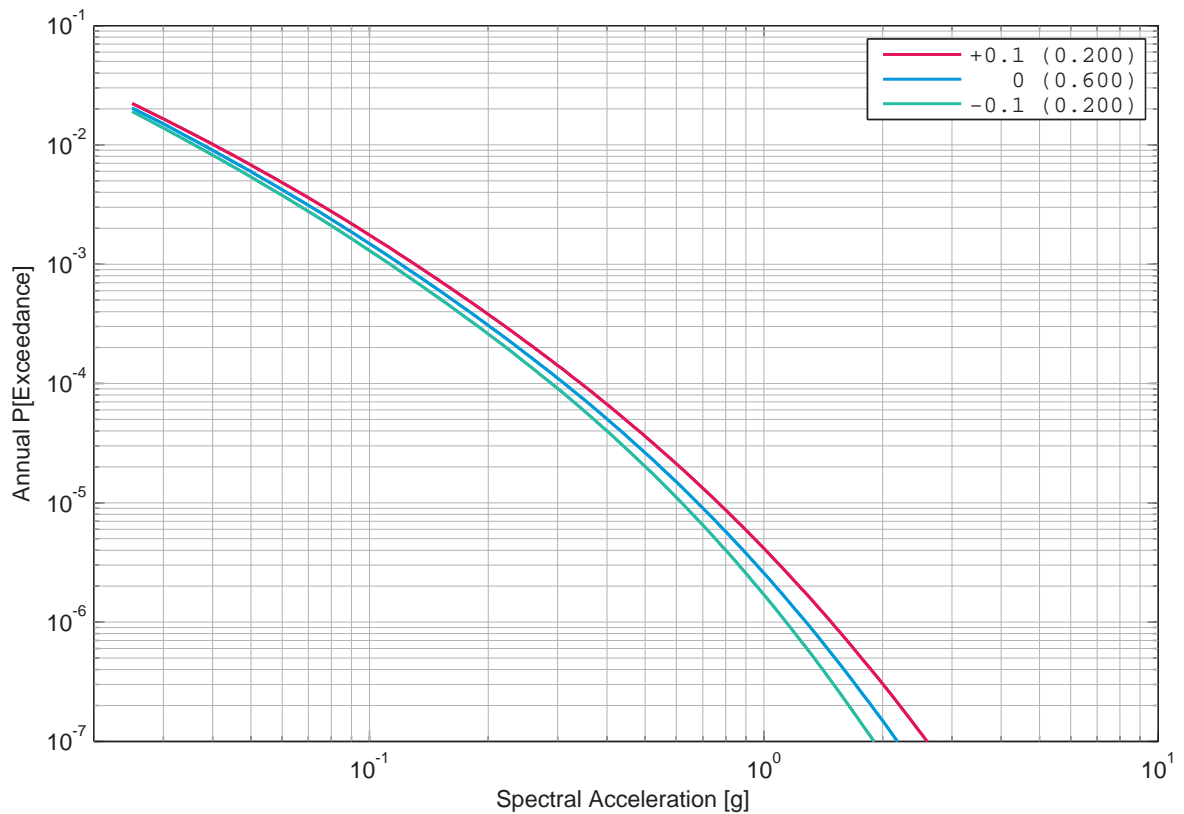


Figure 2.8.74: Beznau, horizontal component, rock, Cotton’s sensitivity to the tau uncertainty, 5 Hz.

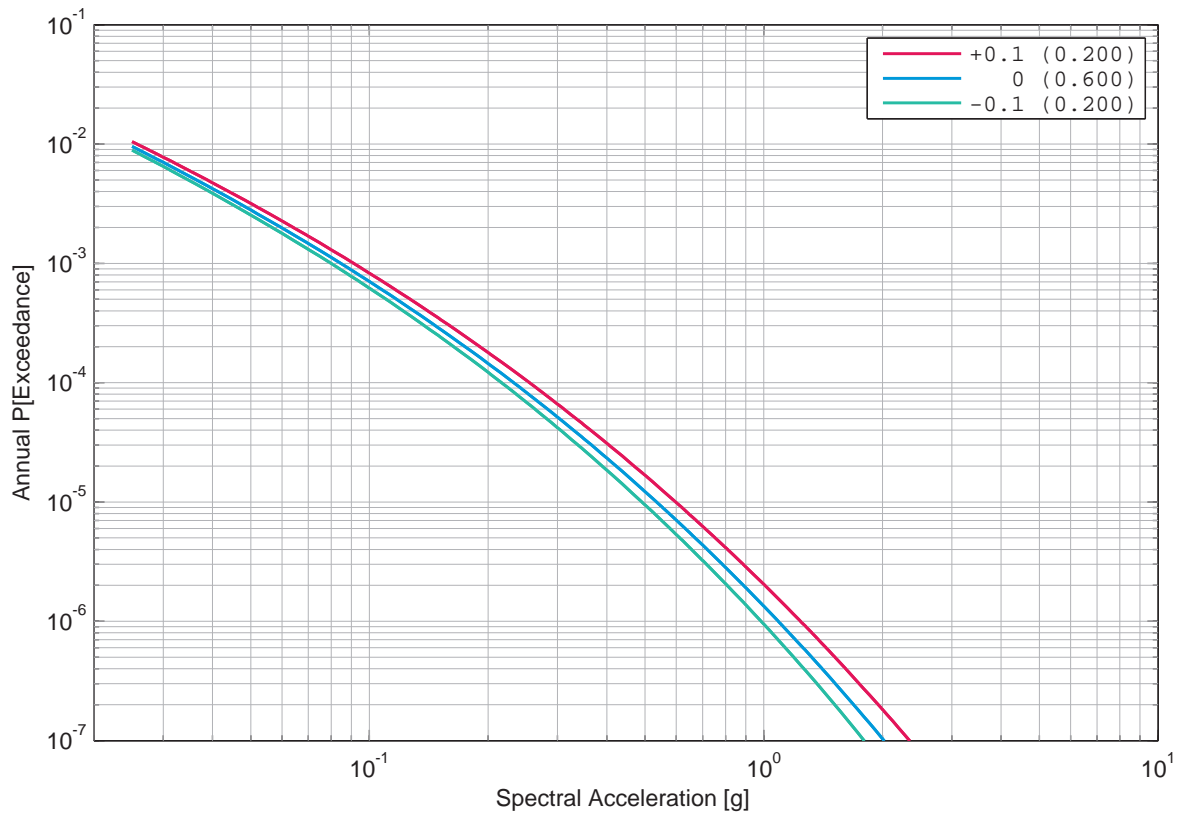


Figure 2.8.75: Beznau, horizontal component, rock, Cotton’s sensitivity to the tau uncertainty, 33 Hz.

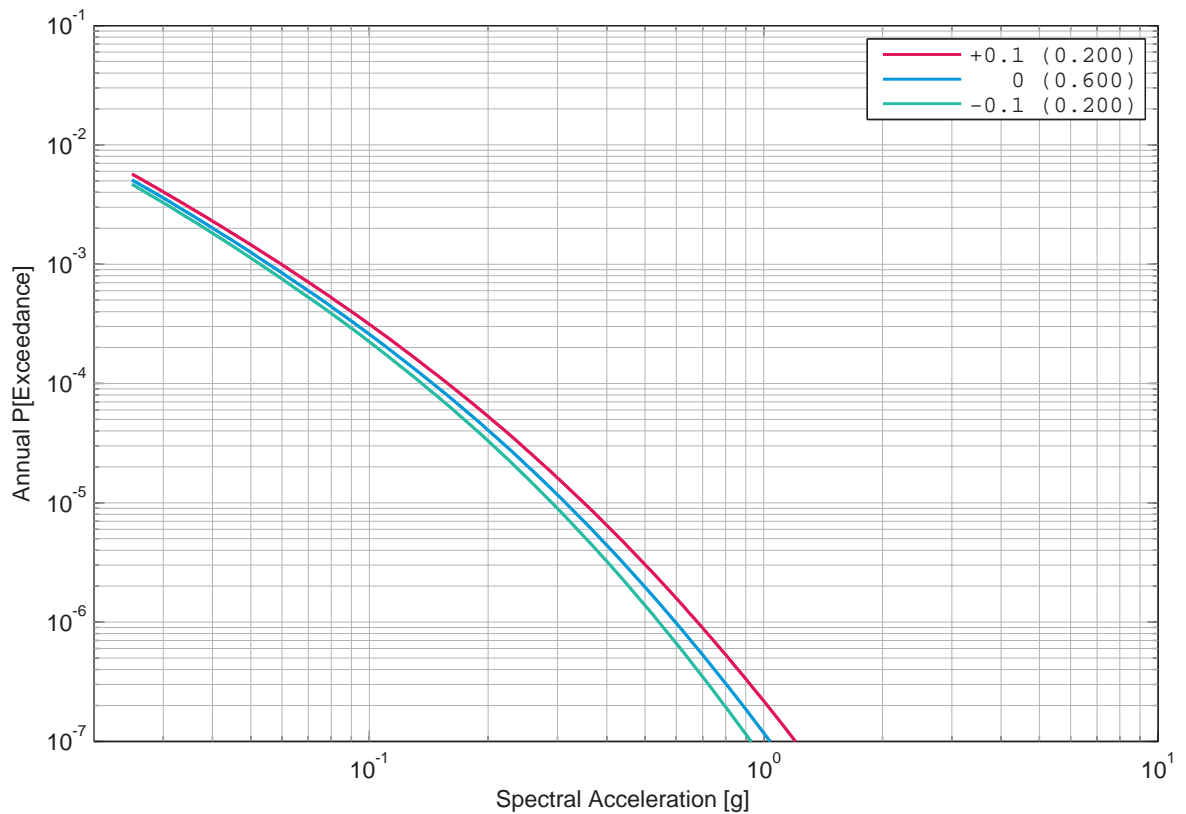


Figure 2.8.76: Beznau, horizontal component, rock, Cotton’s sensitivity to the tau uncertainty, 100 Hz.

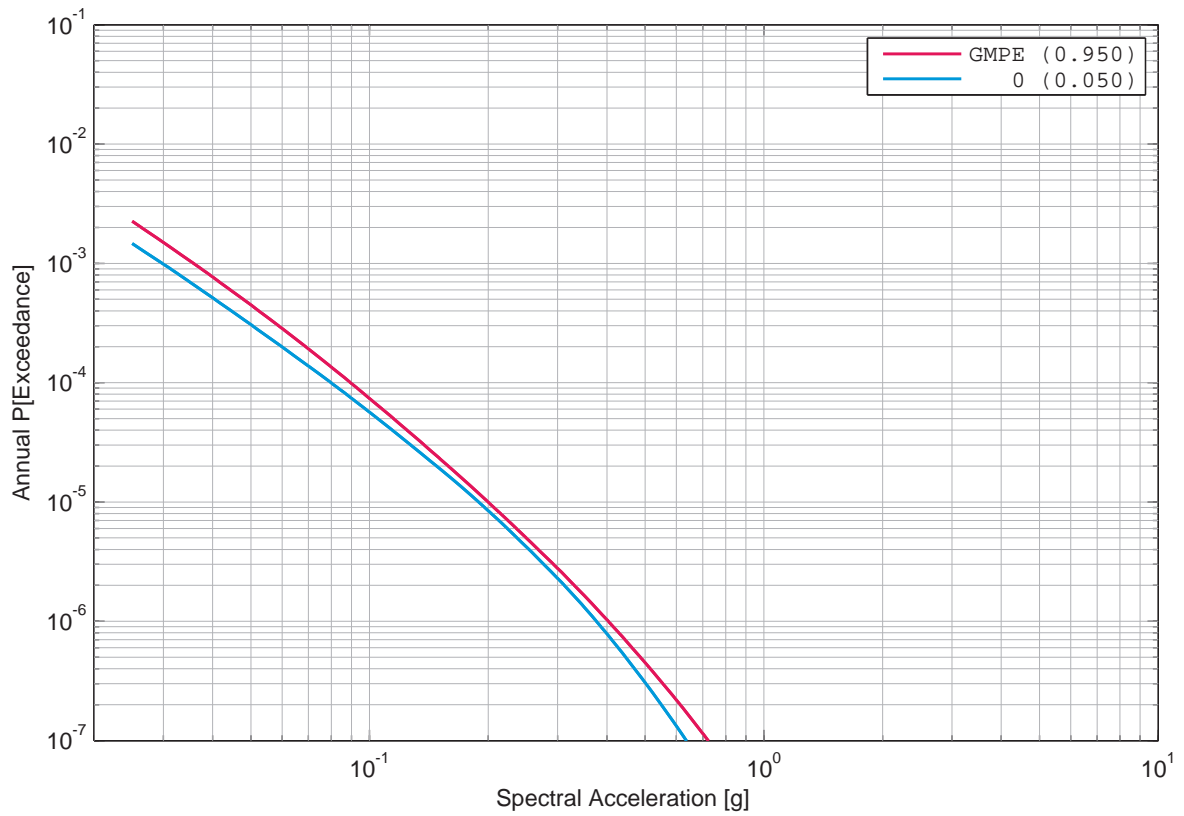


Figure 2.8.77: Beznau, horizontal component, rock, Faeh's sensitivity to the tau uncertainty, 1 Hz.

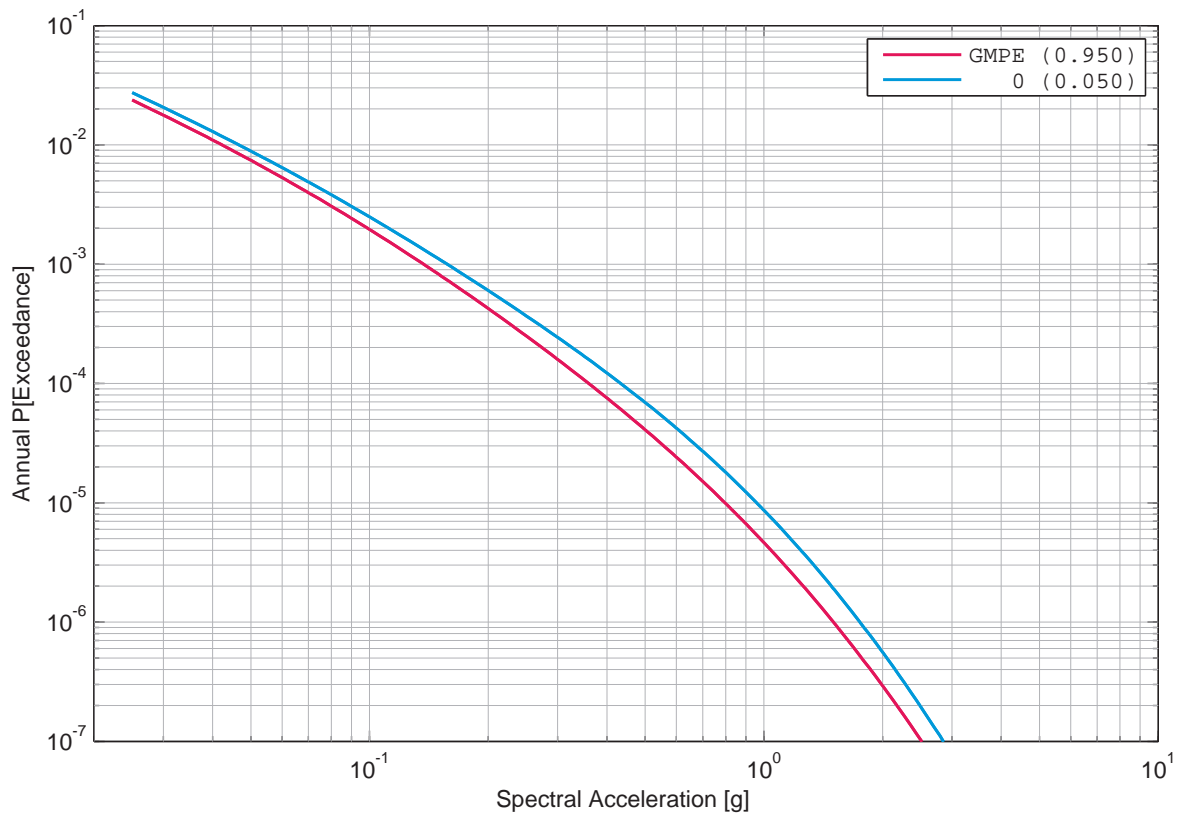


Figure 2.8.78: Beznau, horizontal component, rock, Faeh's sensitivity to the tau uncertainty, 5 Hz.

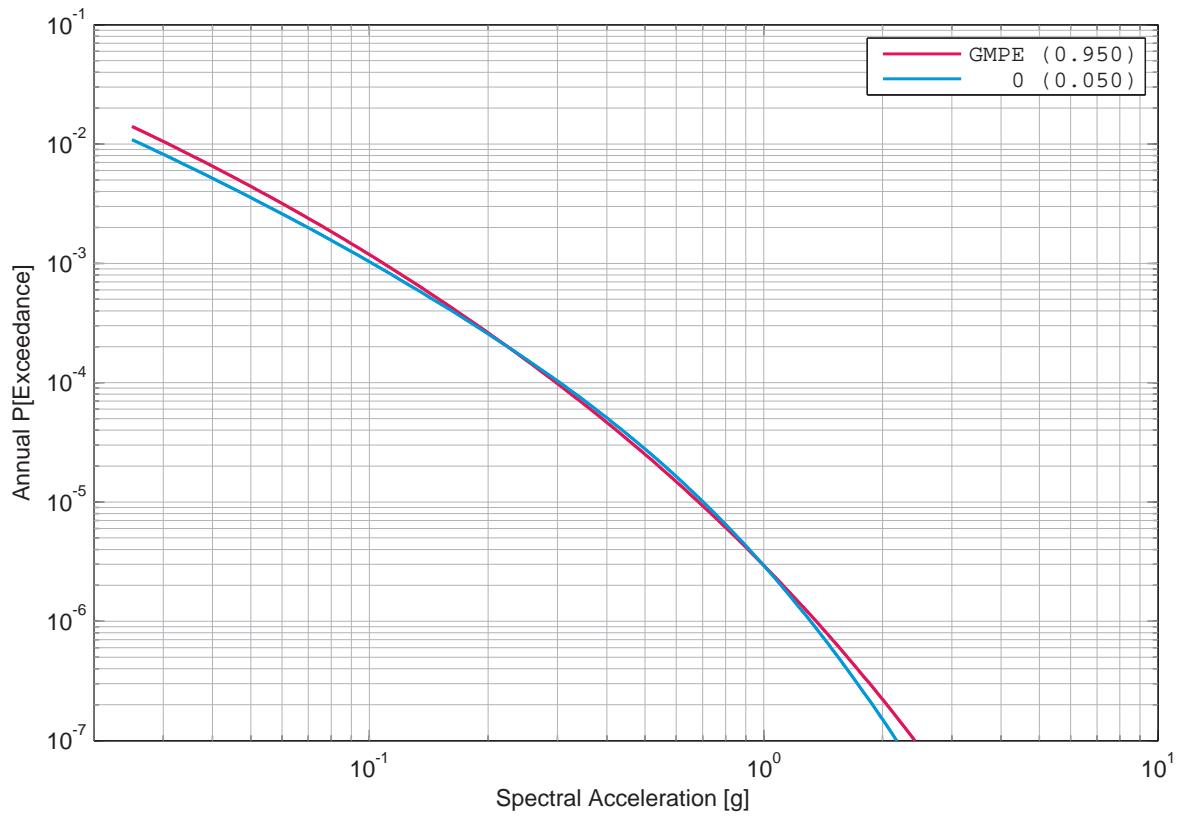


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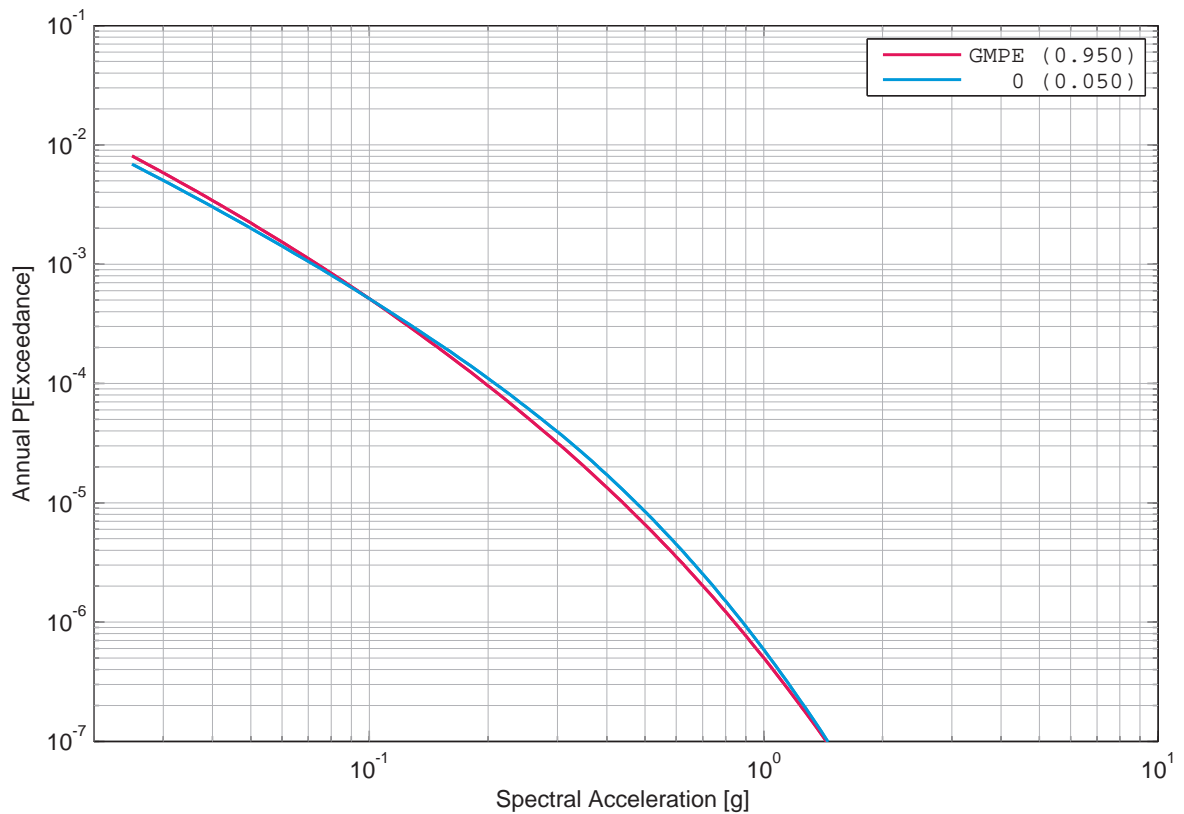


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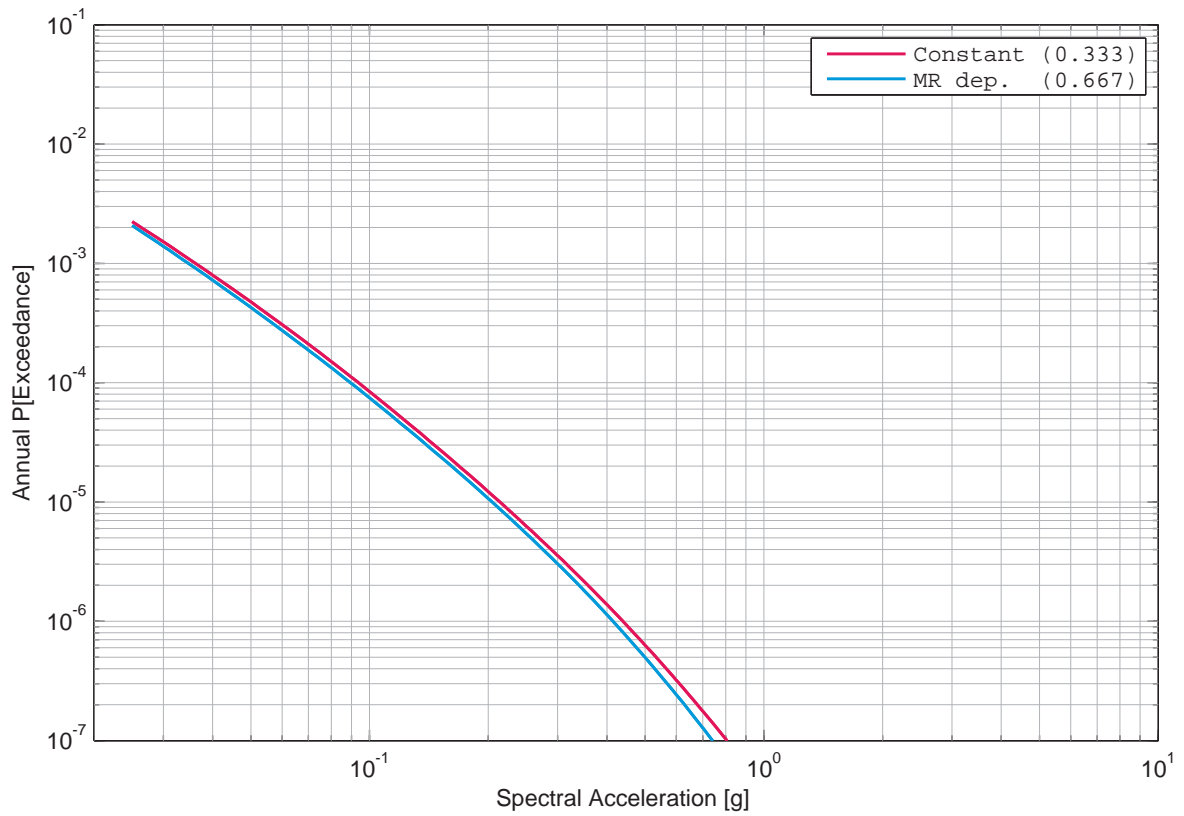


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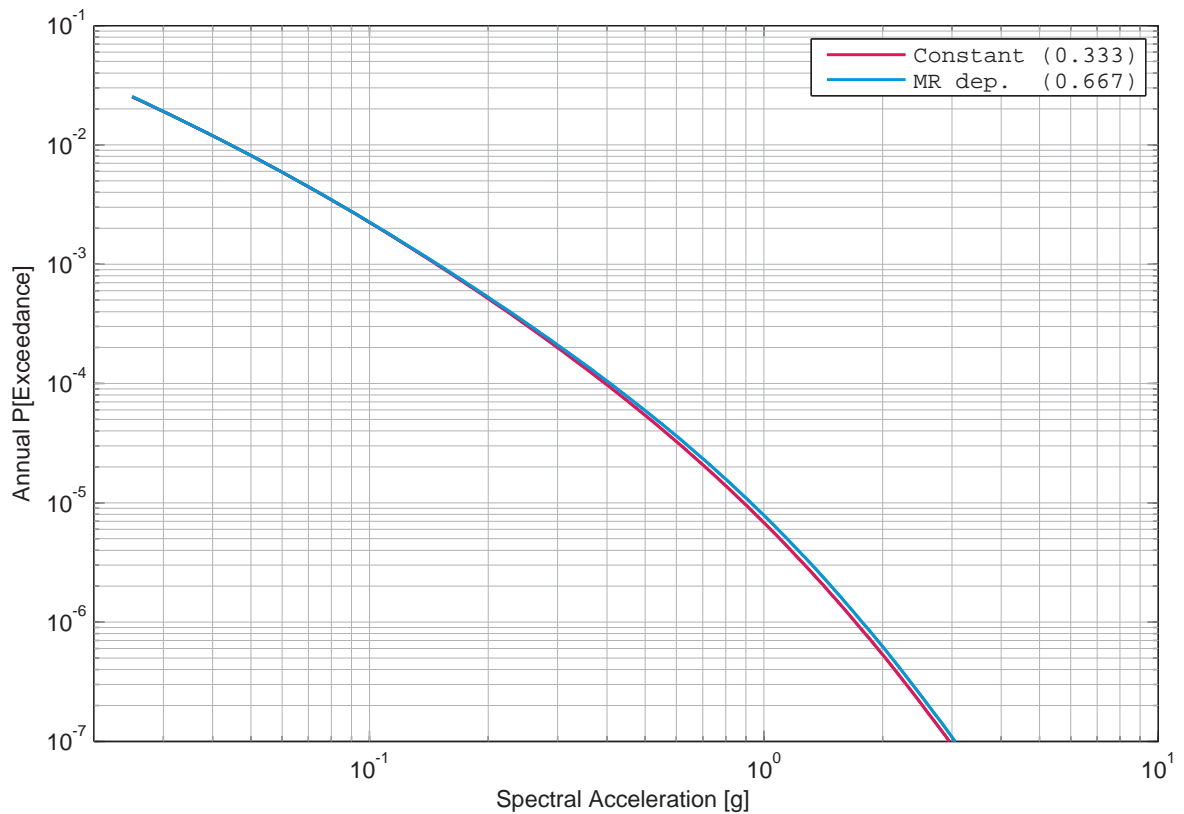


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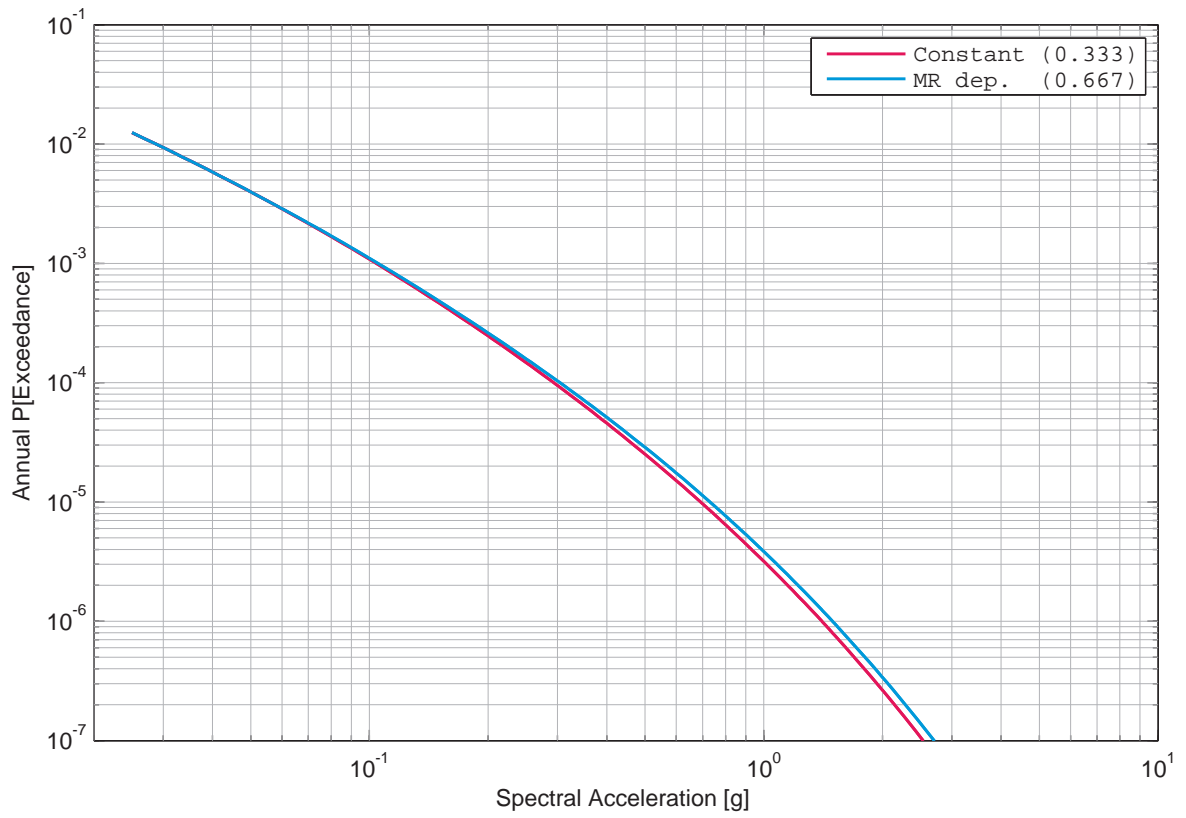


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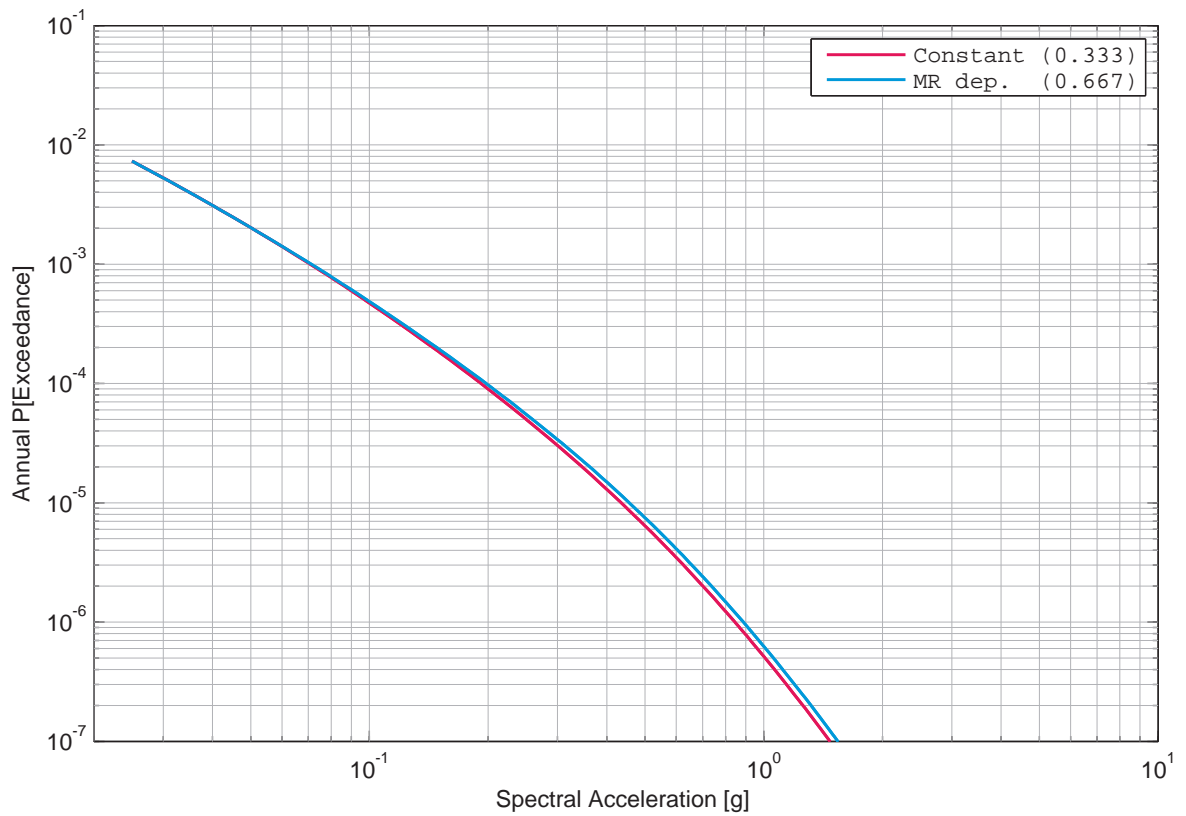


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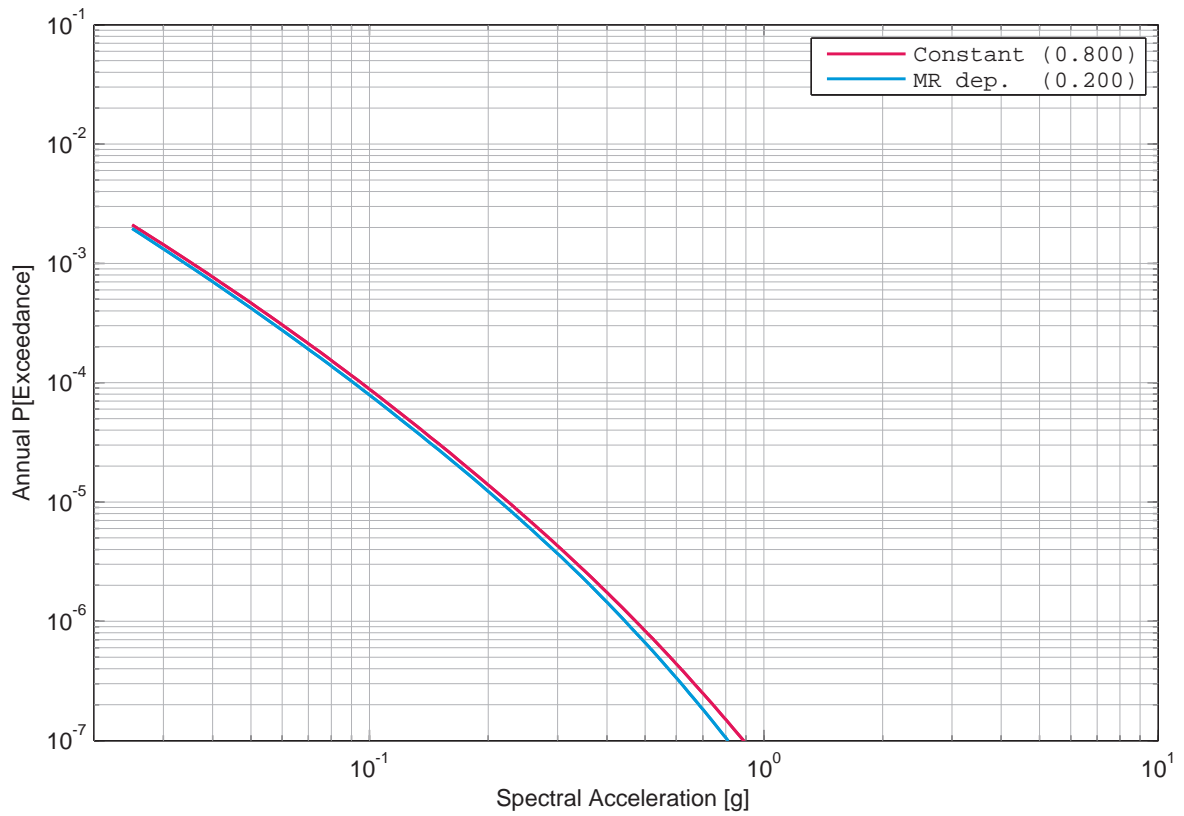


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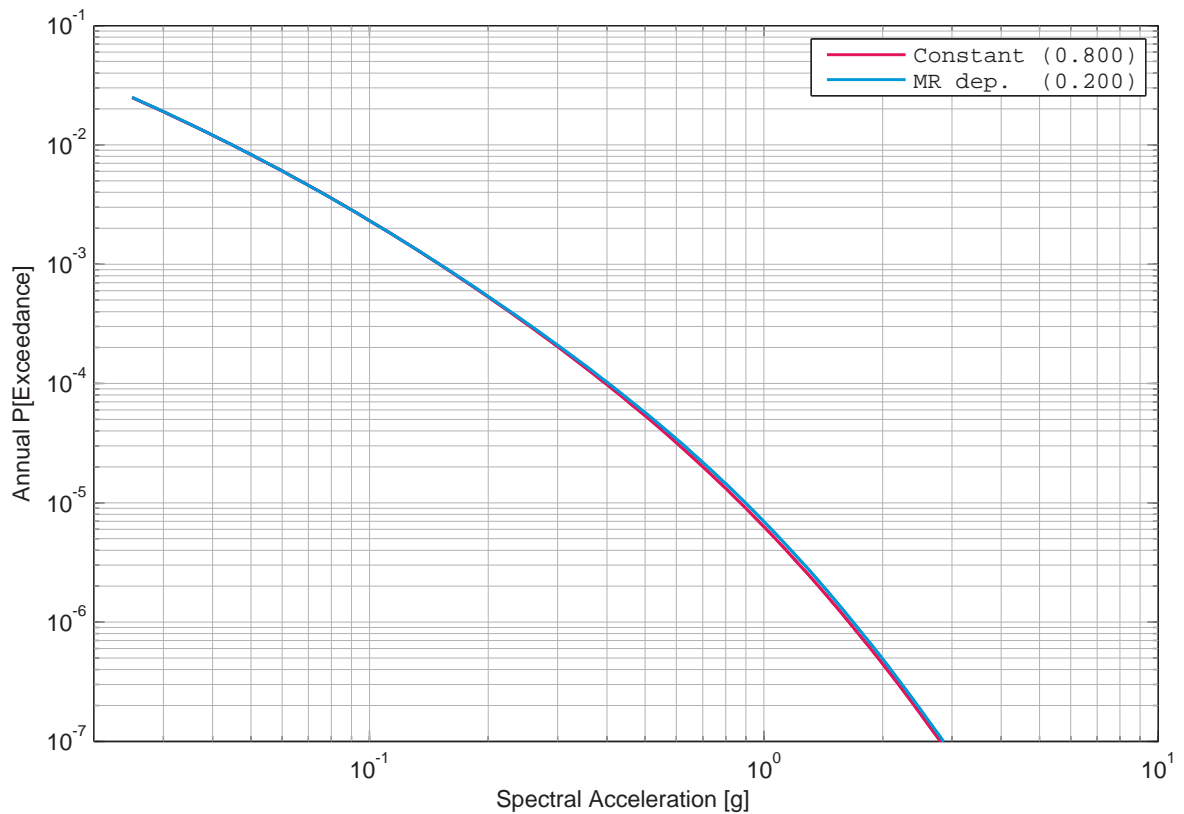


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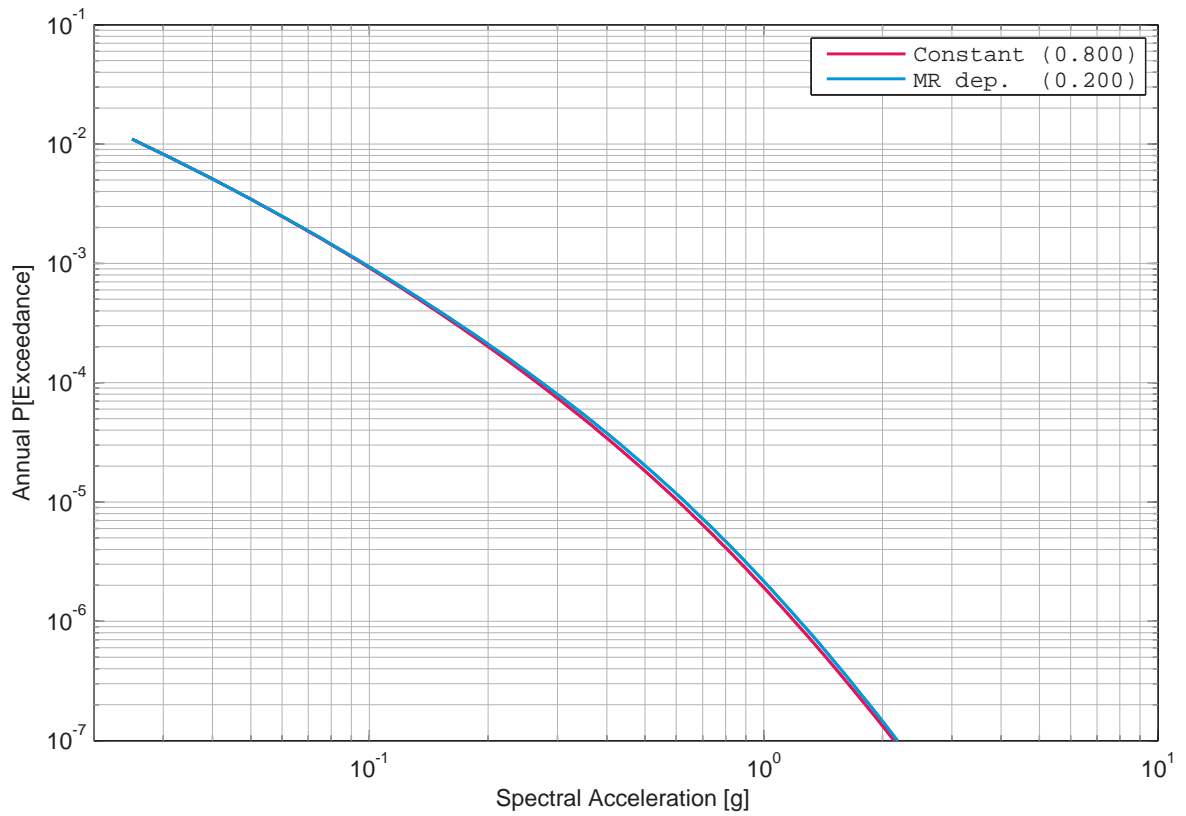


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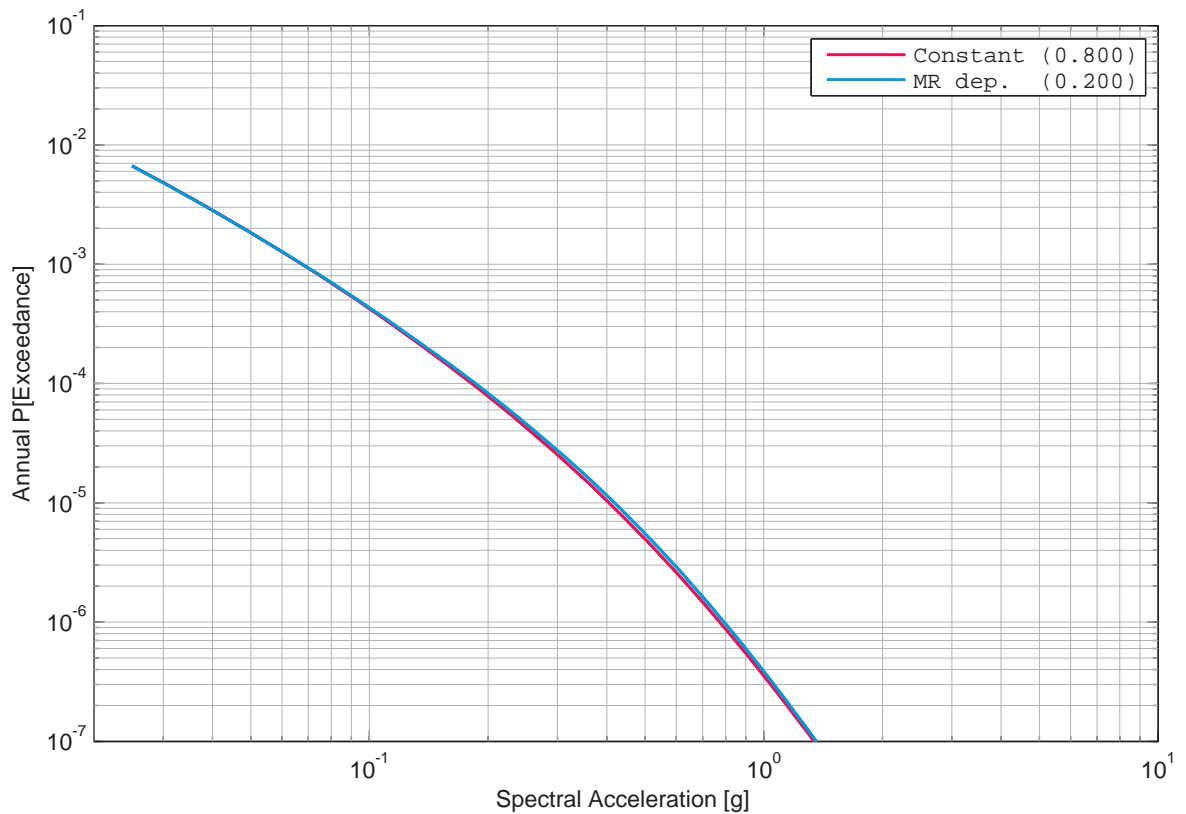


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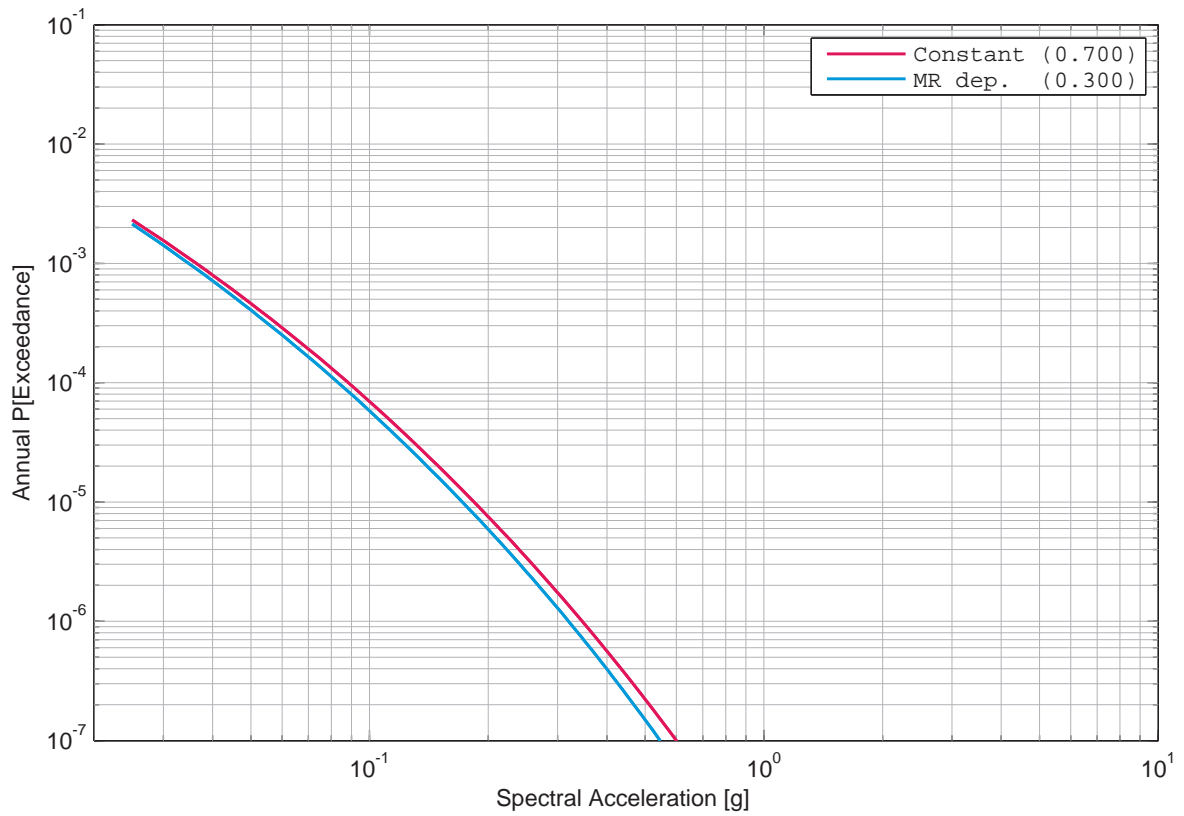


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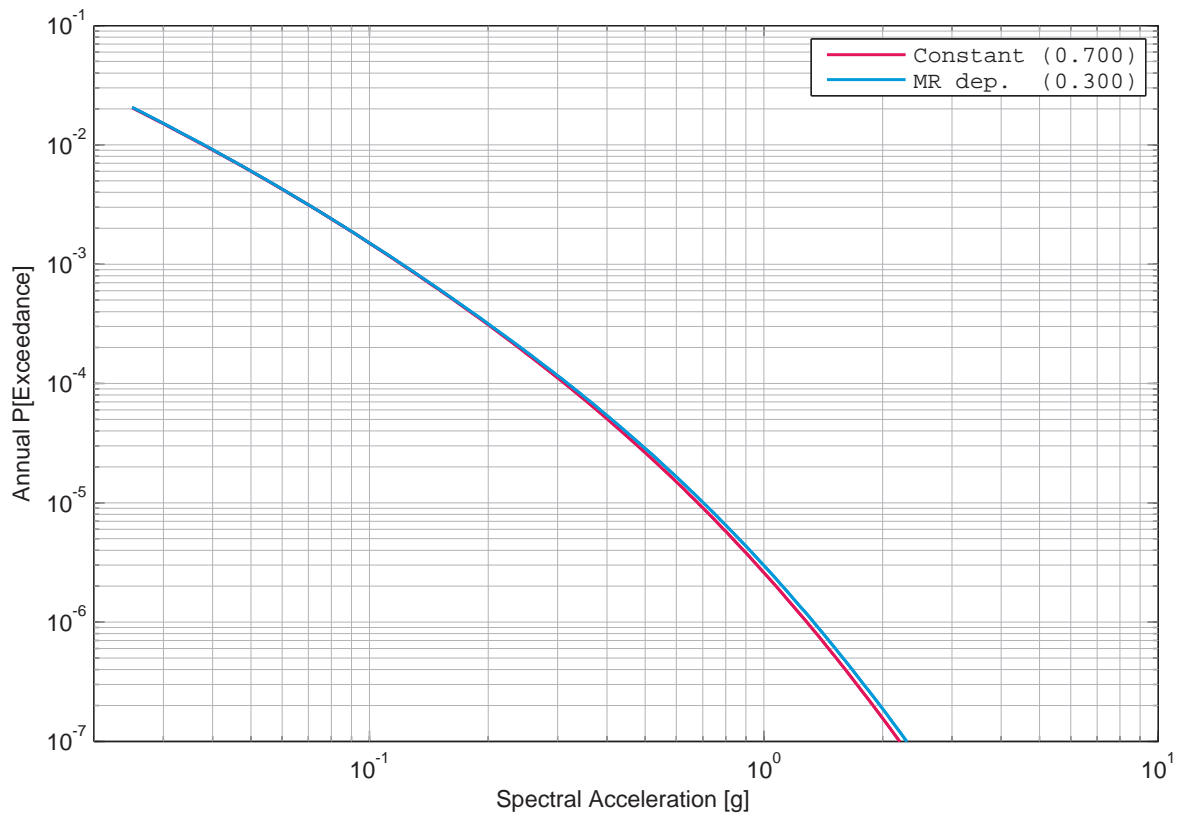


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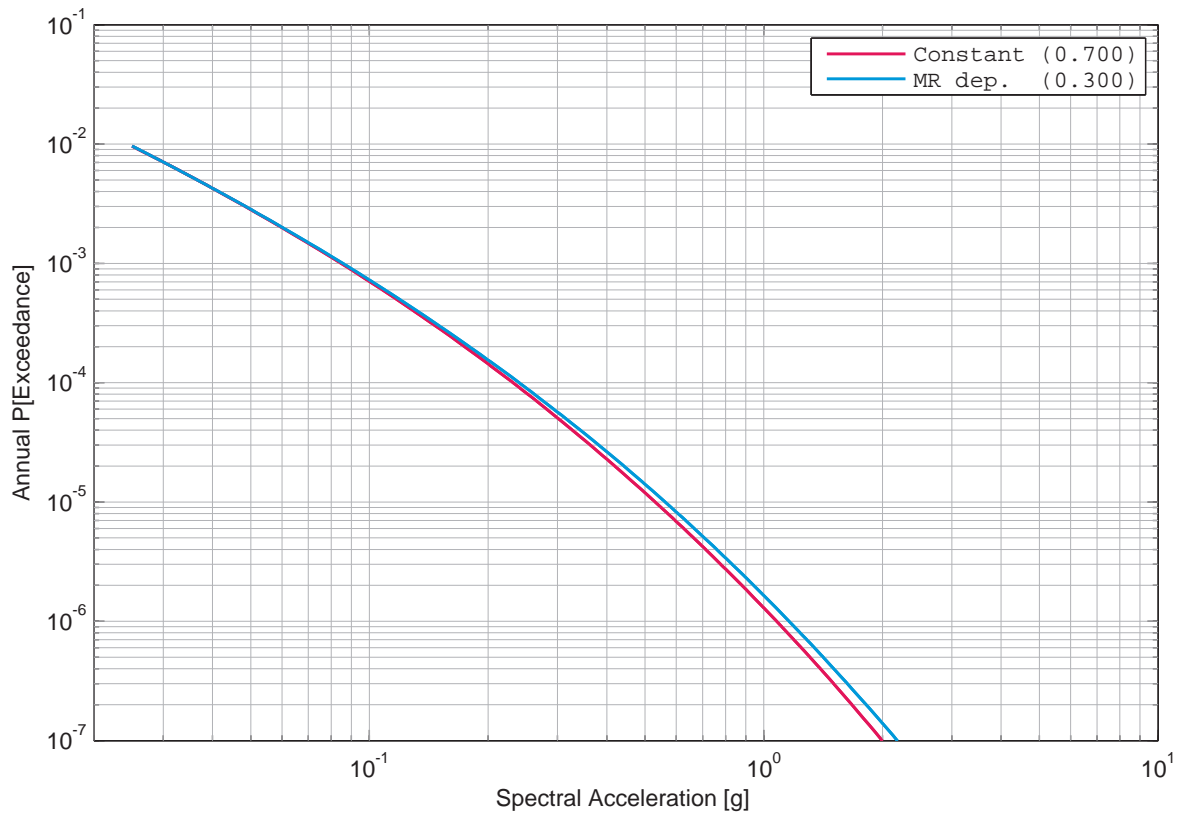


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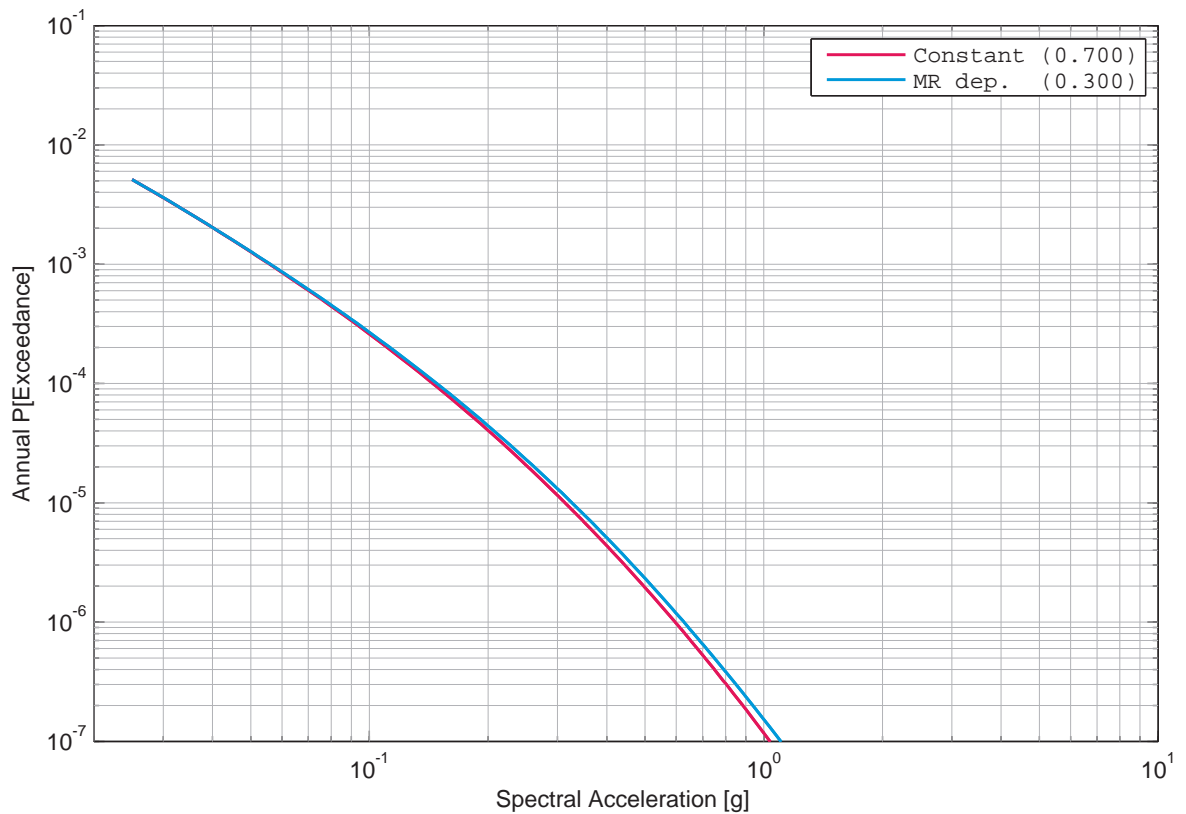


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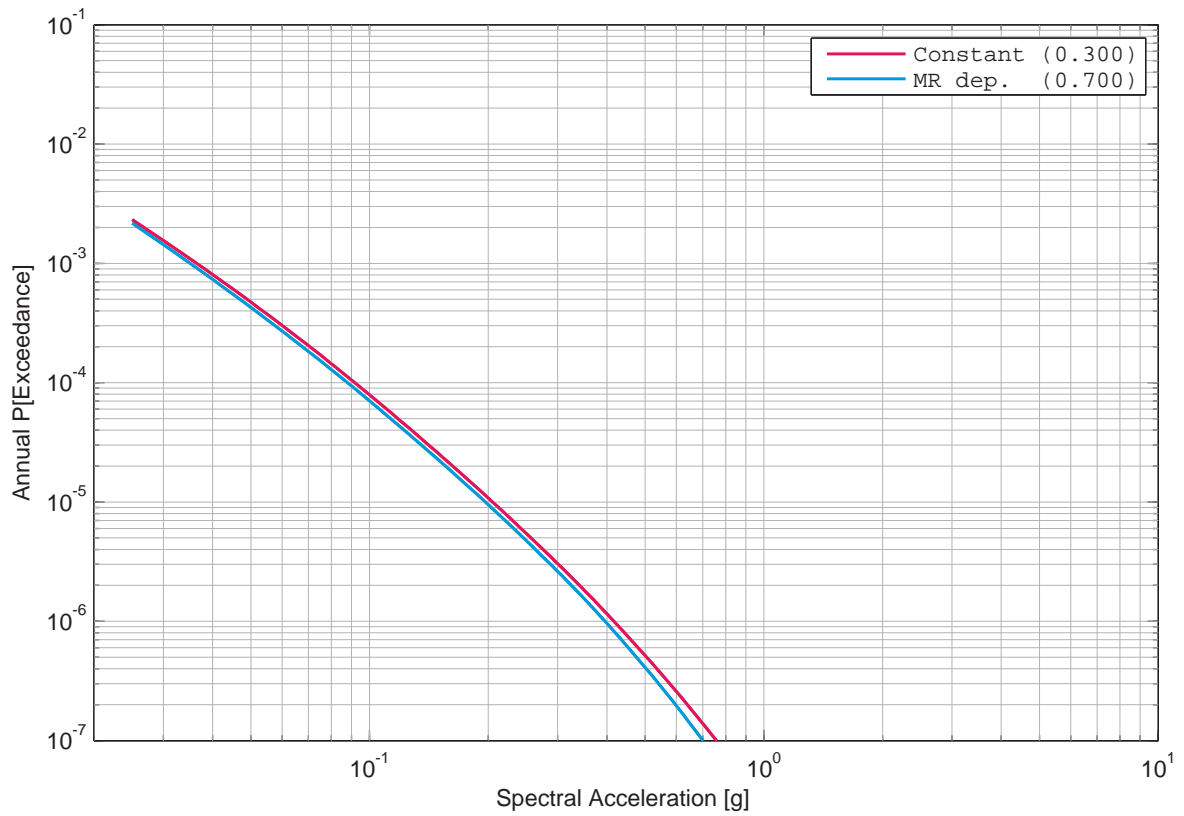


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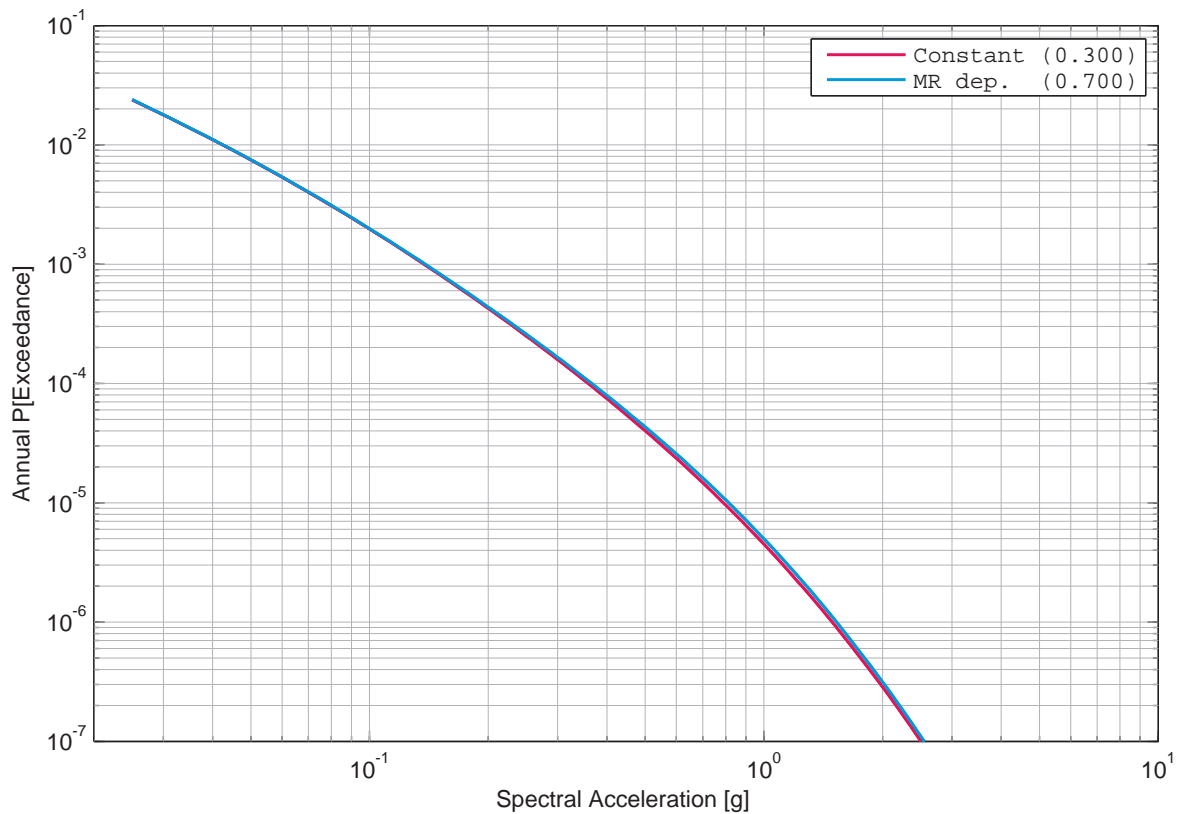


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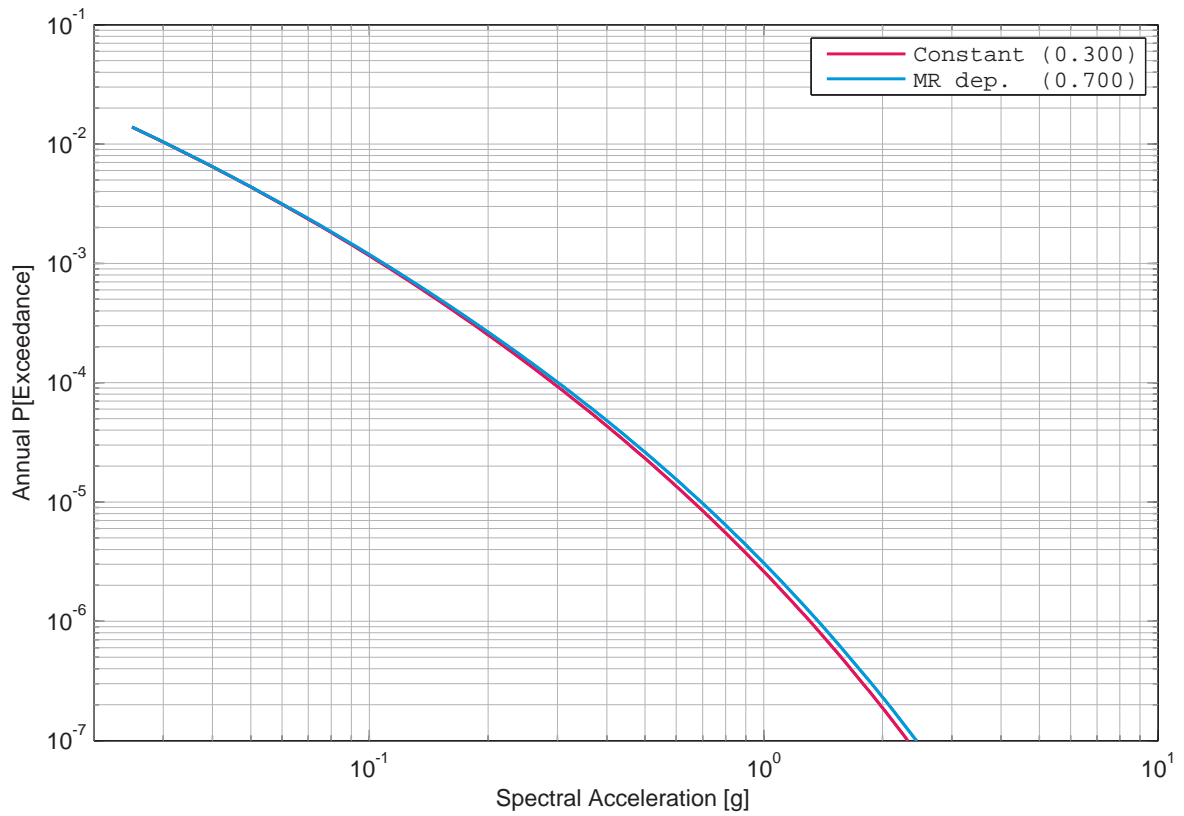


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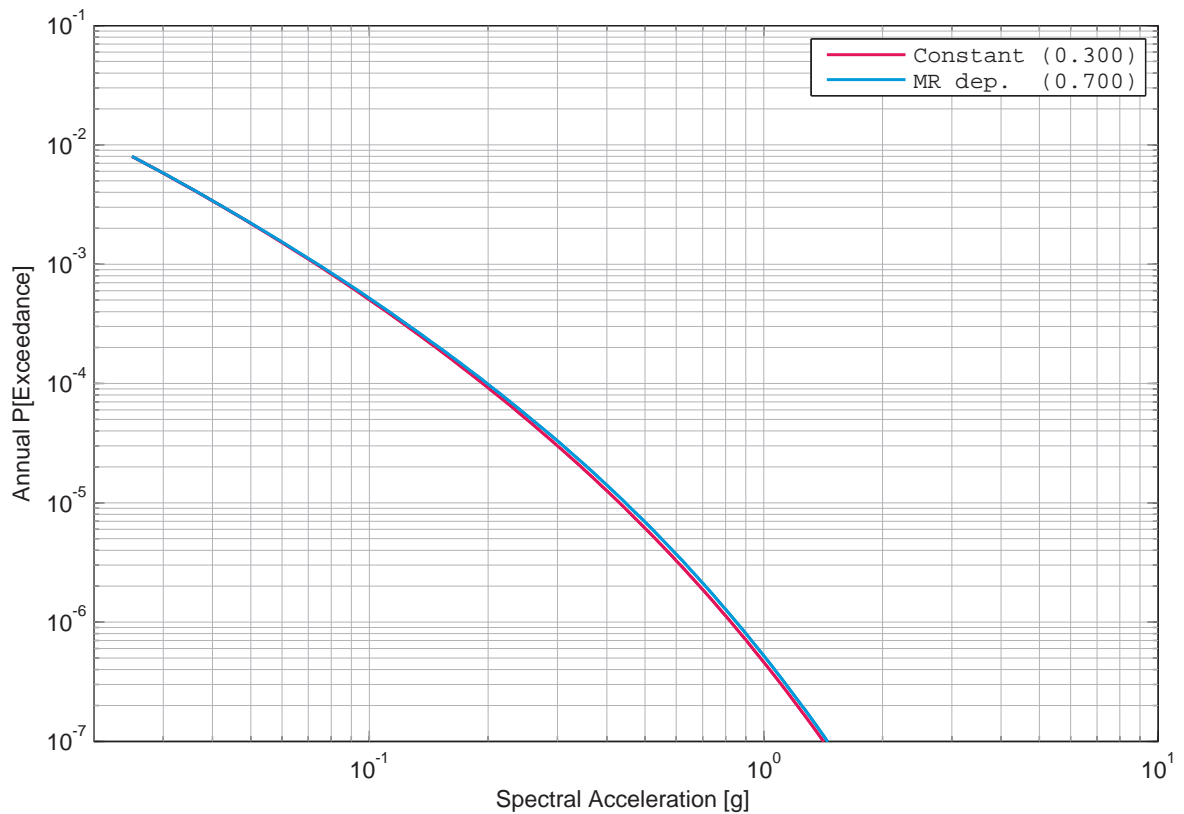


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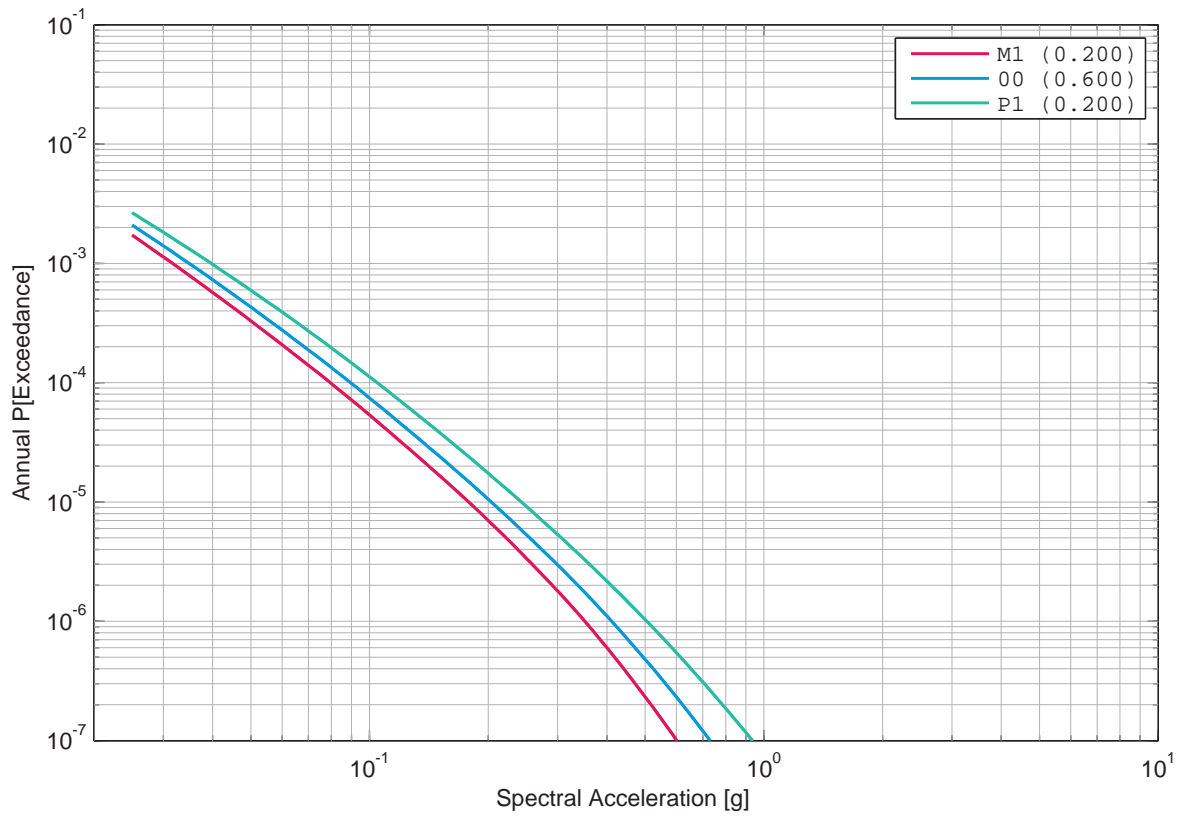


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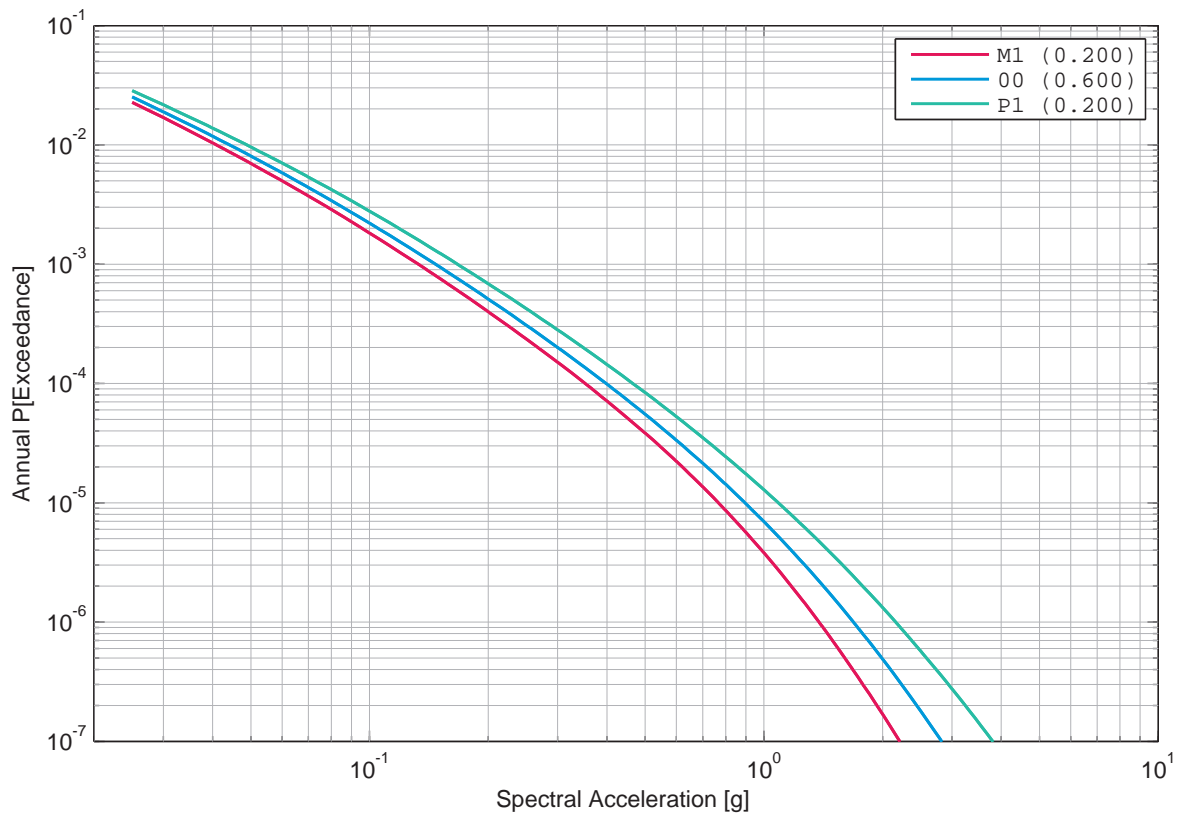


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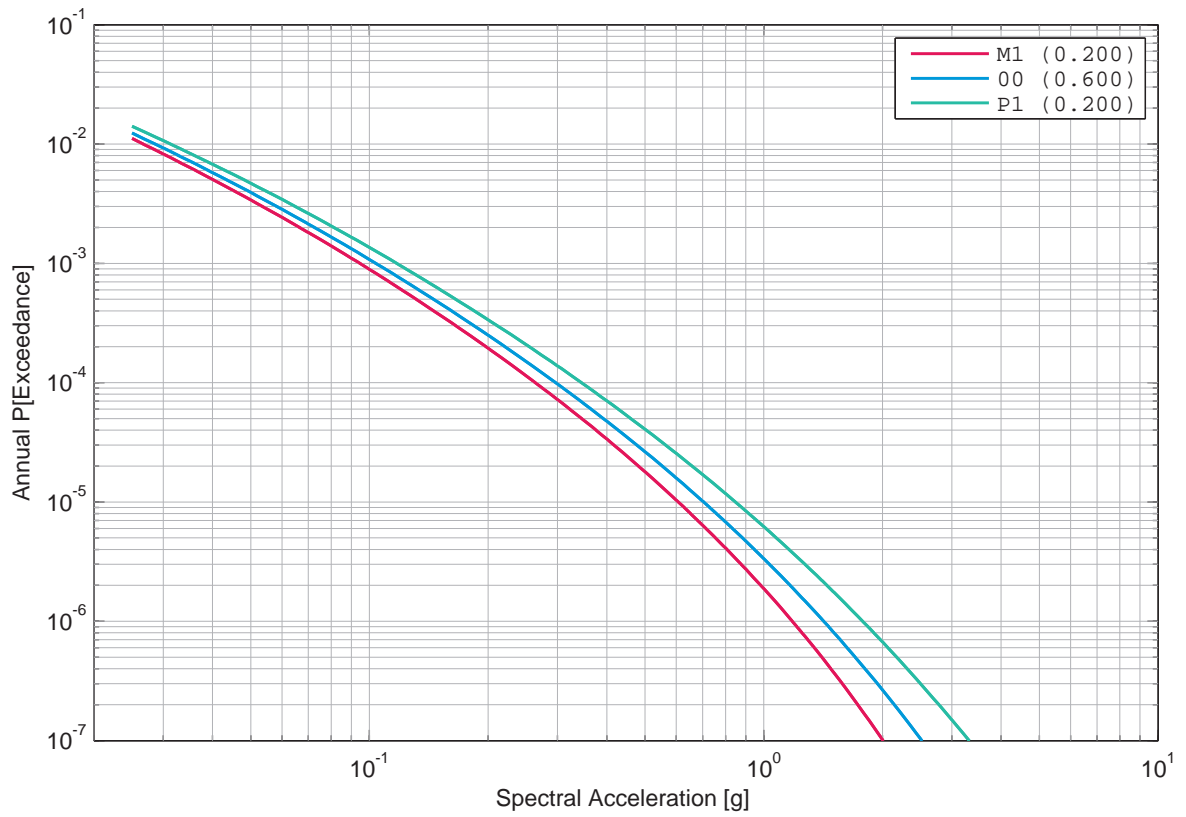


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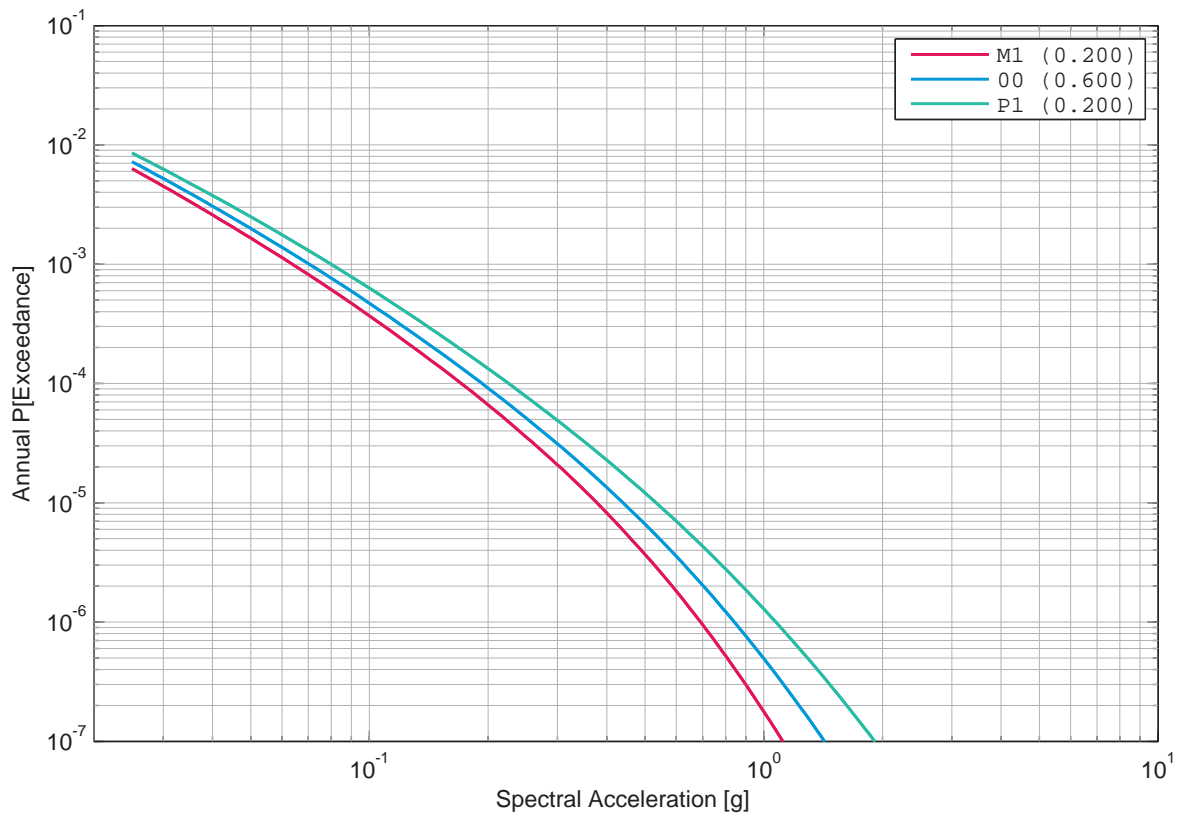


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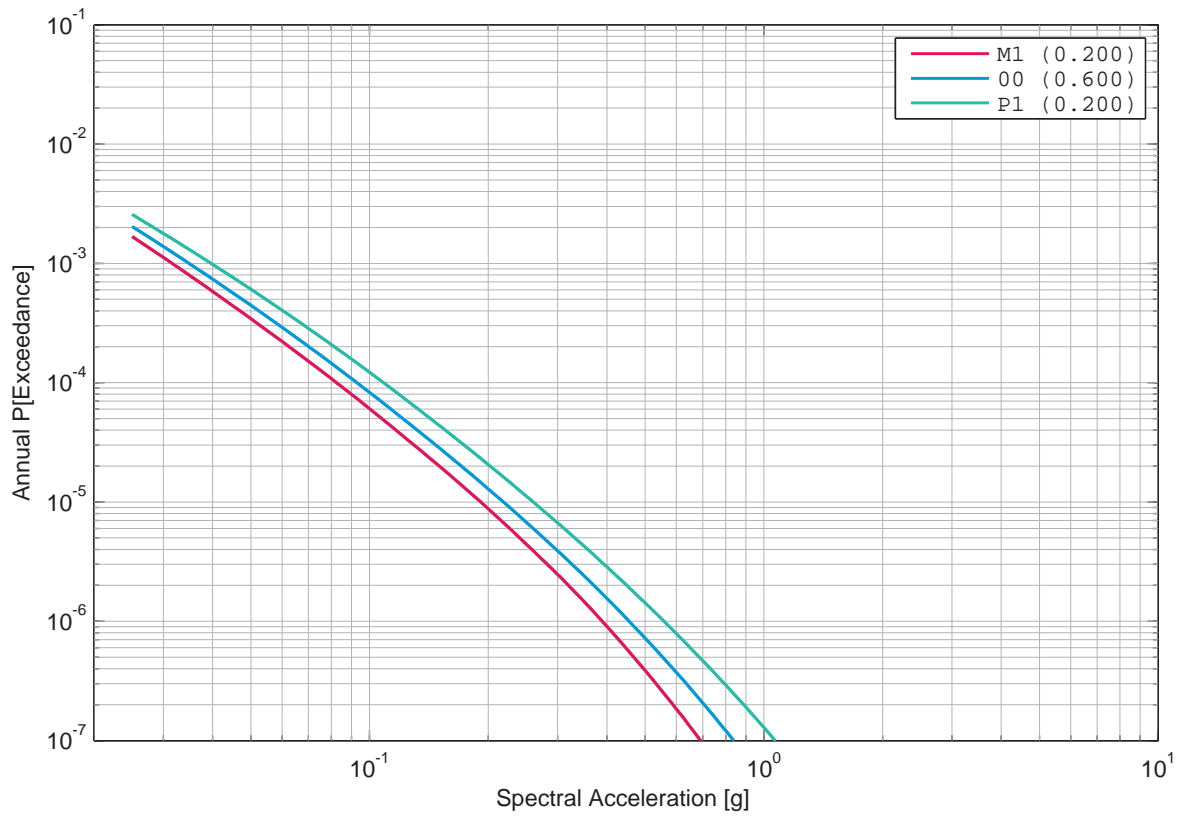


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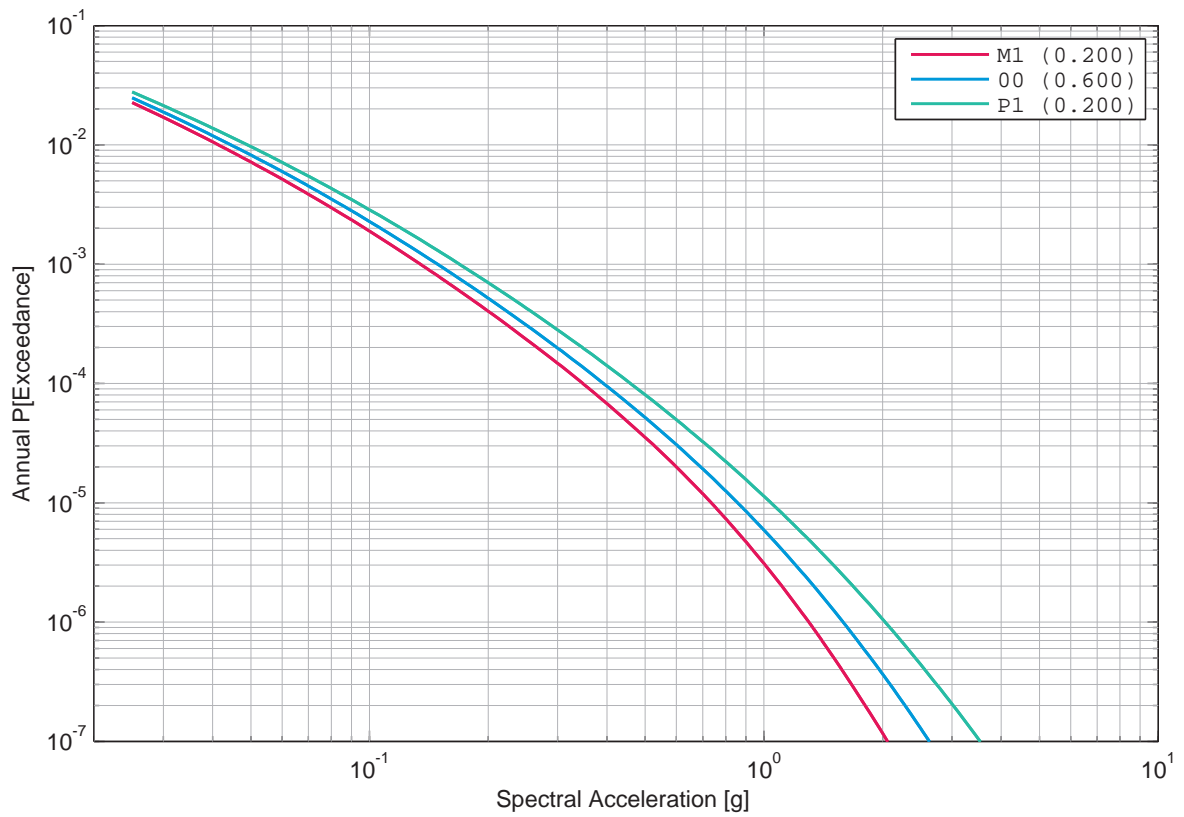


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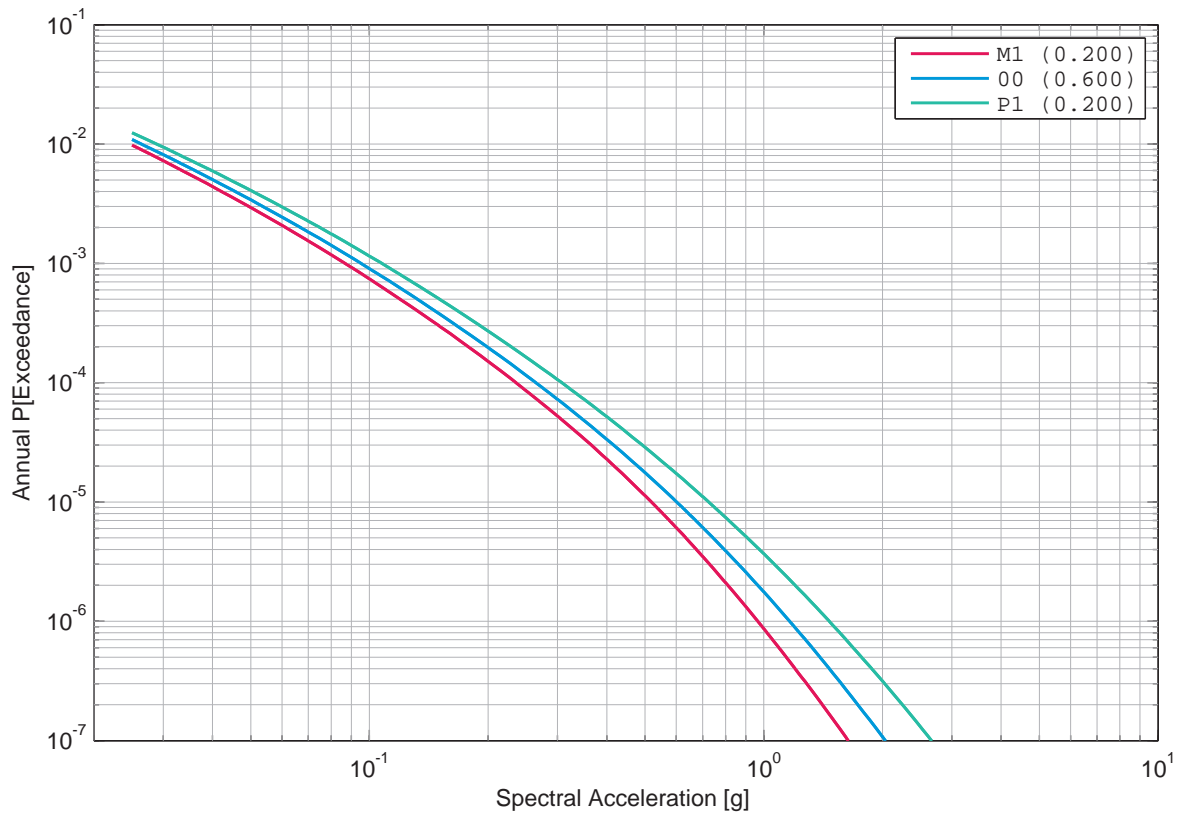


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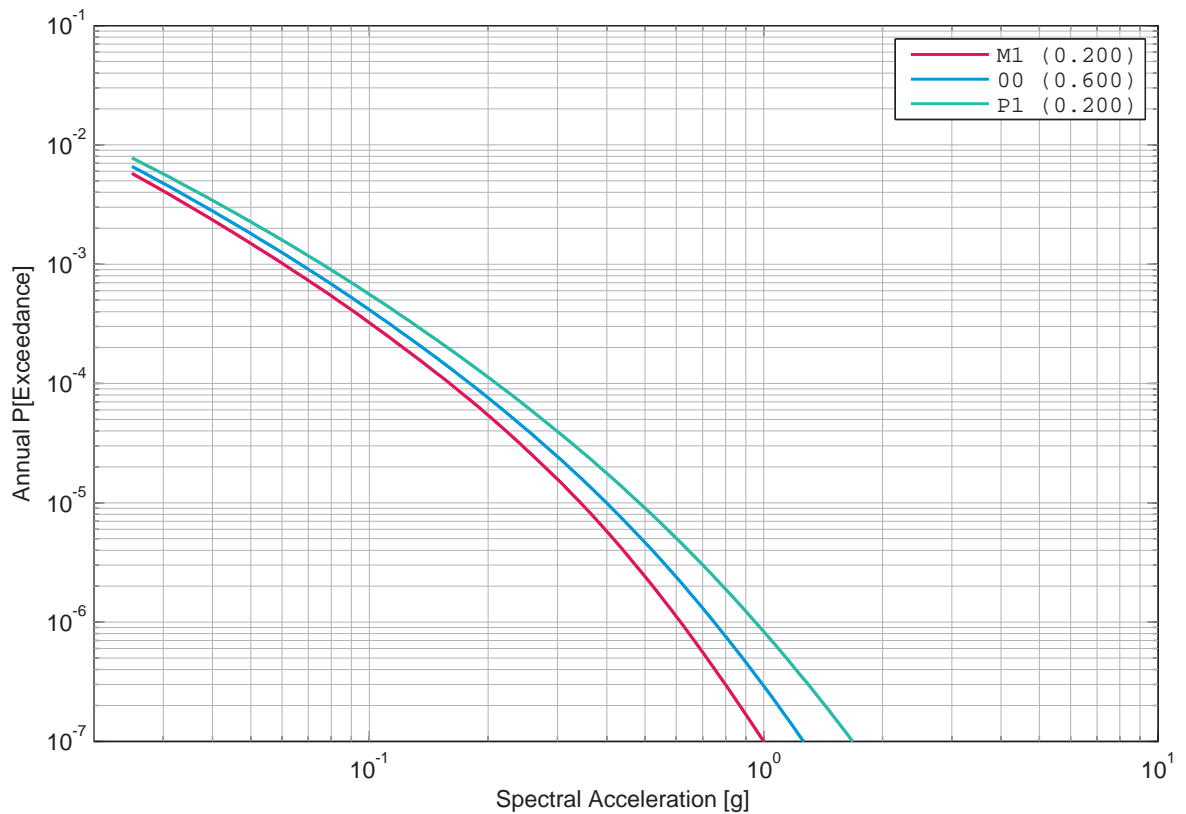


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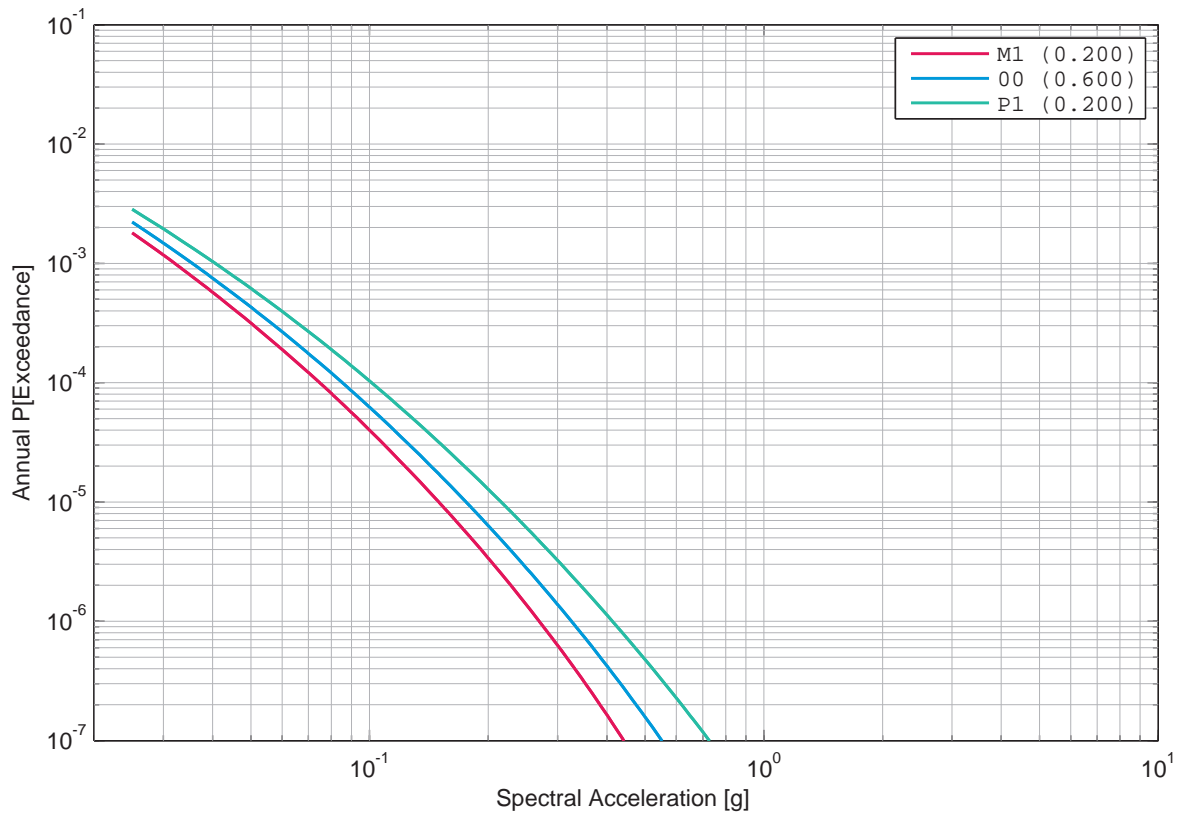


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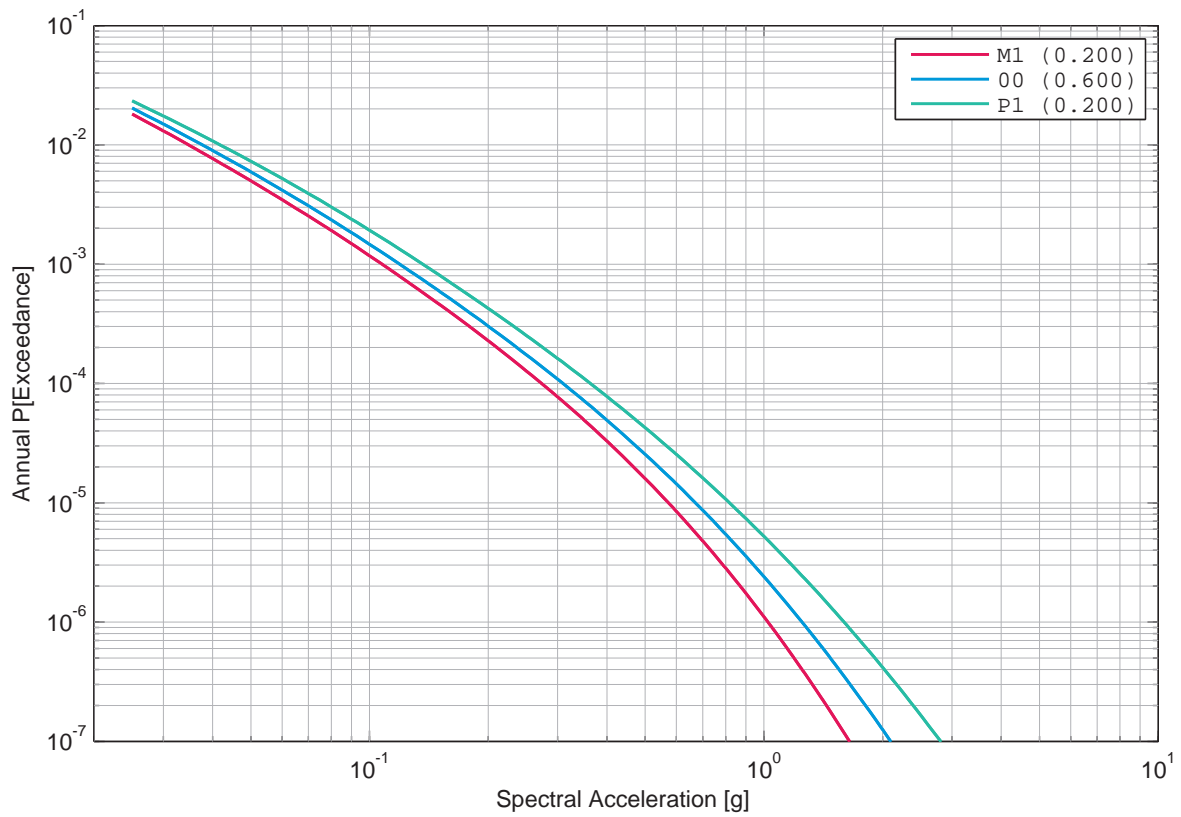


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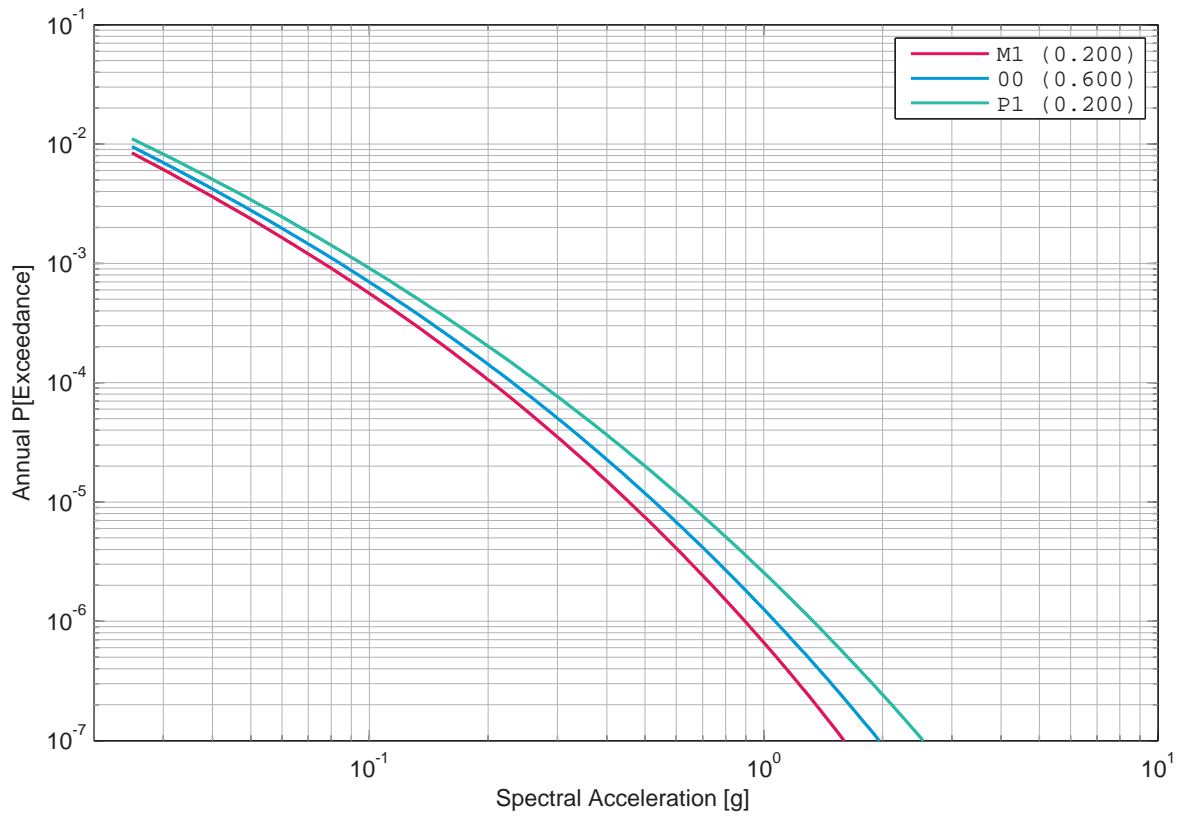


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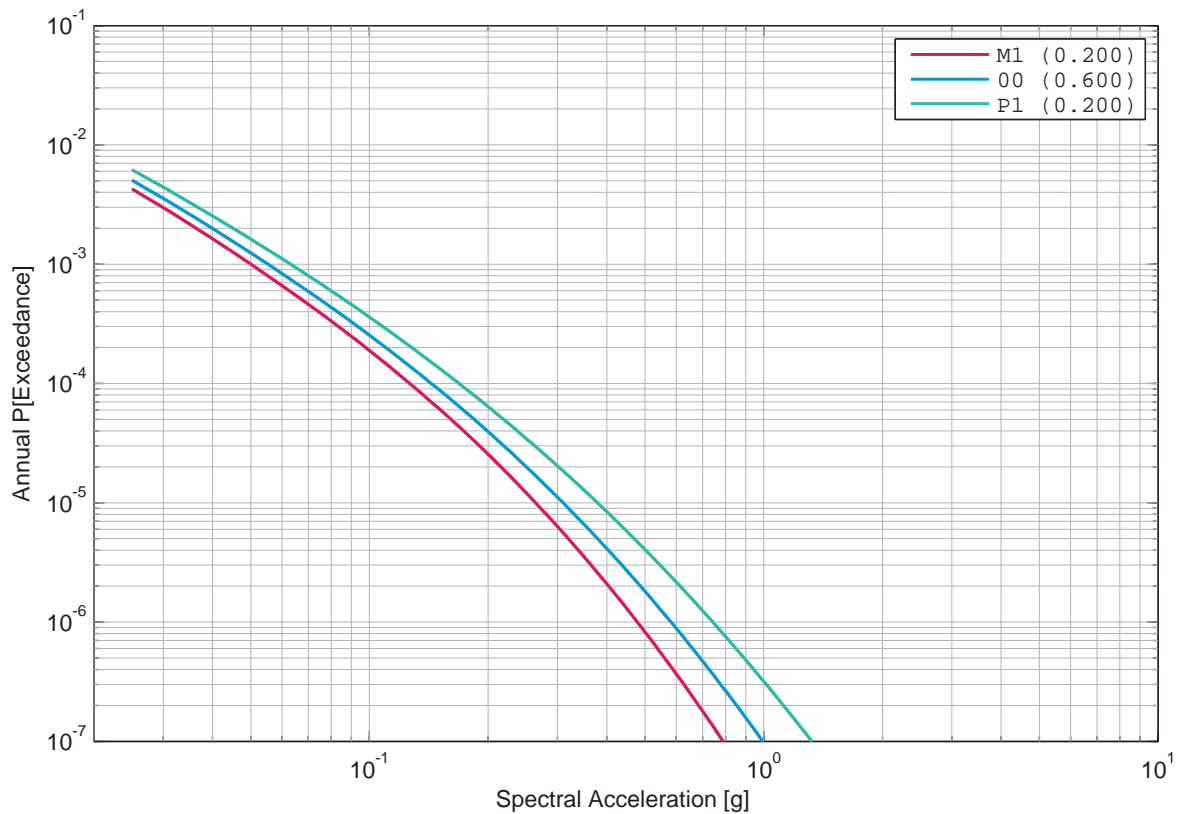


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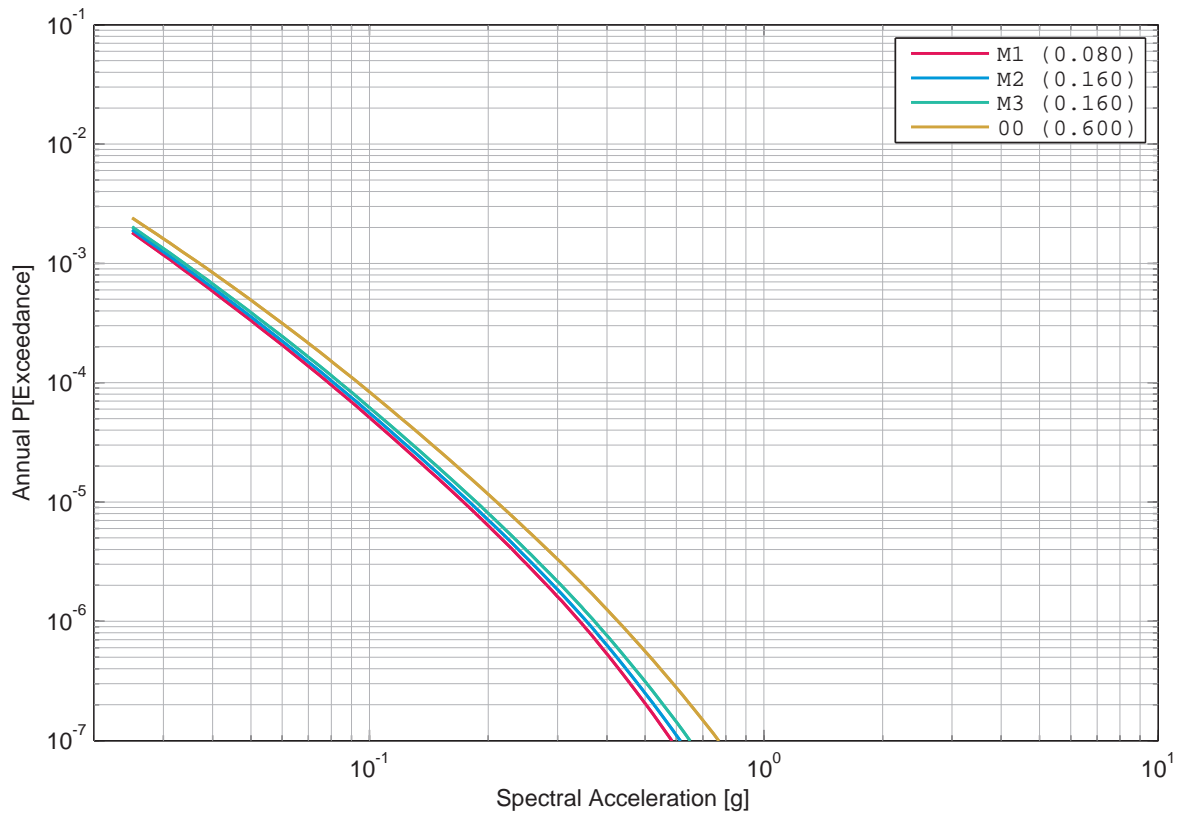


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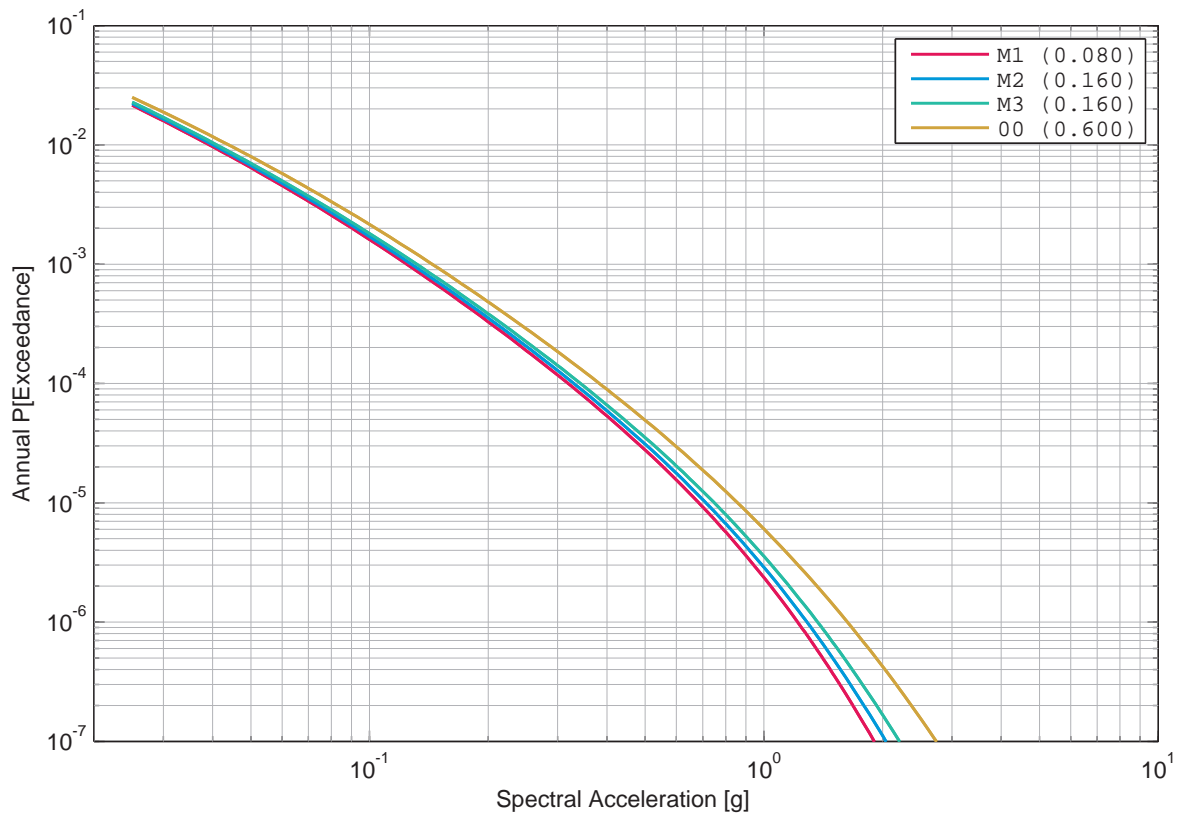


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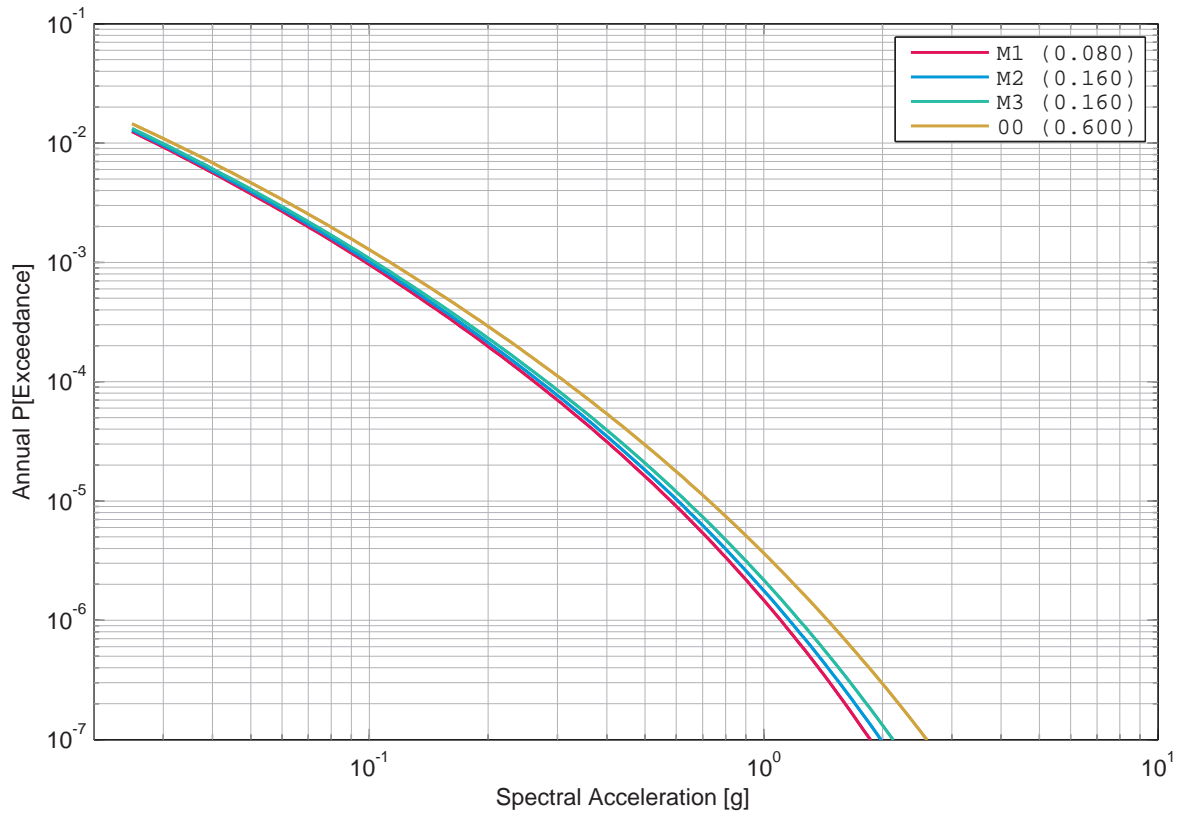


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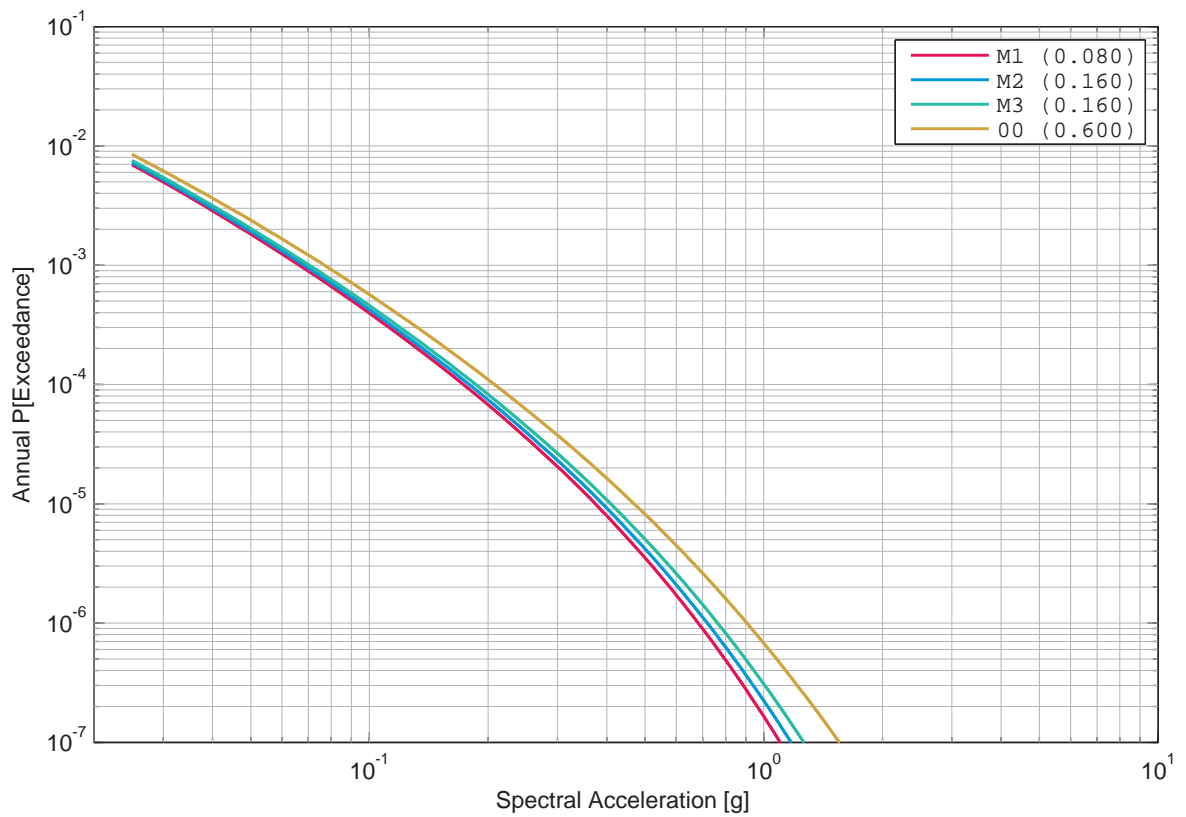


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2.9 Beznau, Horizontal Component, Soil, Sensitivity to Depth Level

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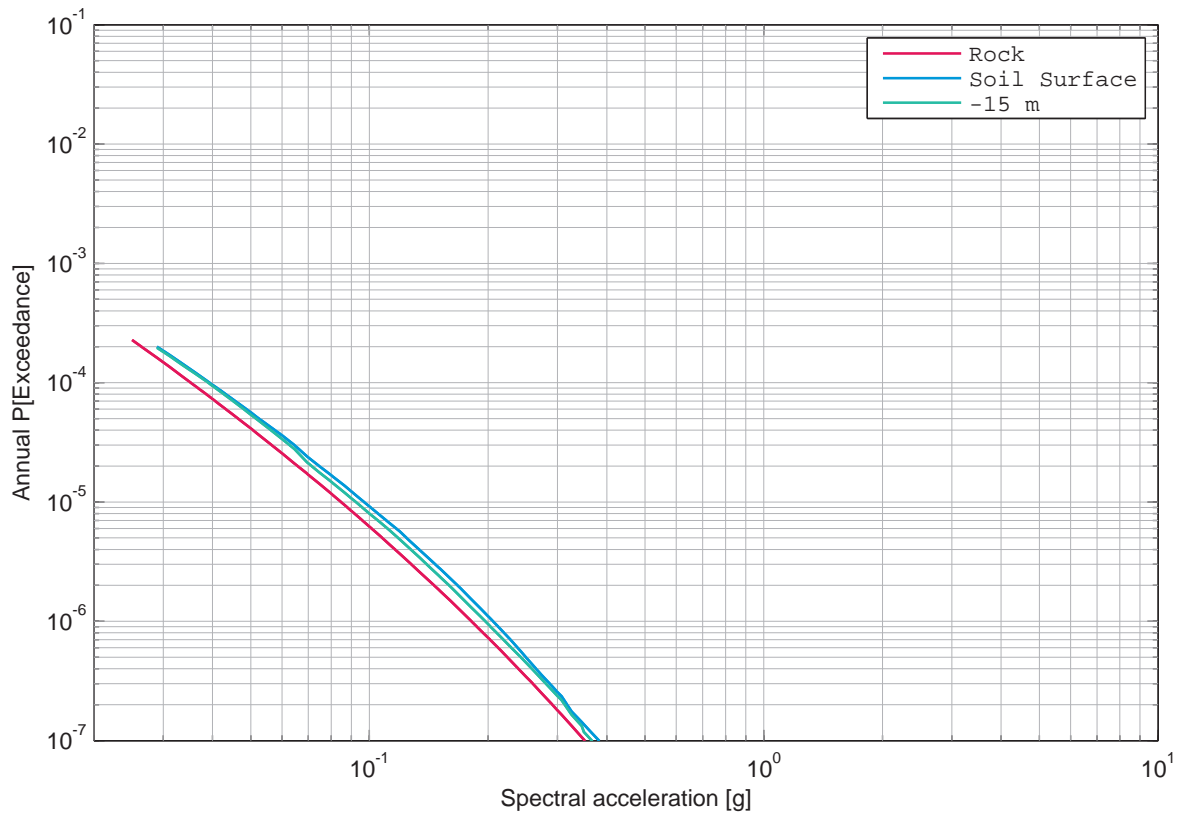


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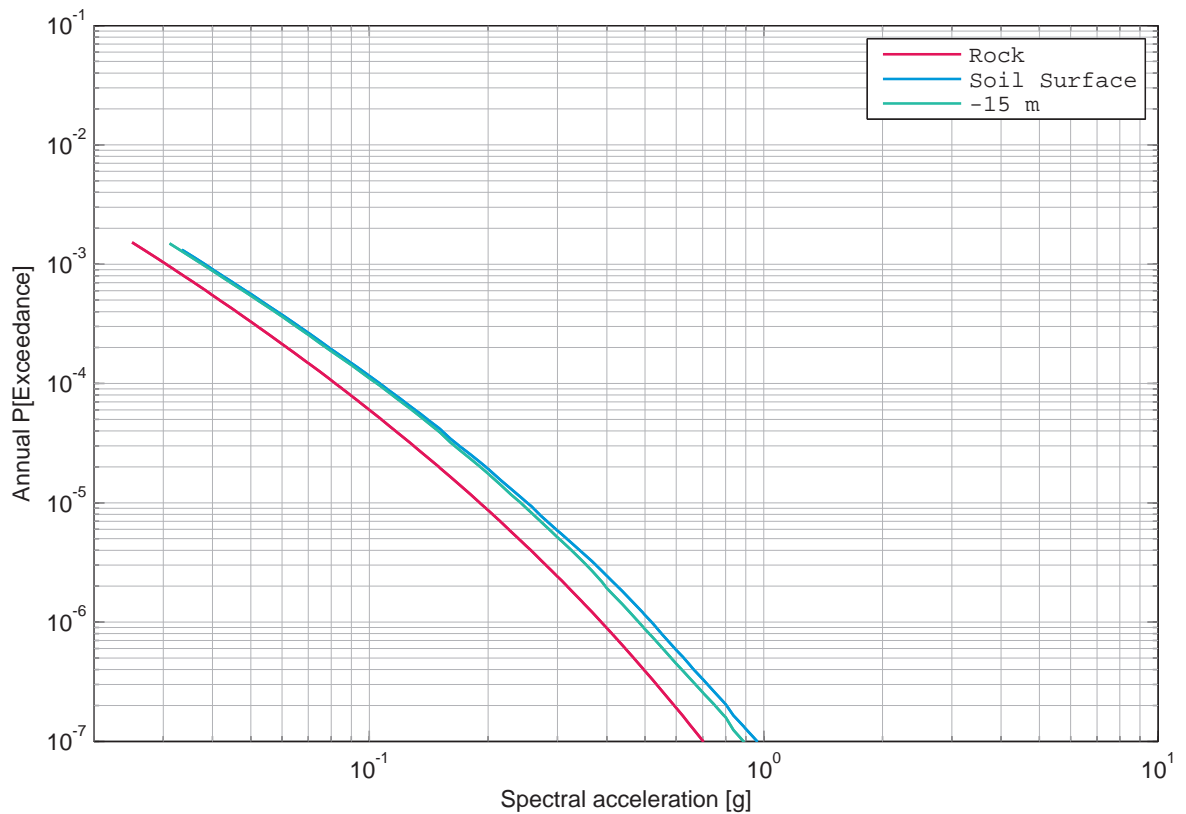


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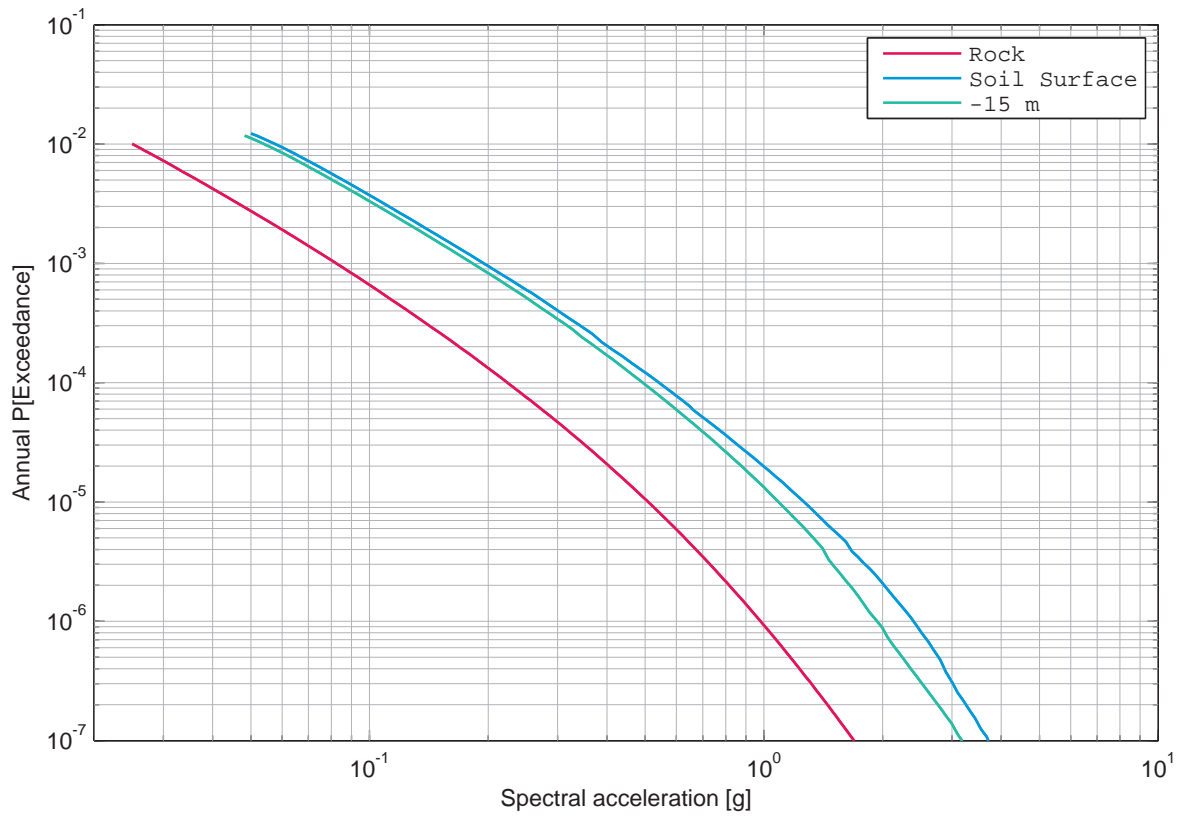


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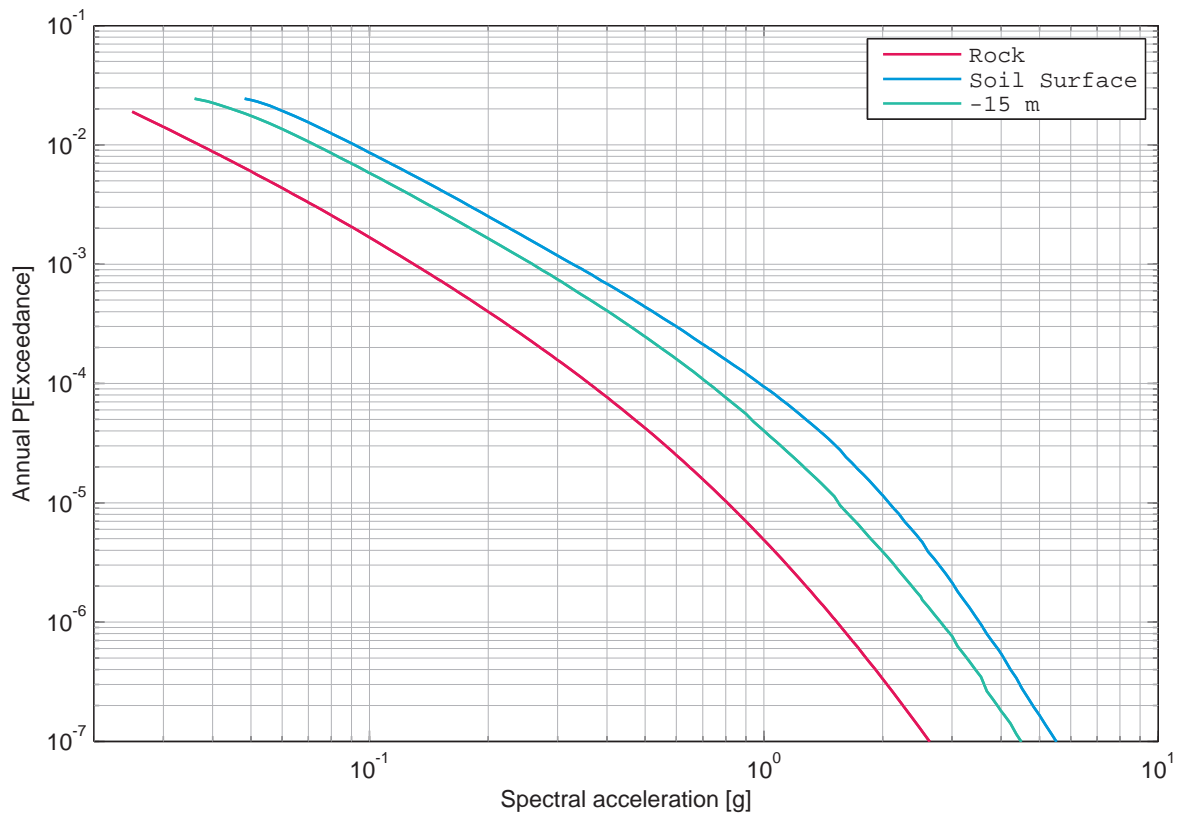


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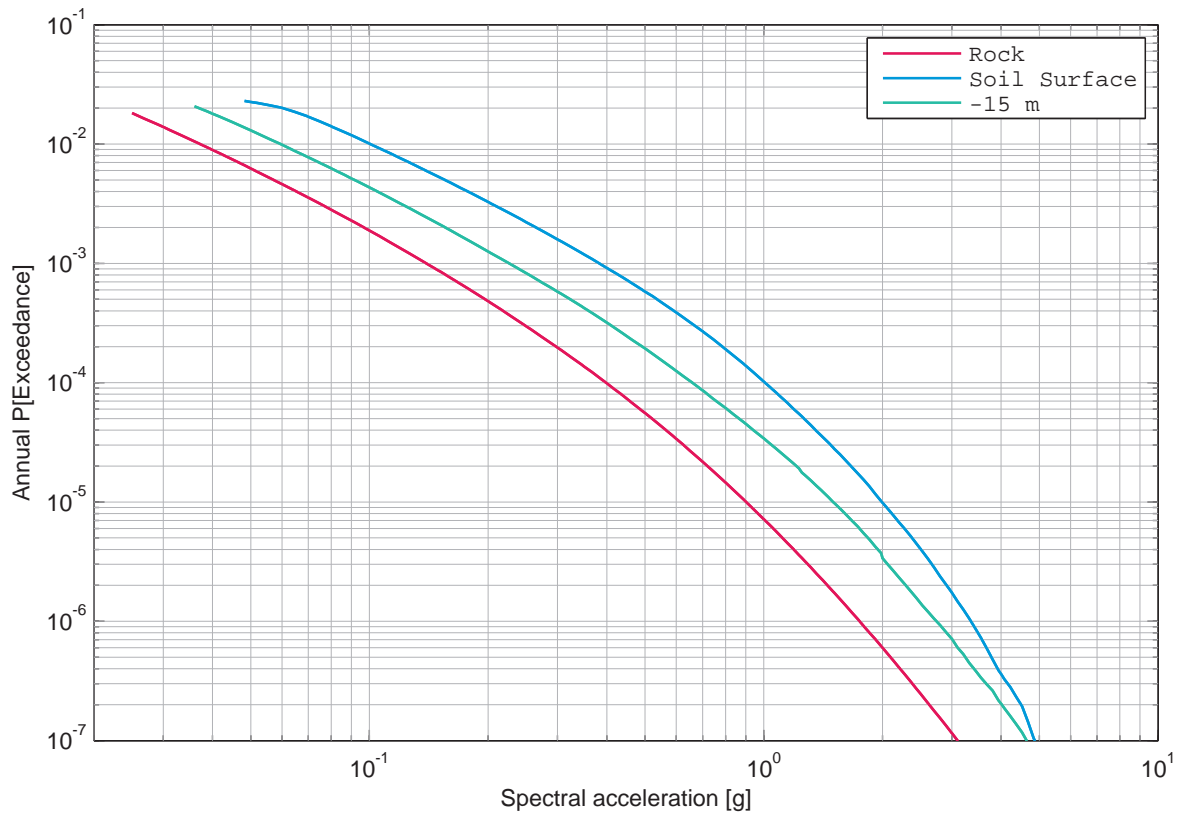


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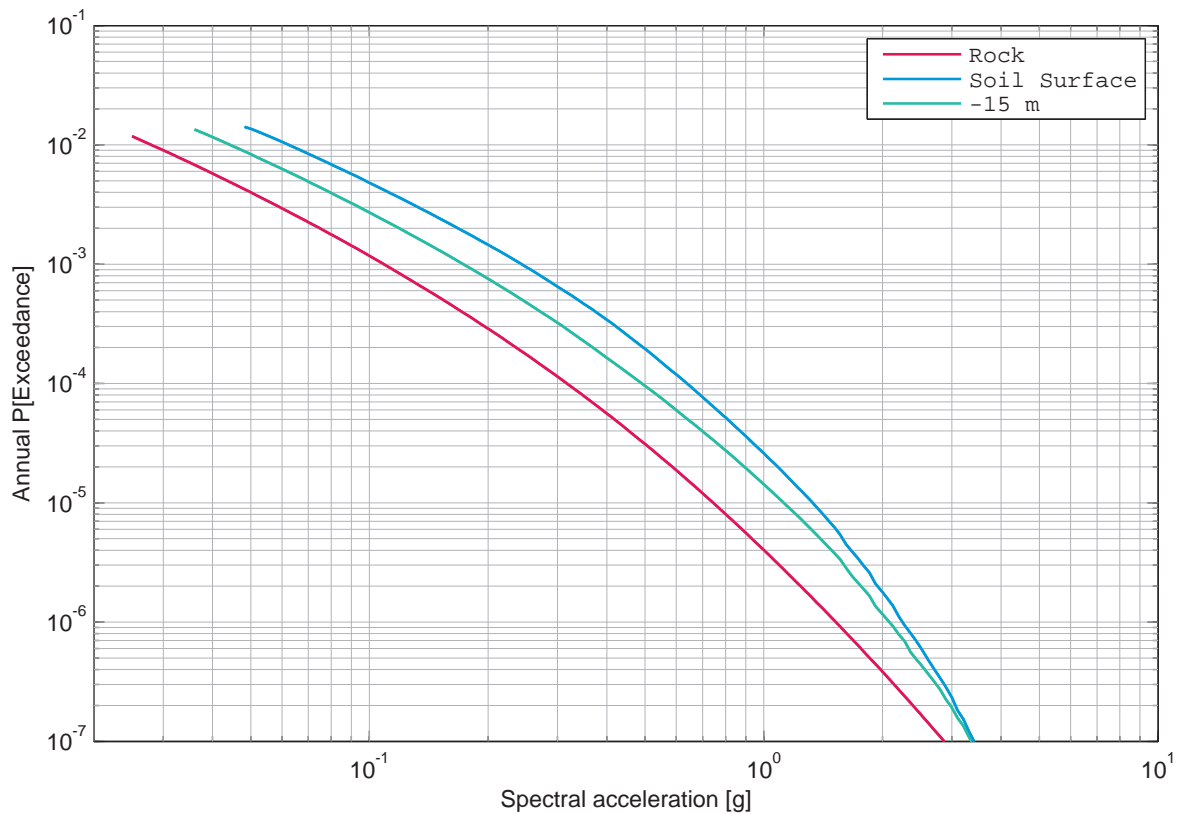


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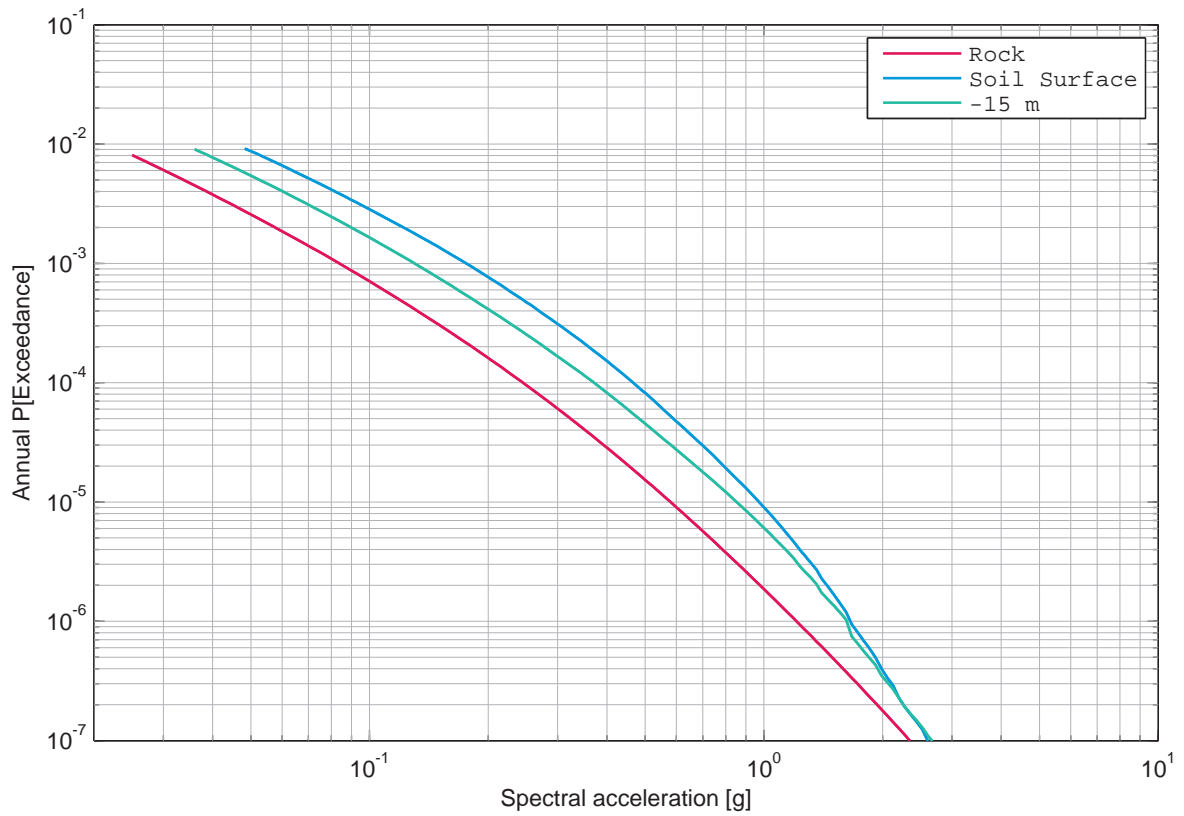


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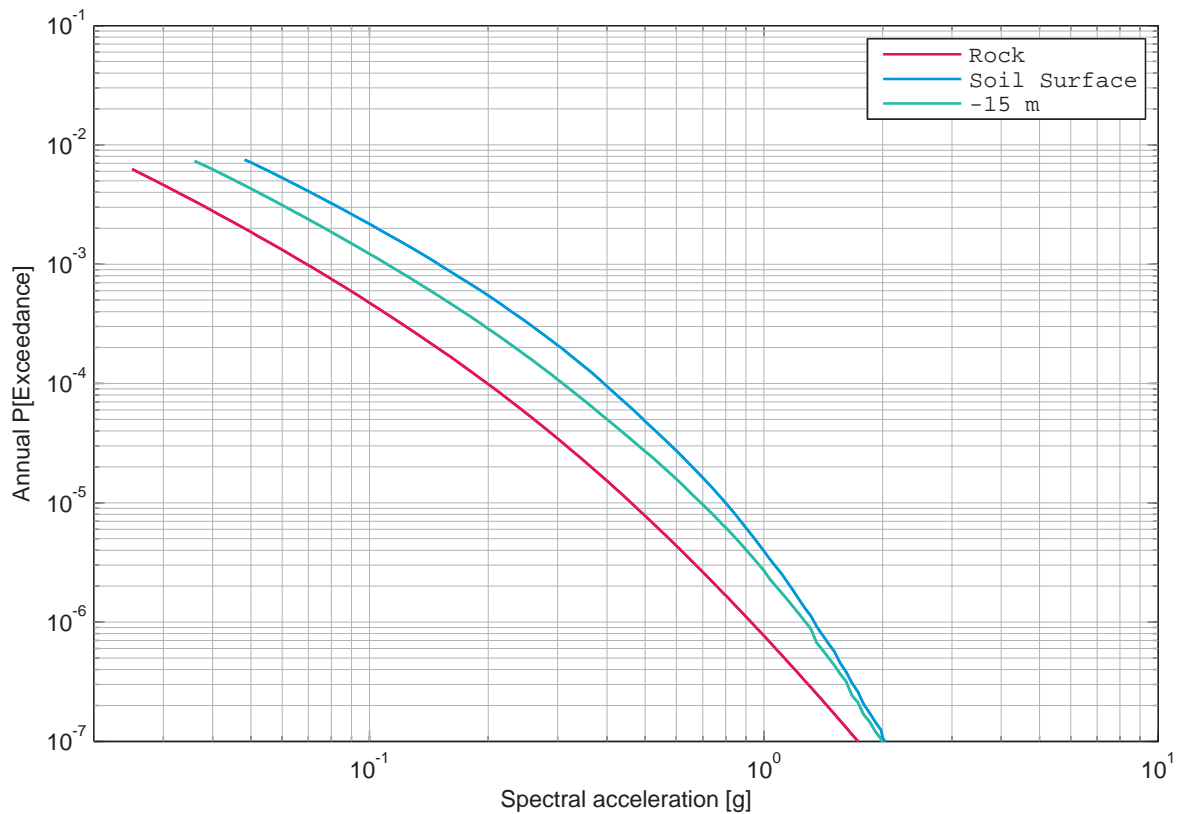


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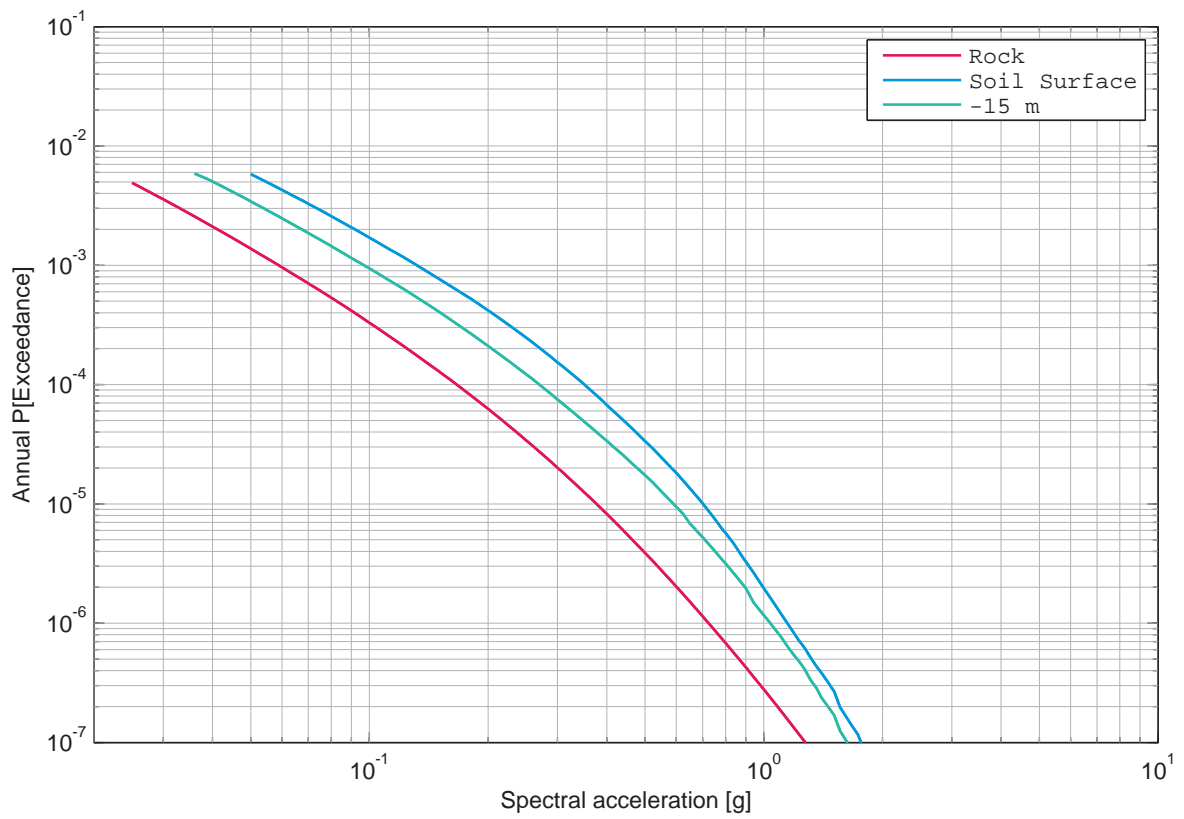


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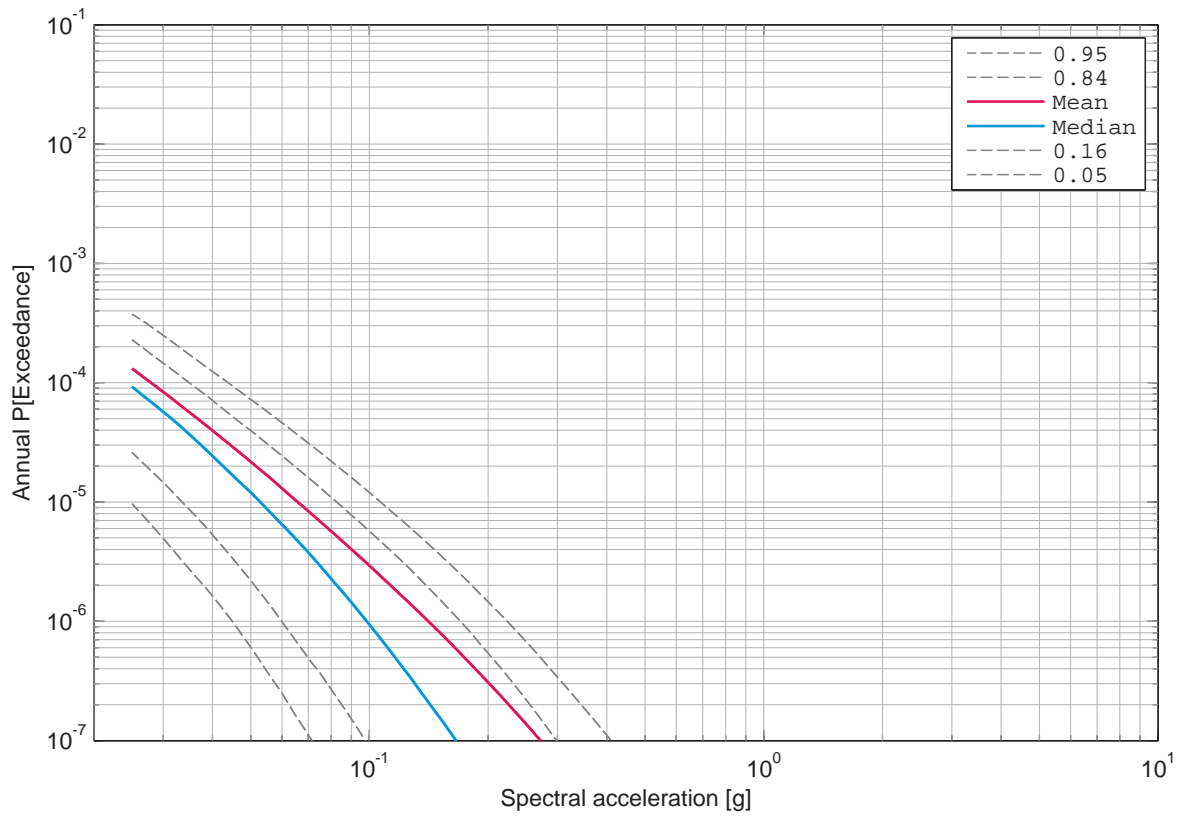


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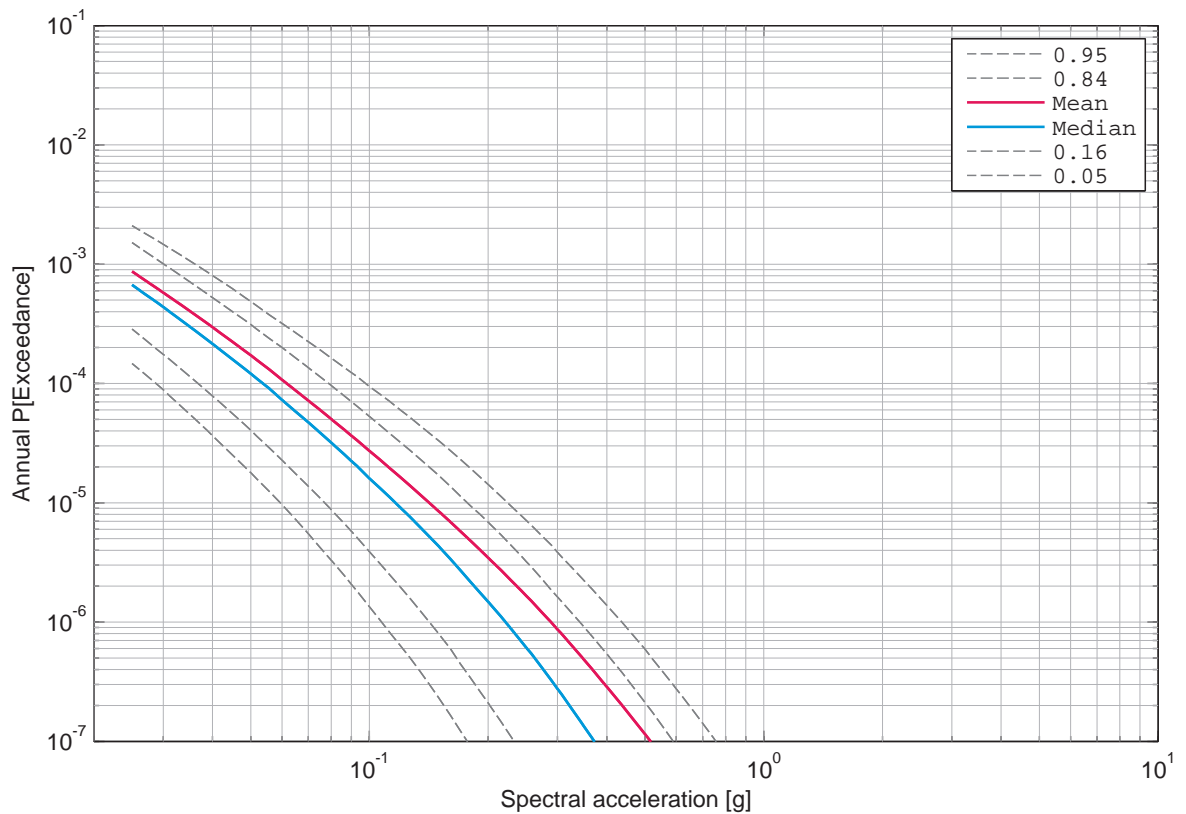


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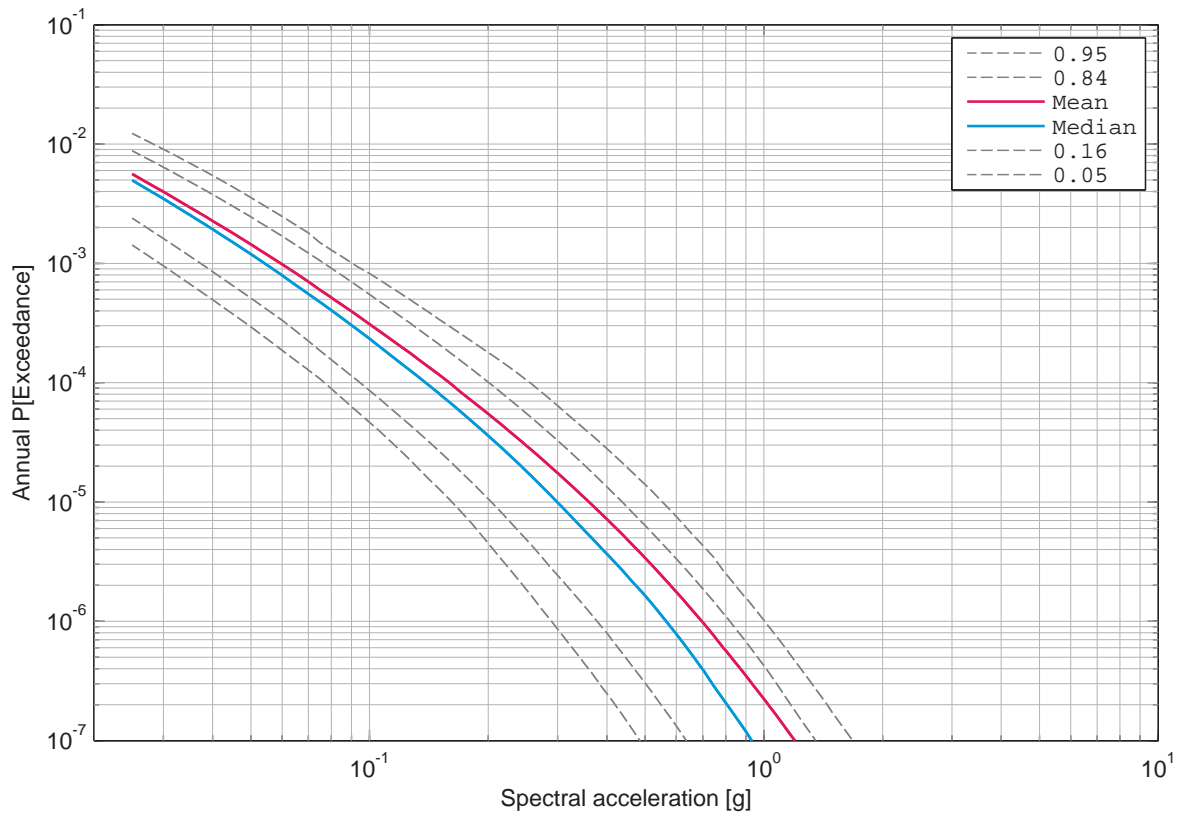


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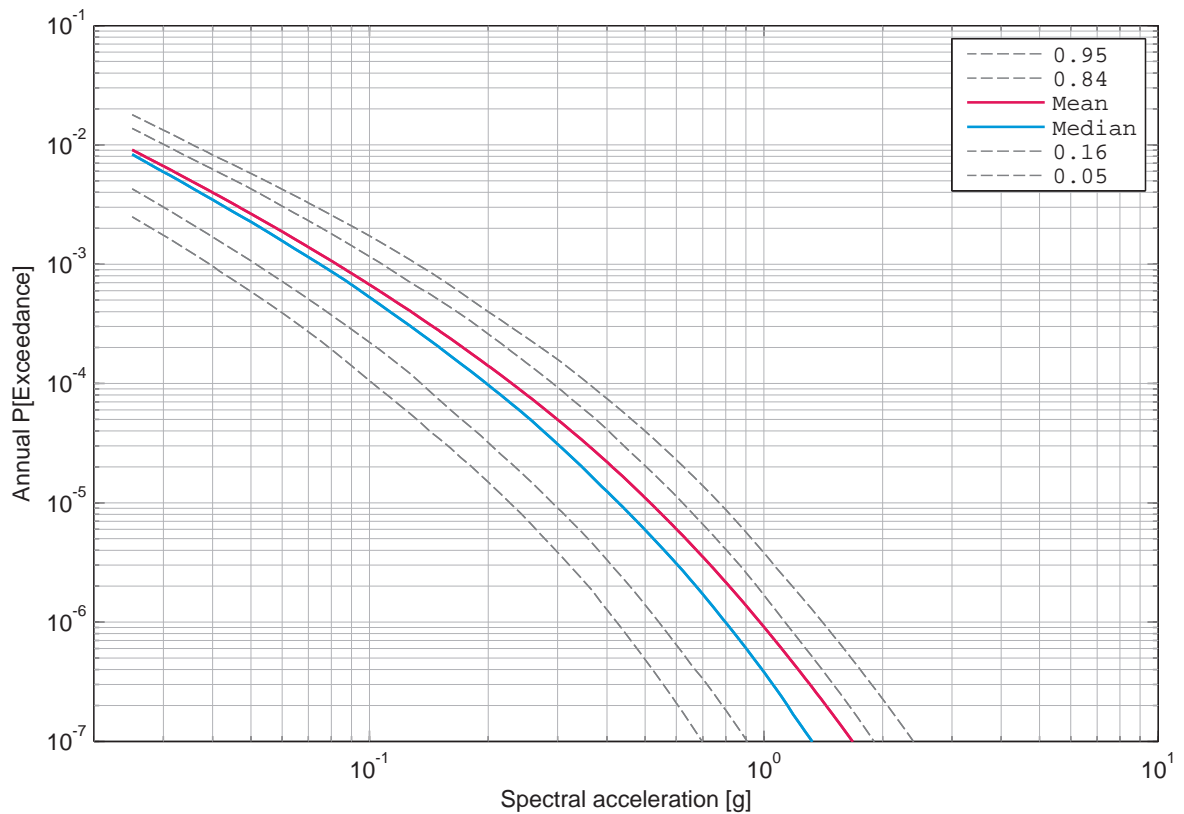


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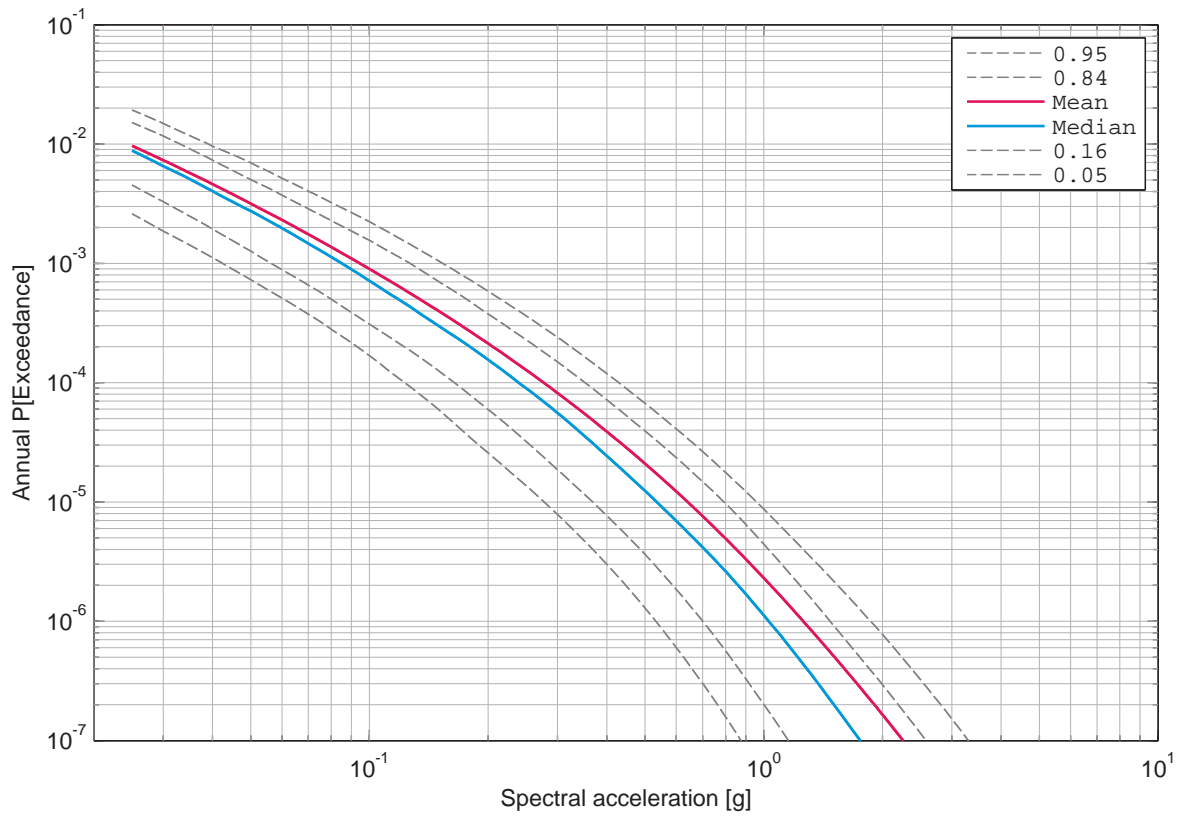


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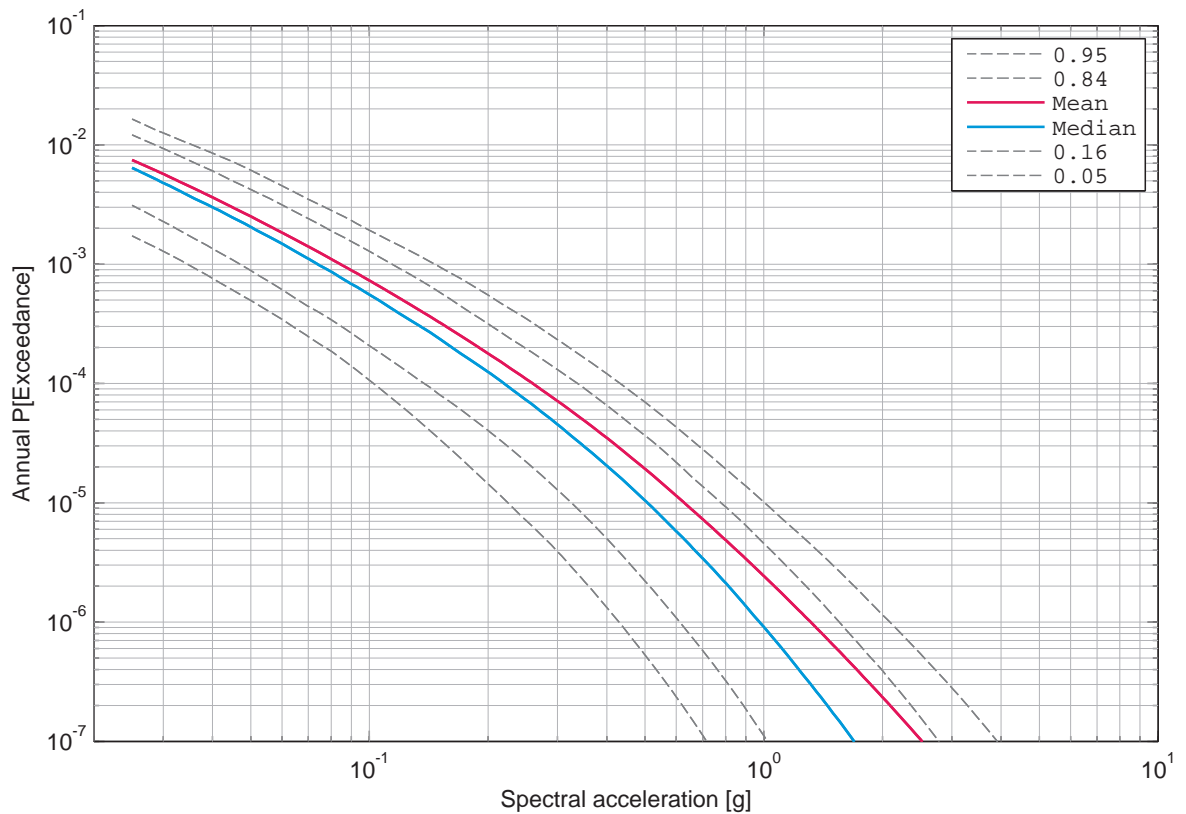


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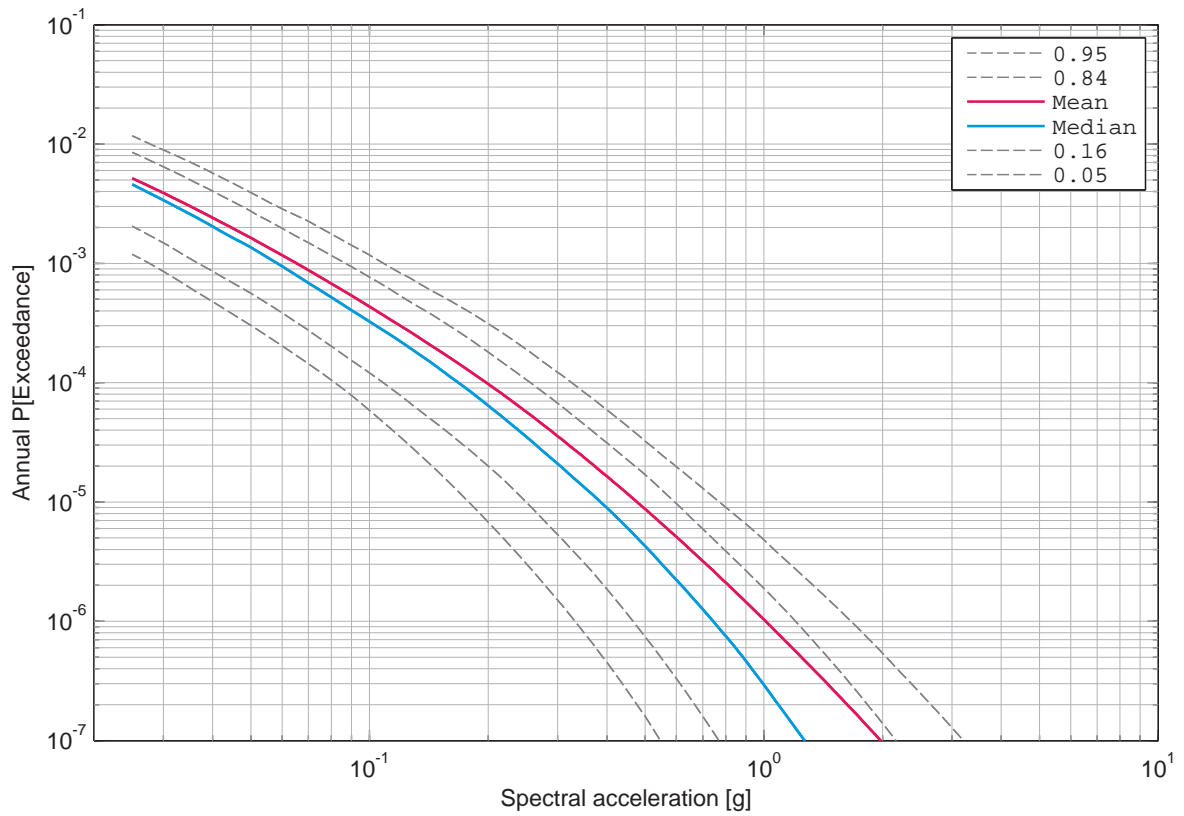


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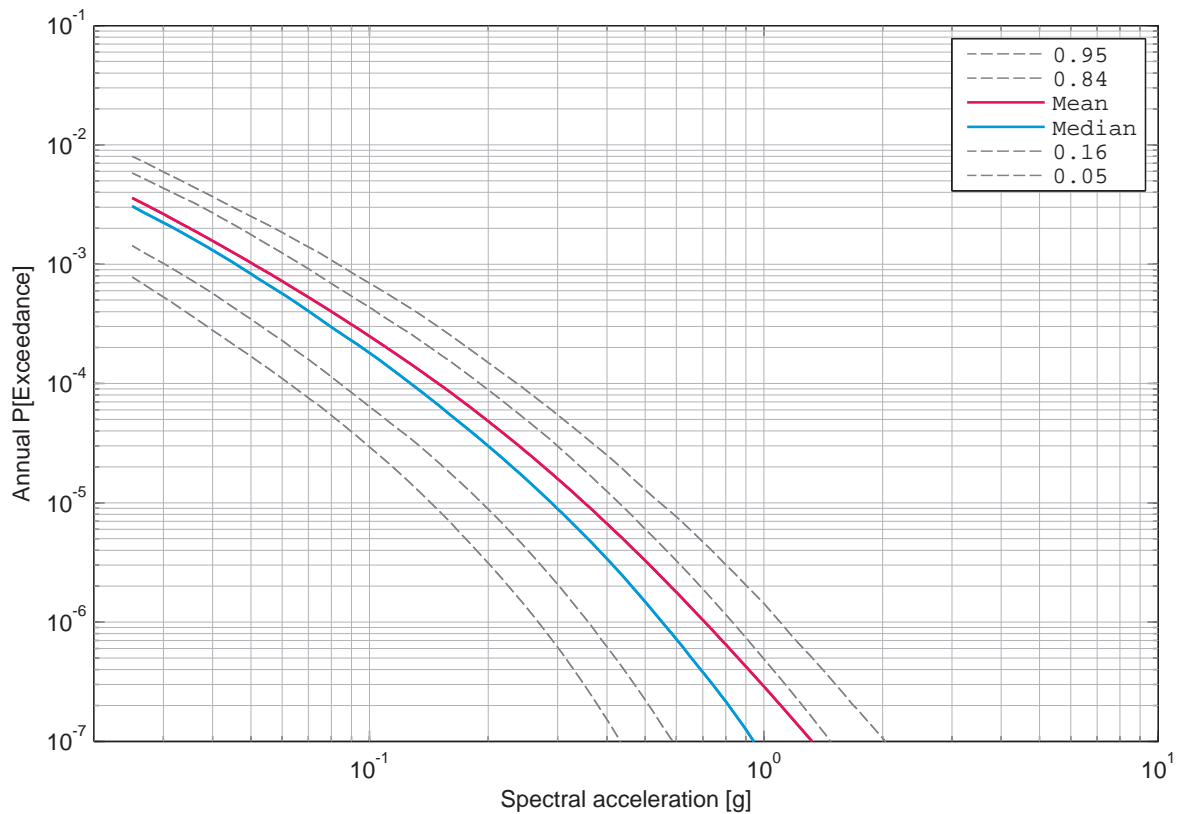


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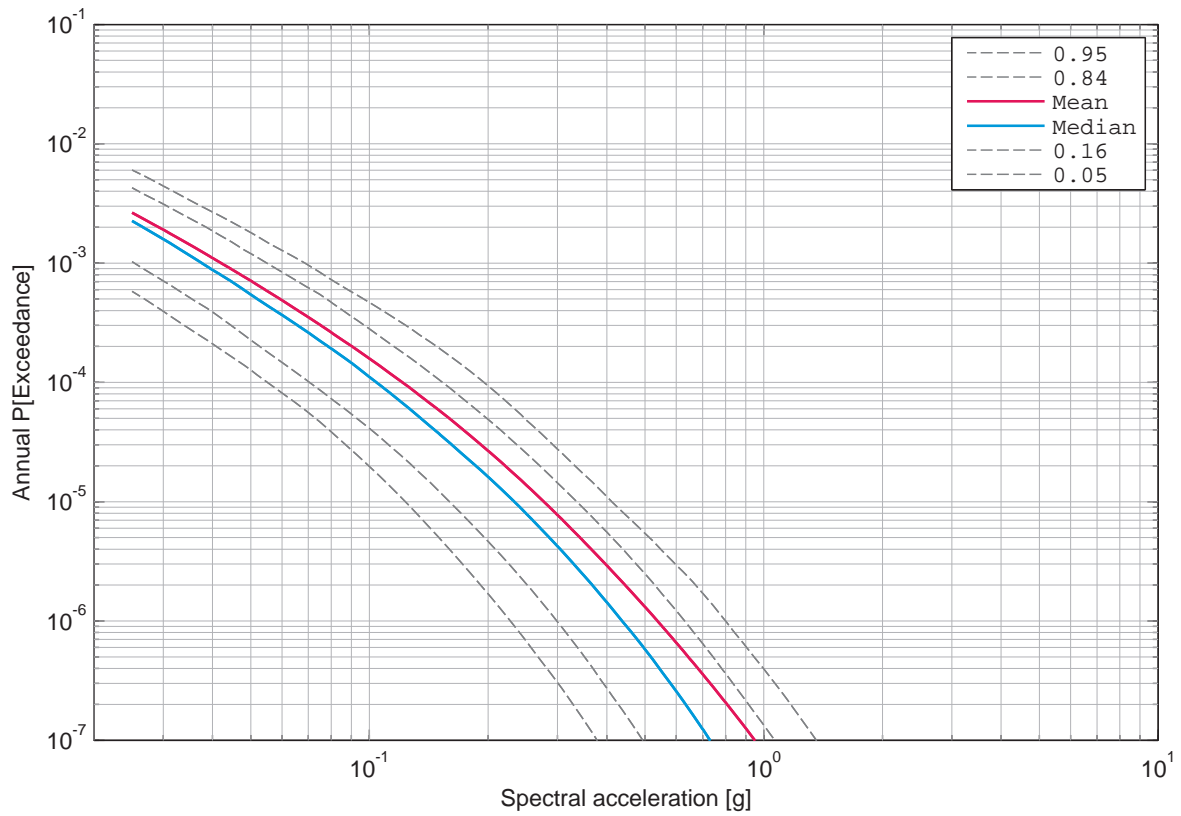


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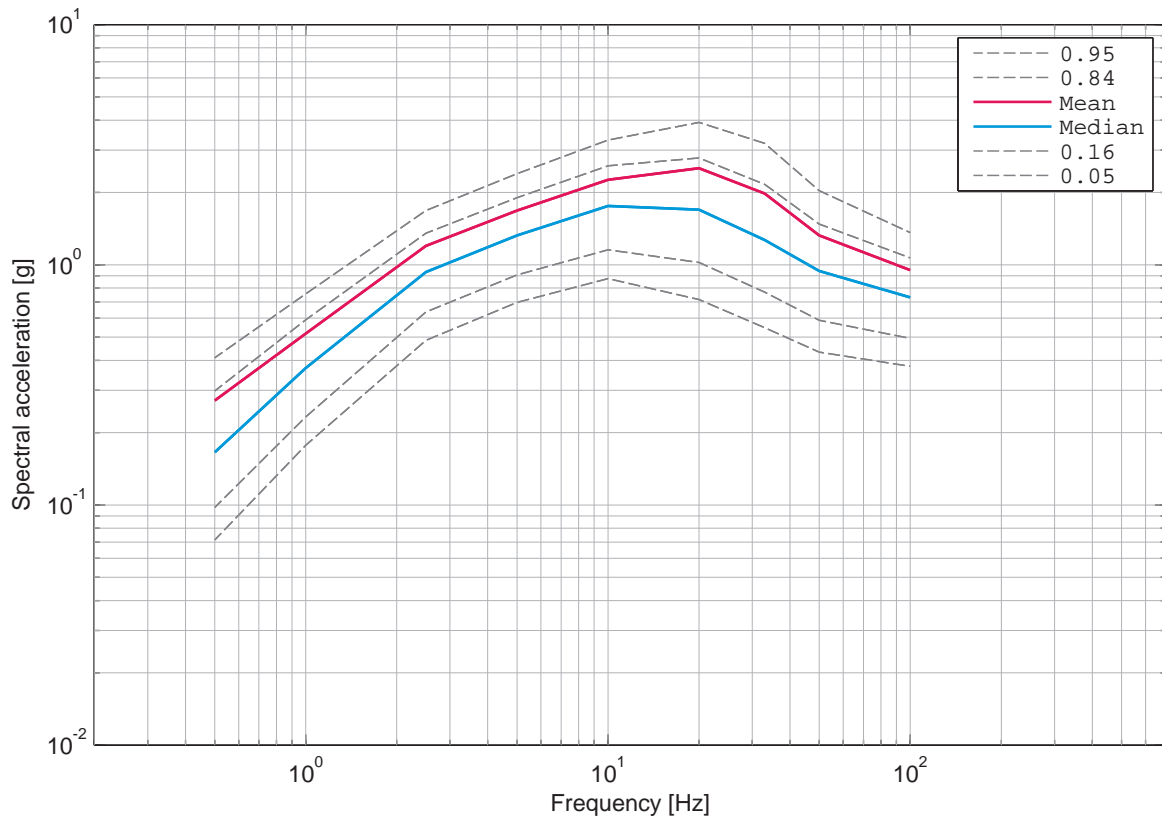


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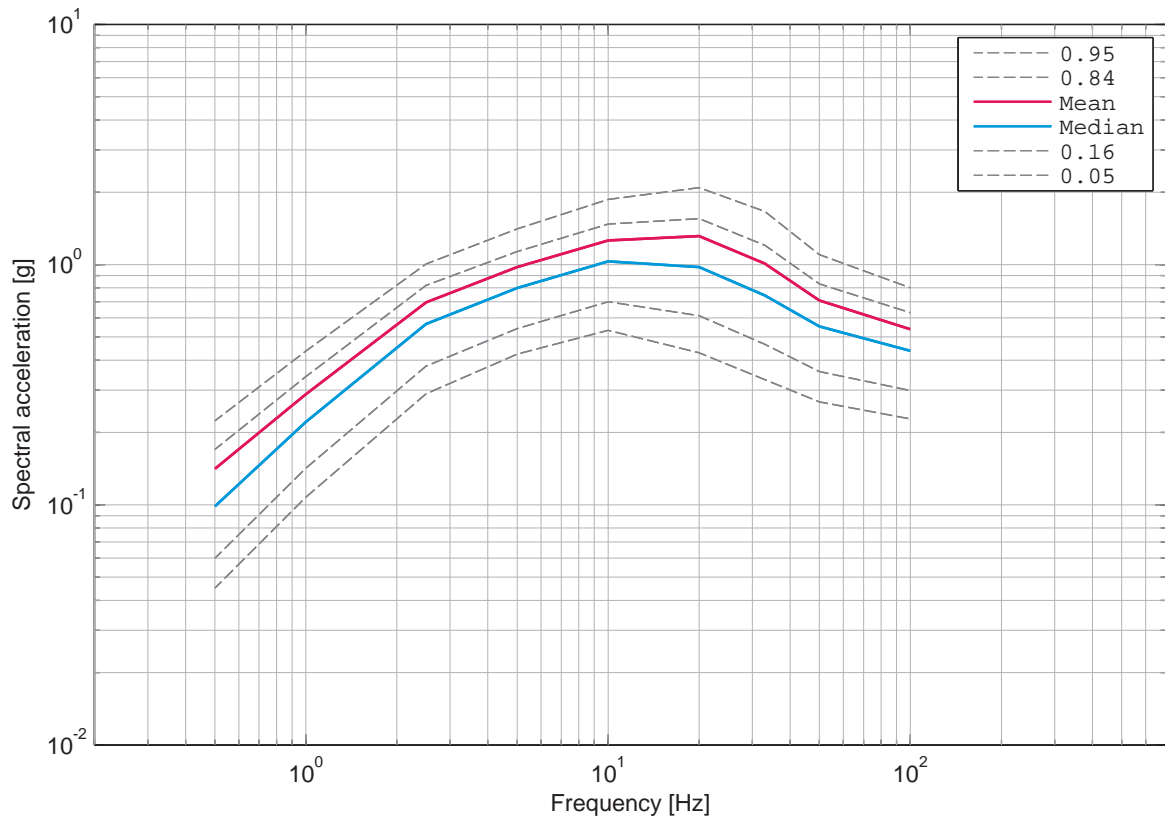


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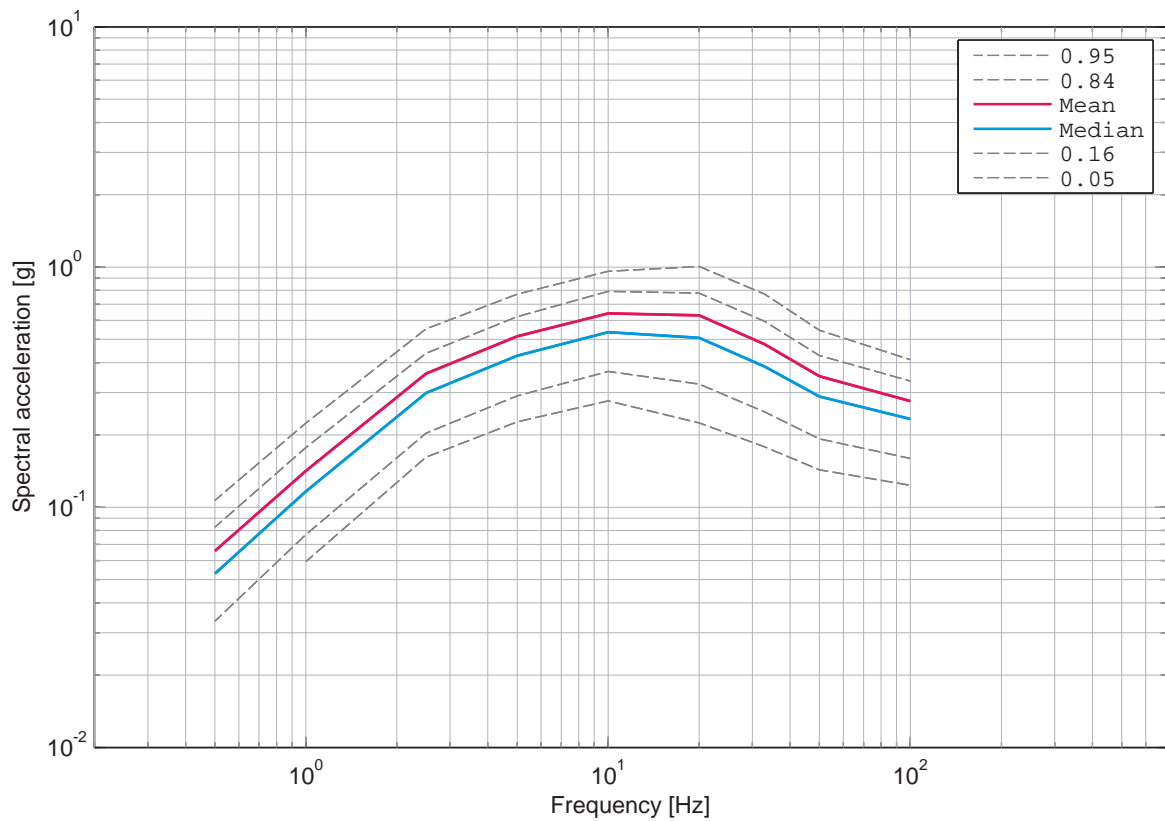


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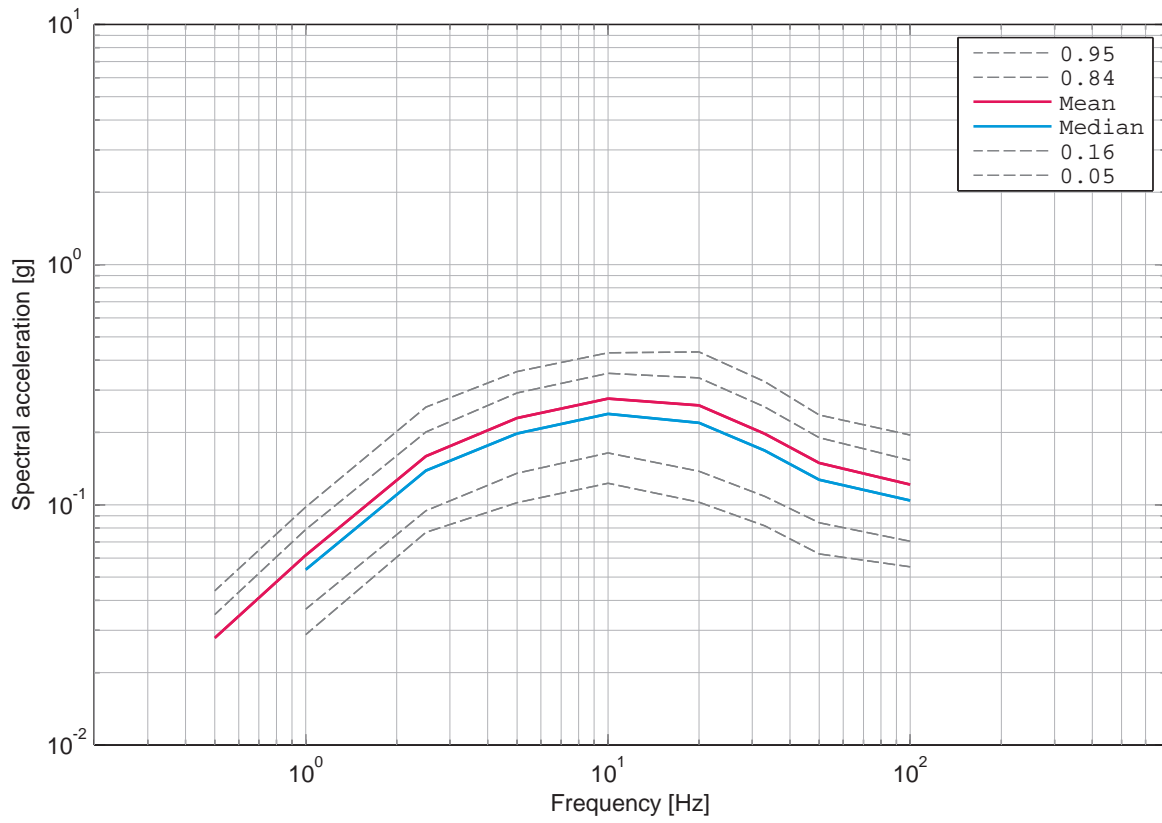


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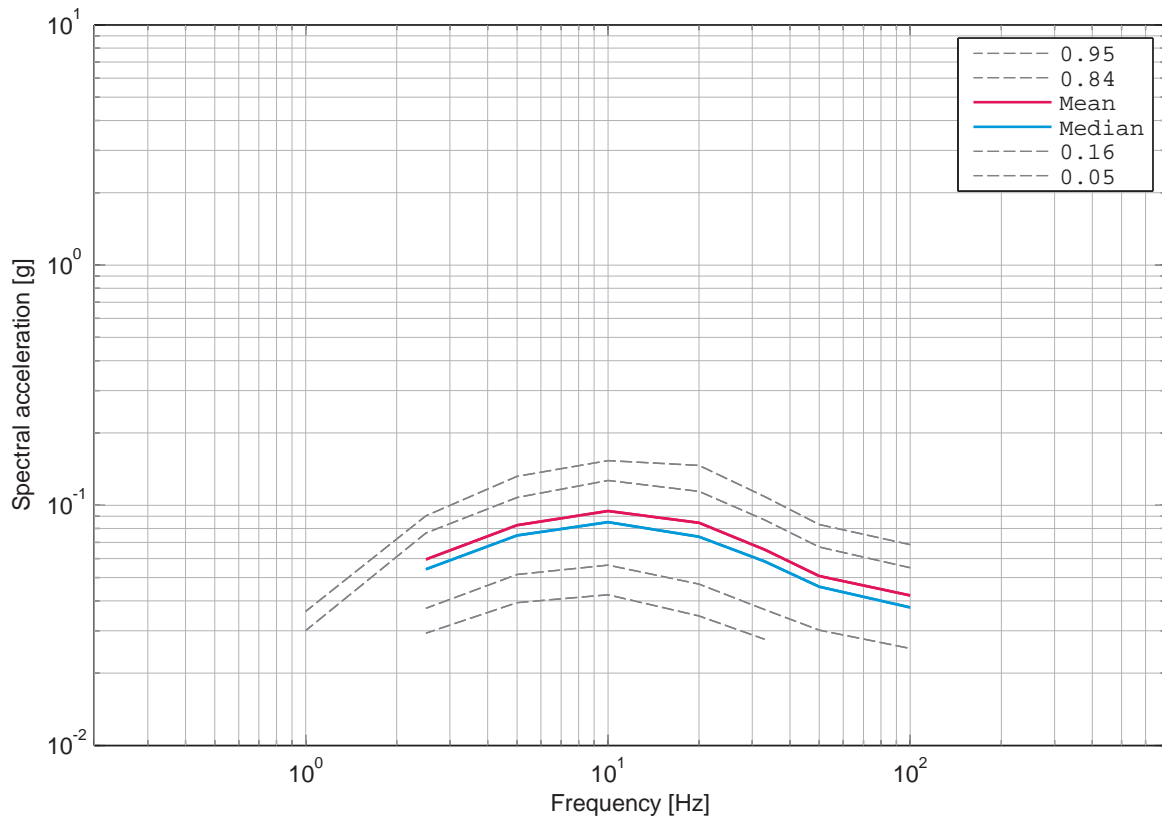


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2.11 Beznau, Soil Hazard, Vertical Component, Surface

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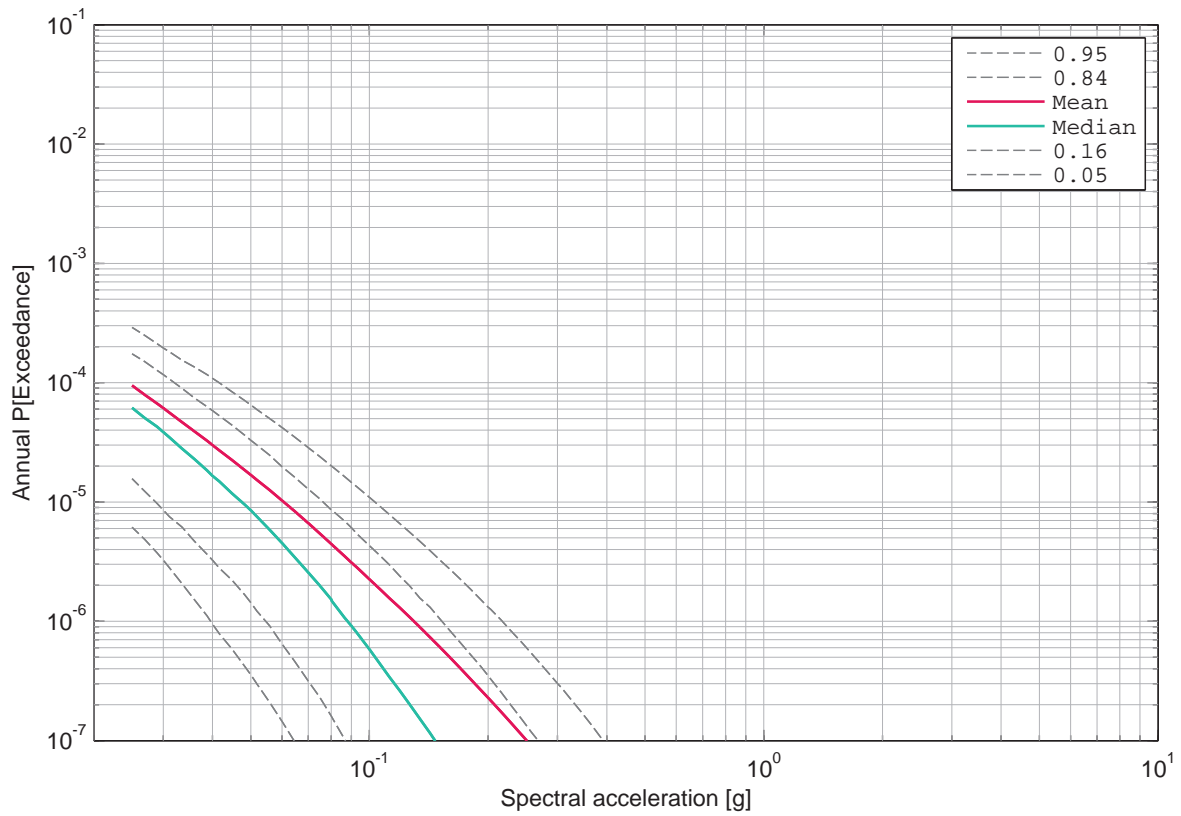


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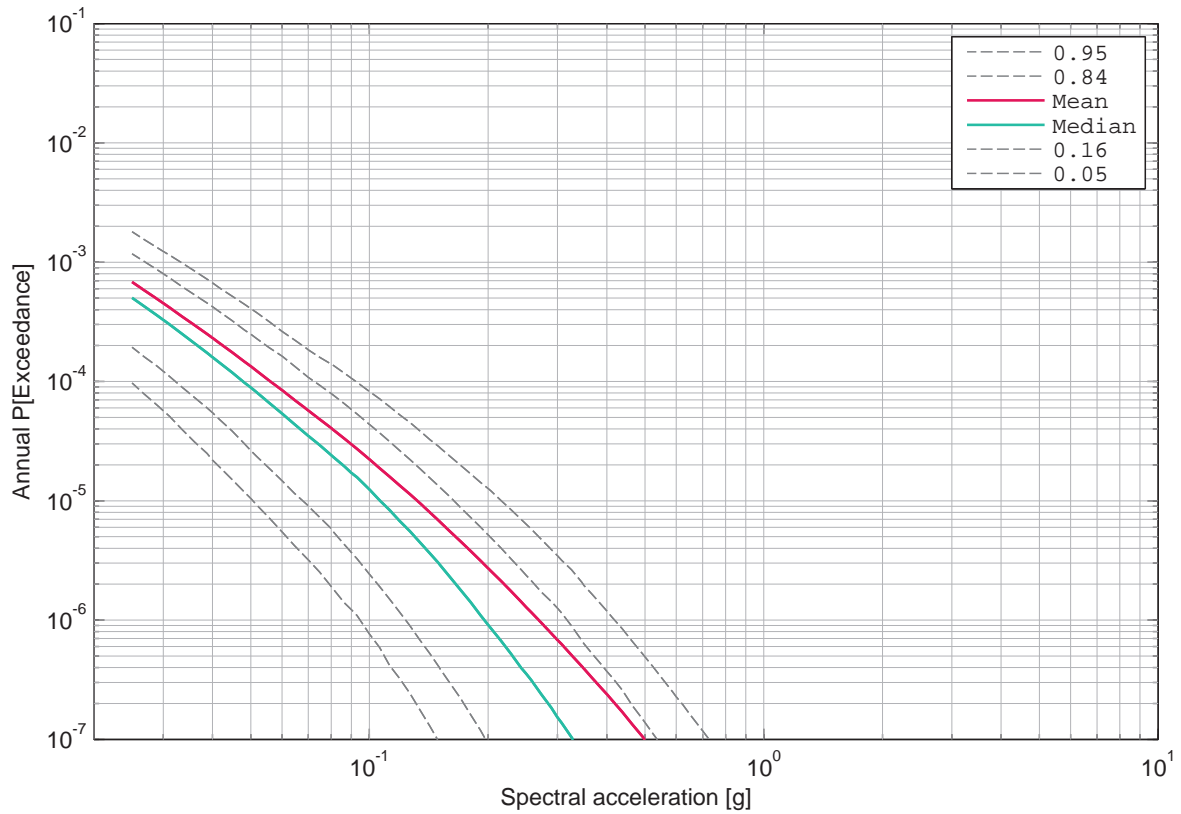


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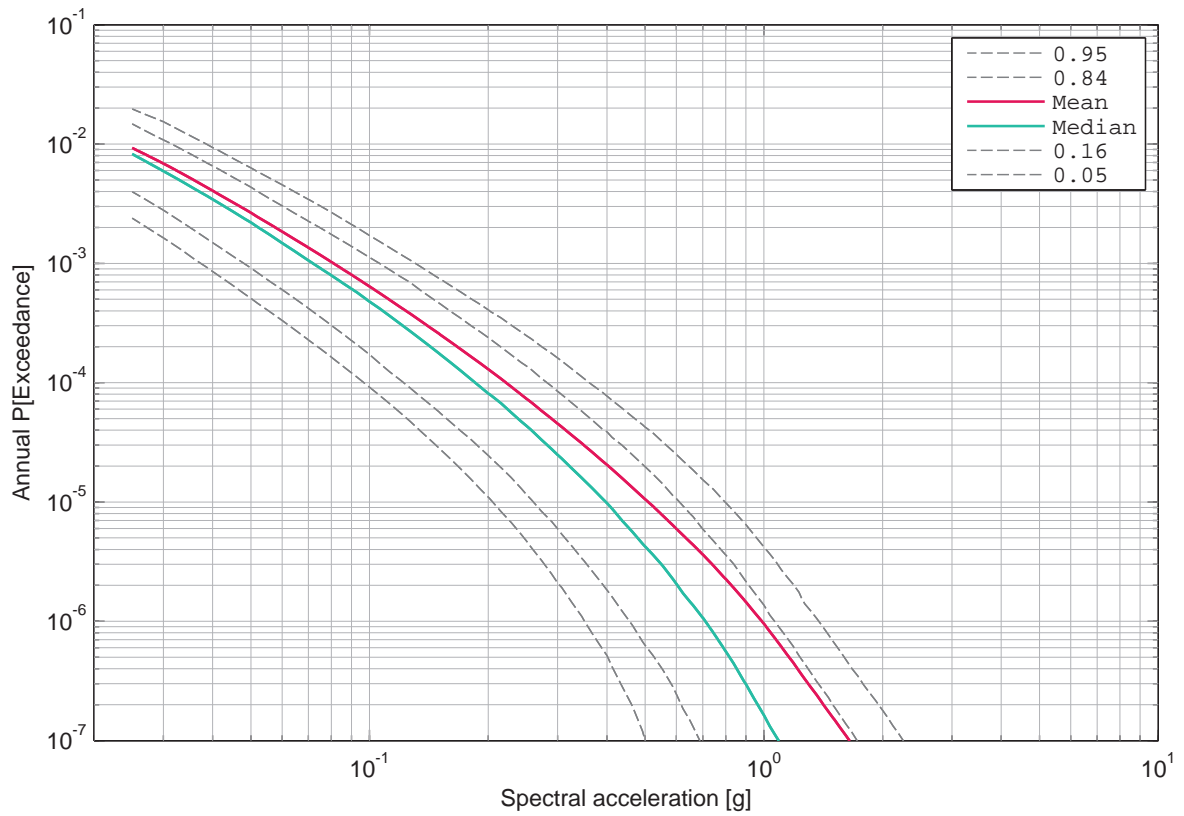


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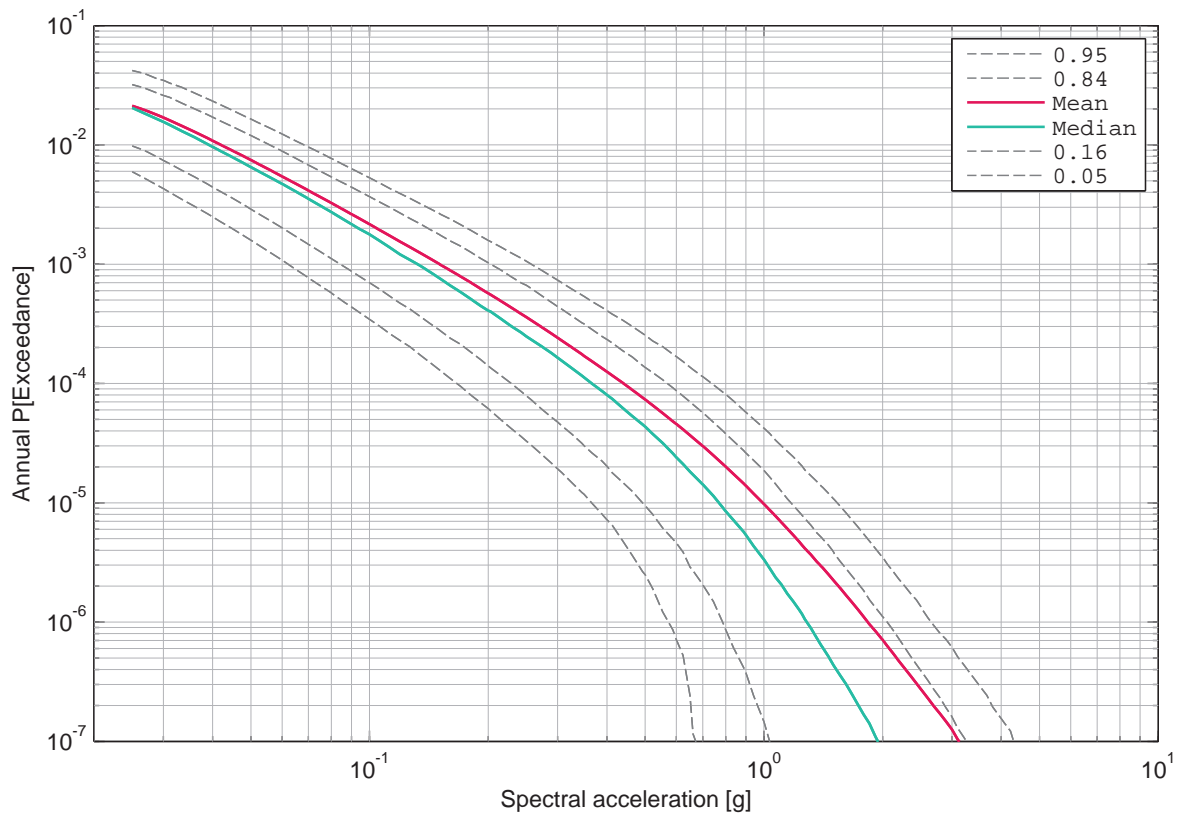


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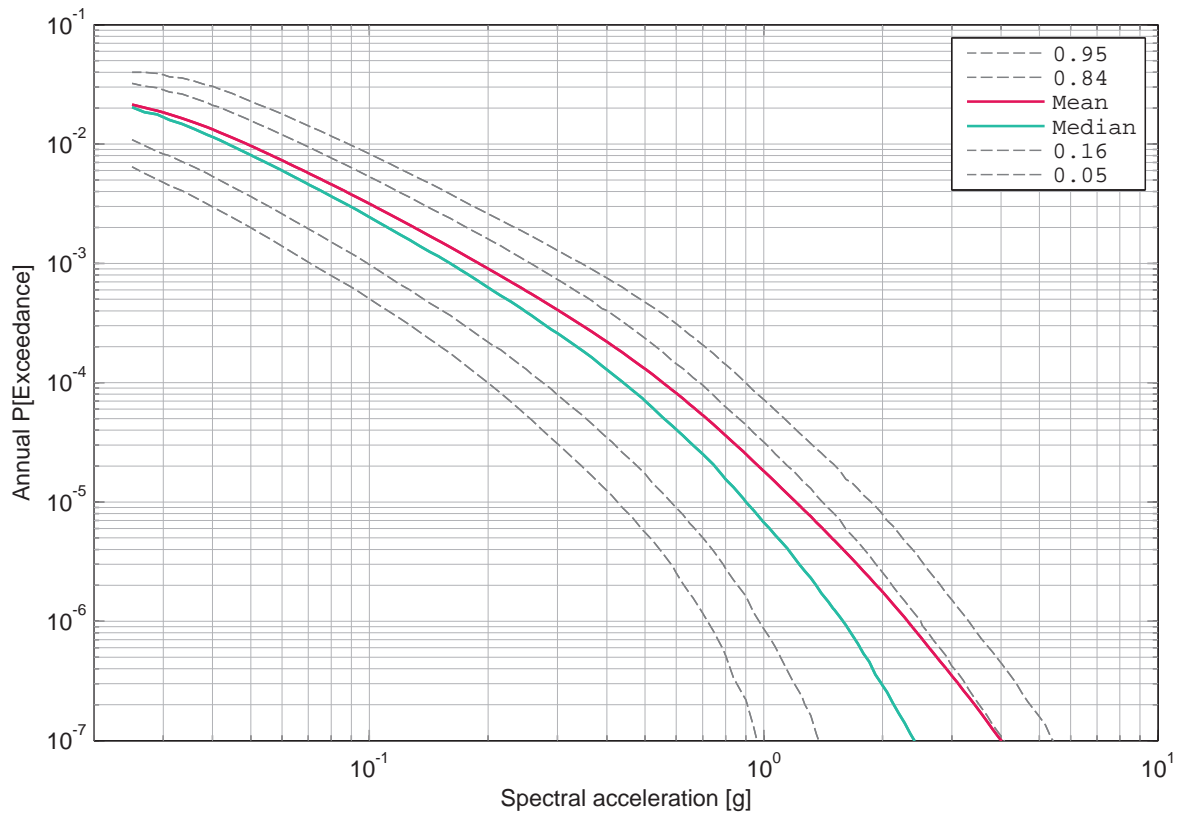


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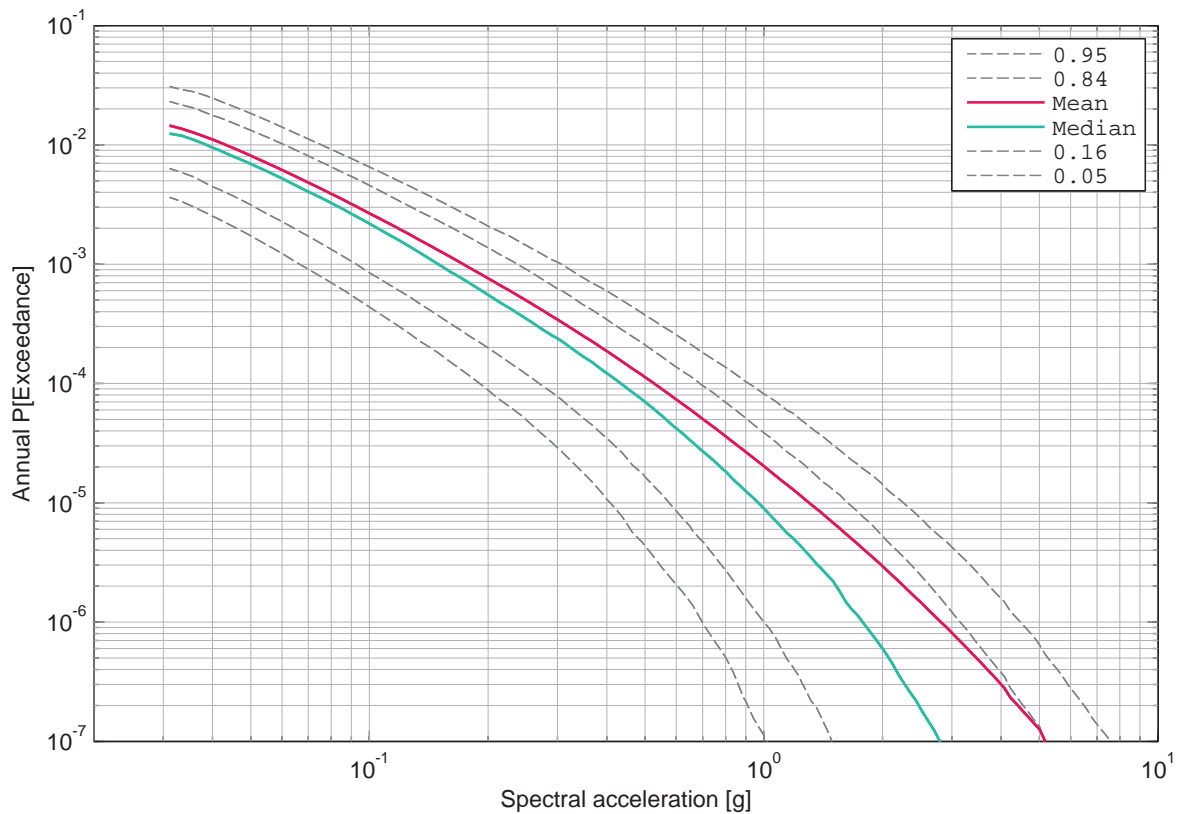


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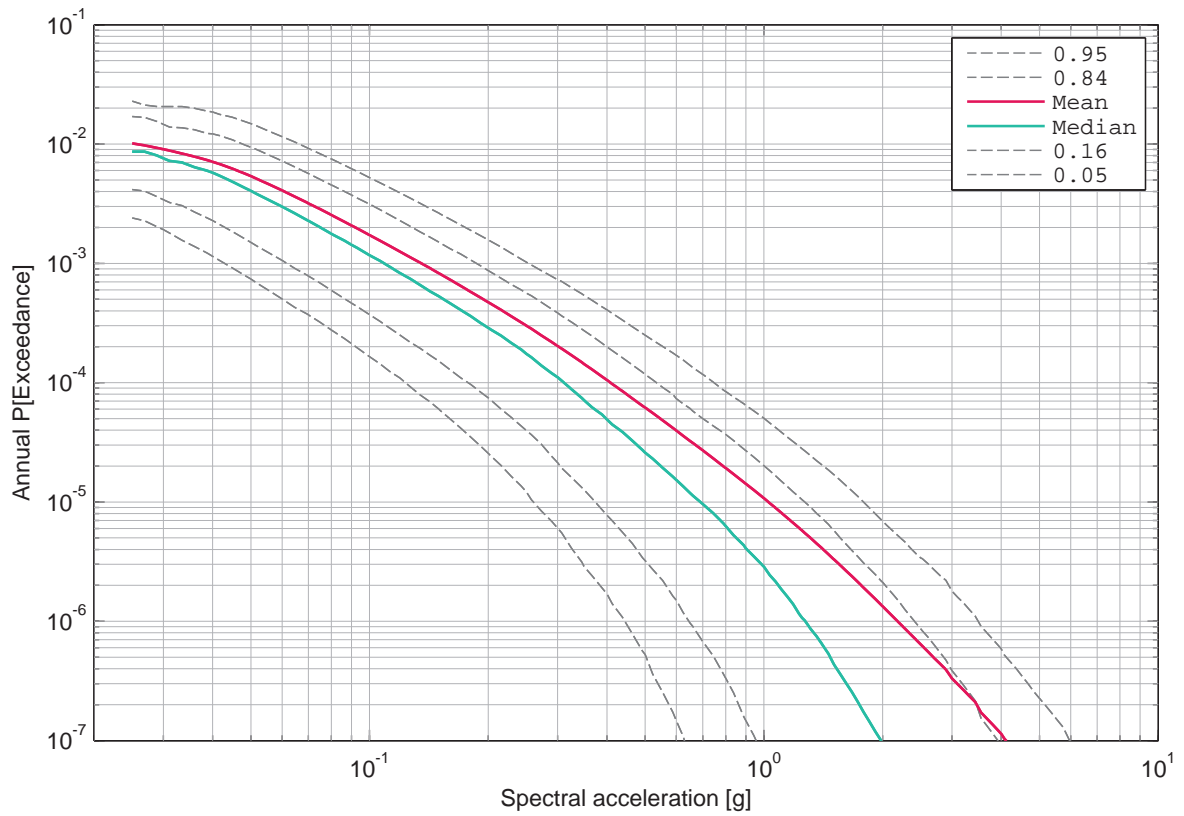


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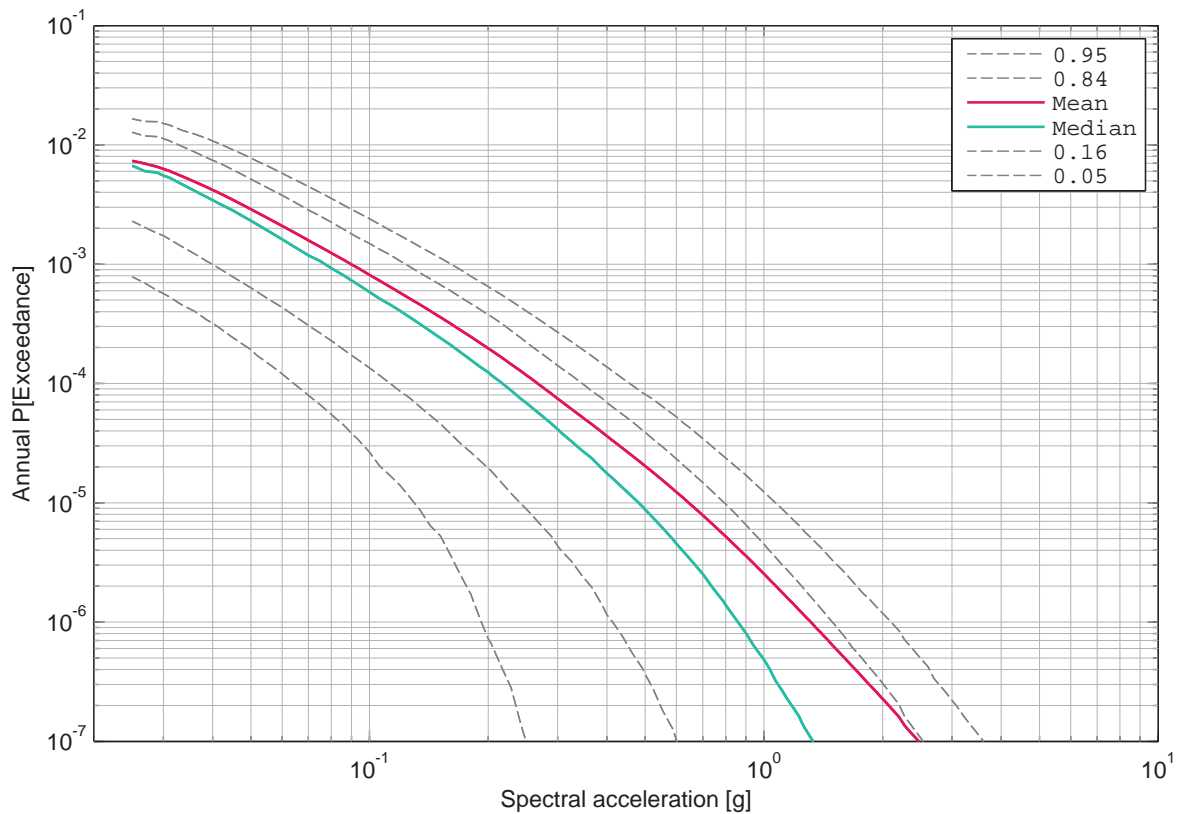


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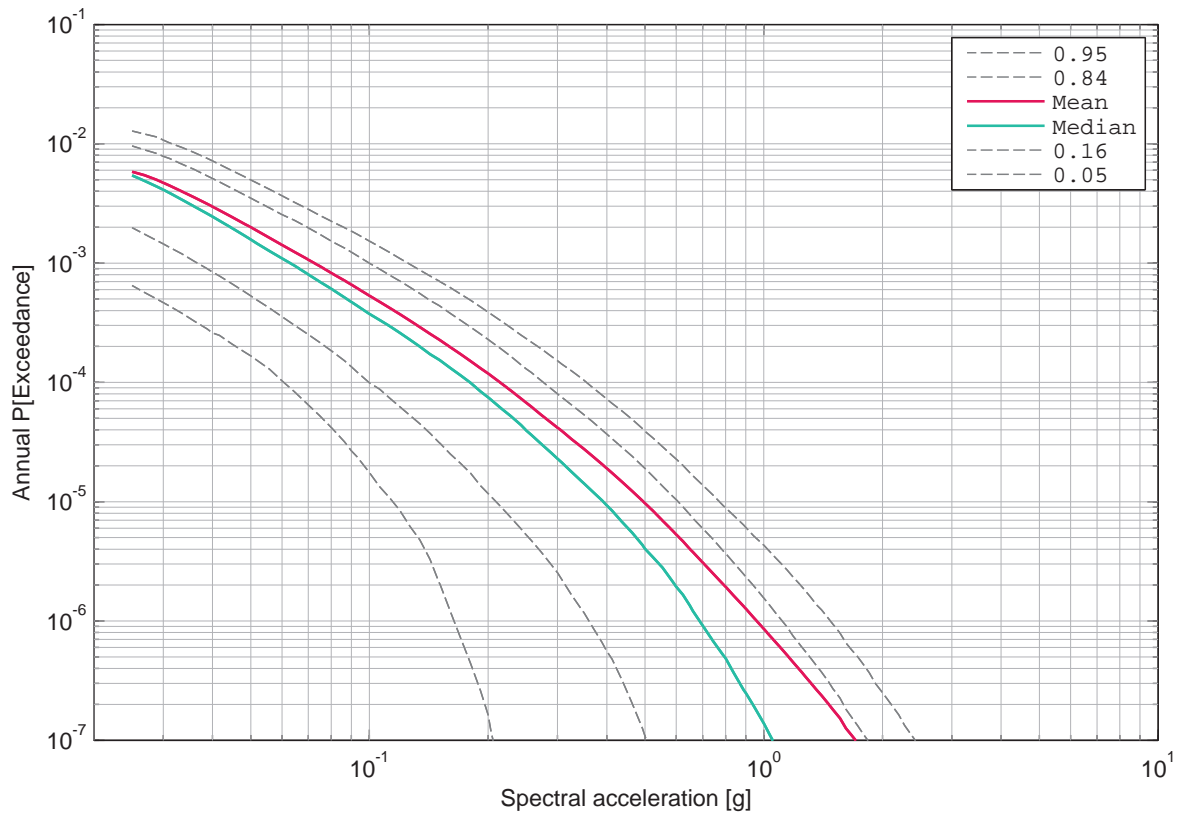


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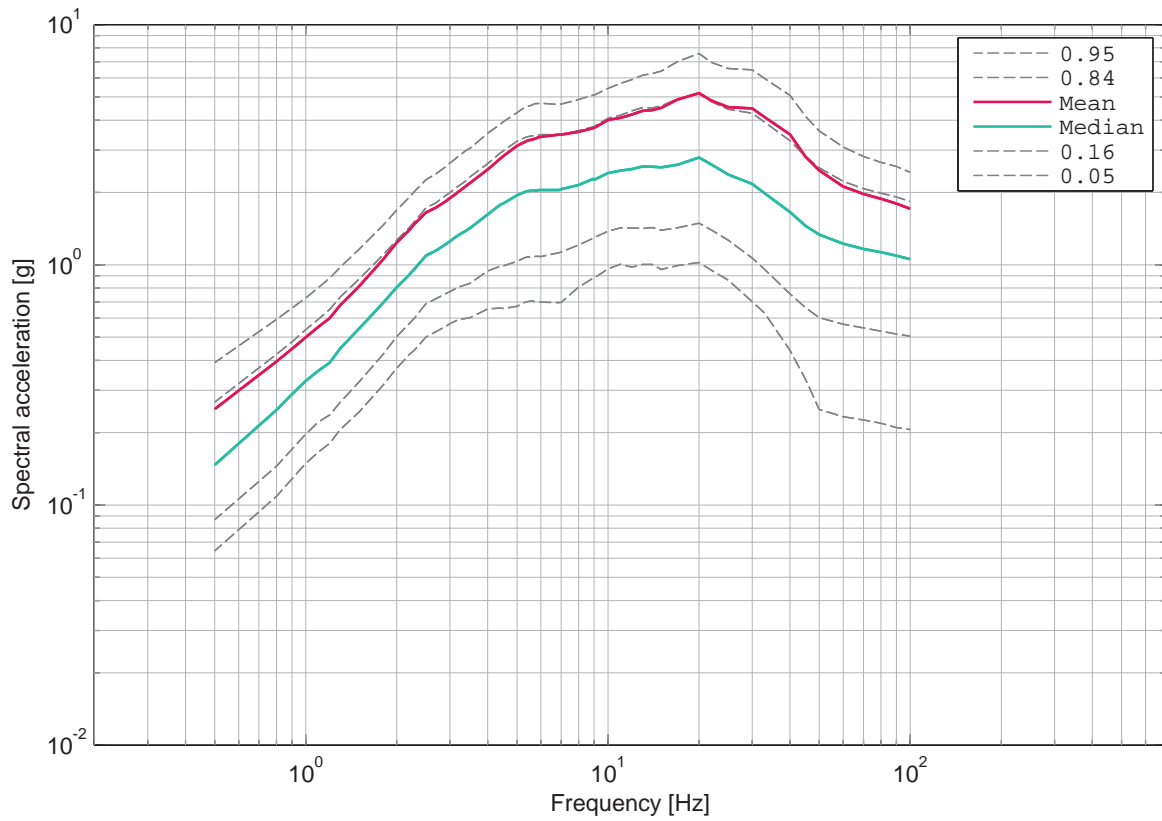


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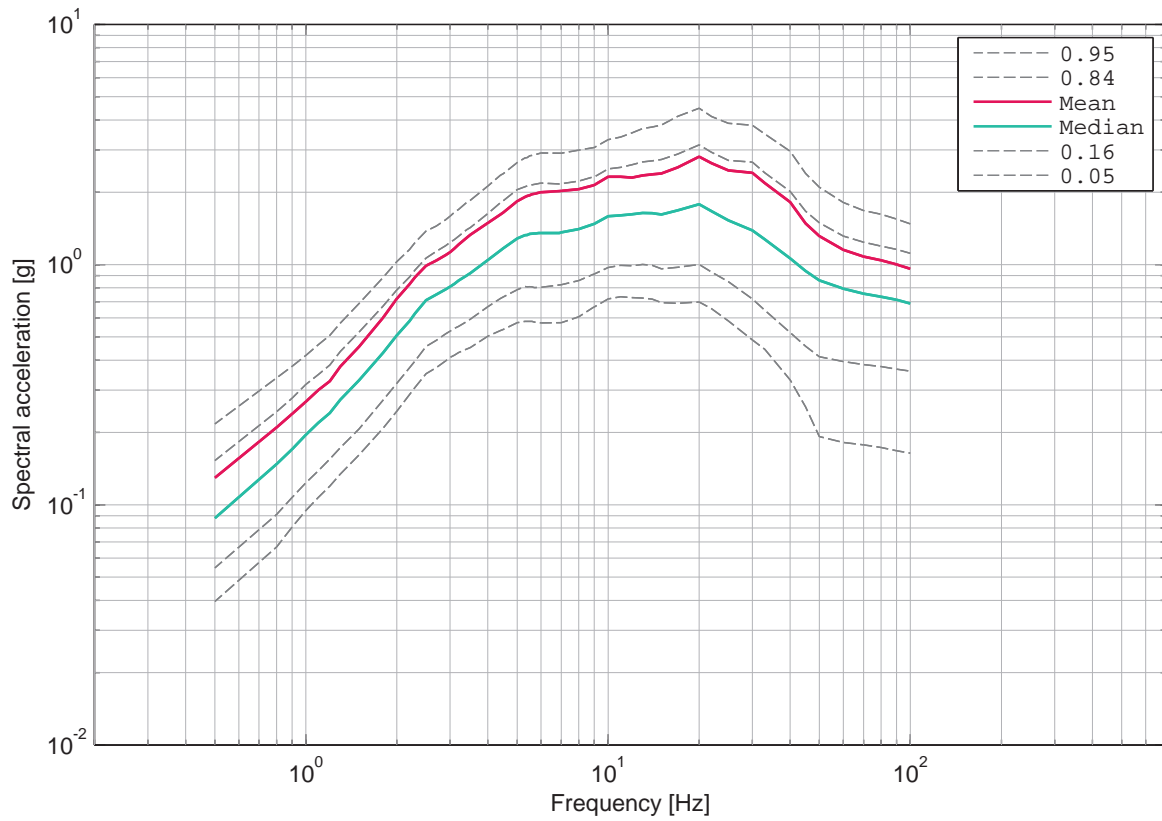


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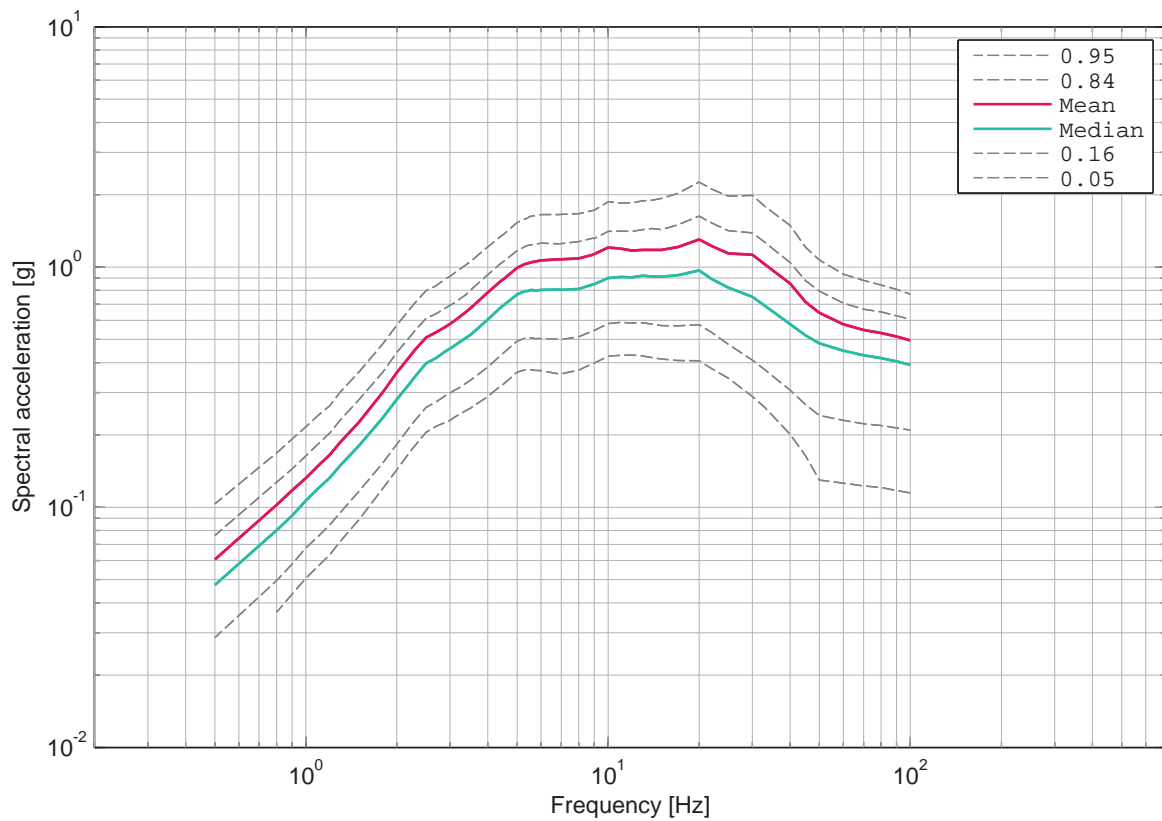


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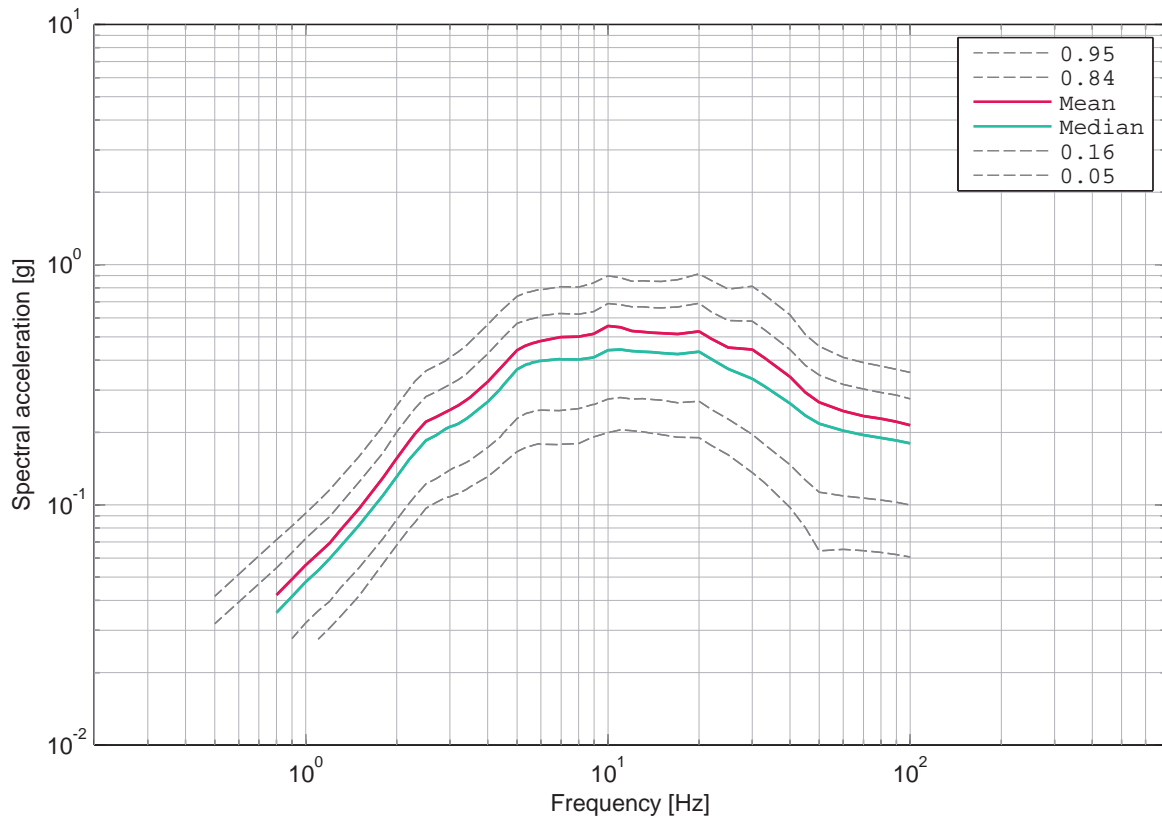


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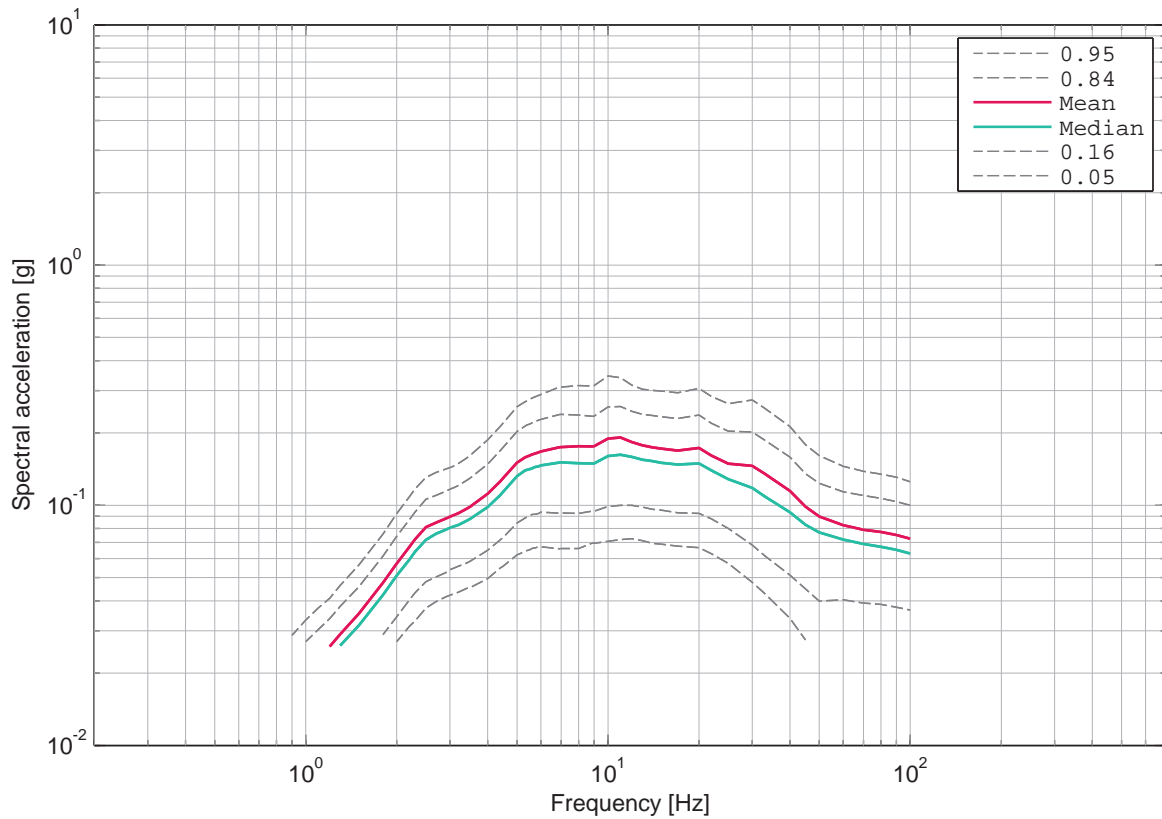


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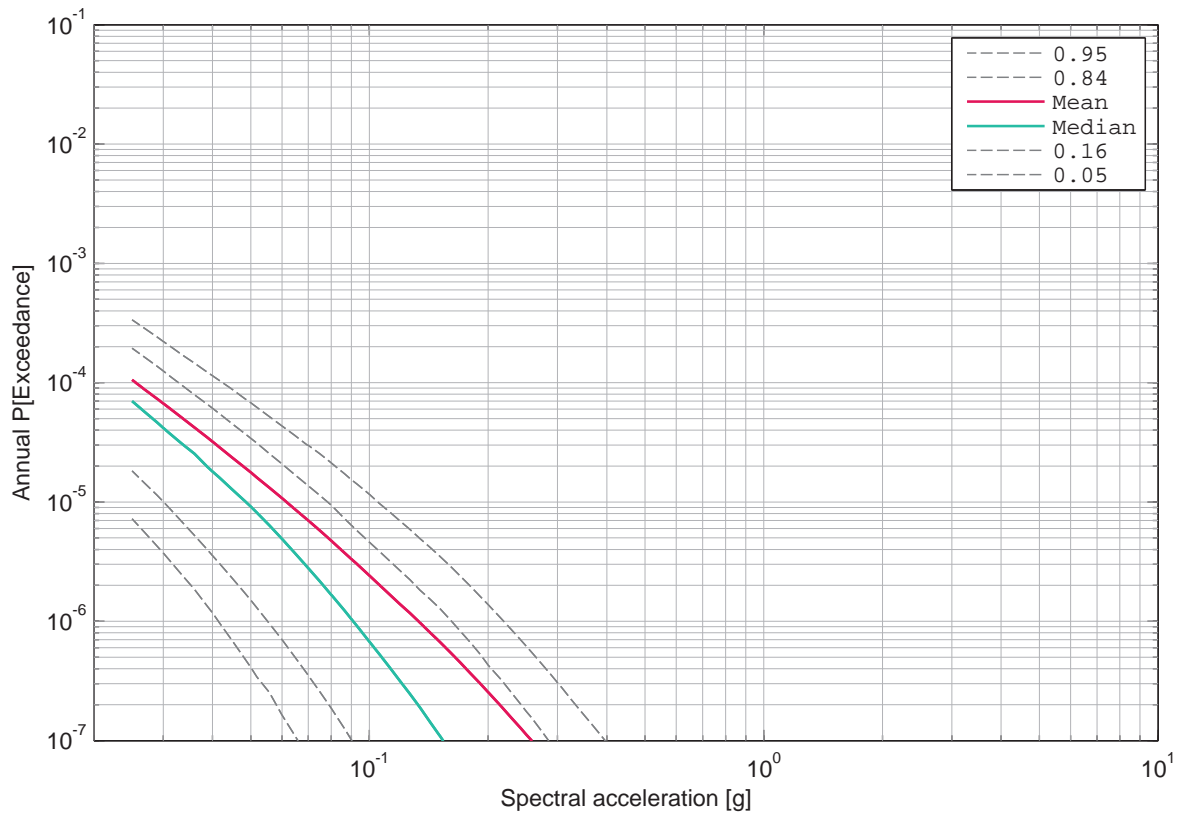


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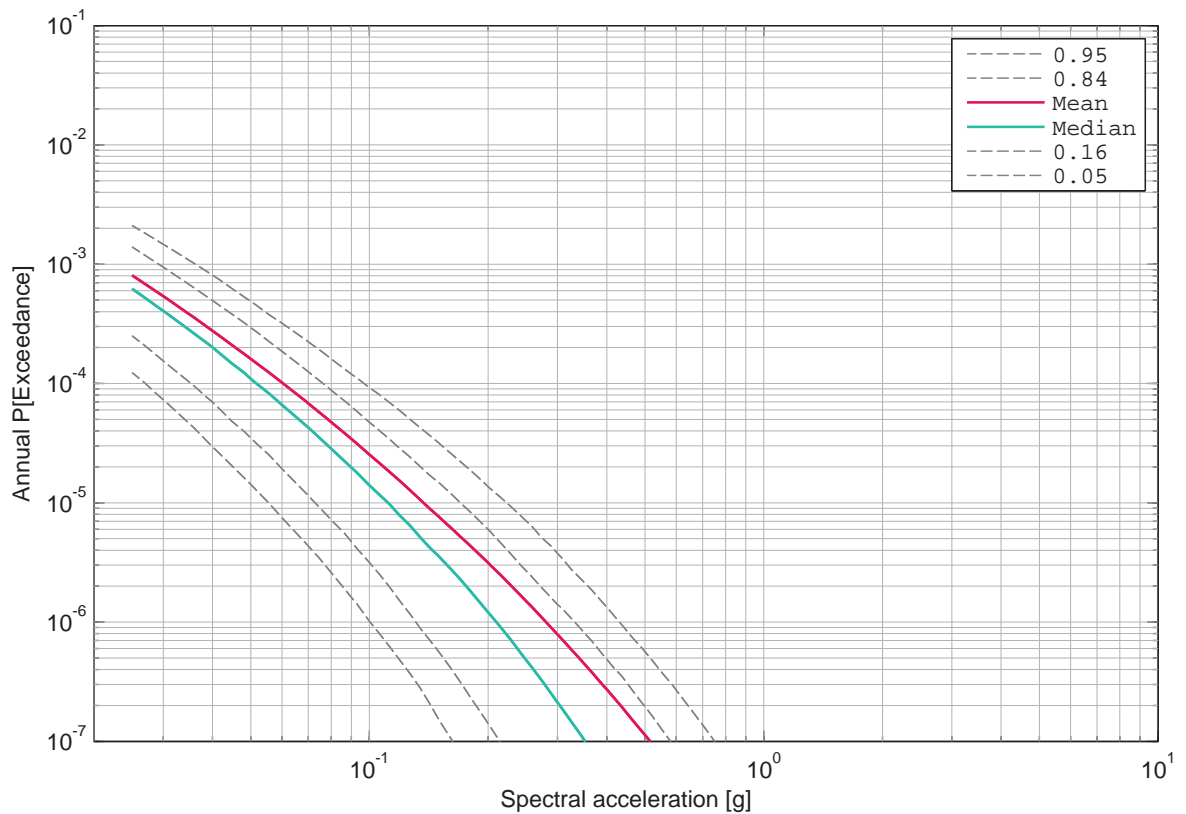


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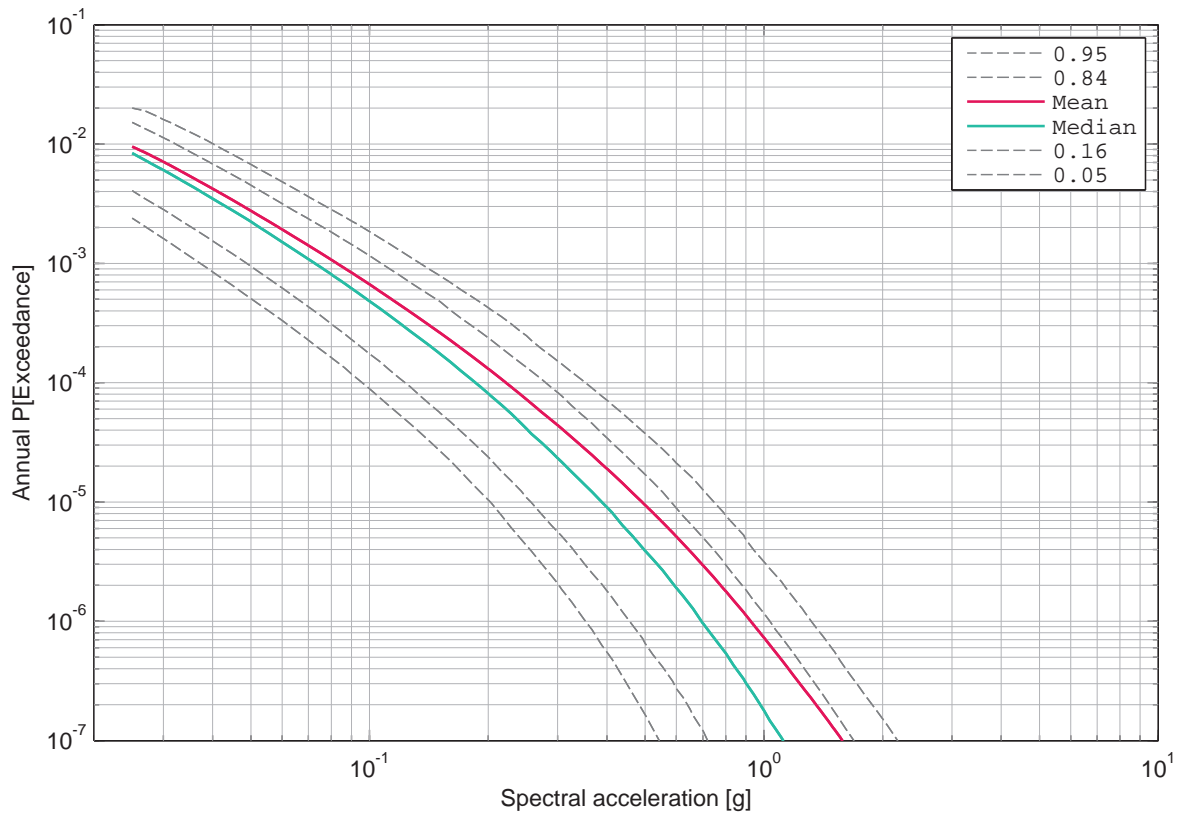


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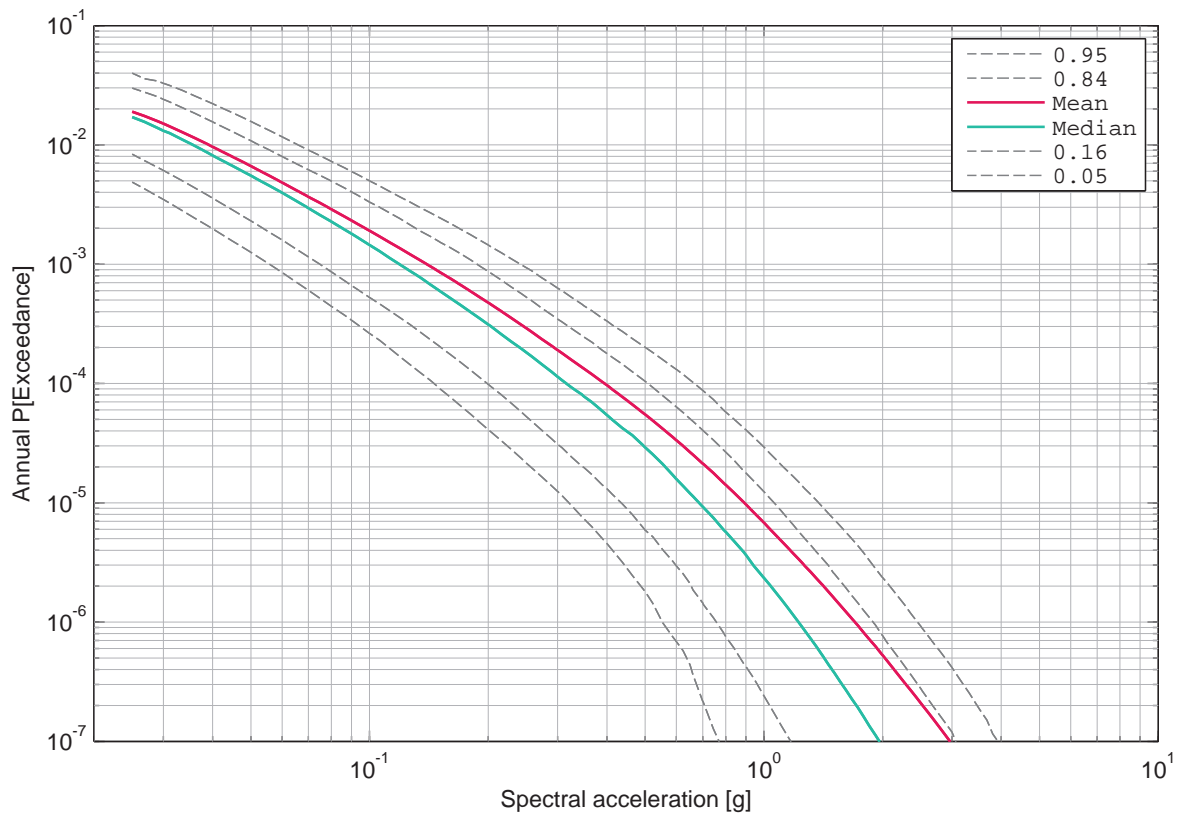


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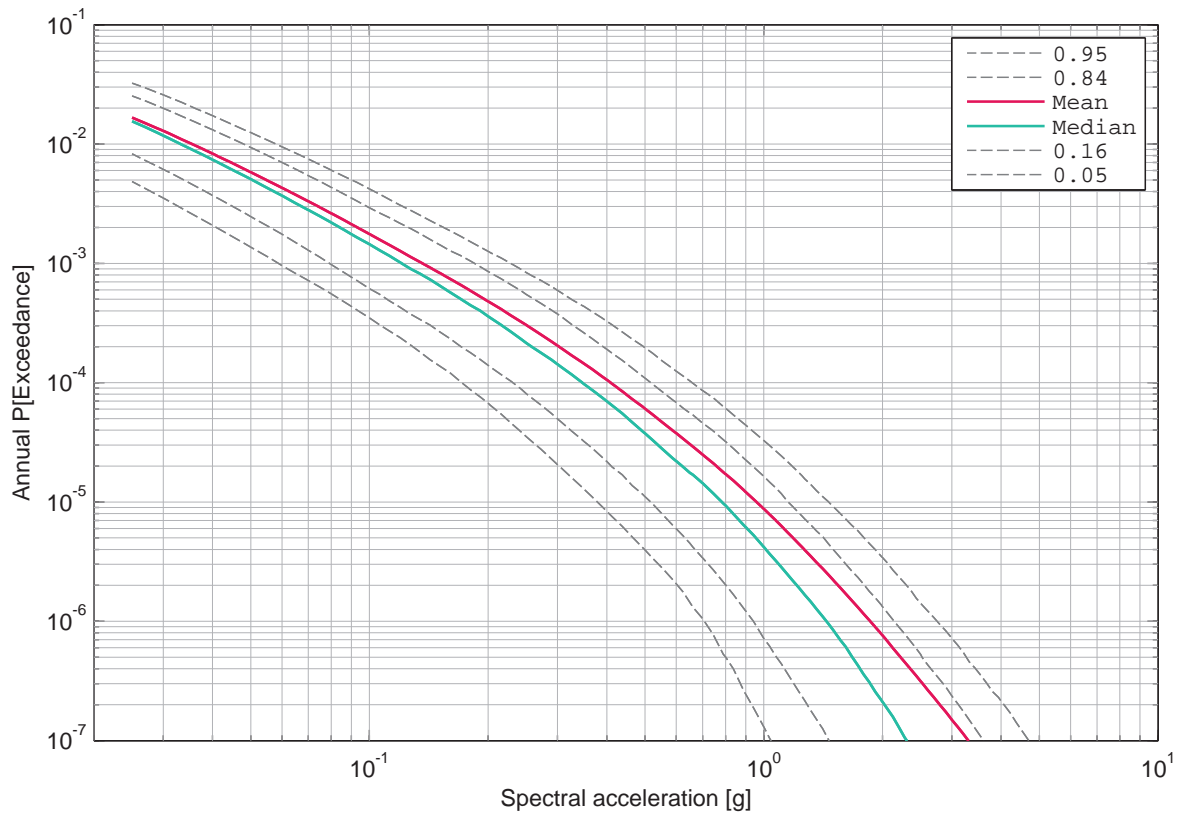


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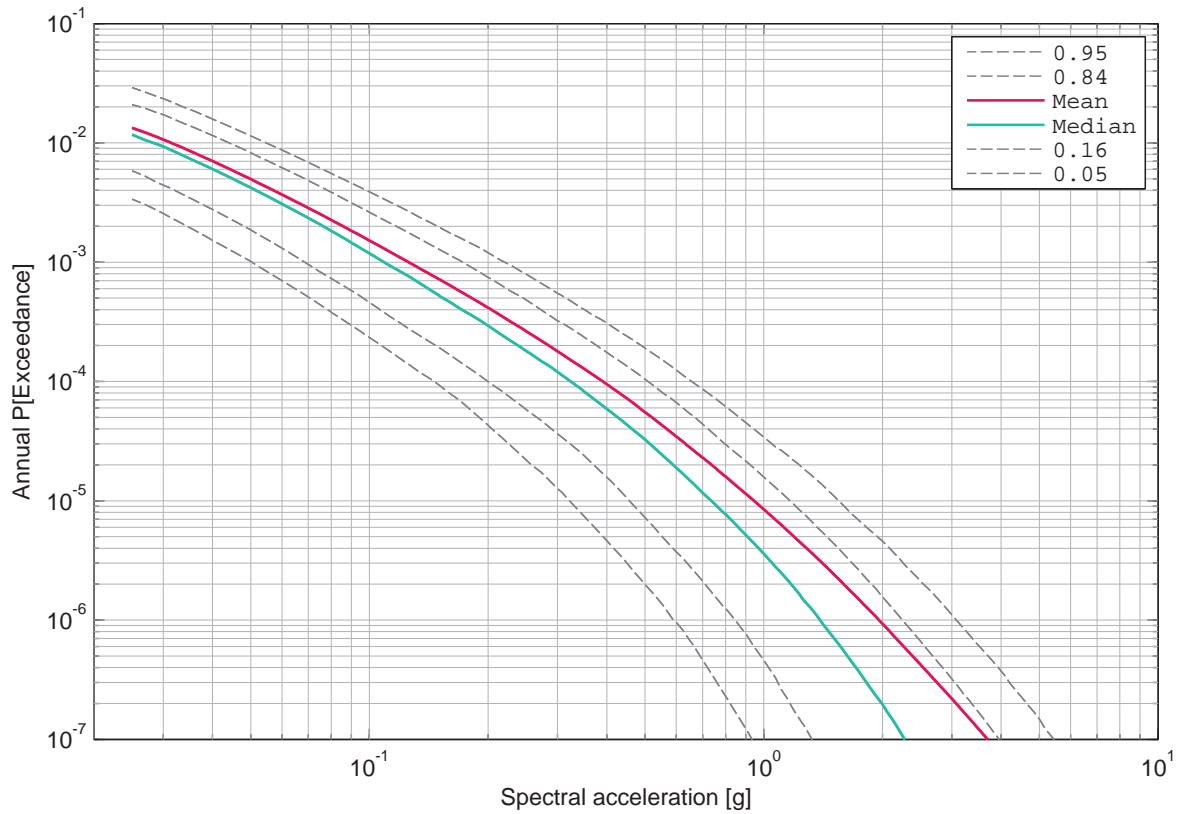


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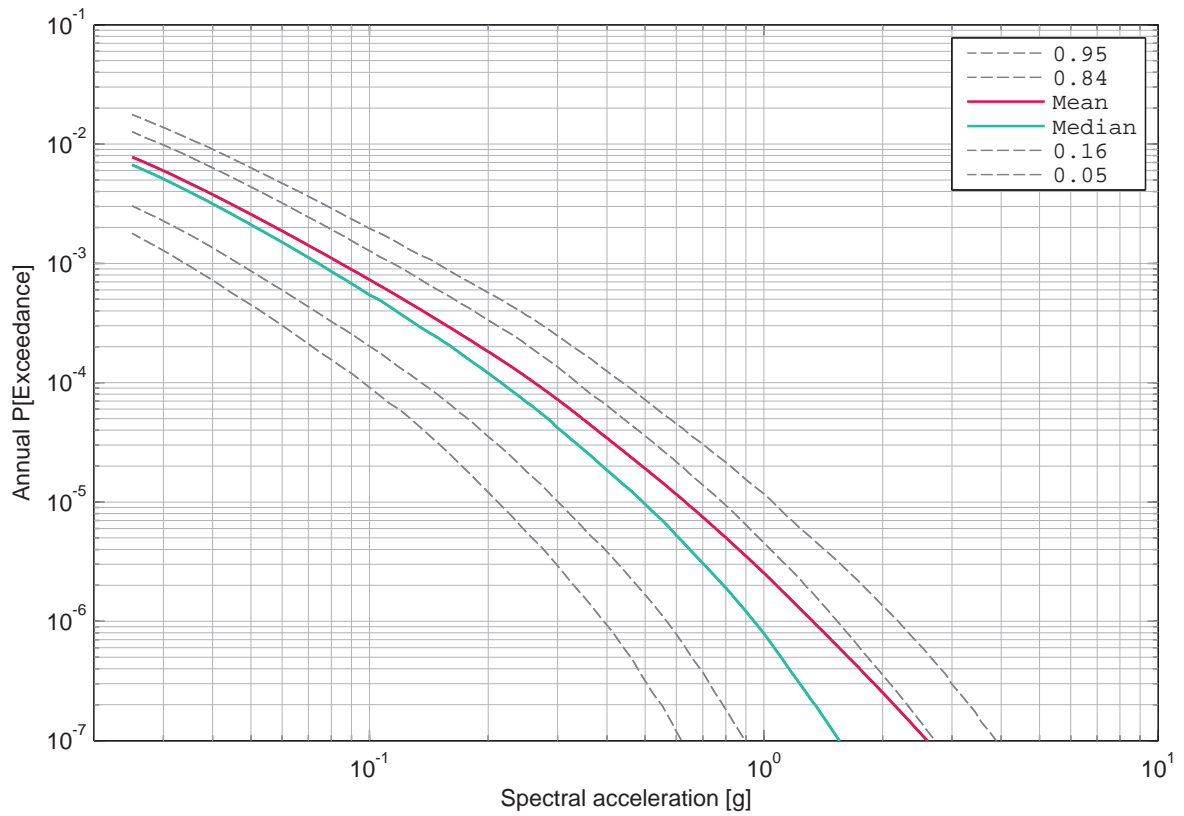


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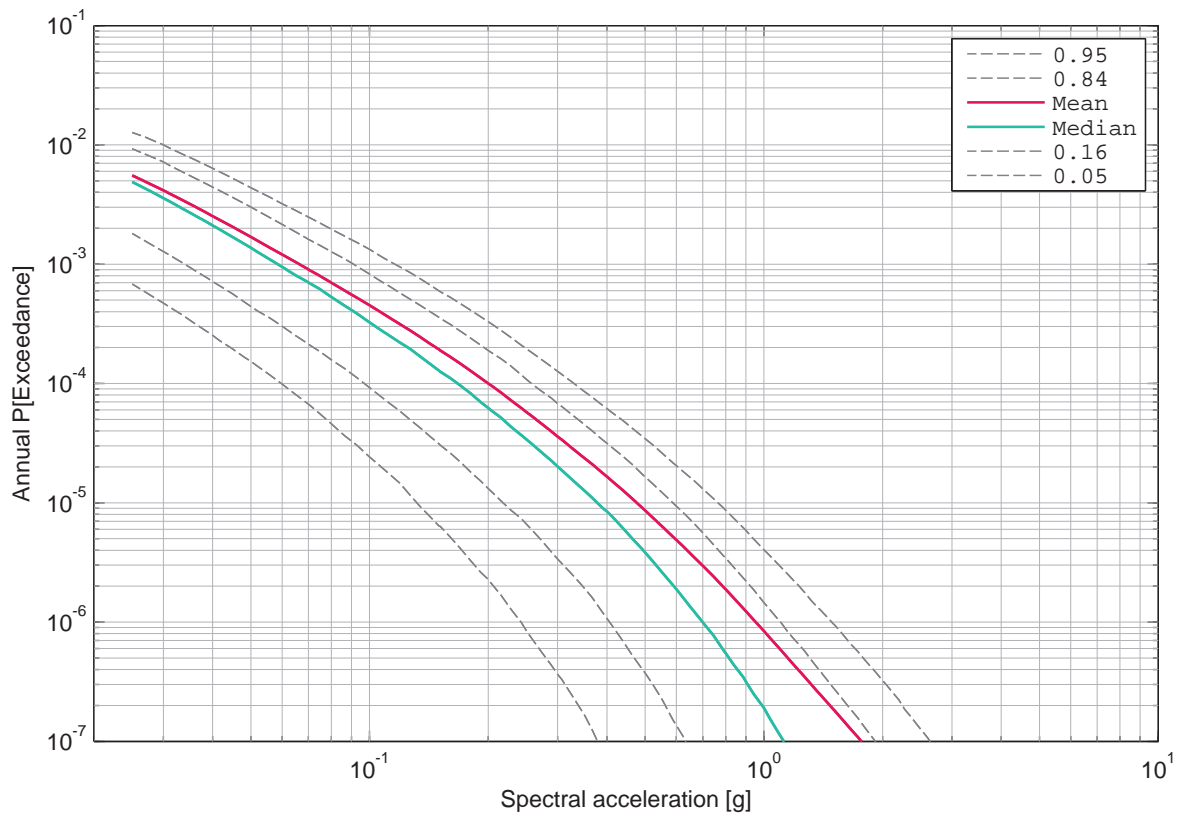


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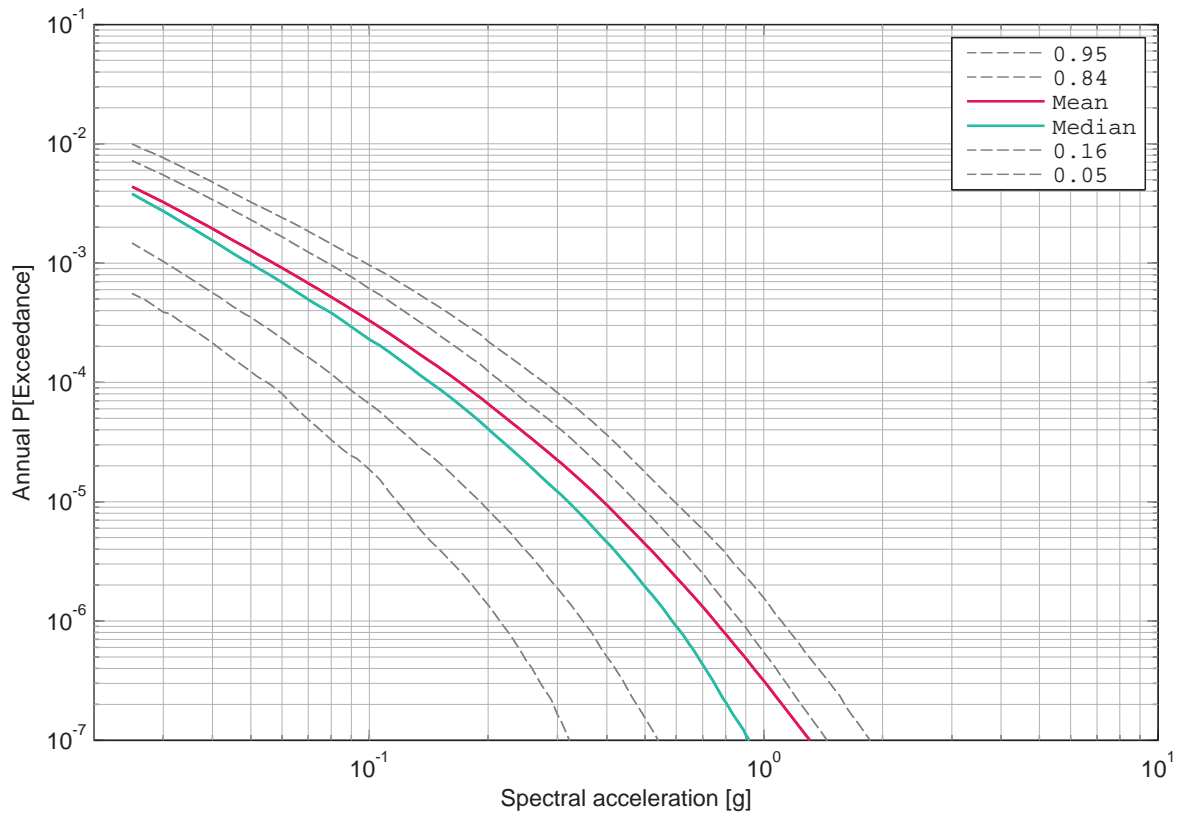


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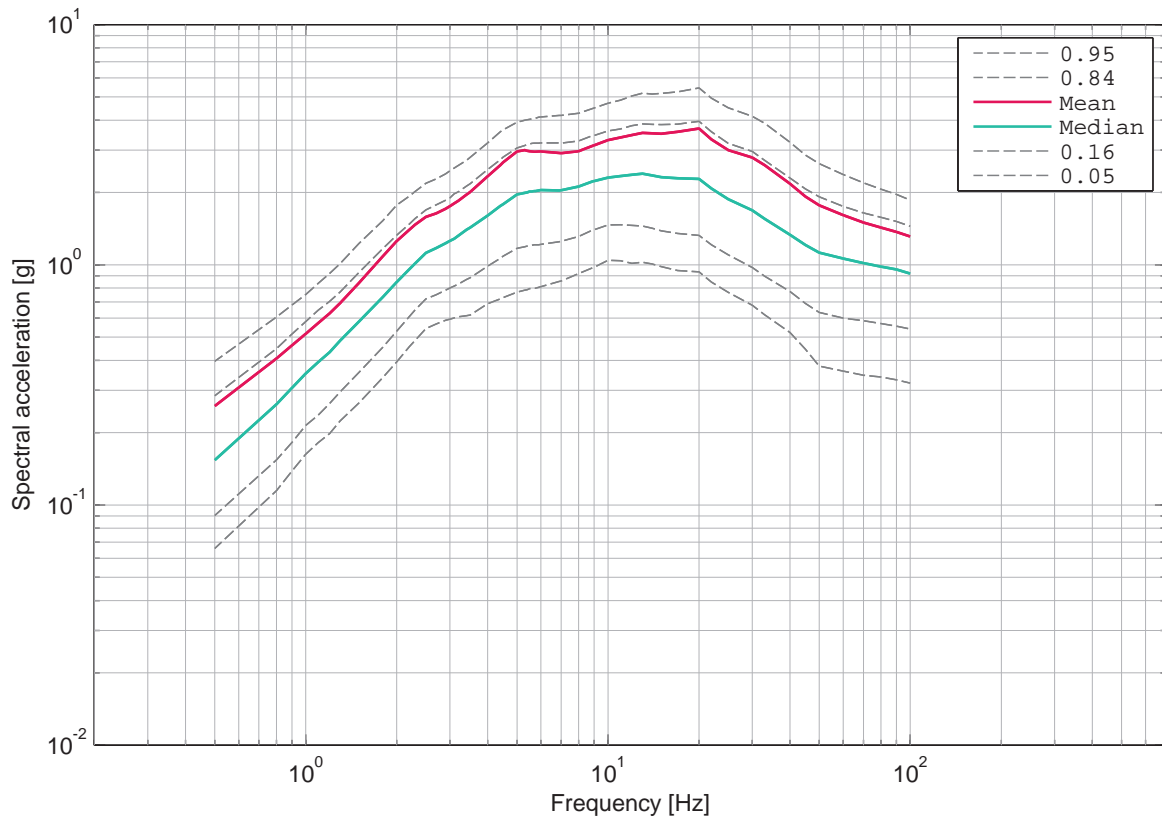


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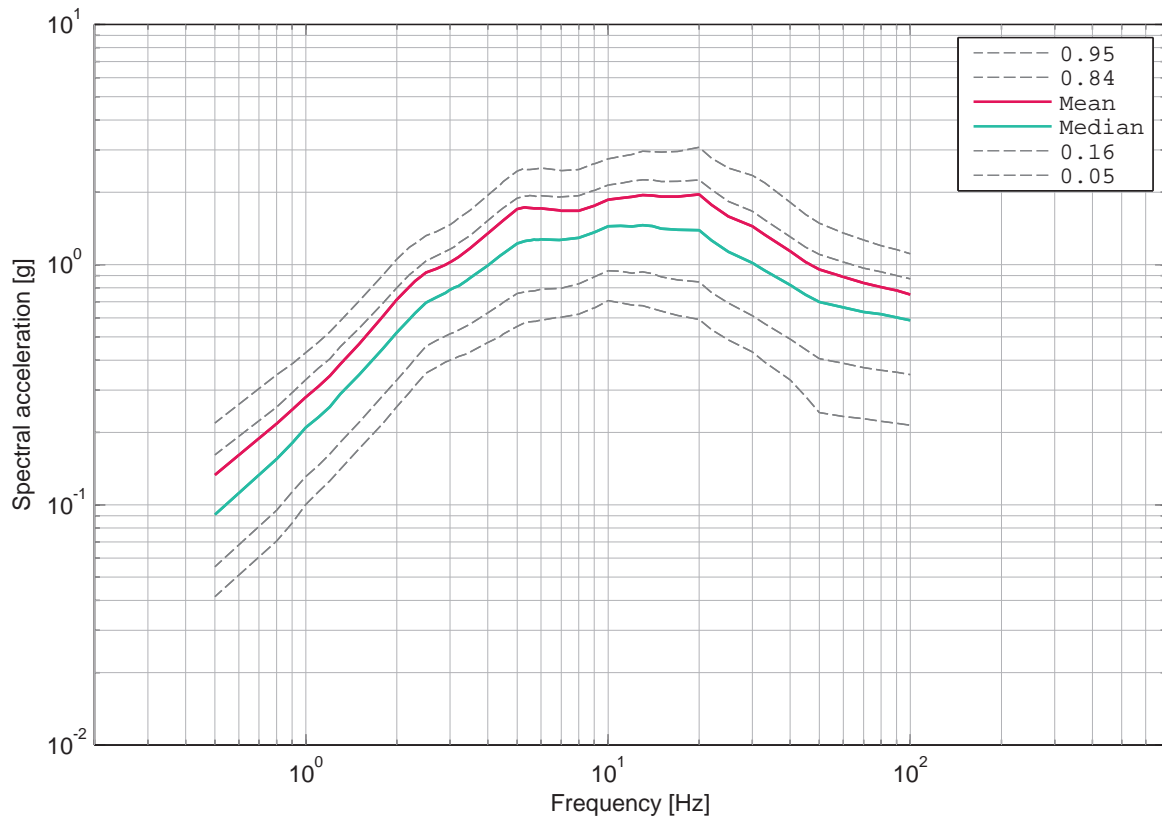


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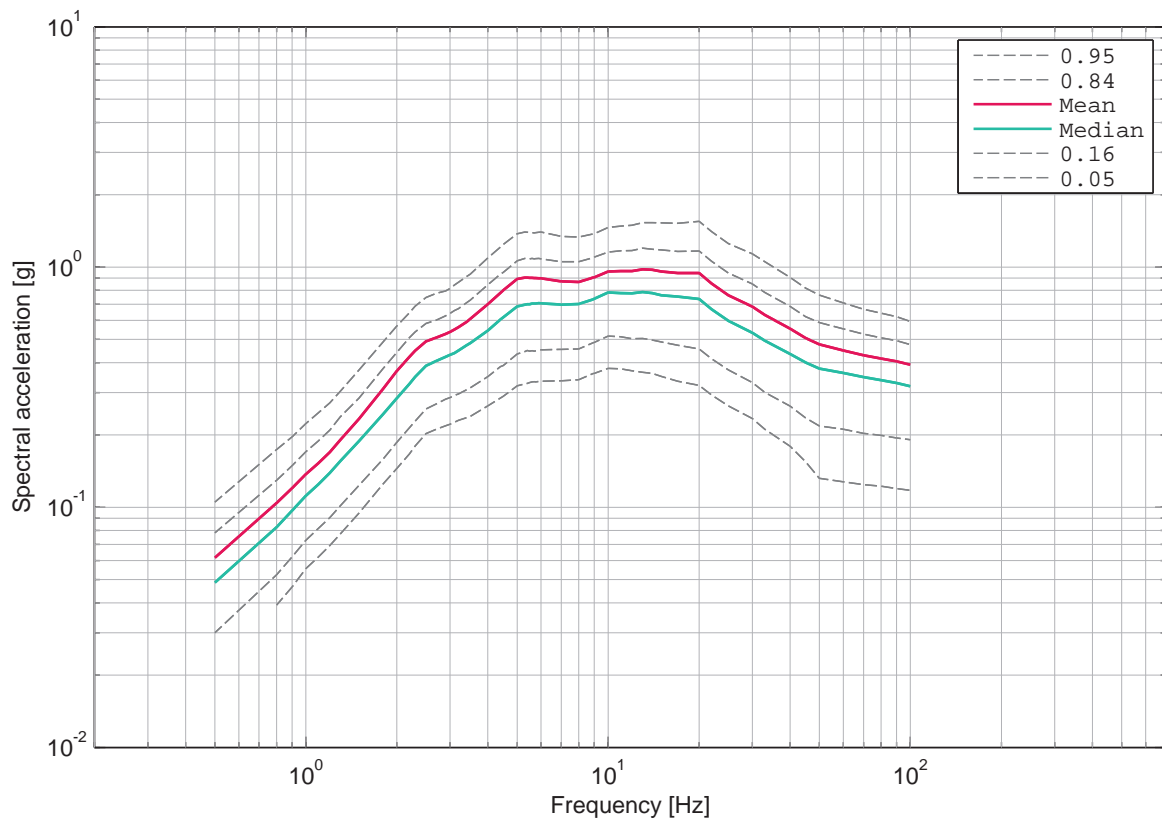


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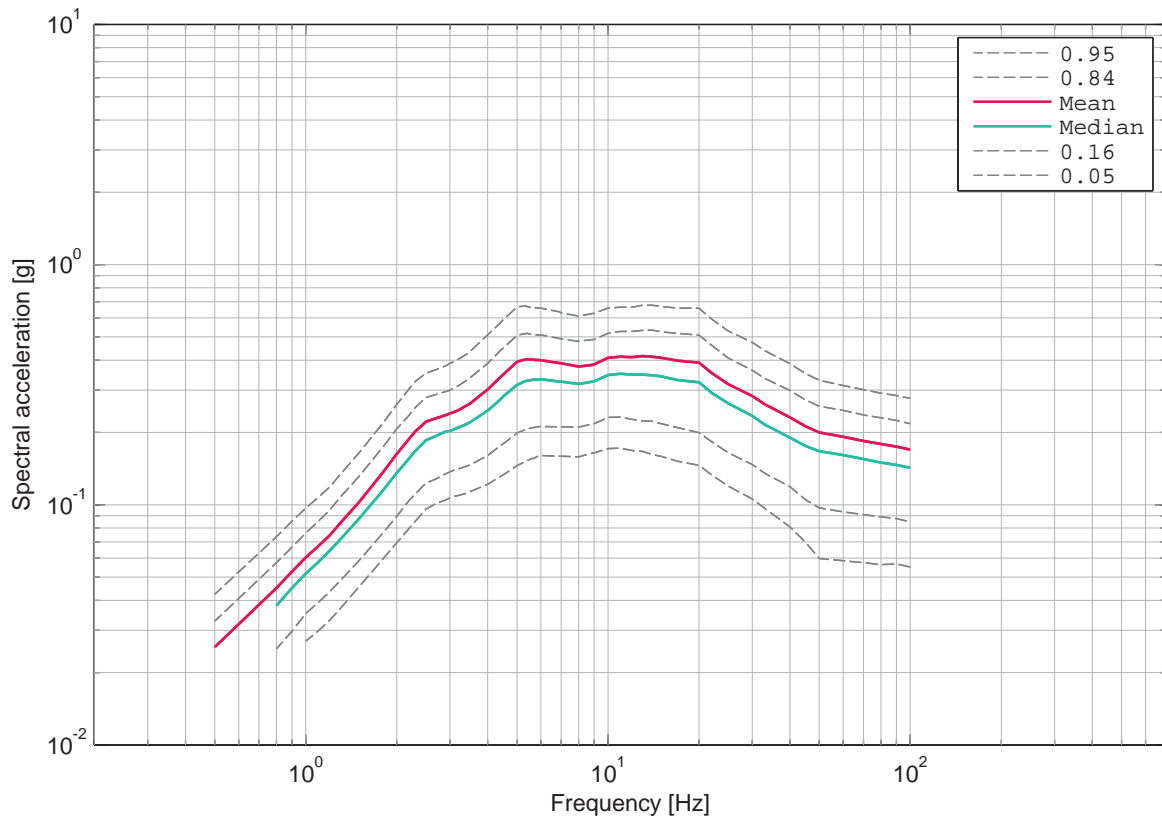


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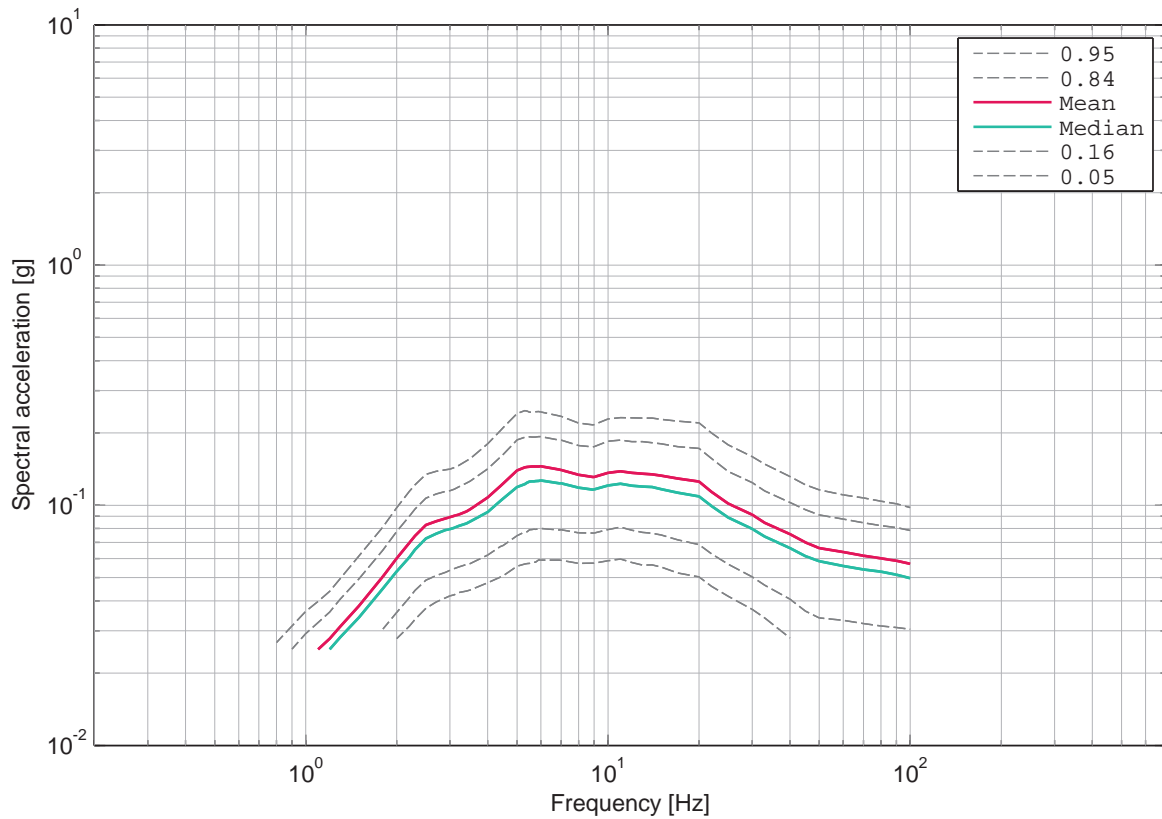


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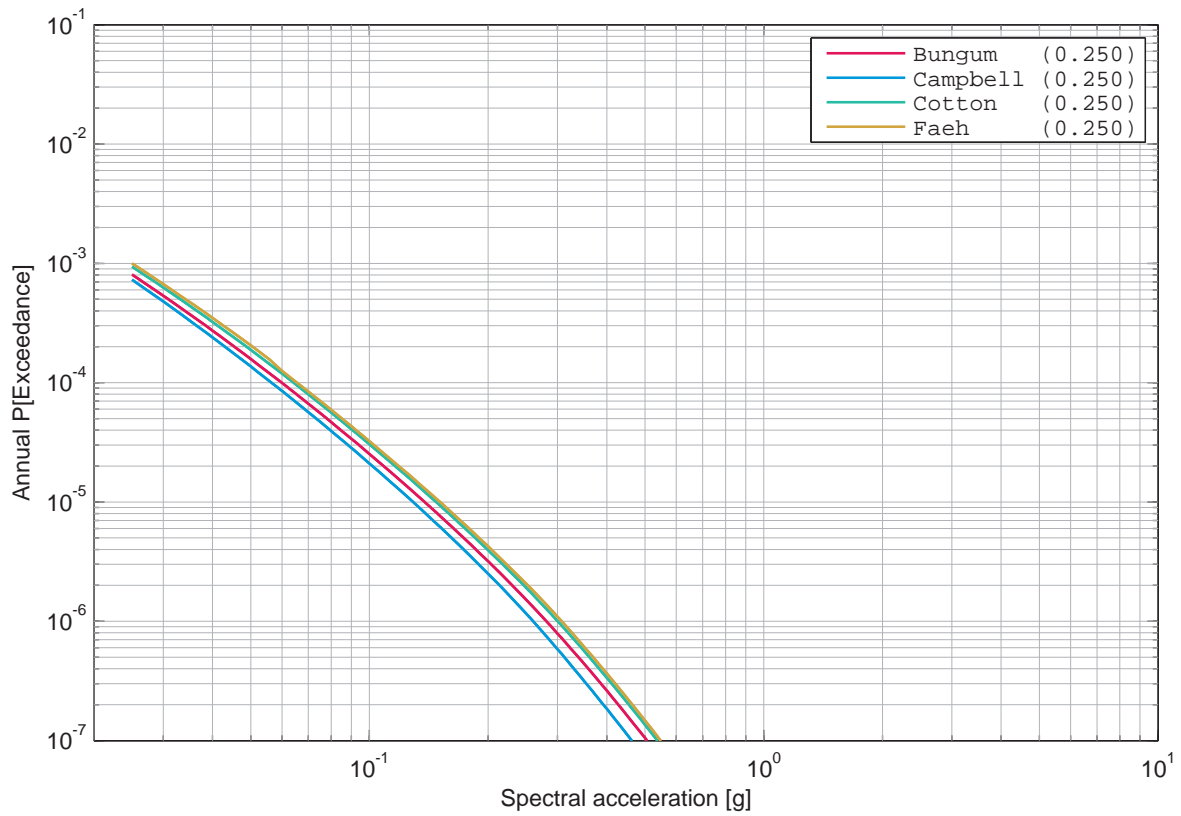


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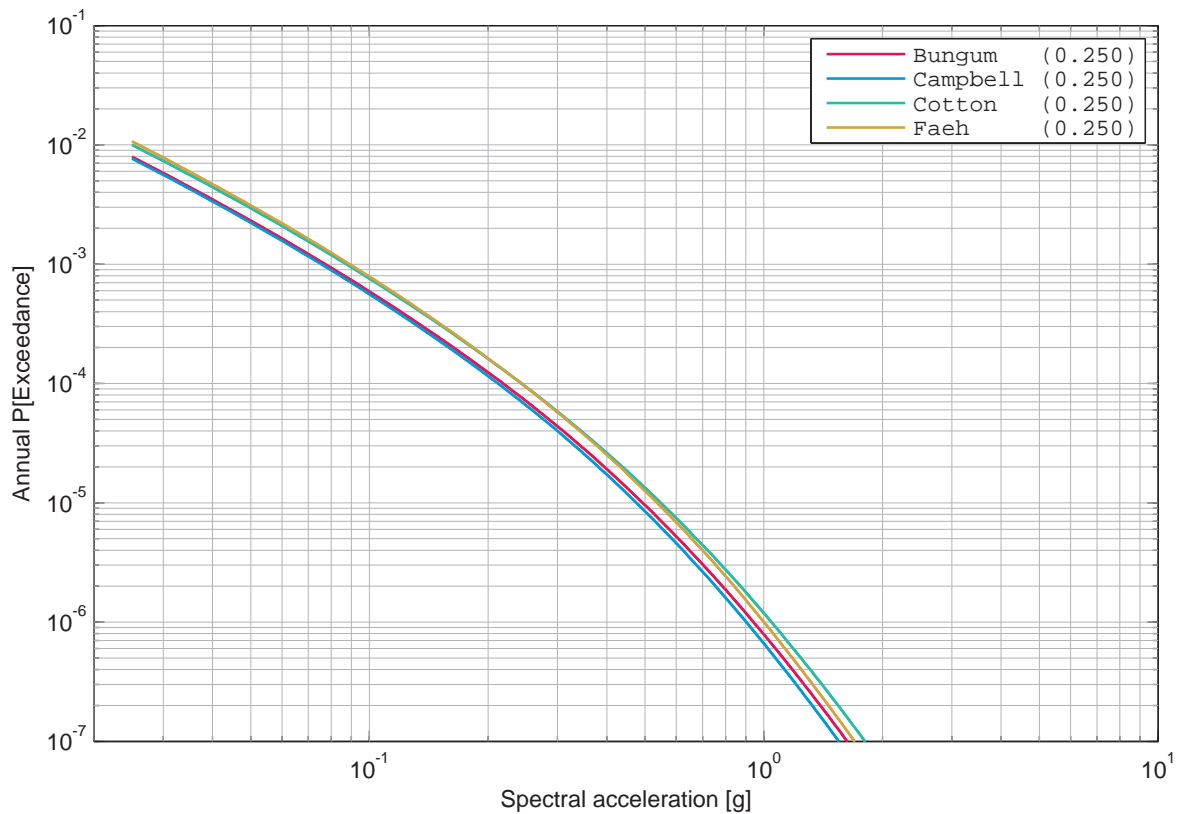


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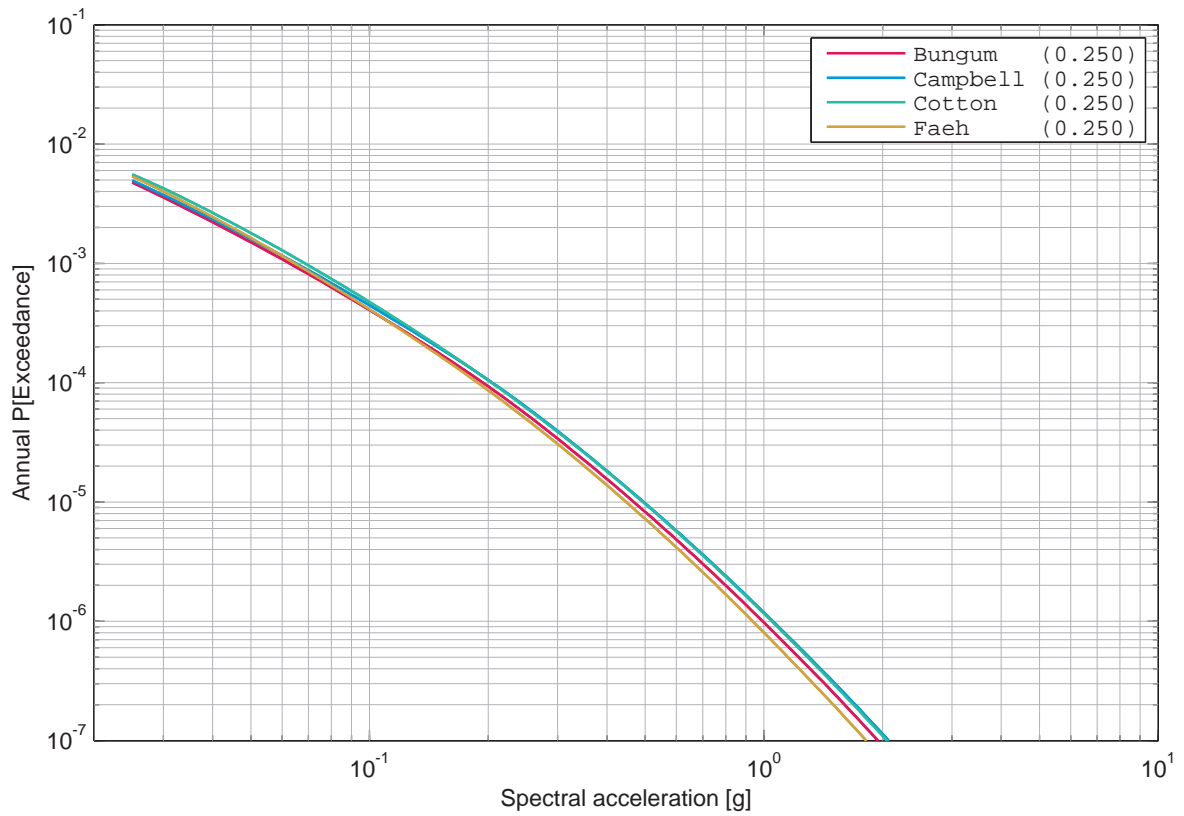


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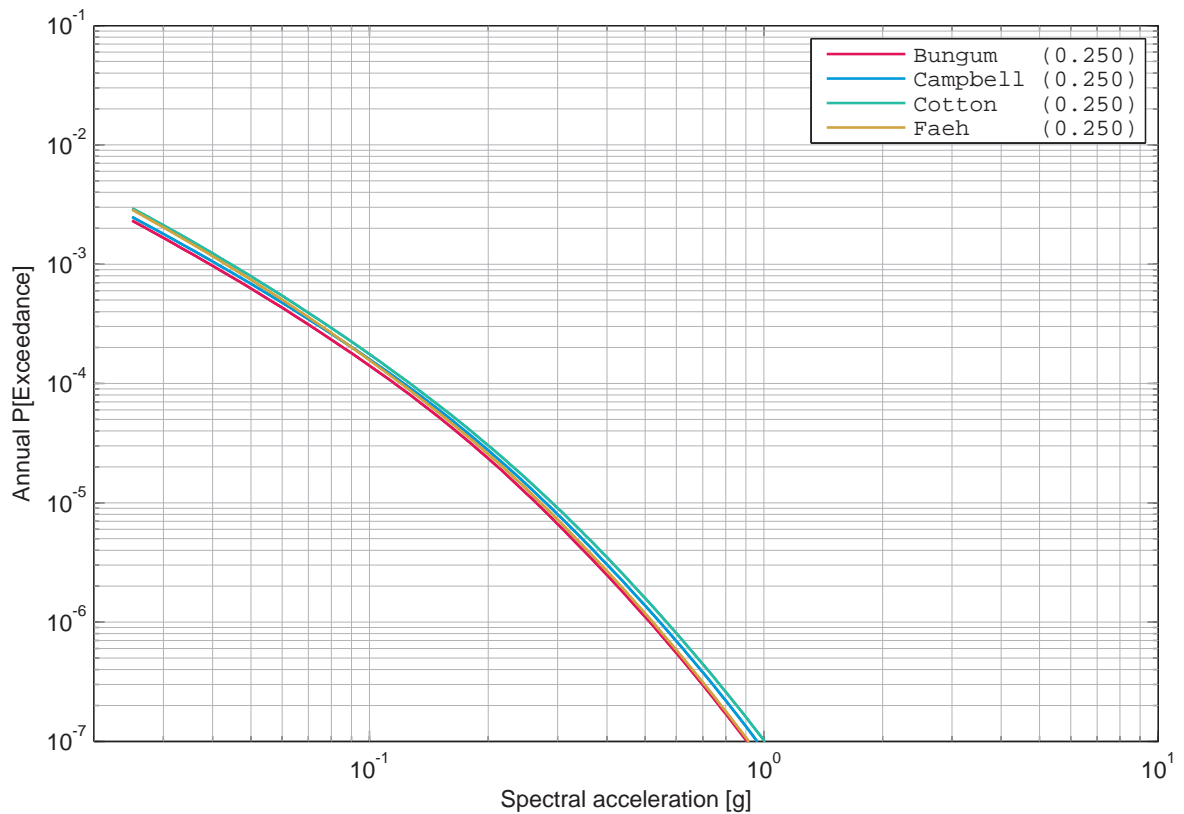


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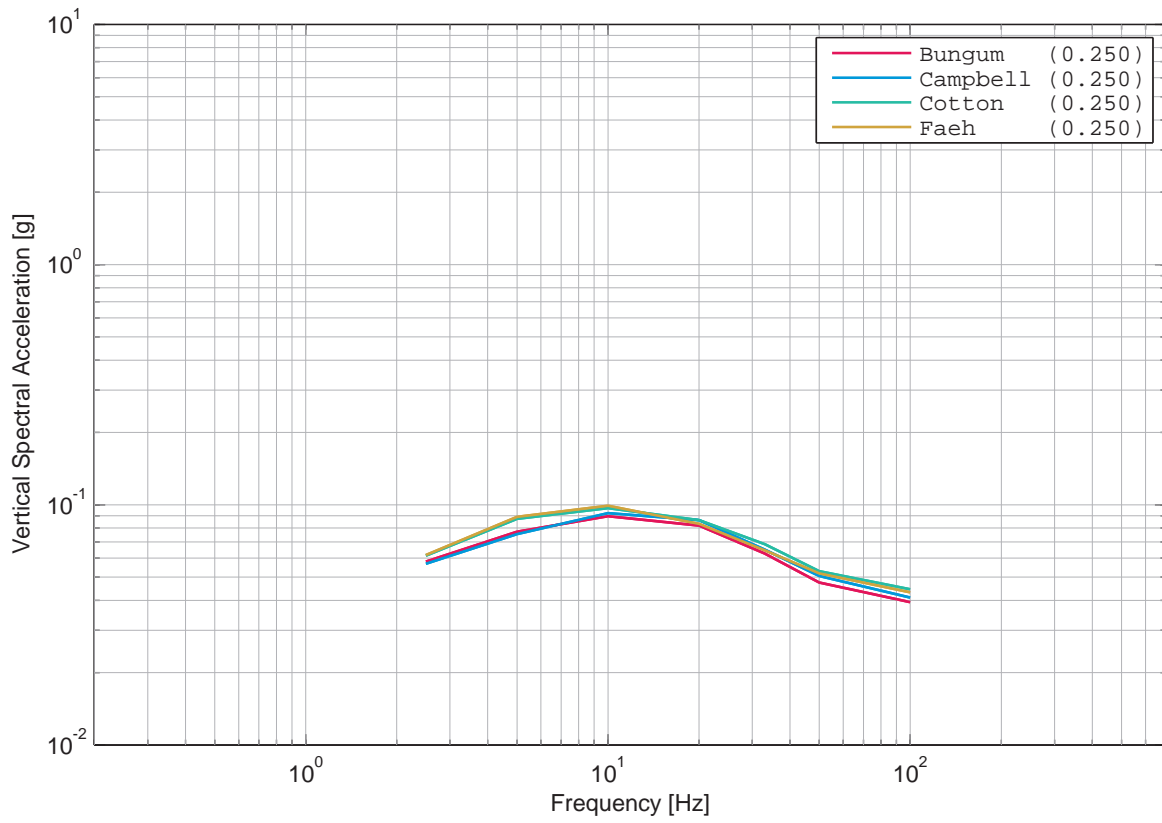


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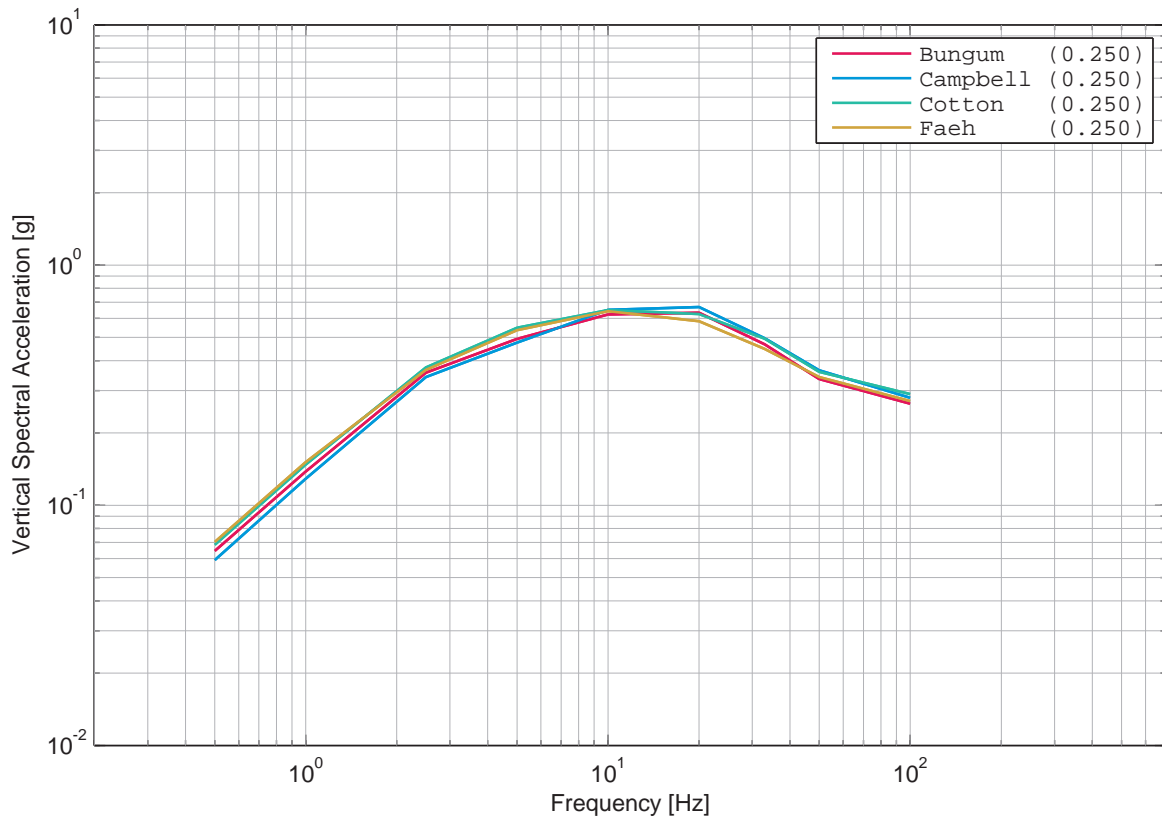


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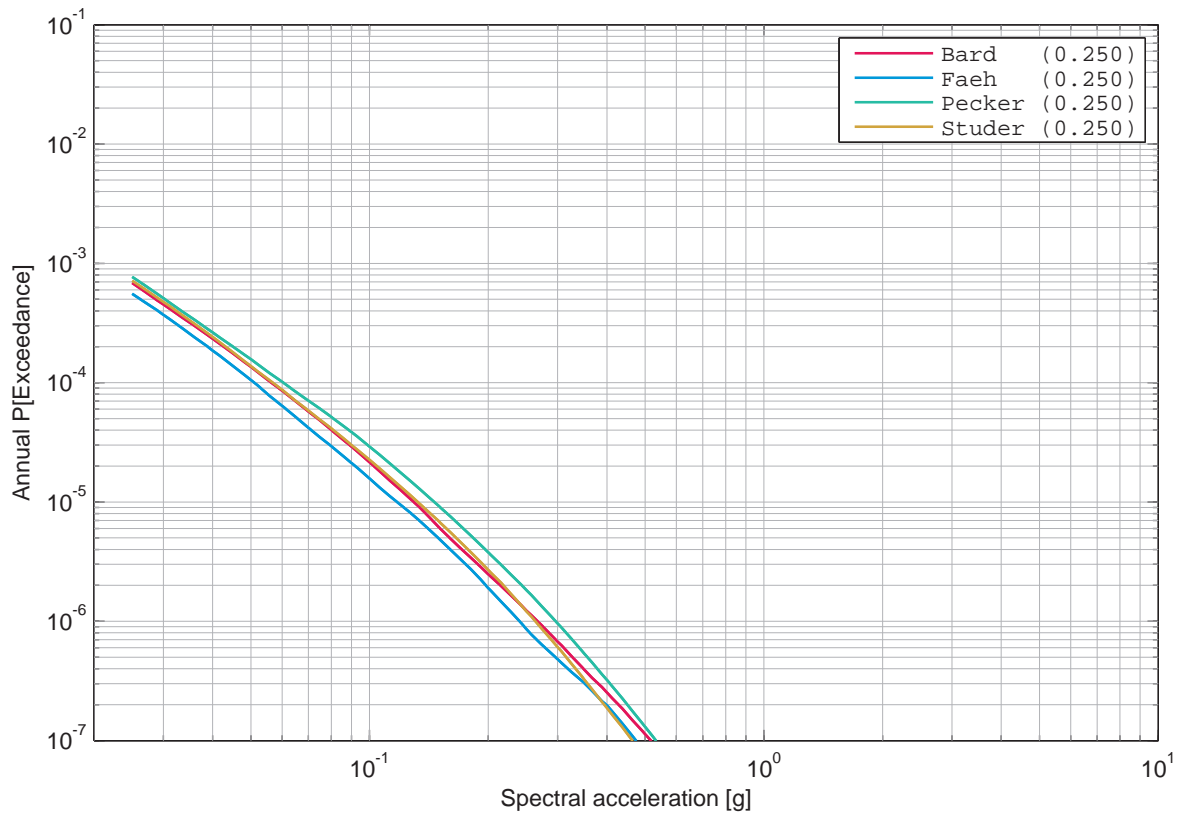


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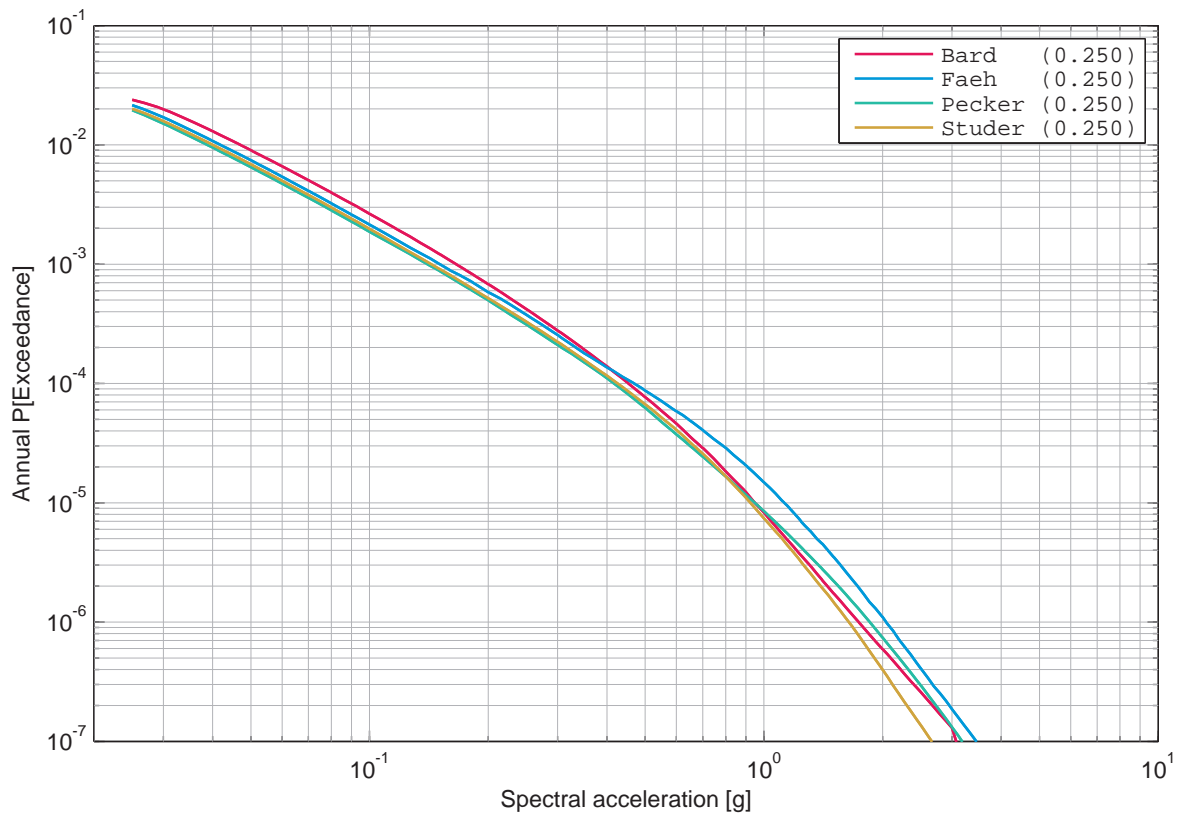


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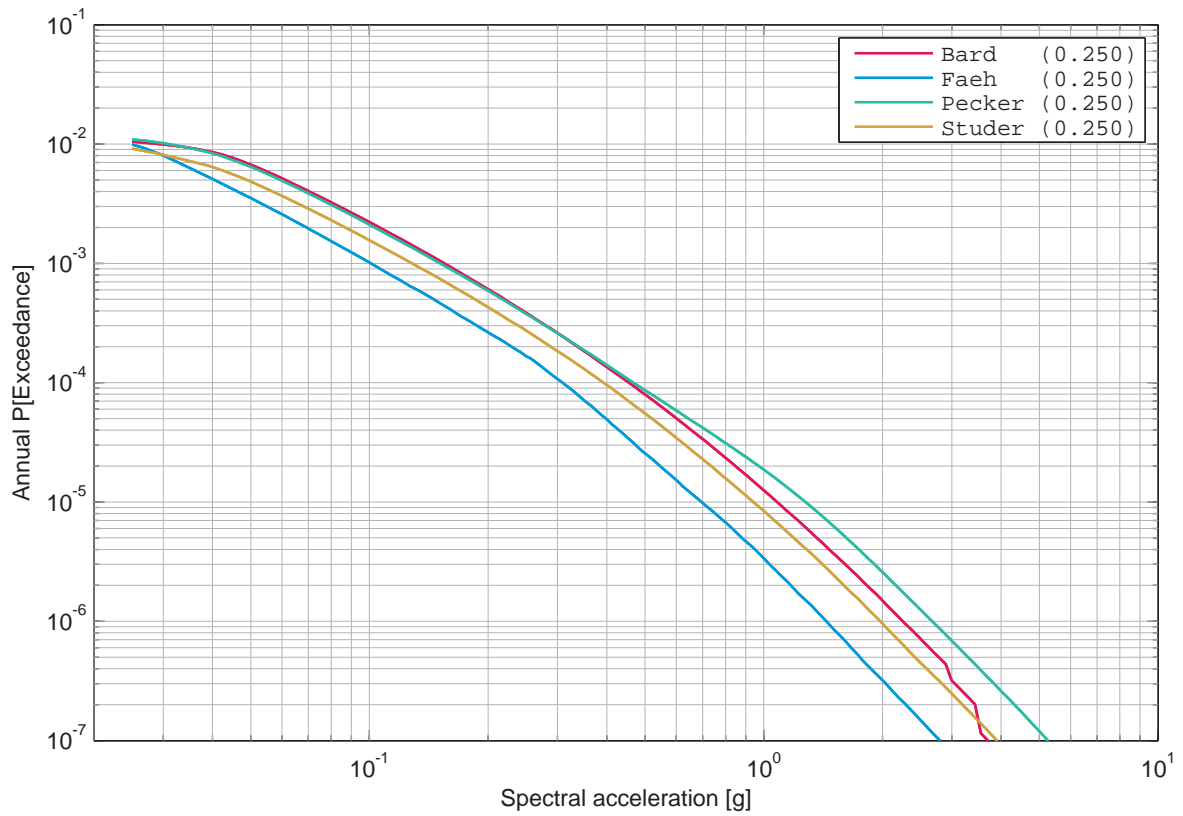


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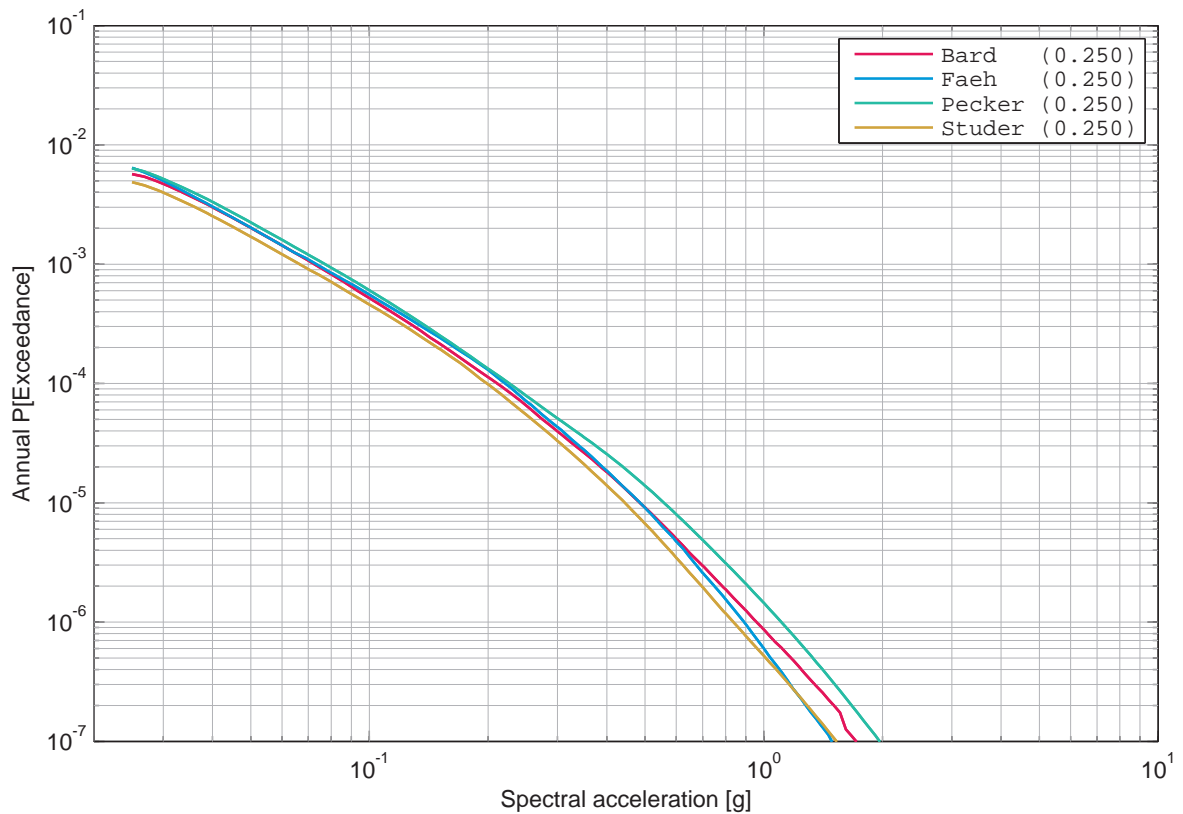


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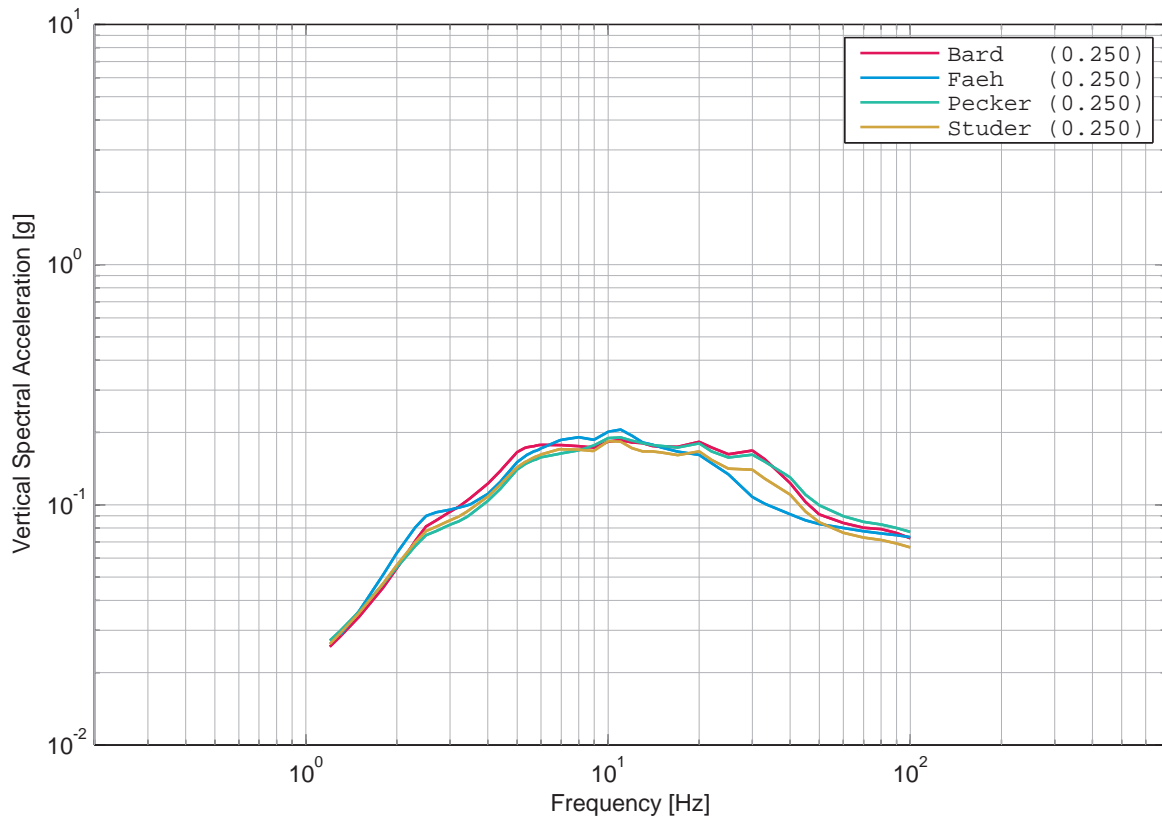


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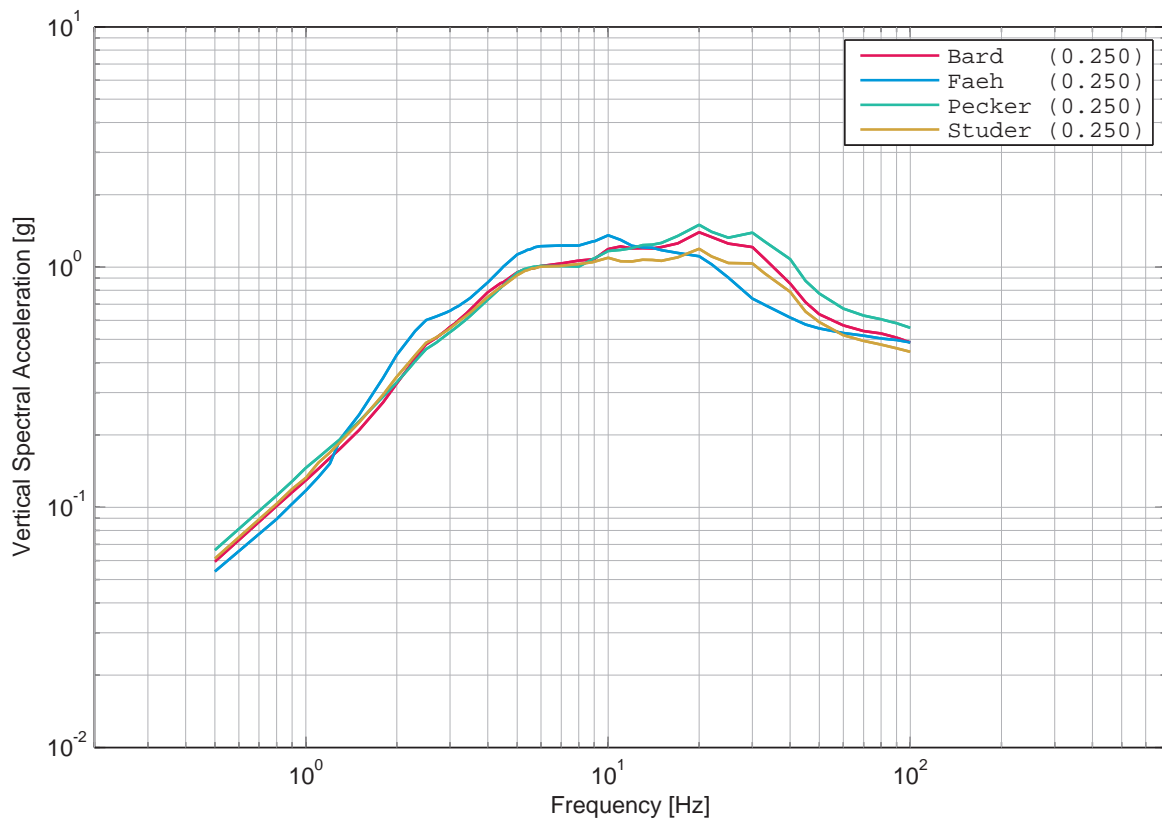


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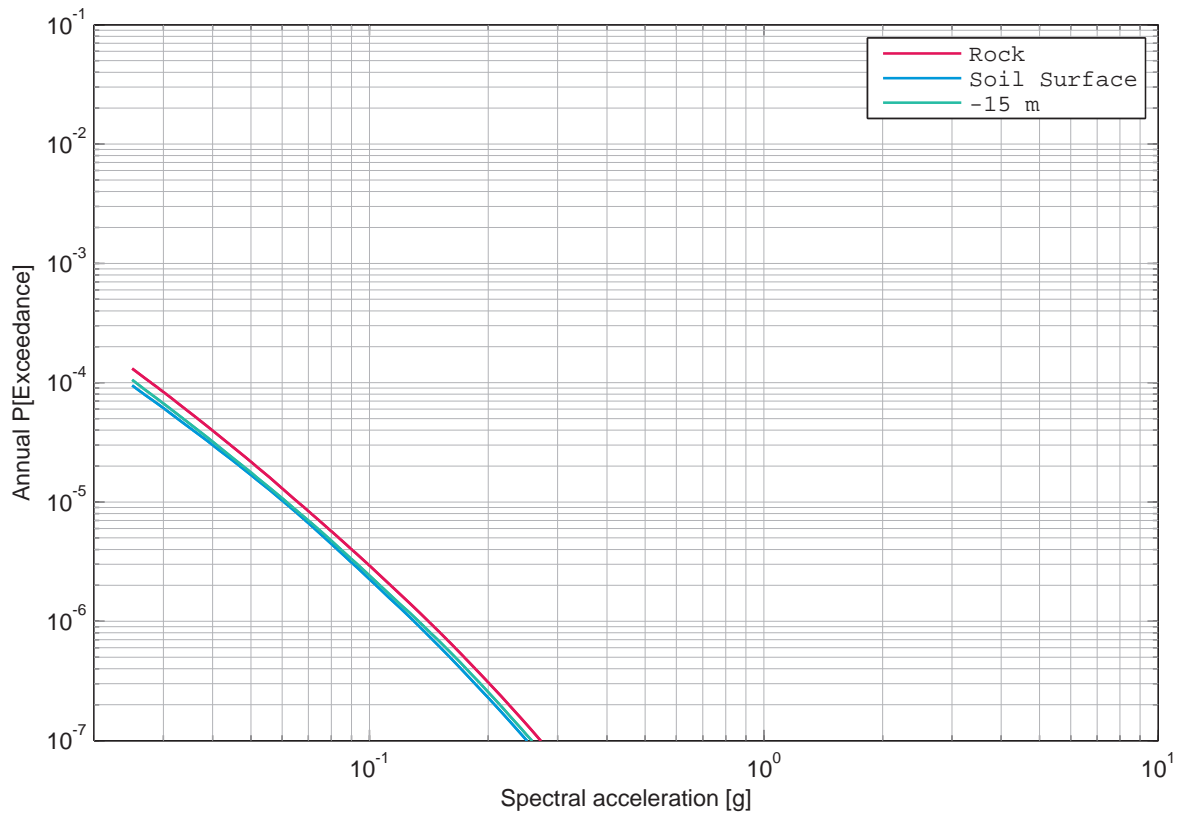


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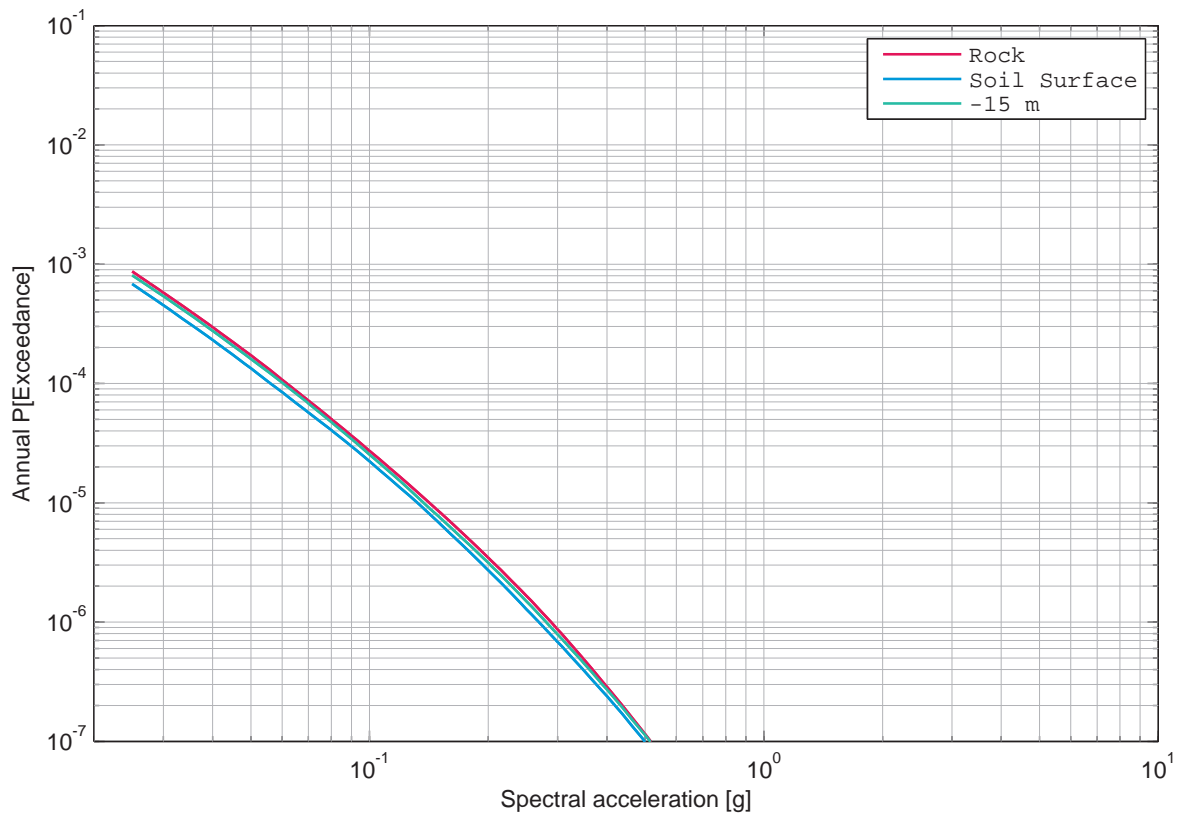


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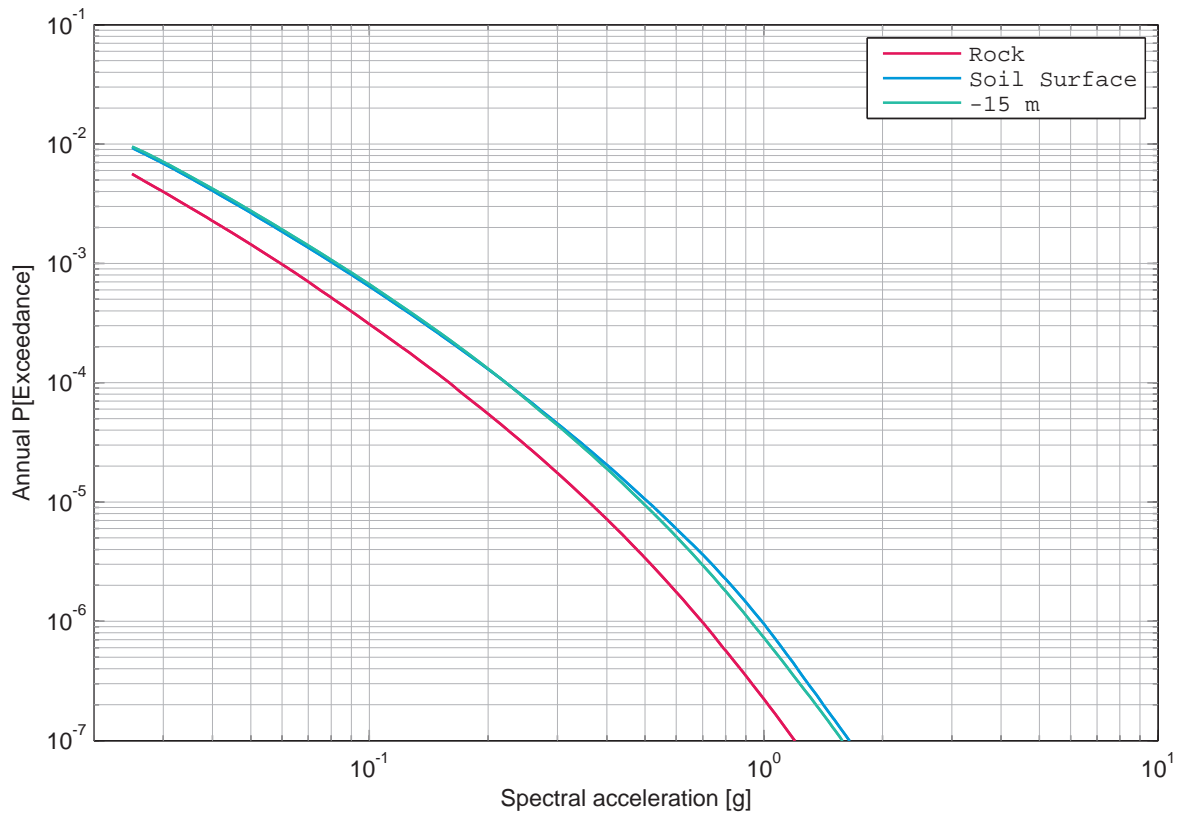


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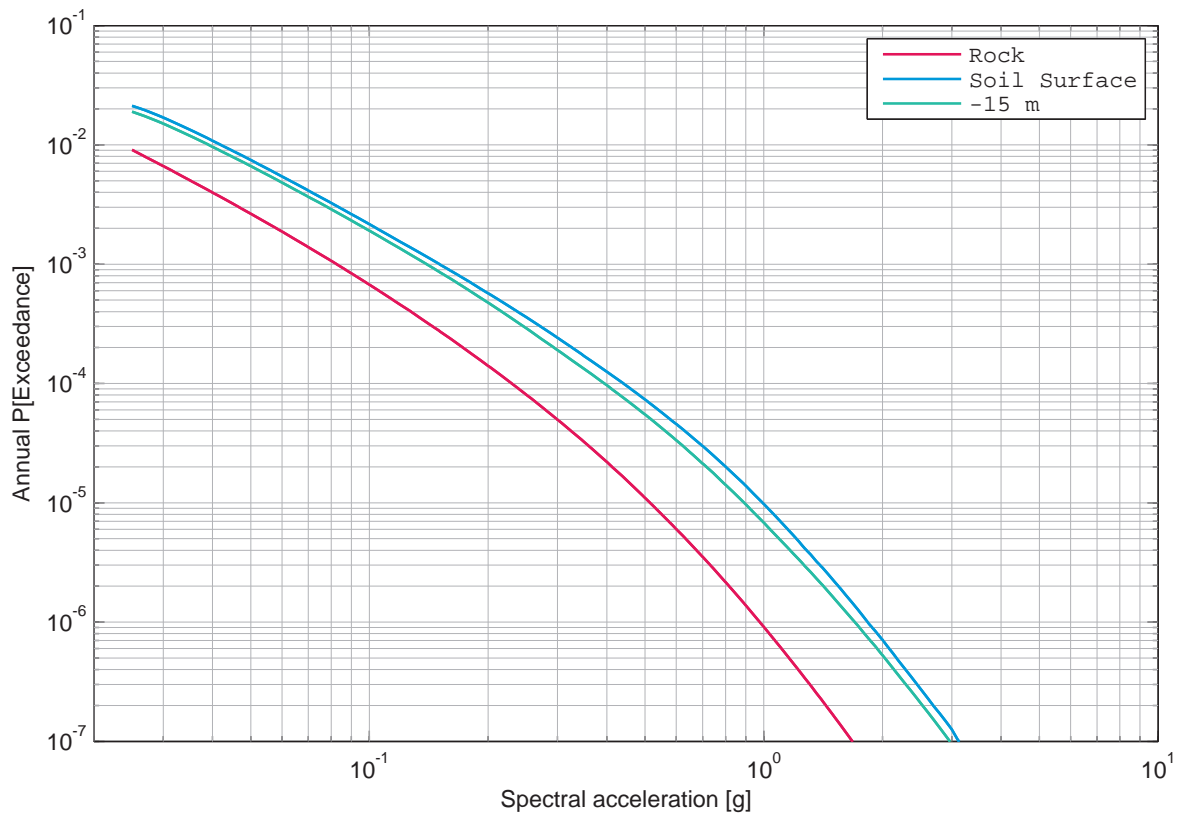


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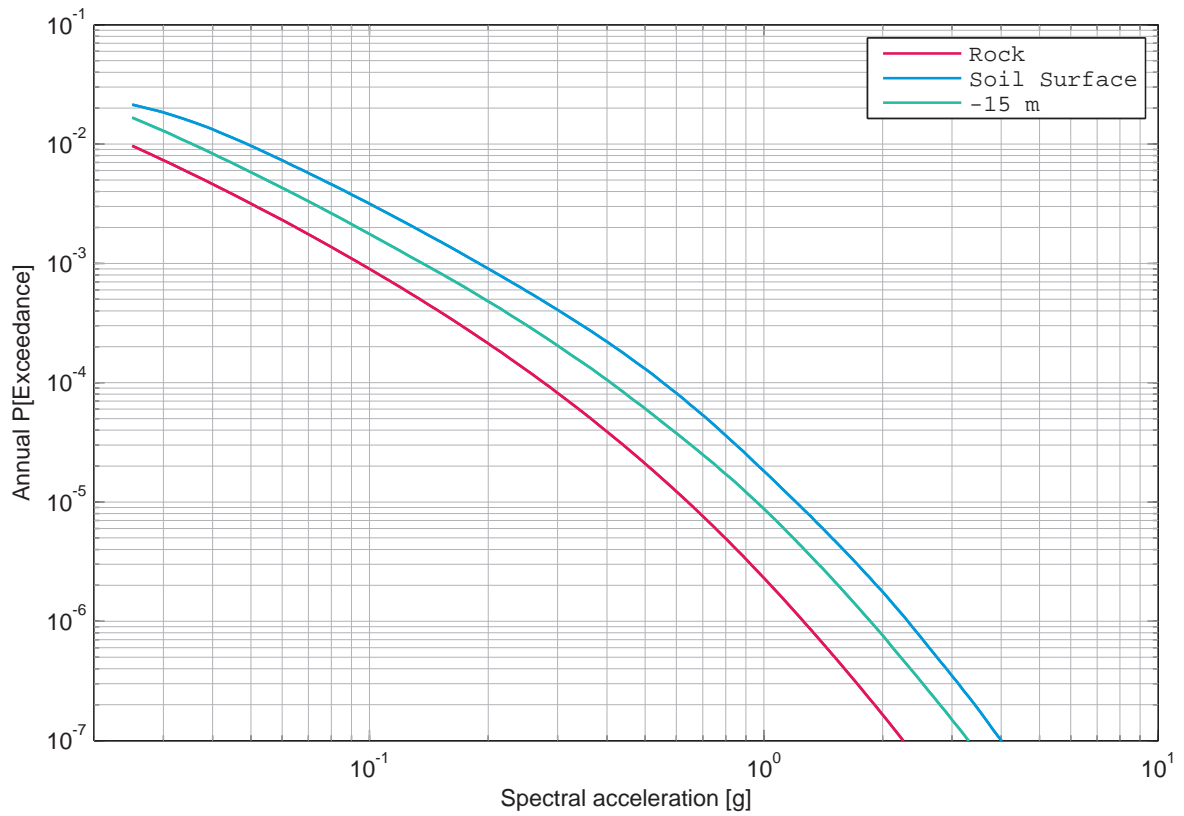


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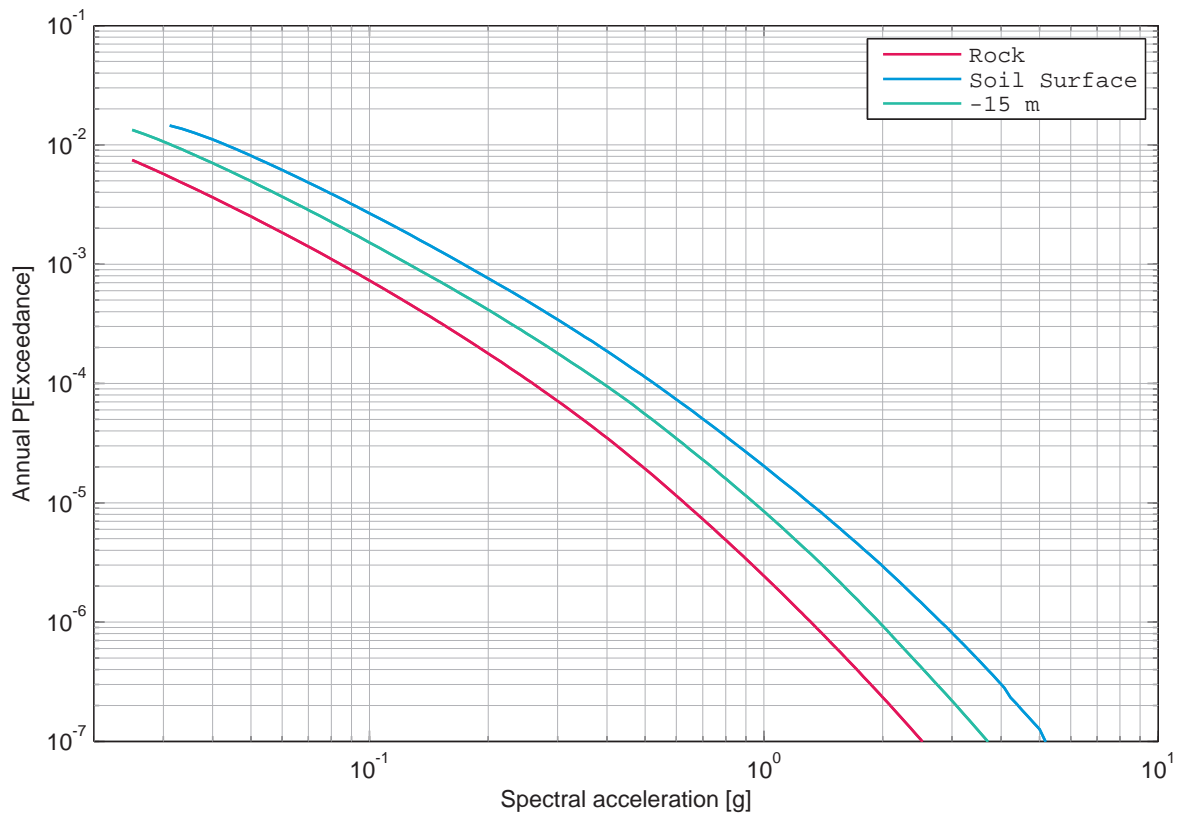


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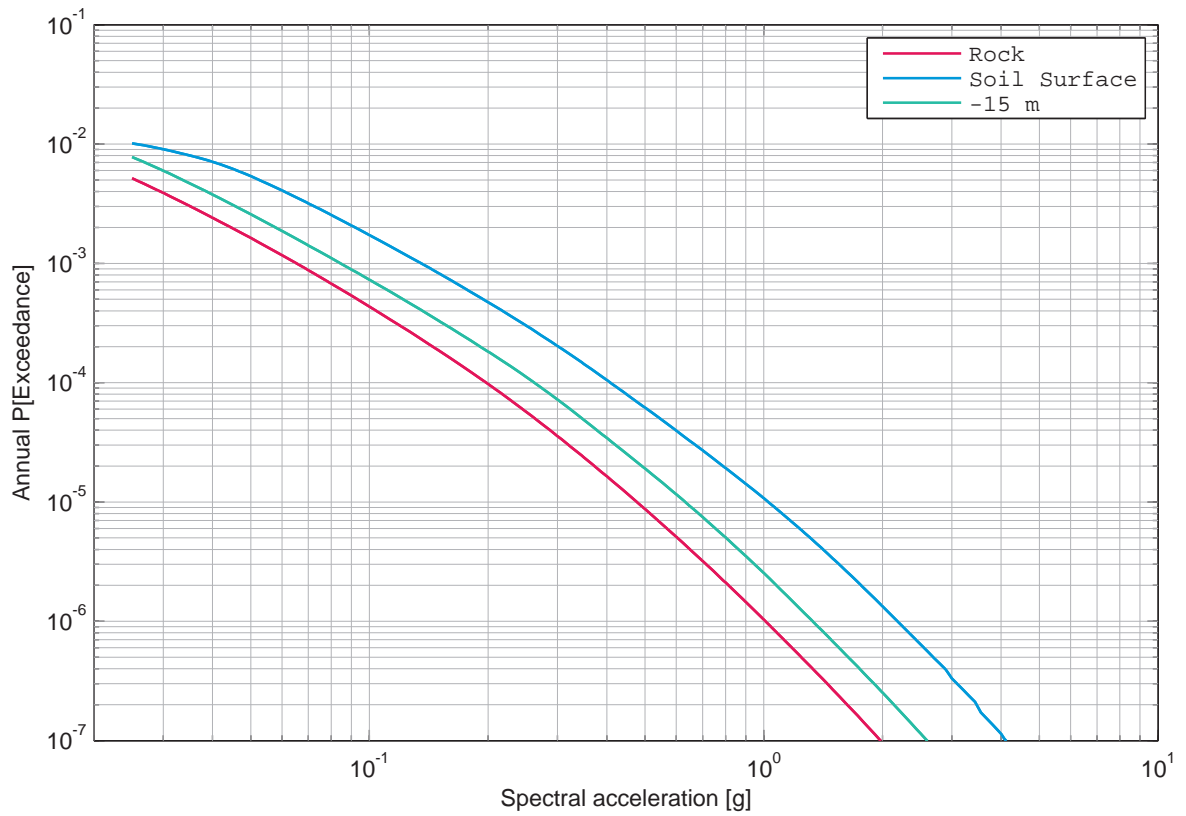


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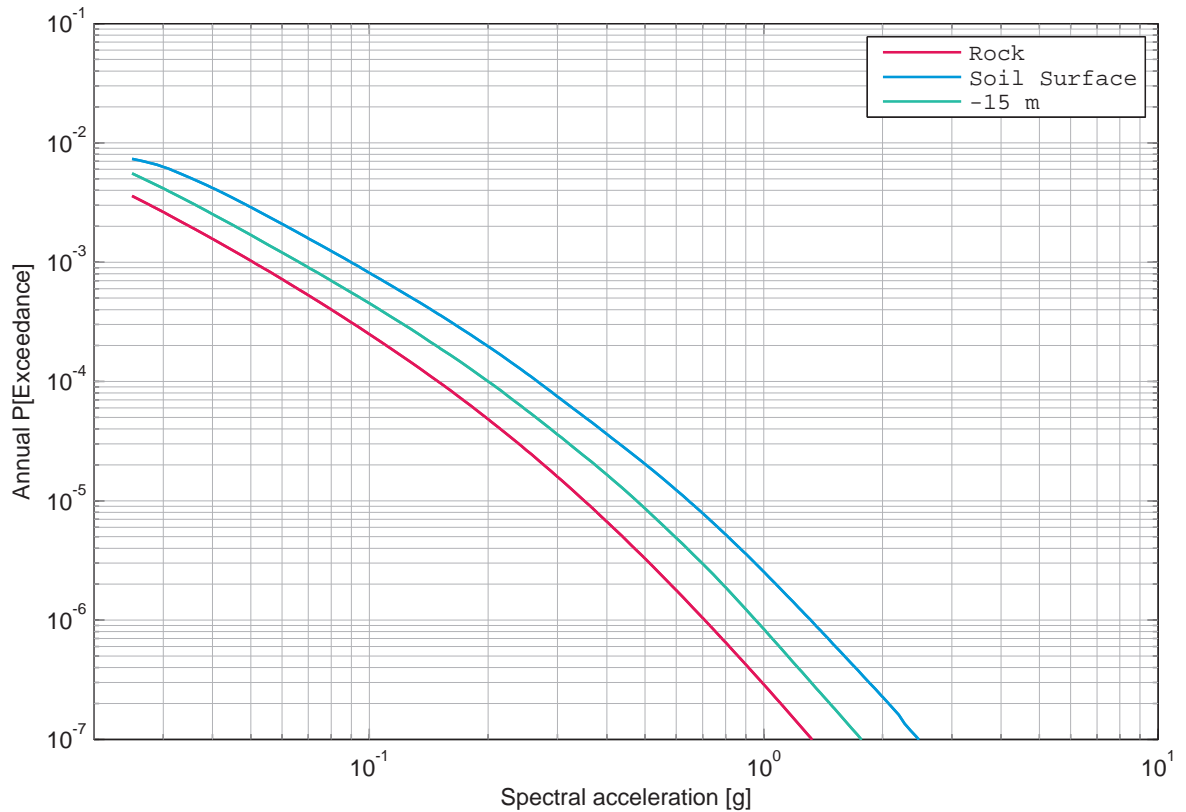


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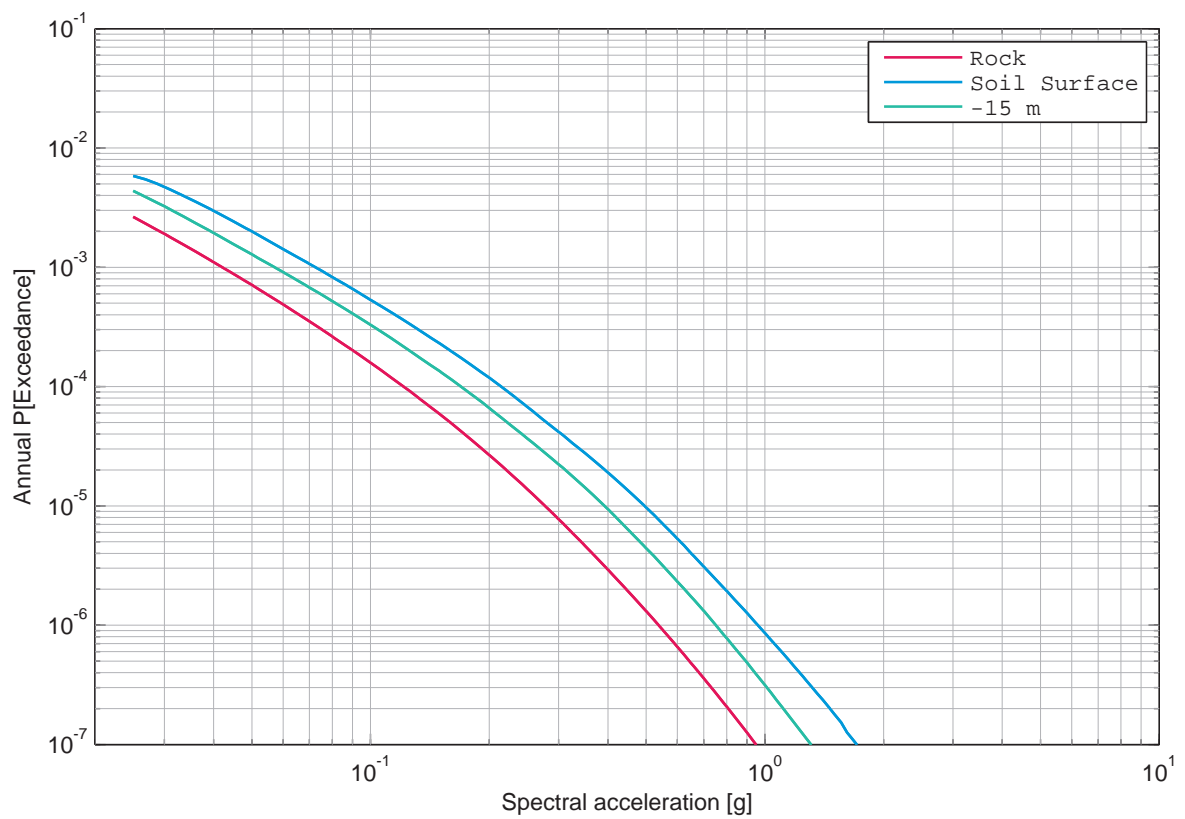


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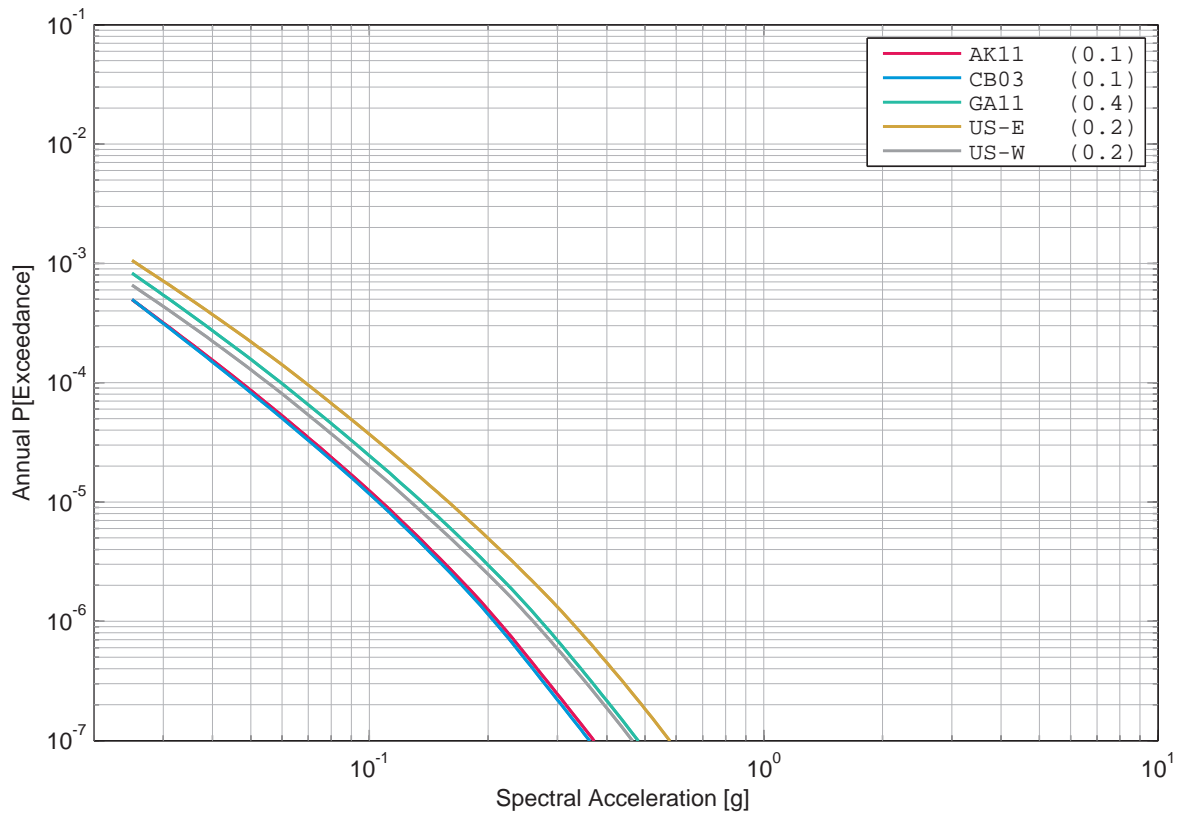


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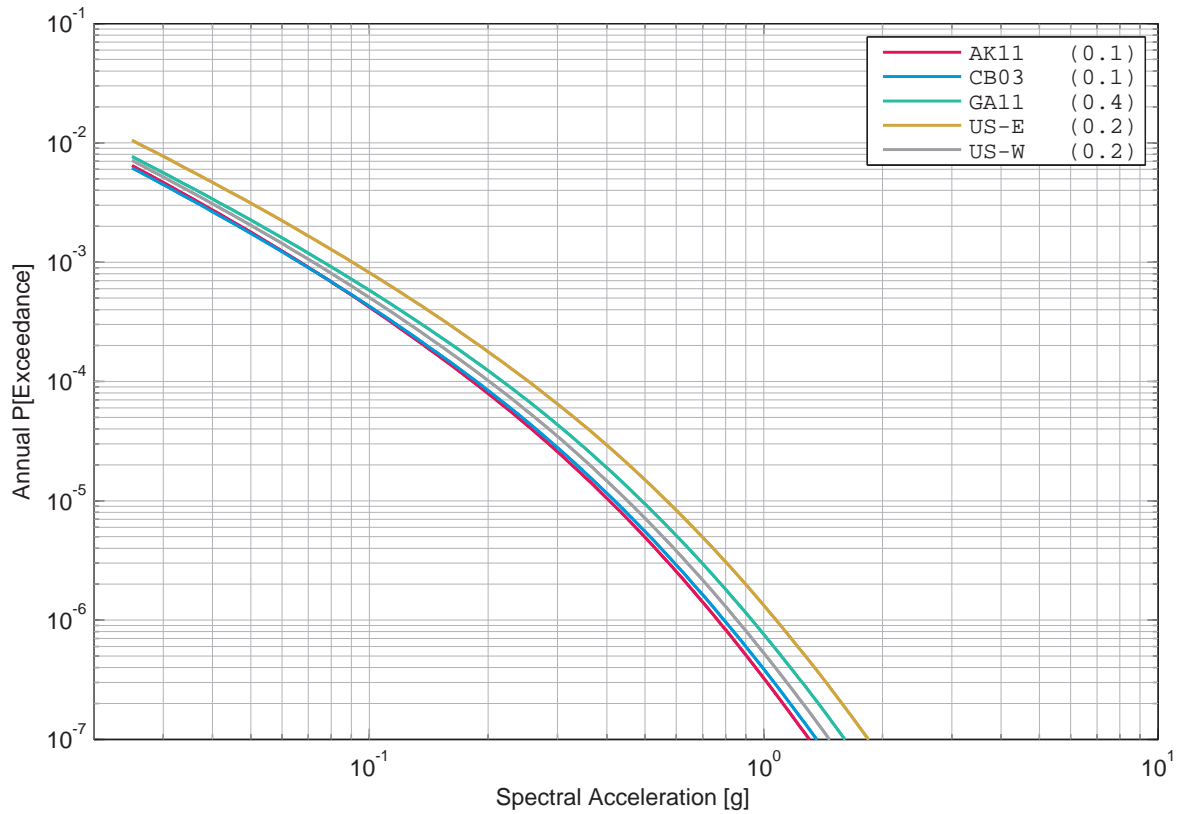


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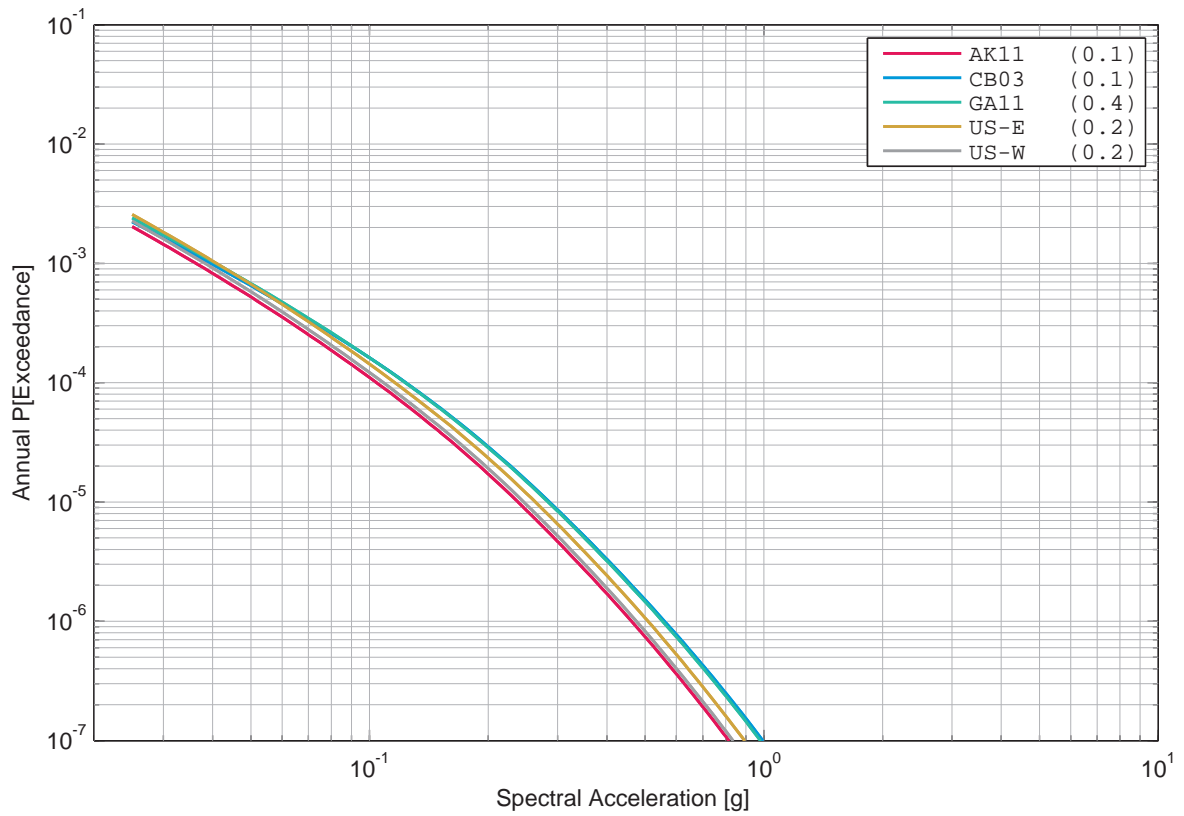


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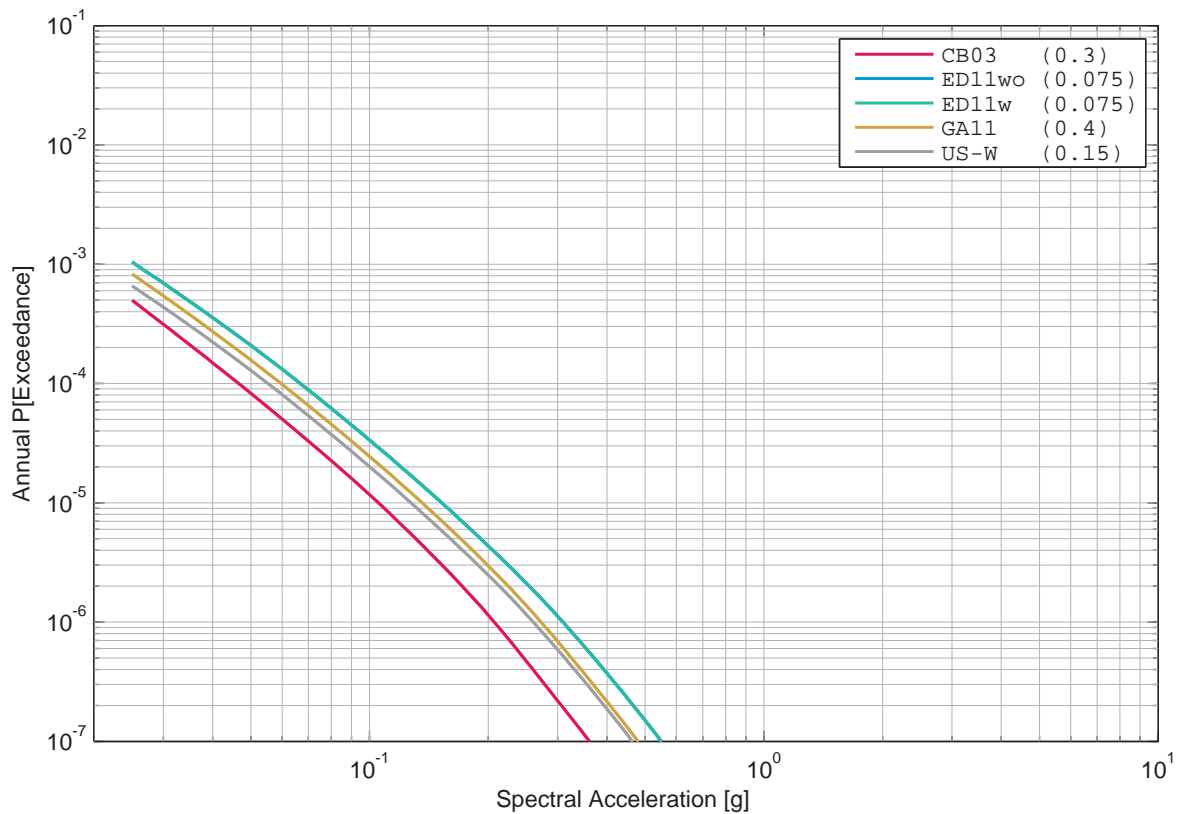


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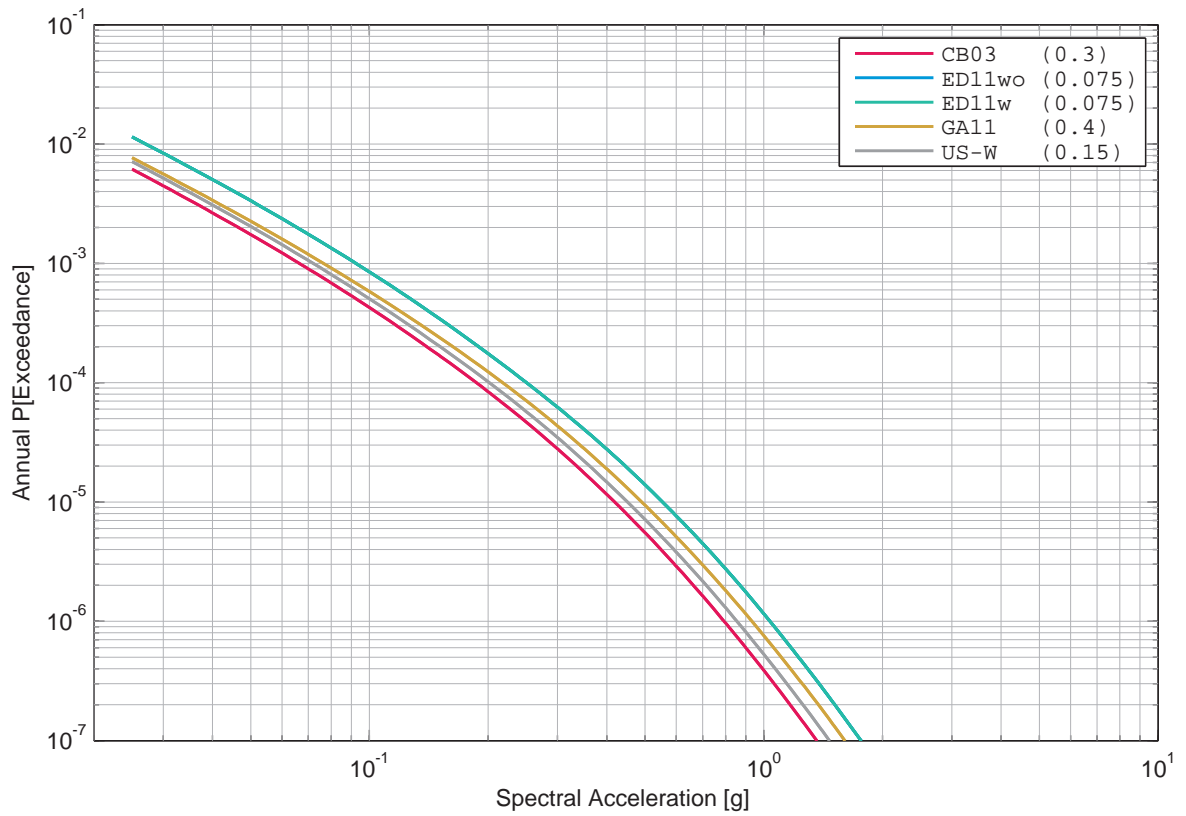


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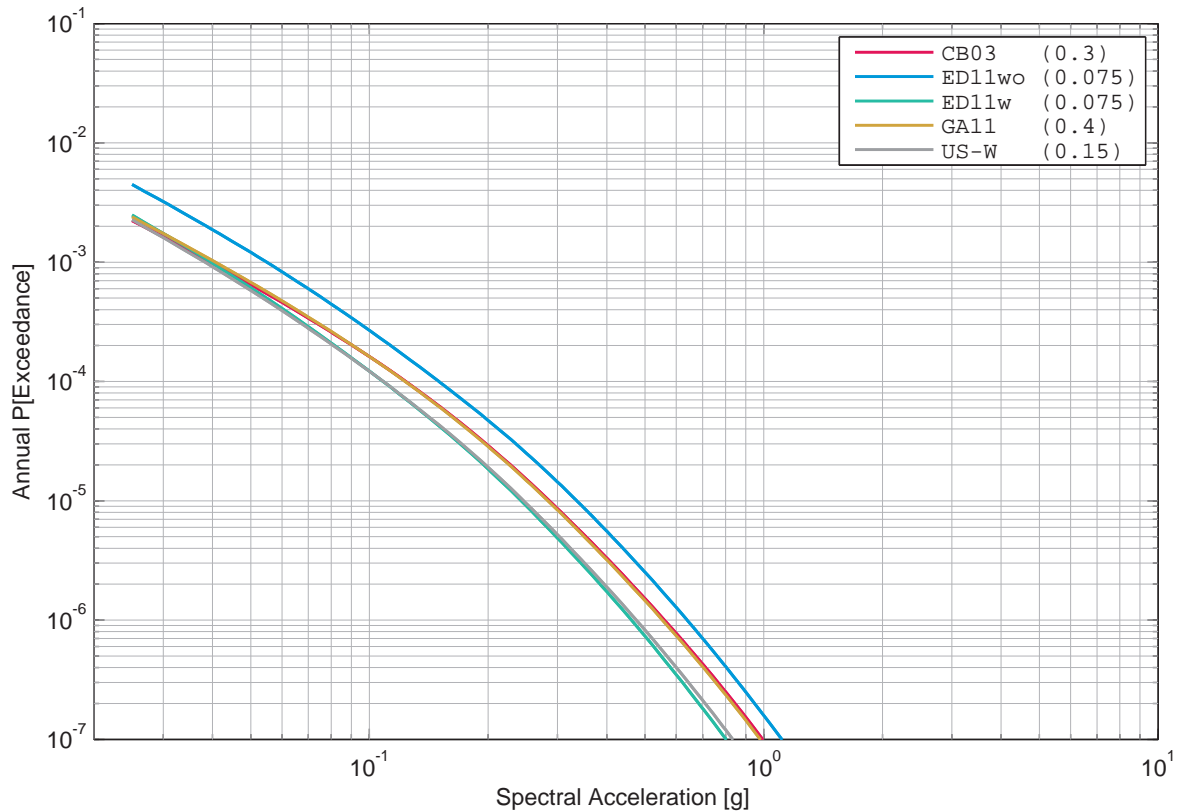


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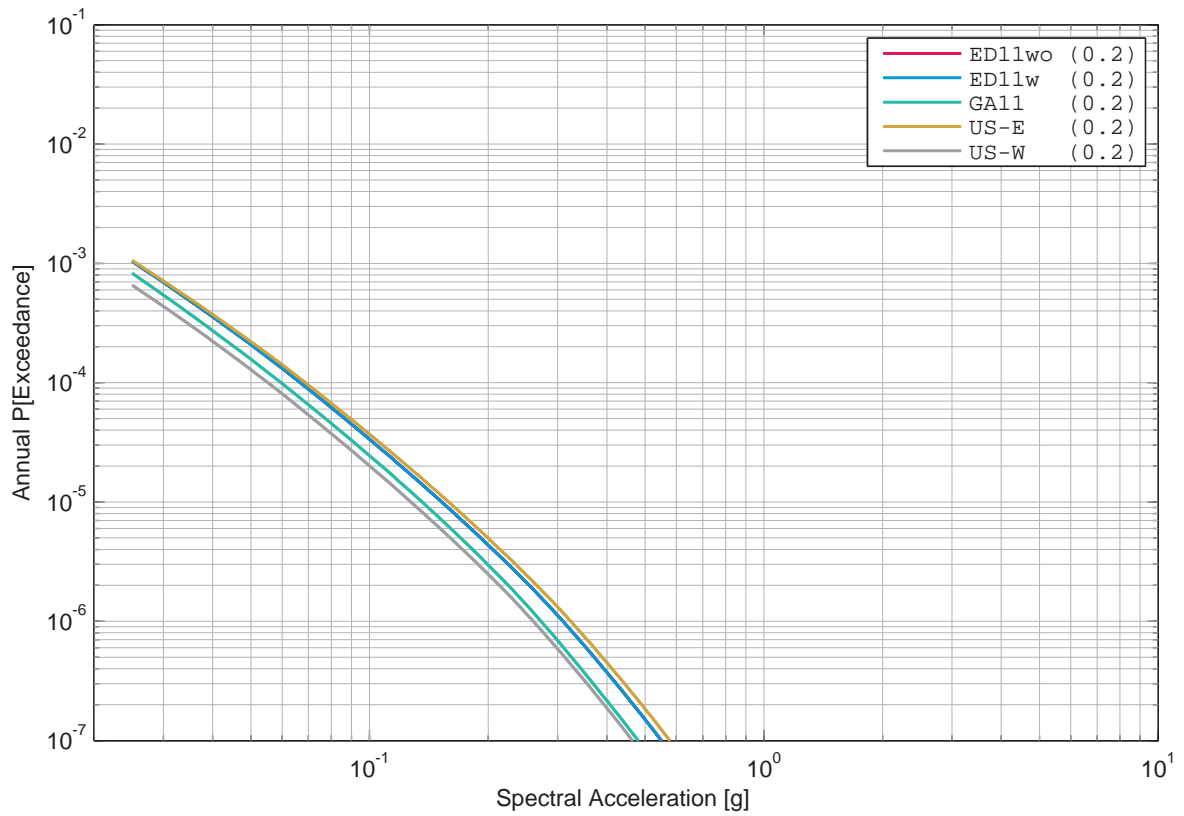


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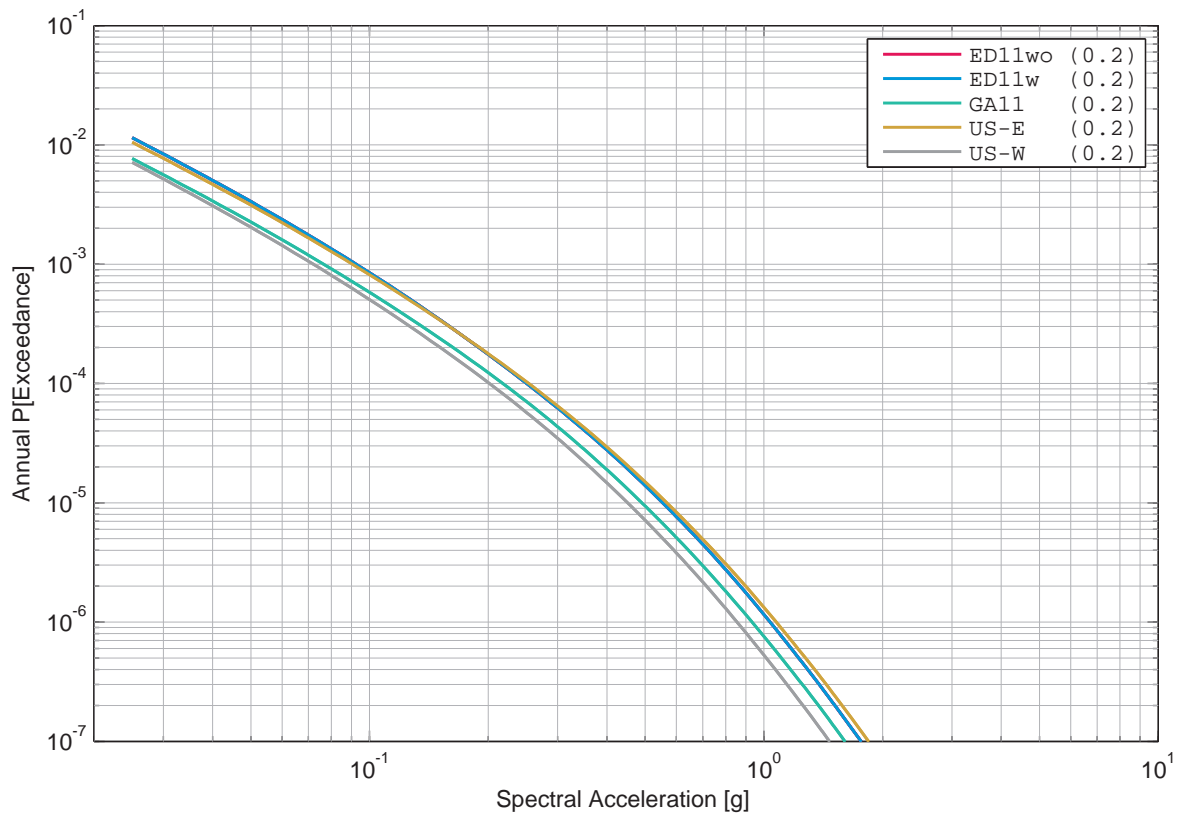


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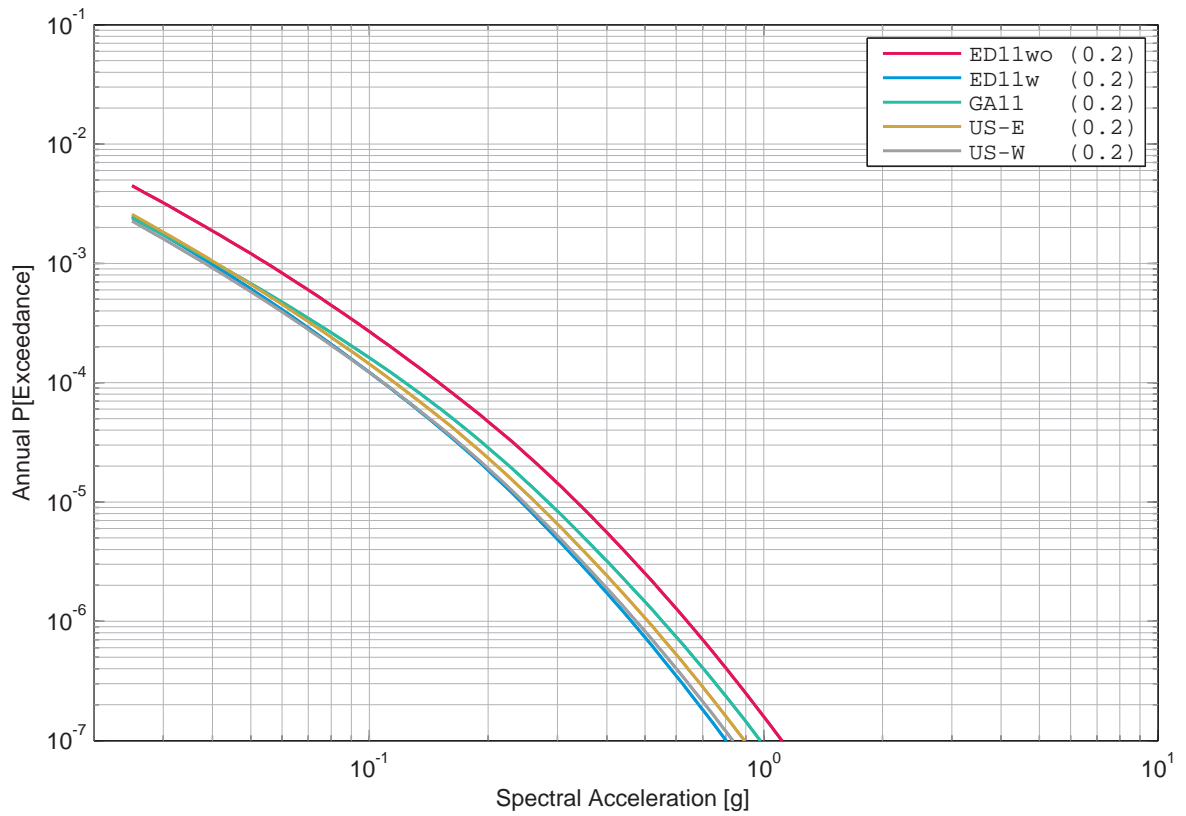


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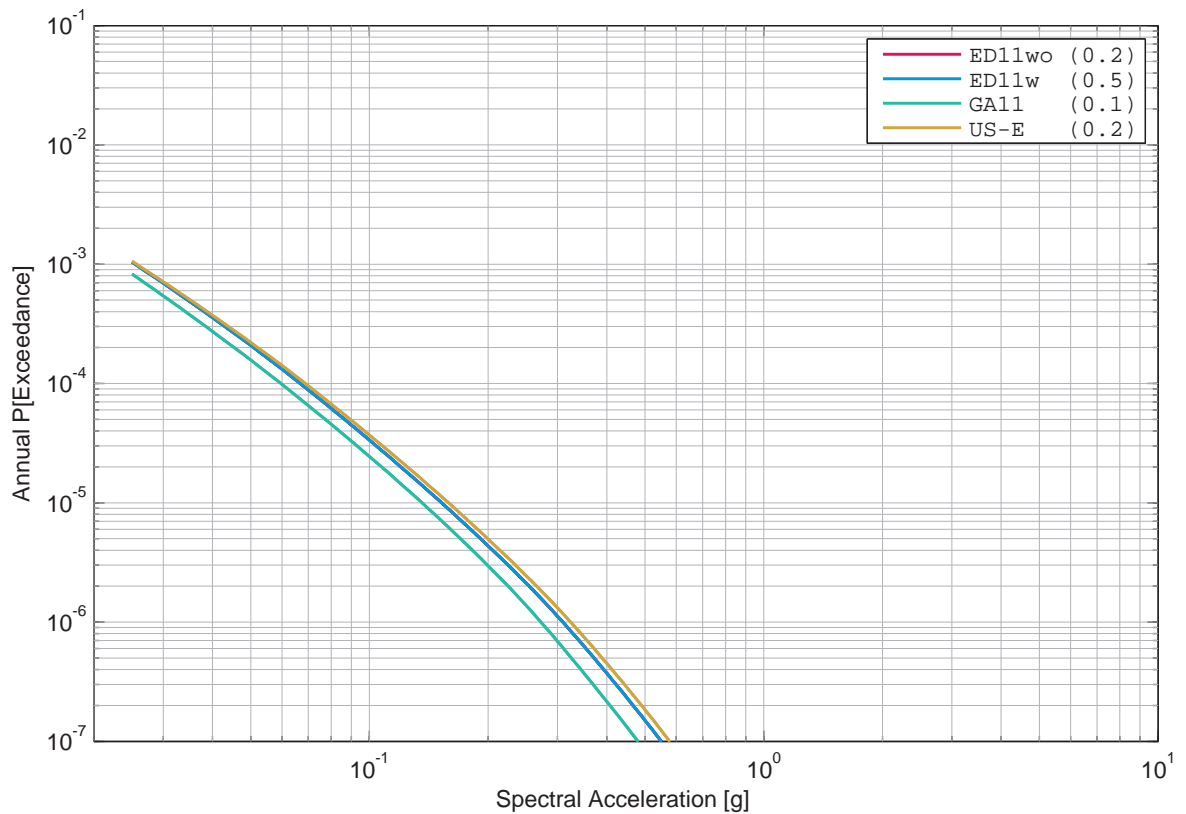


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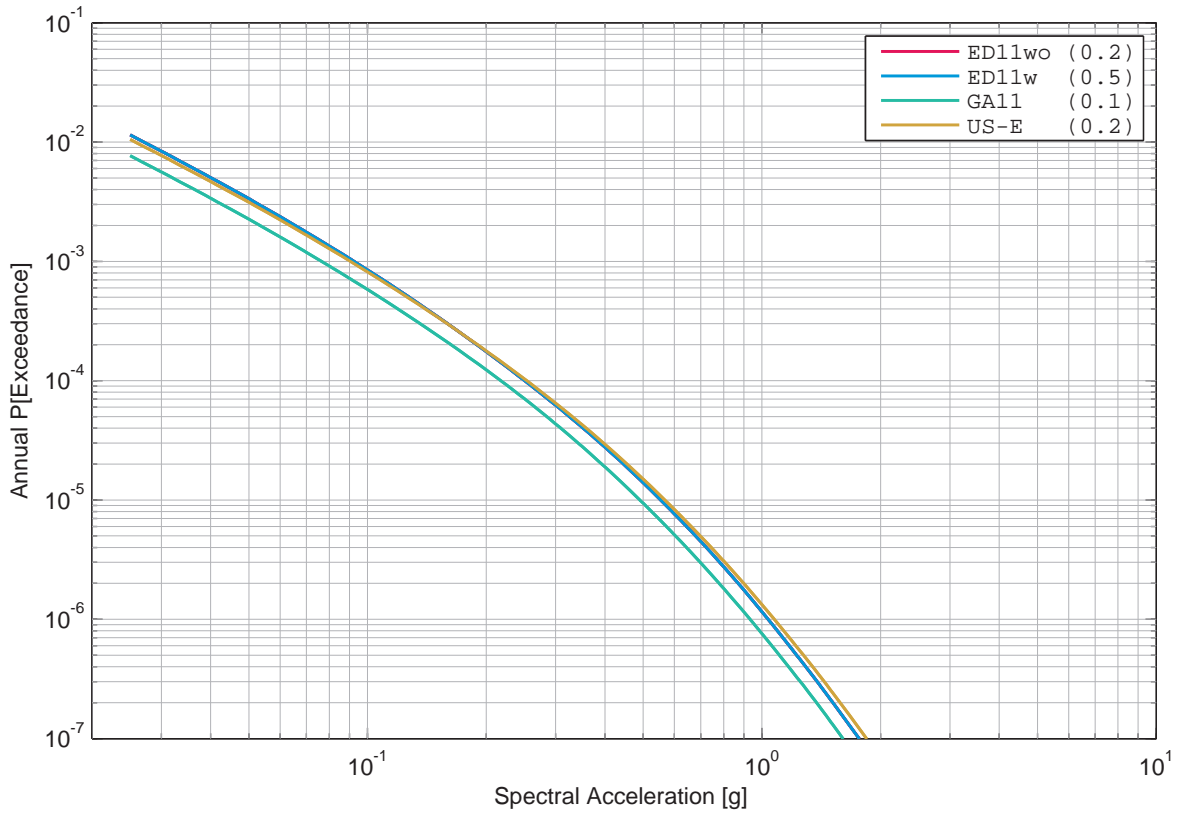


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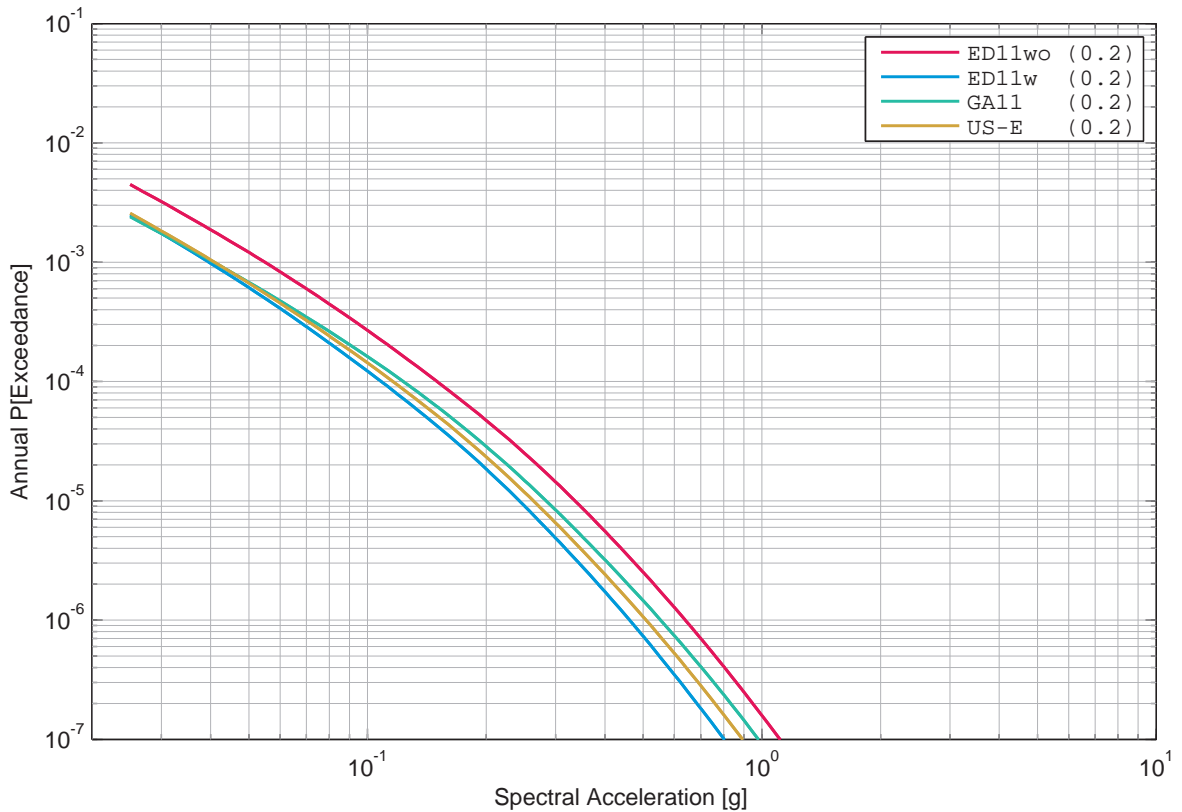


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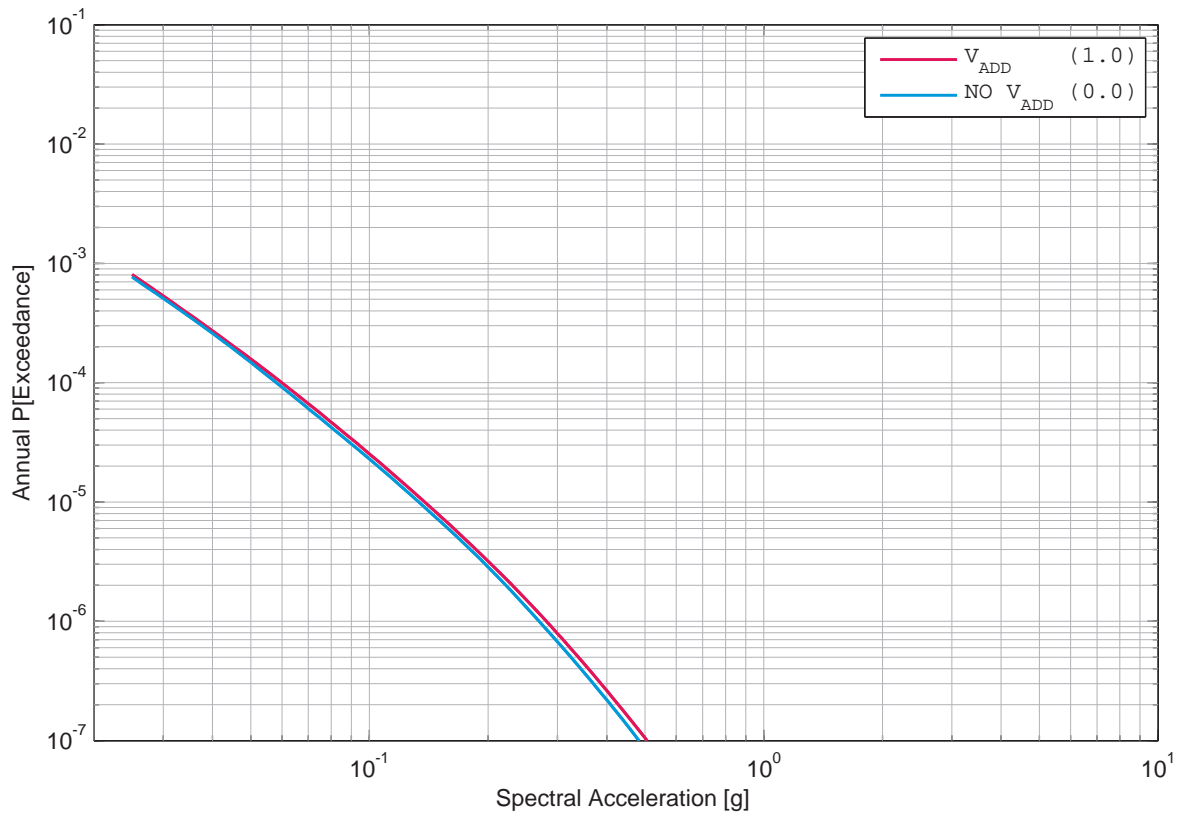


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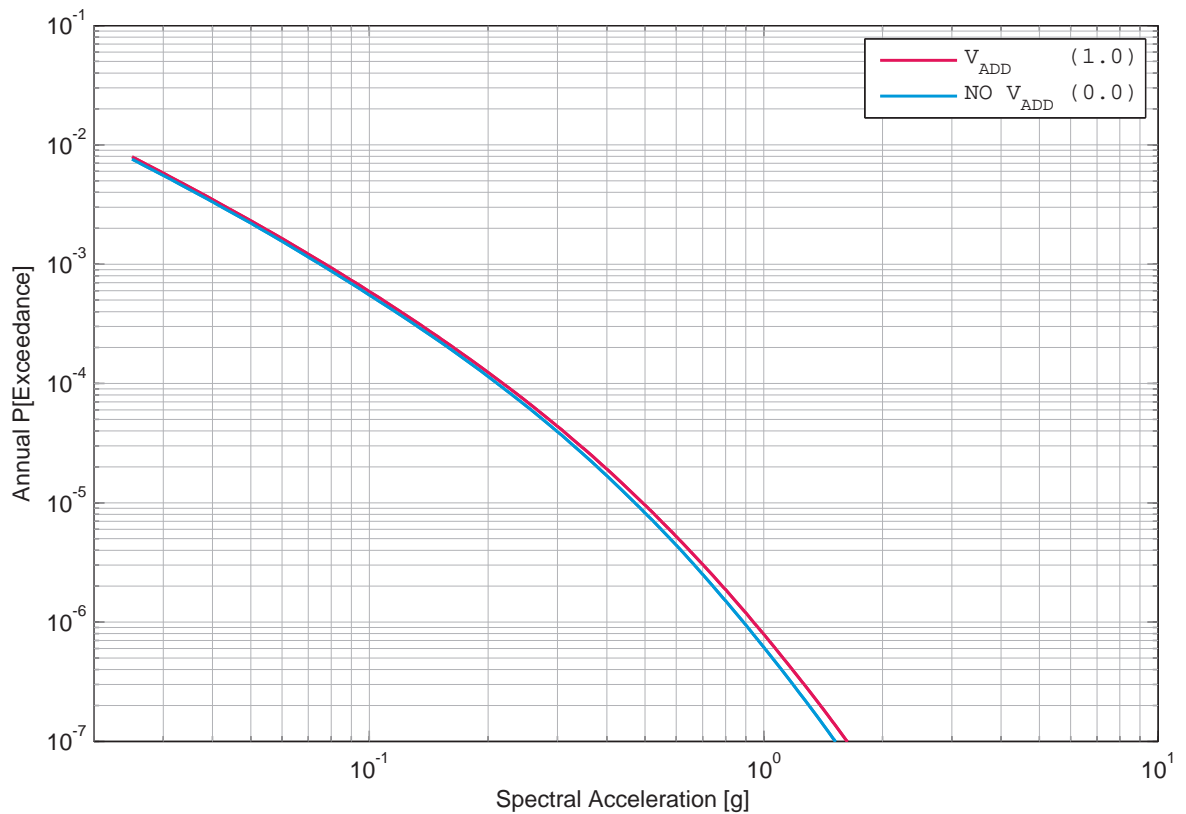


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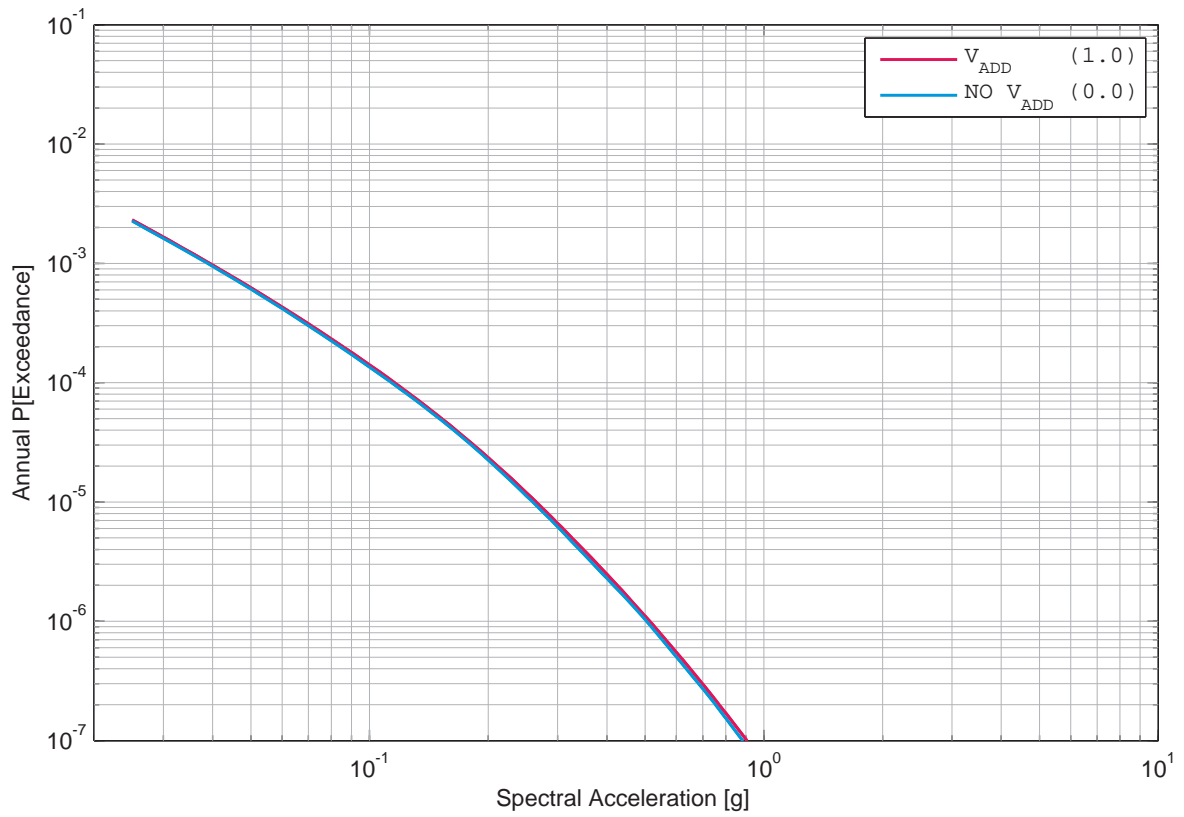


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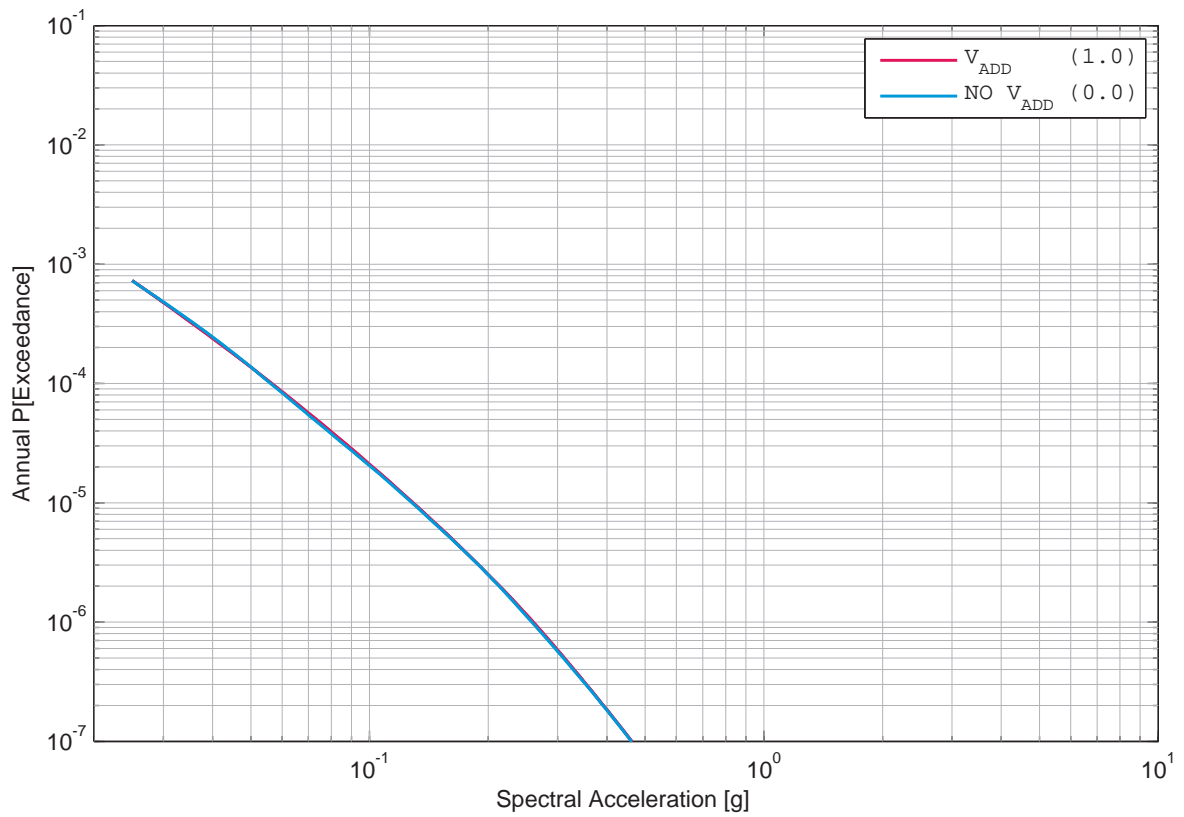


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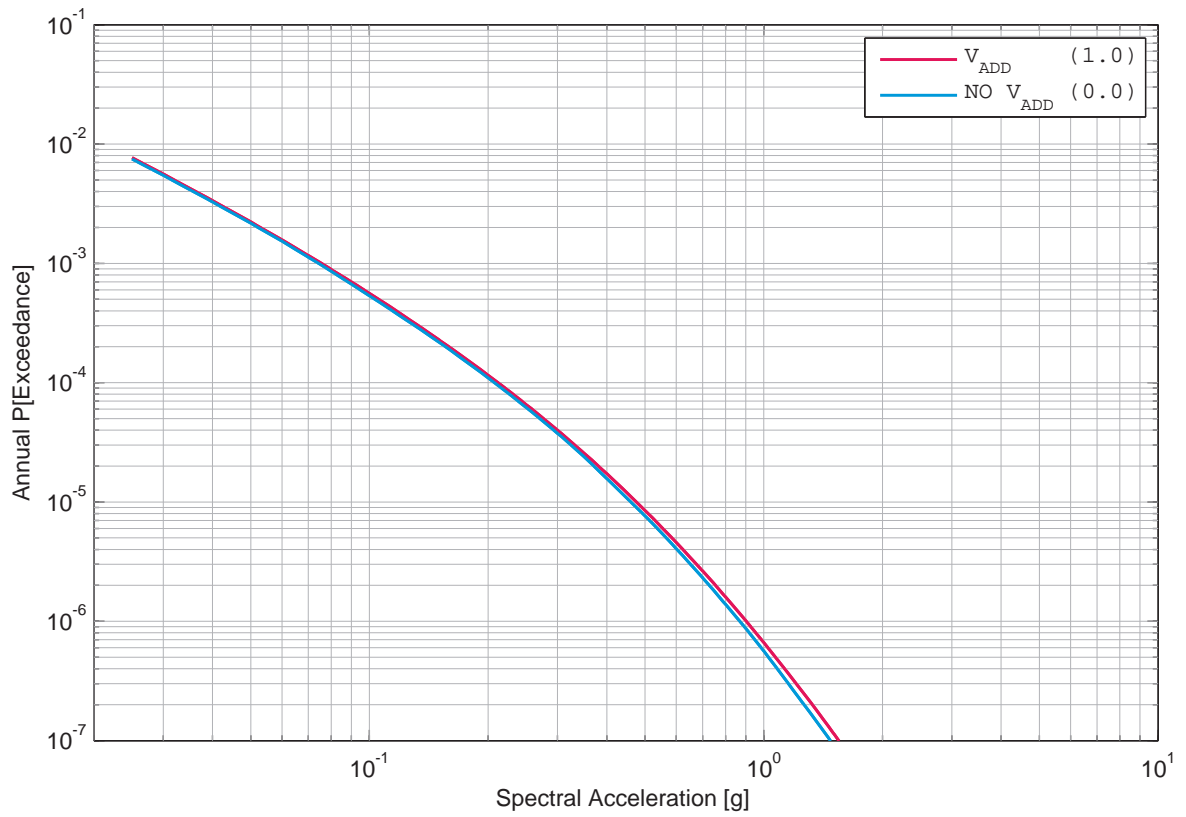


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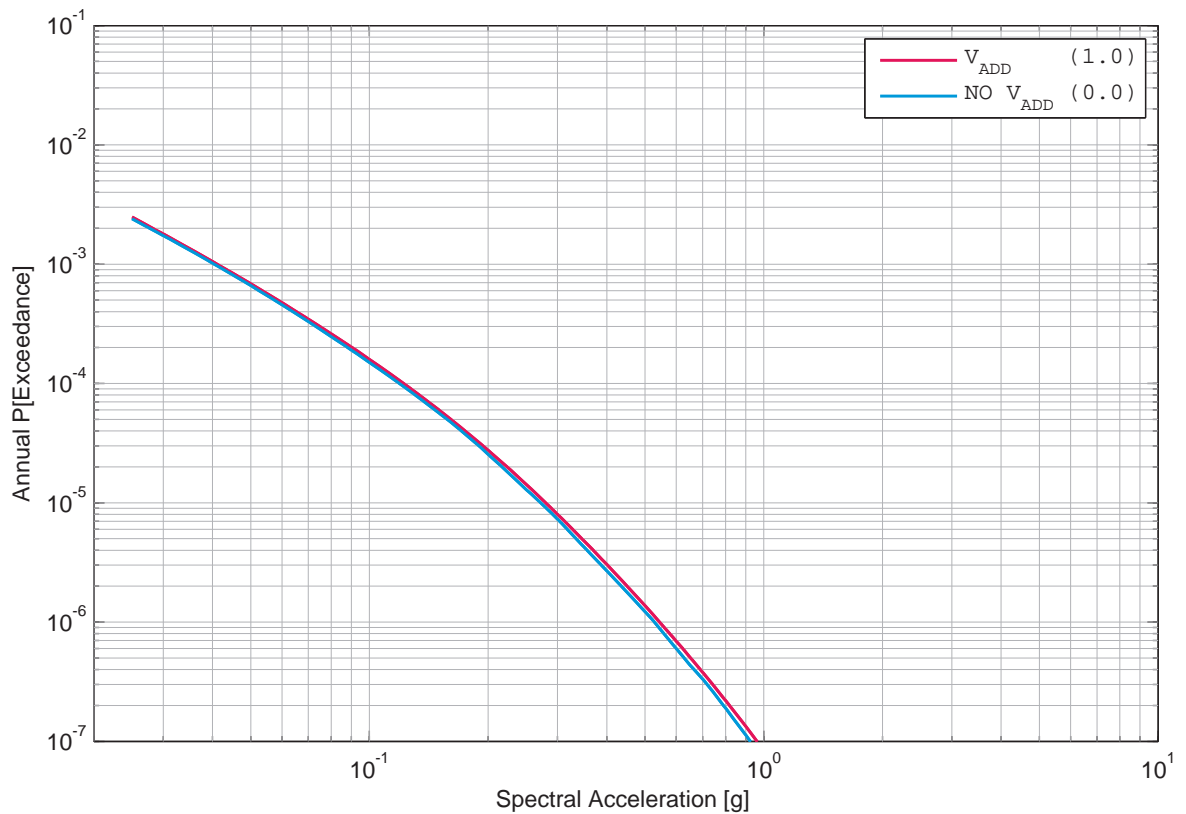


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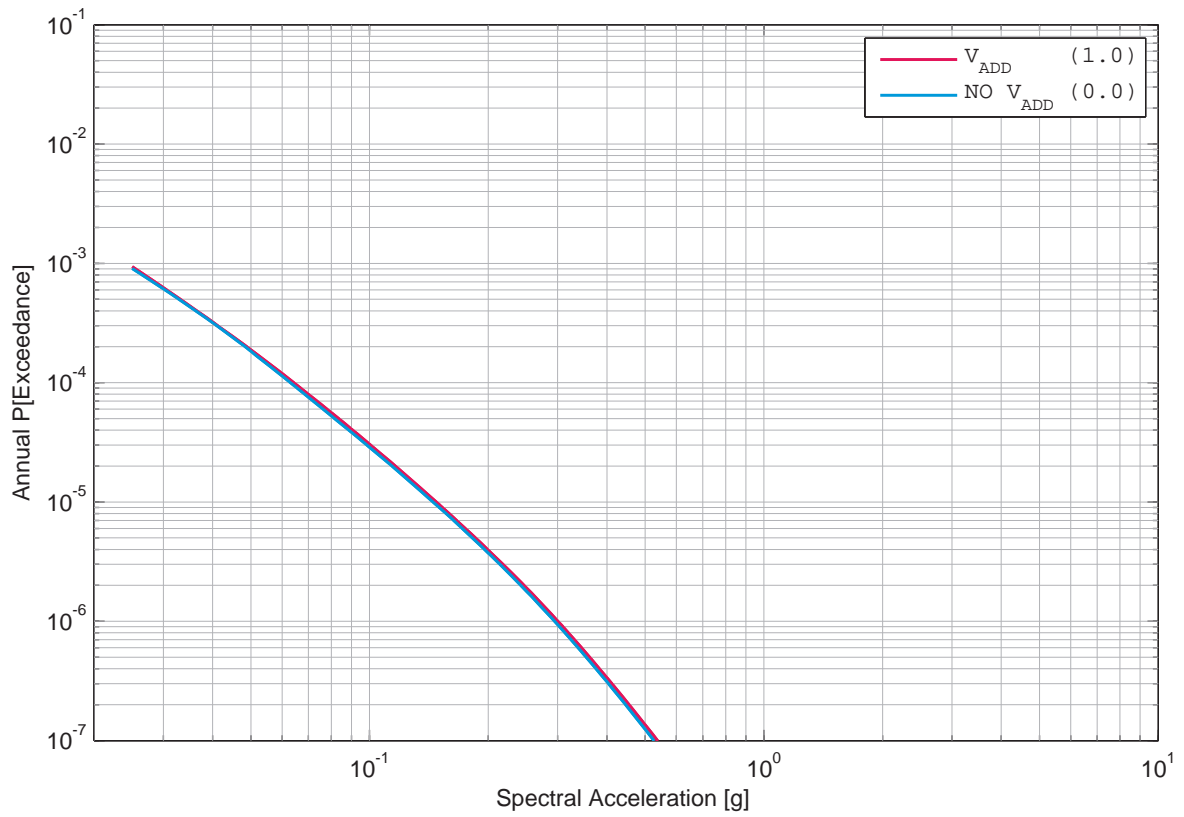


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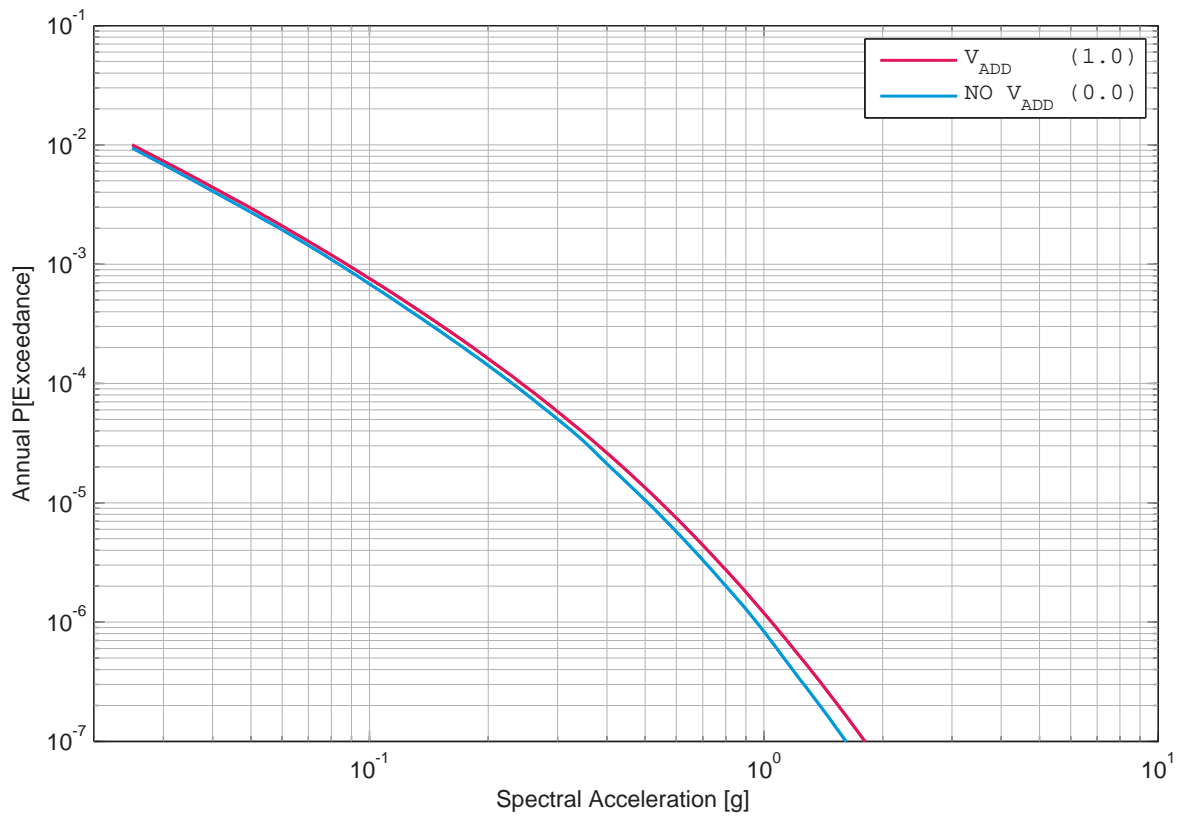


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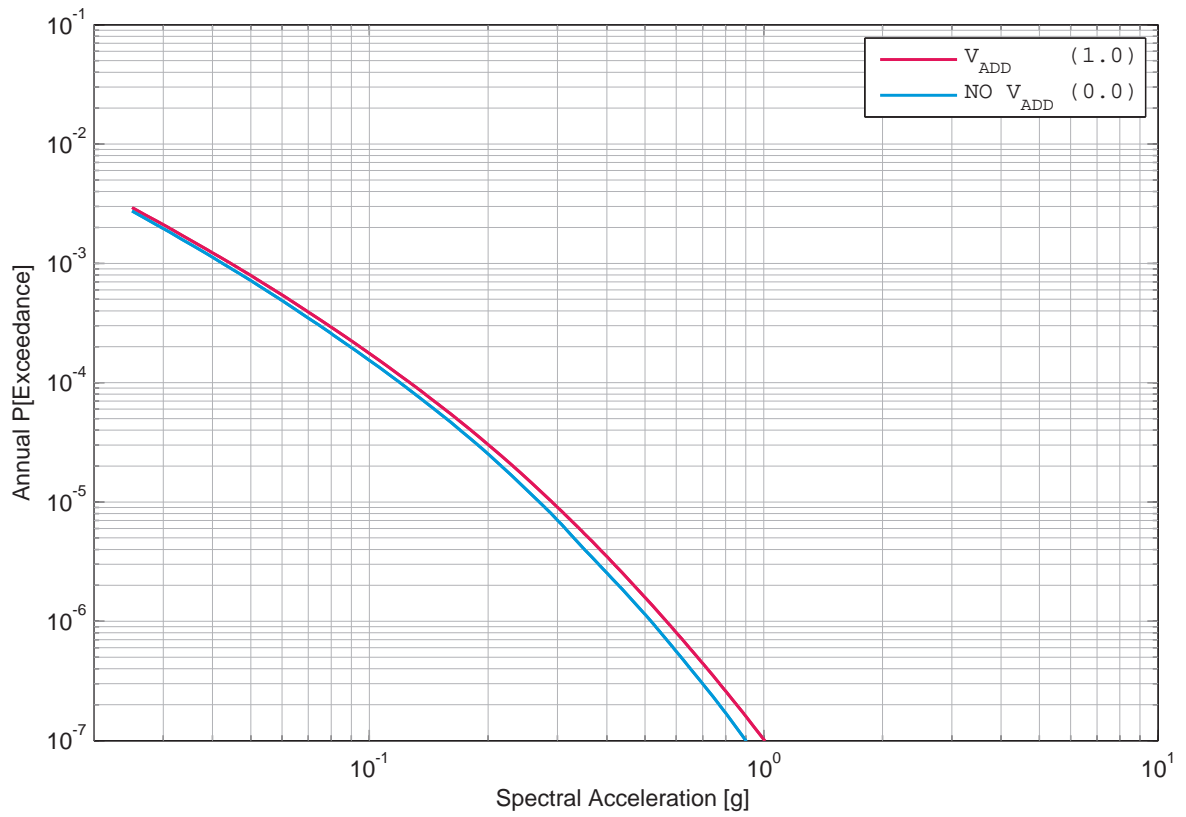


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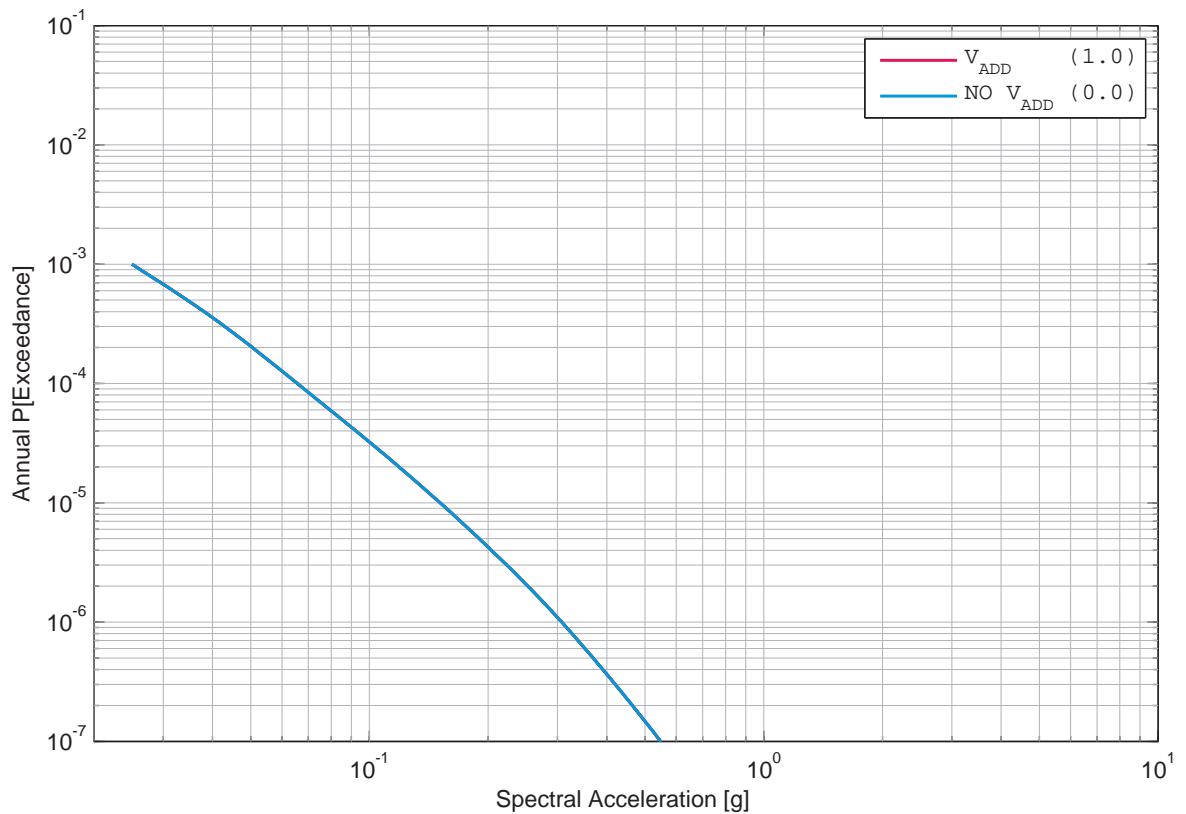


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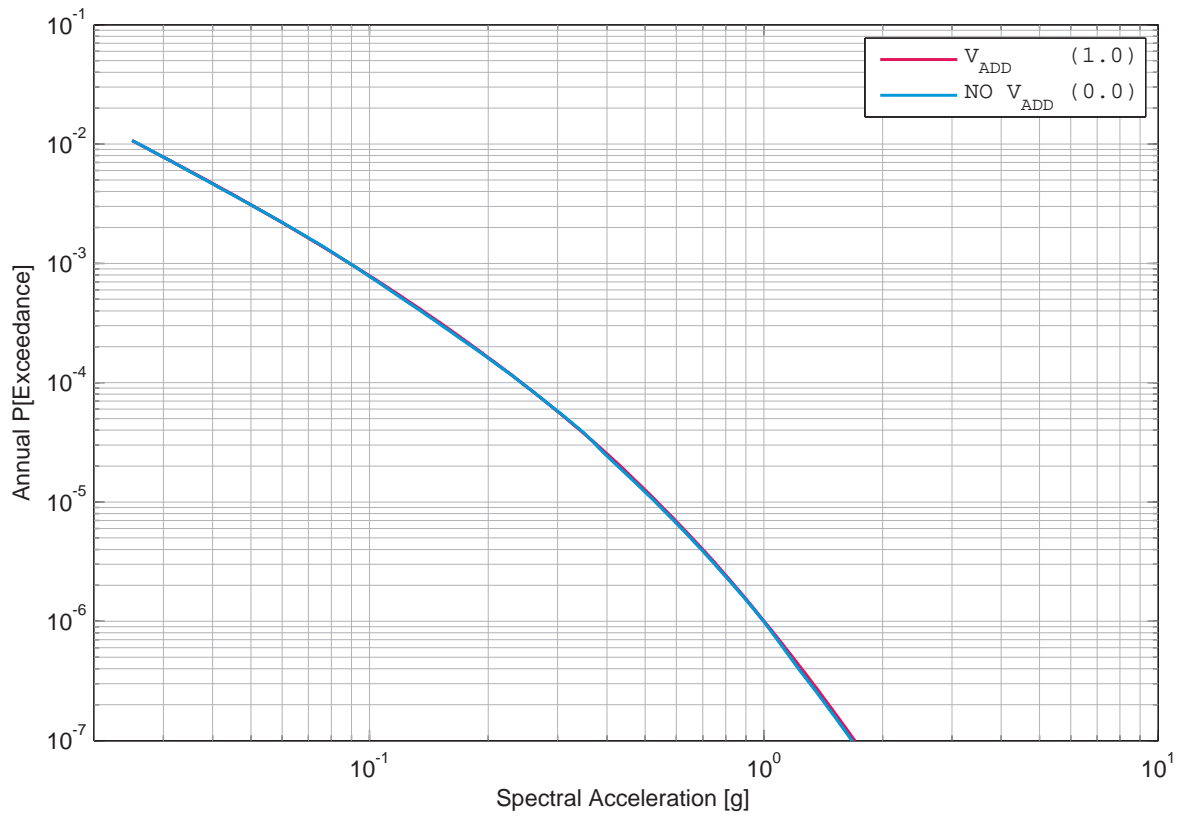


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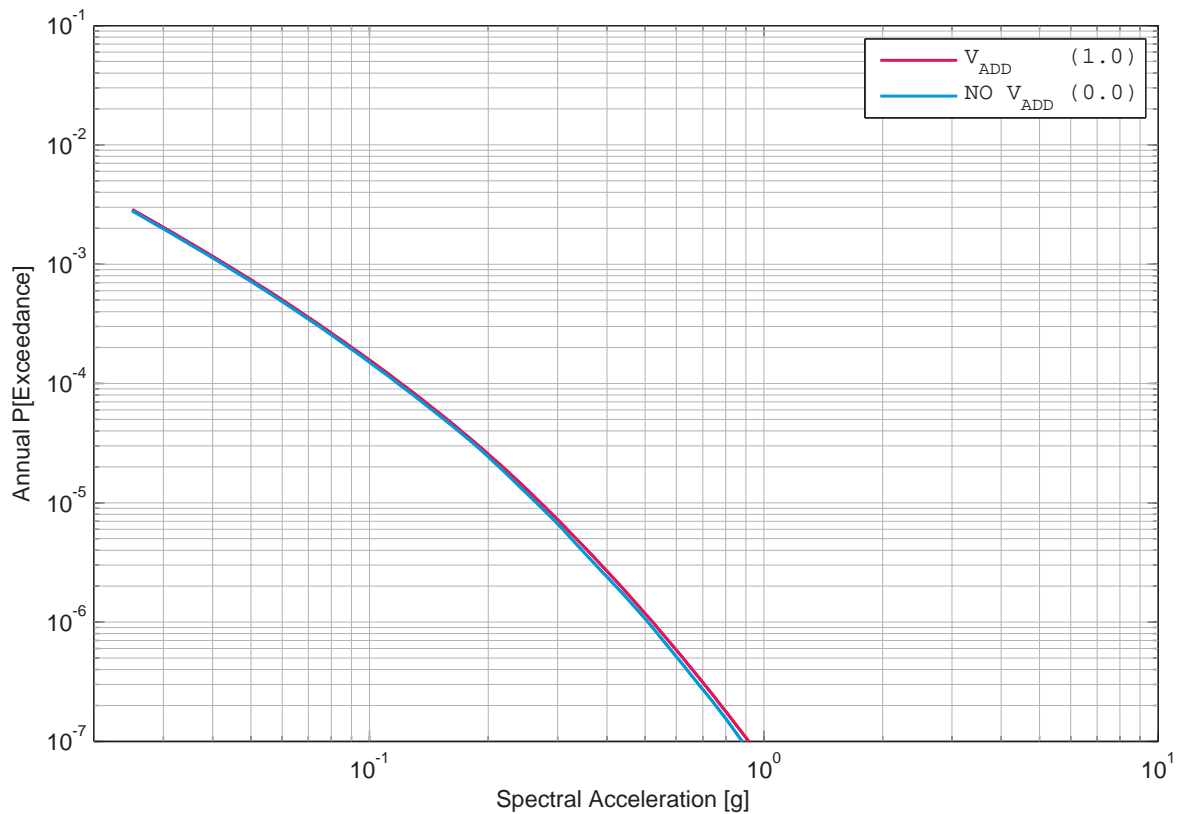


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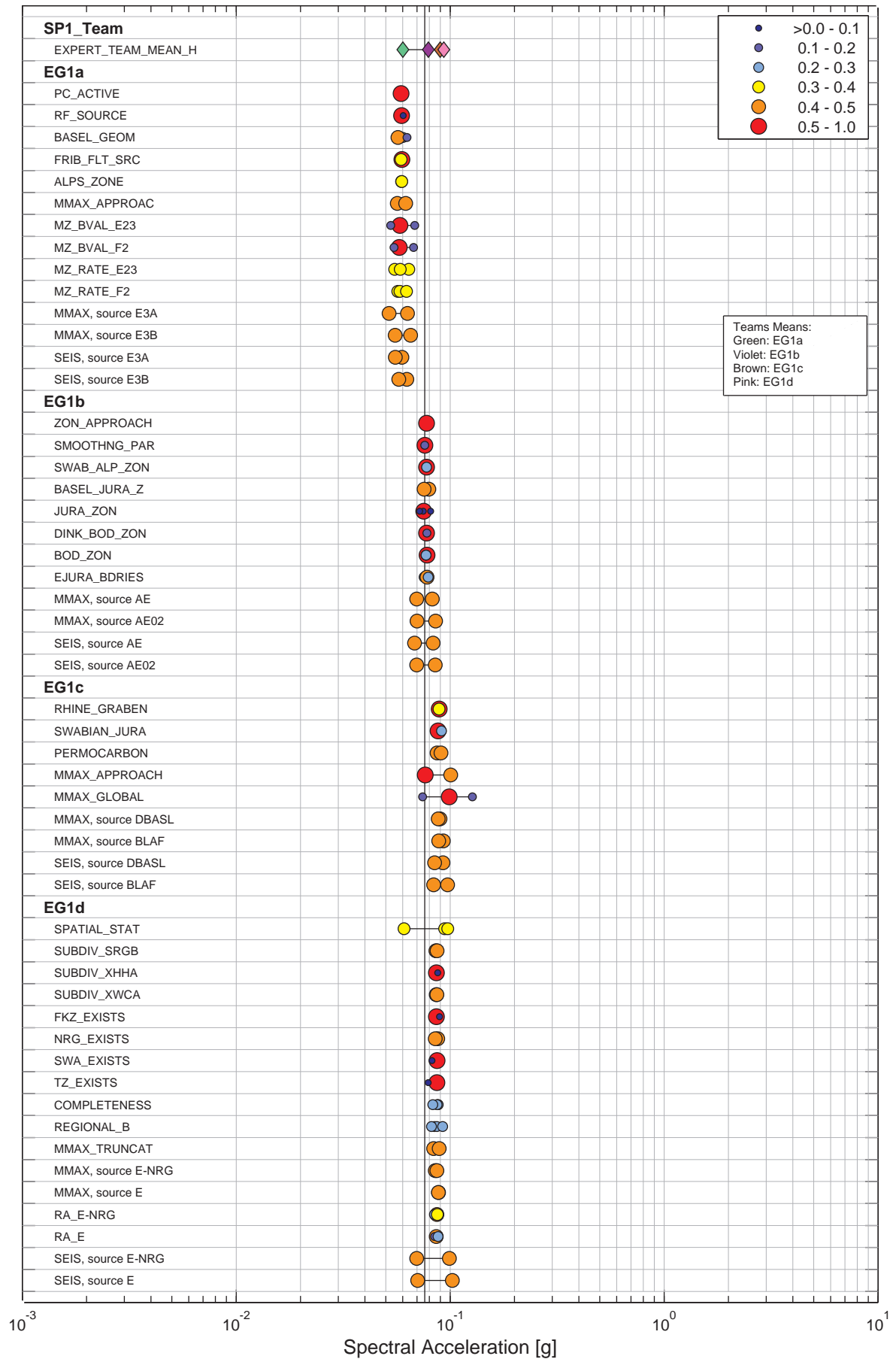


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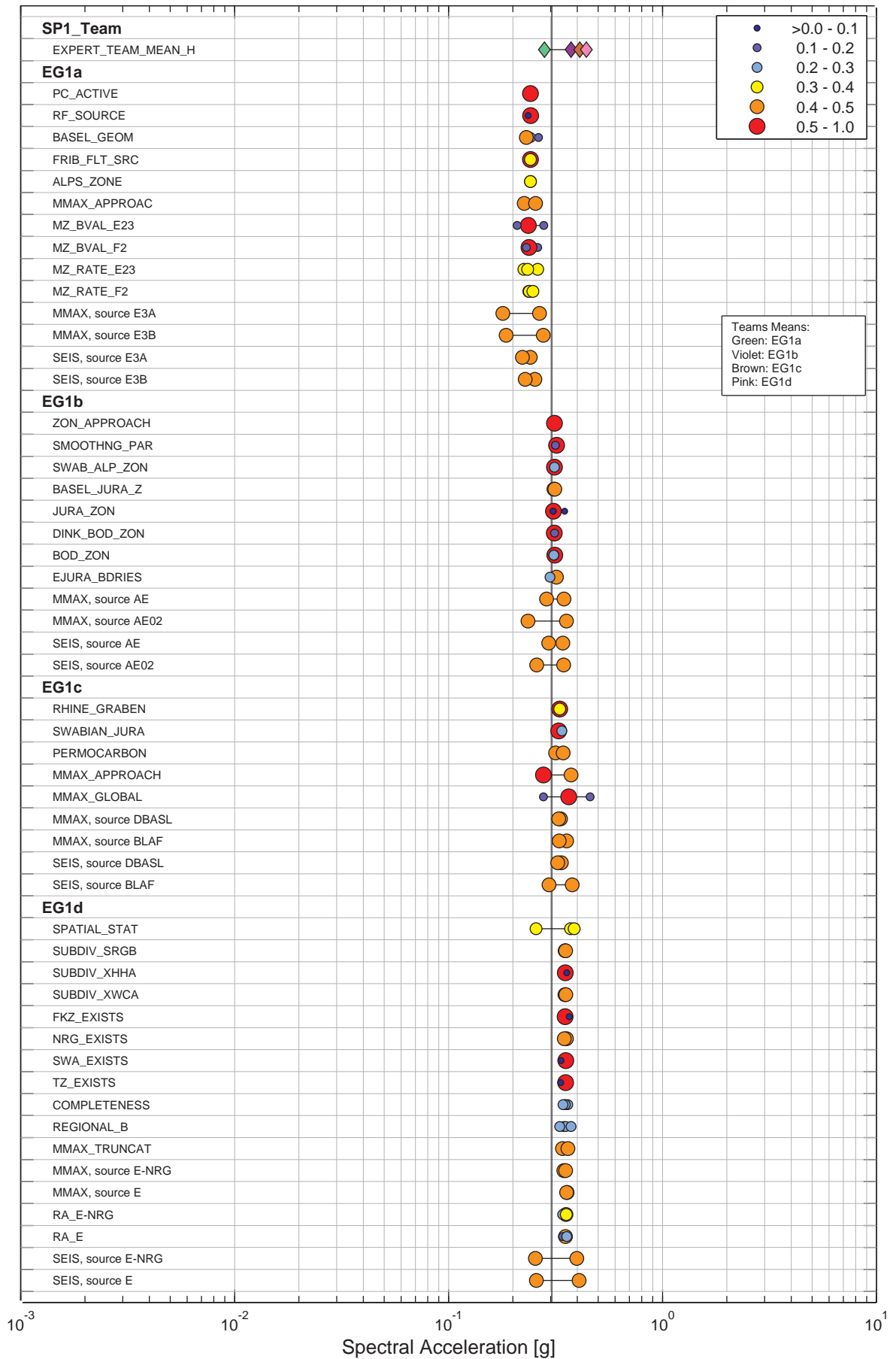


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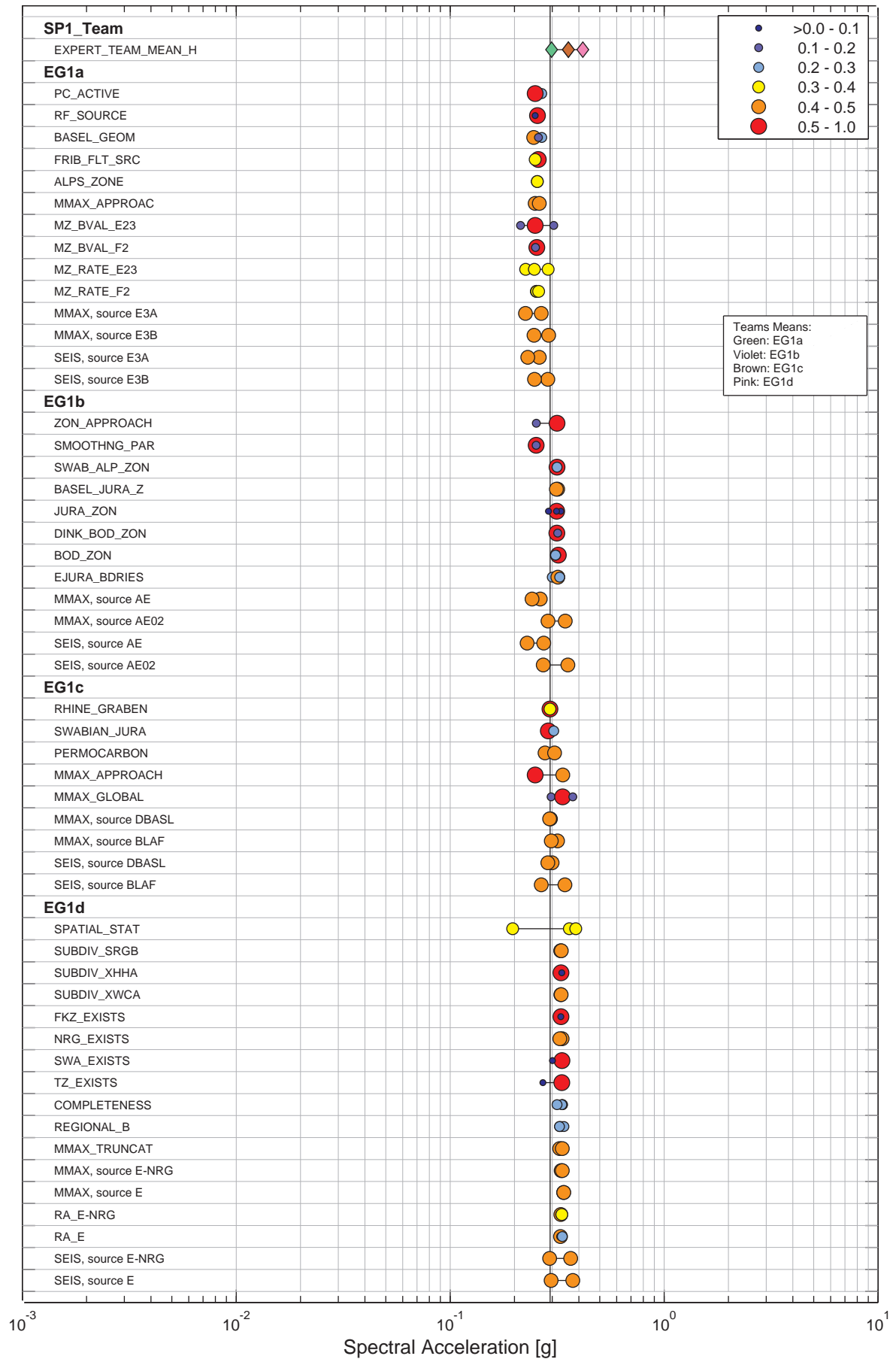


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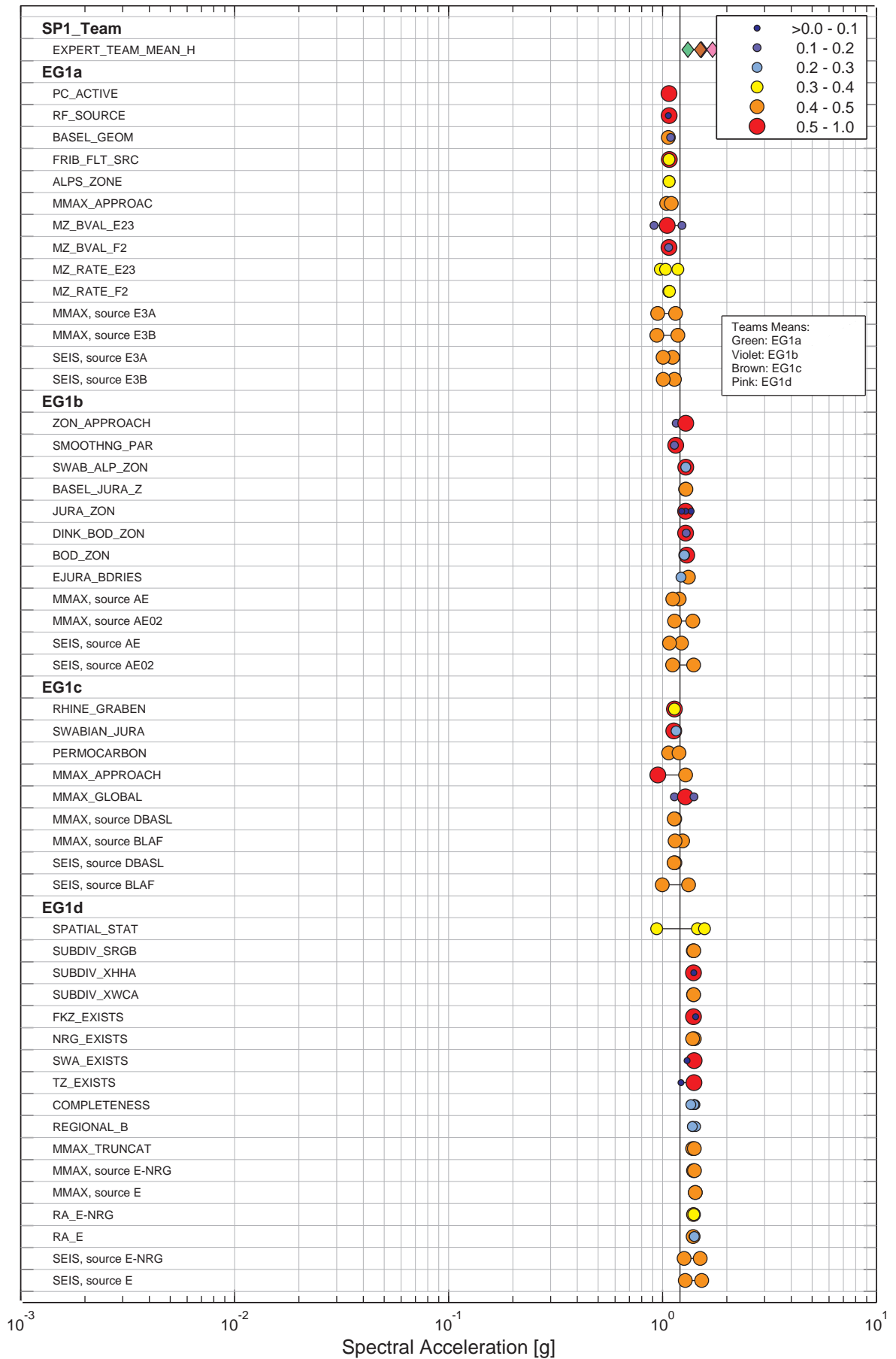


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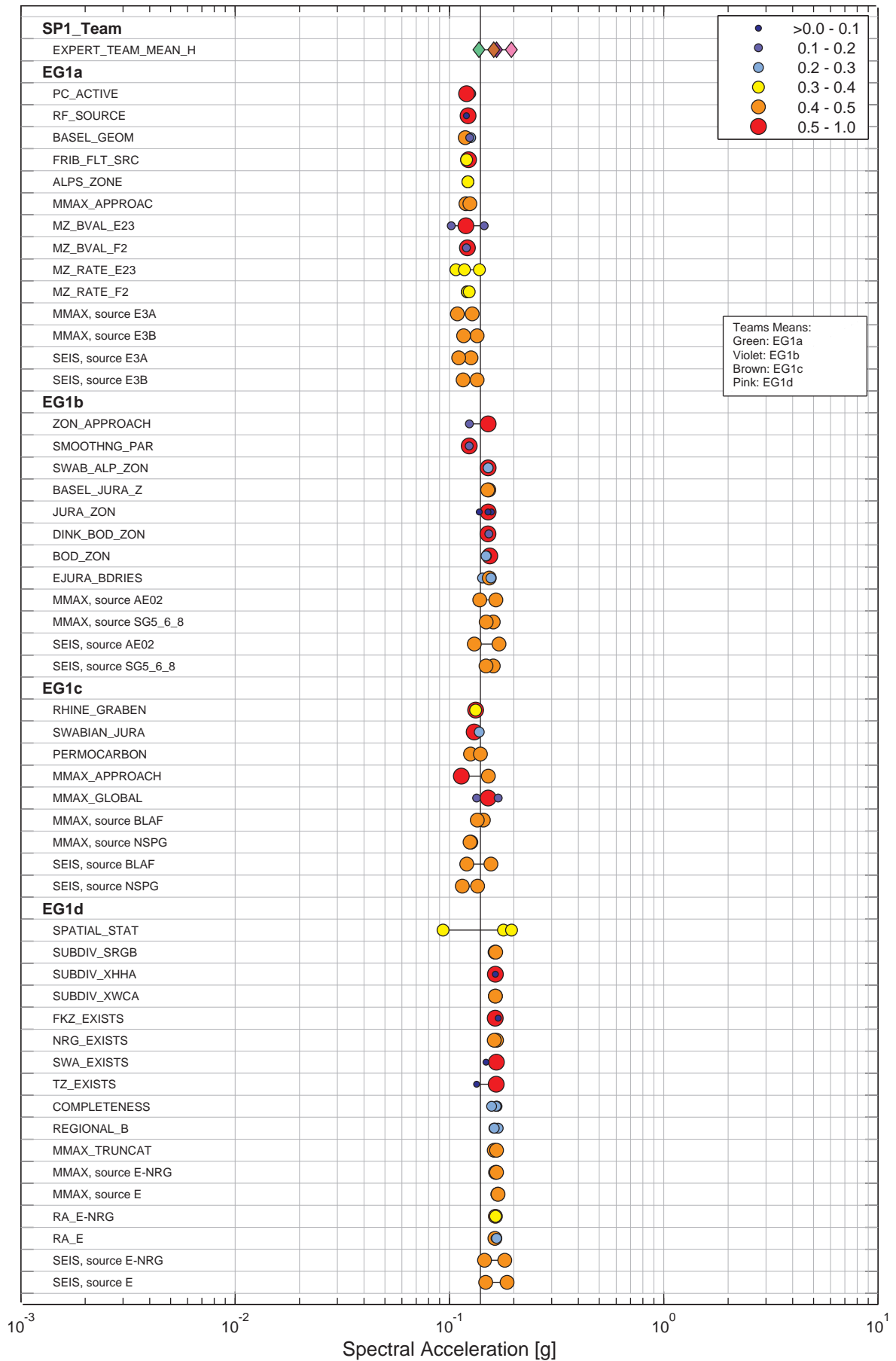


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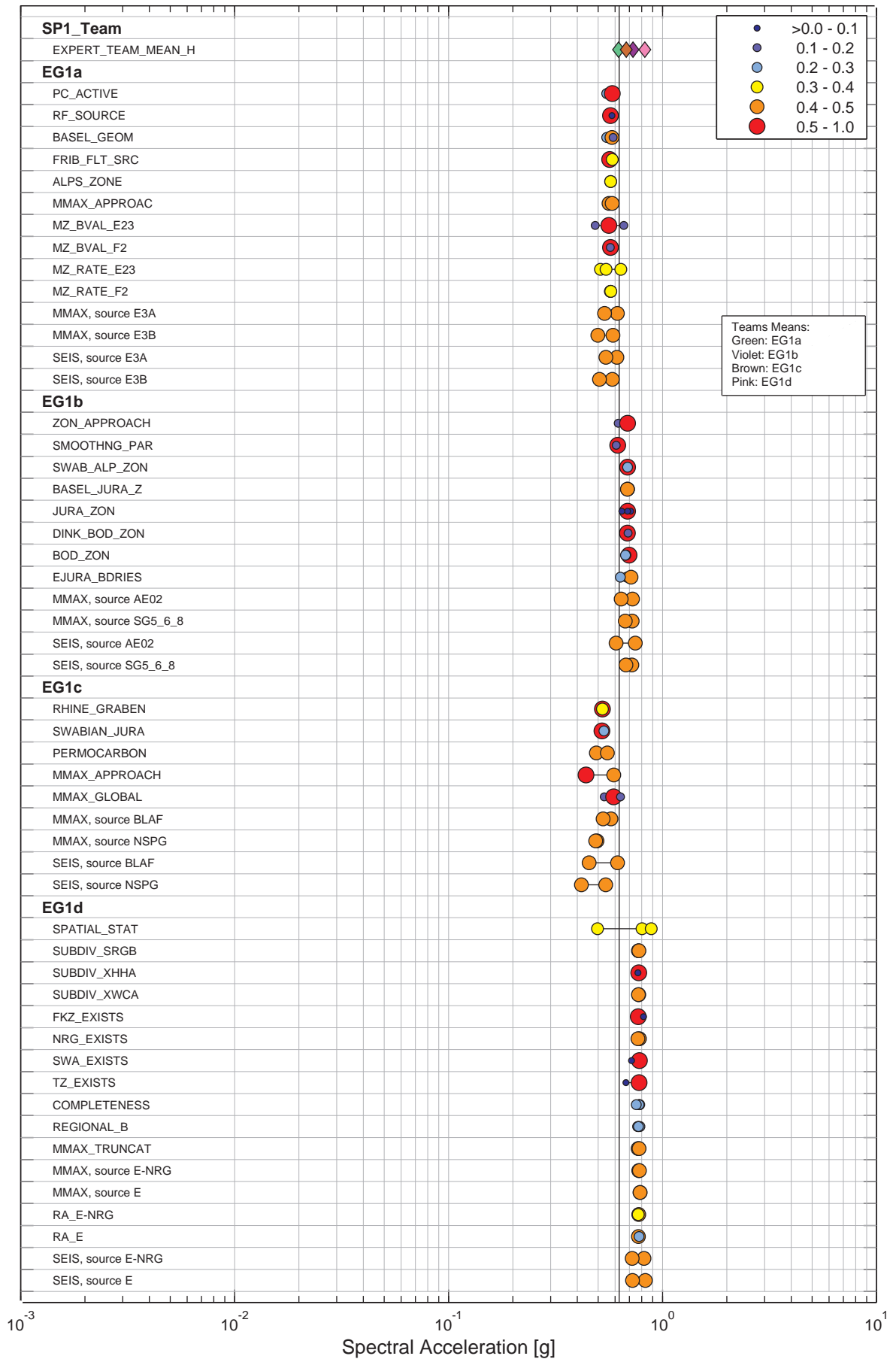


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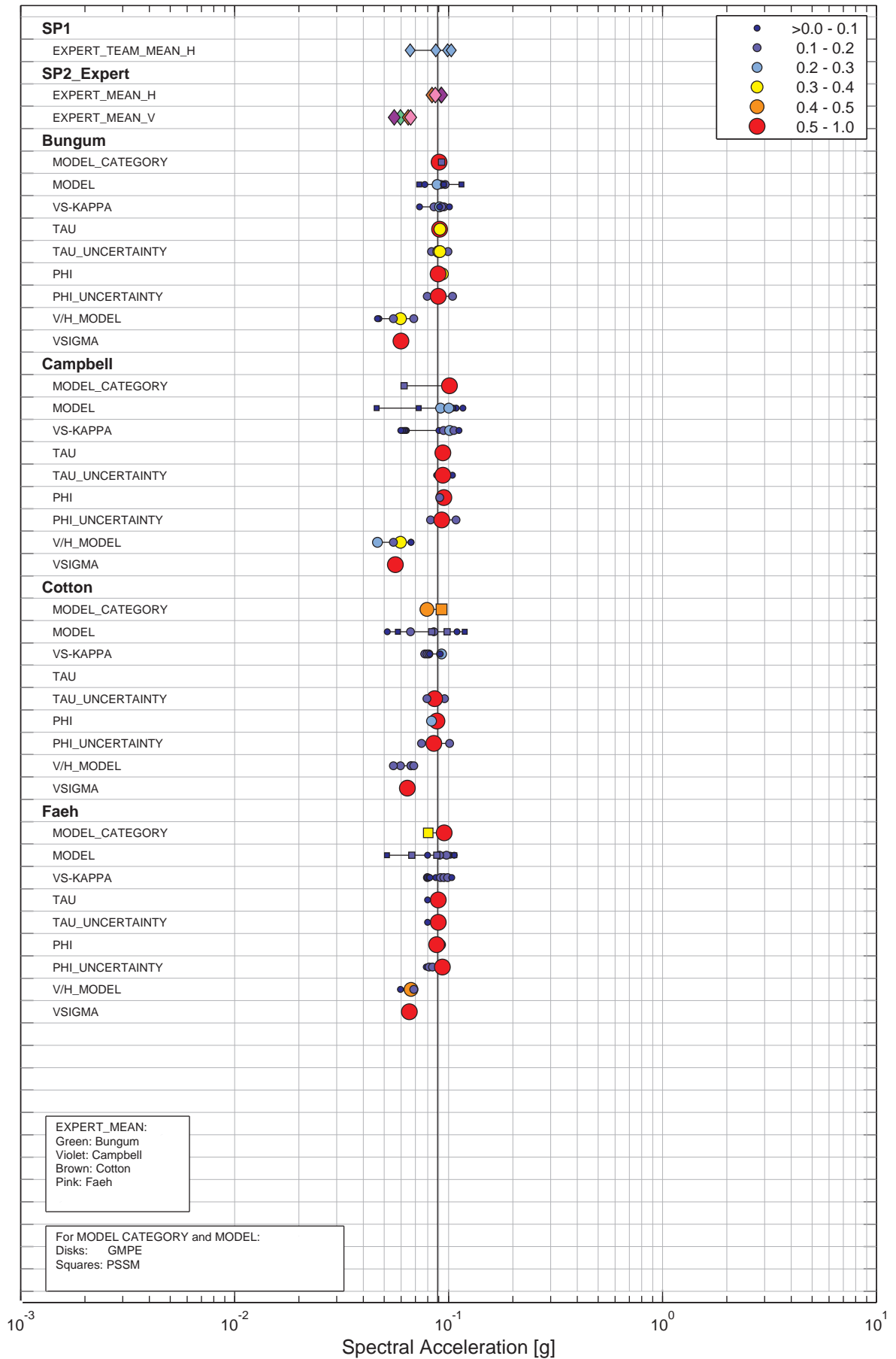


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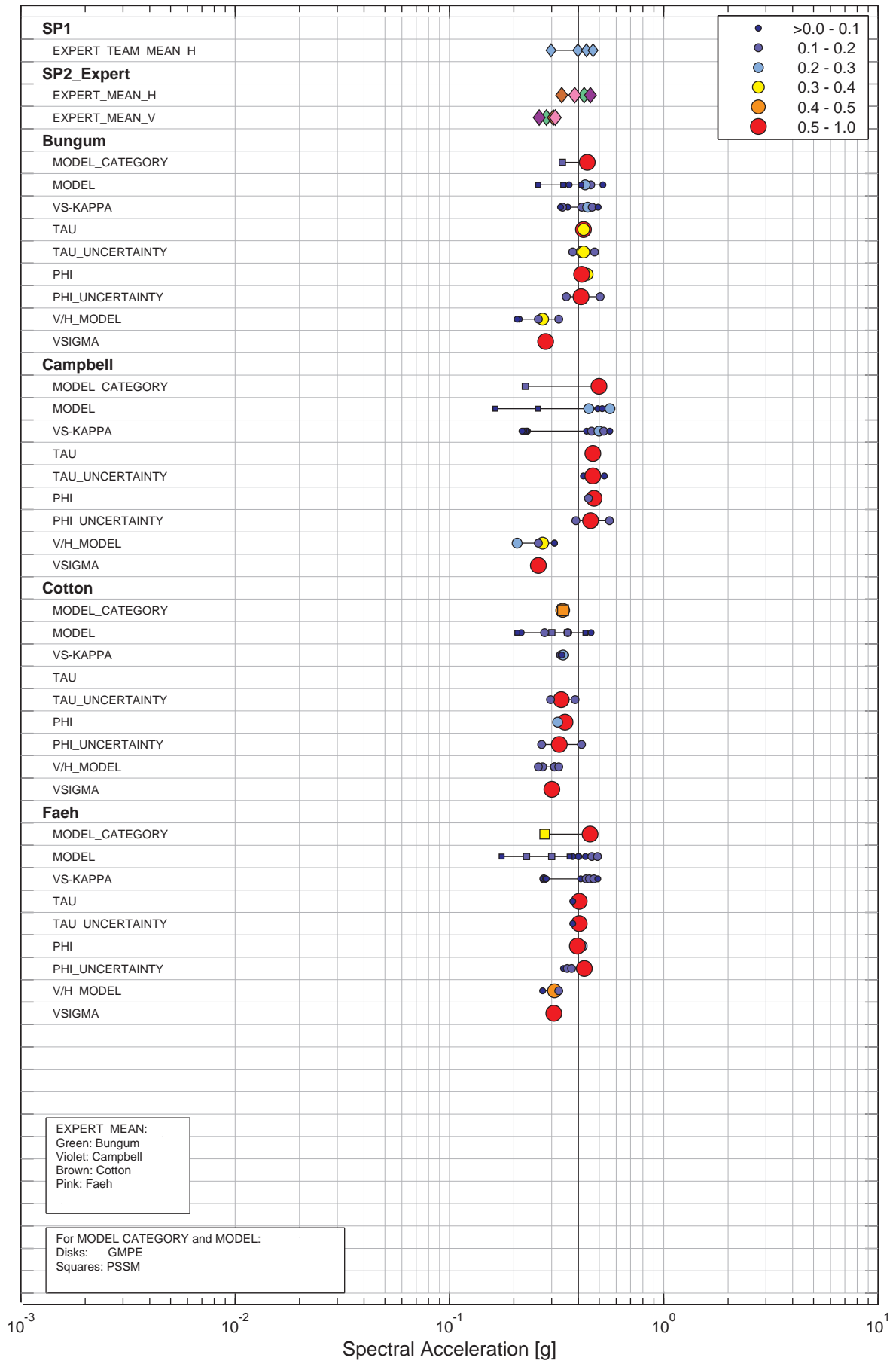


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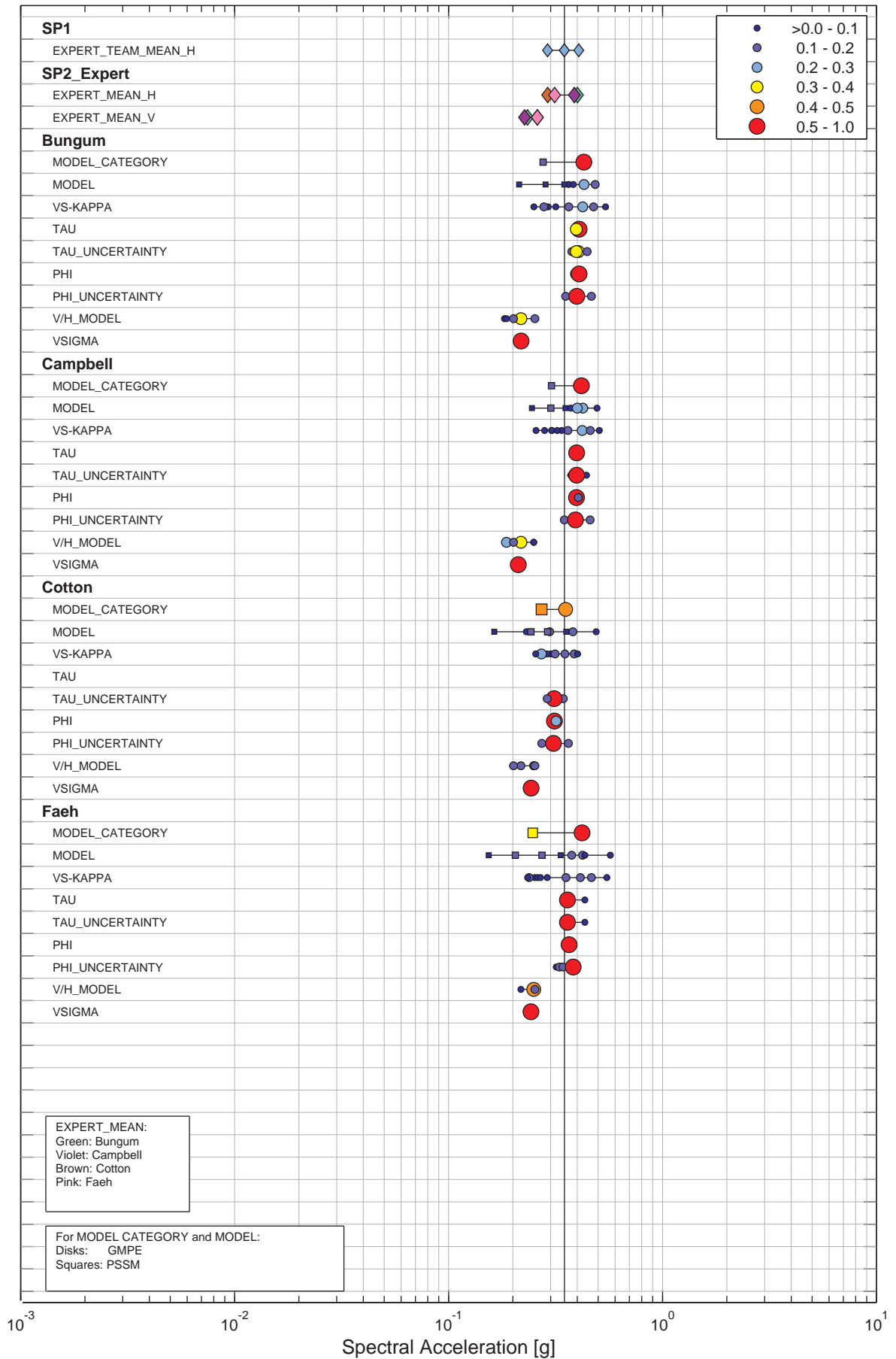


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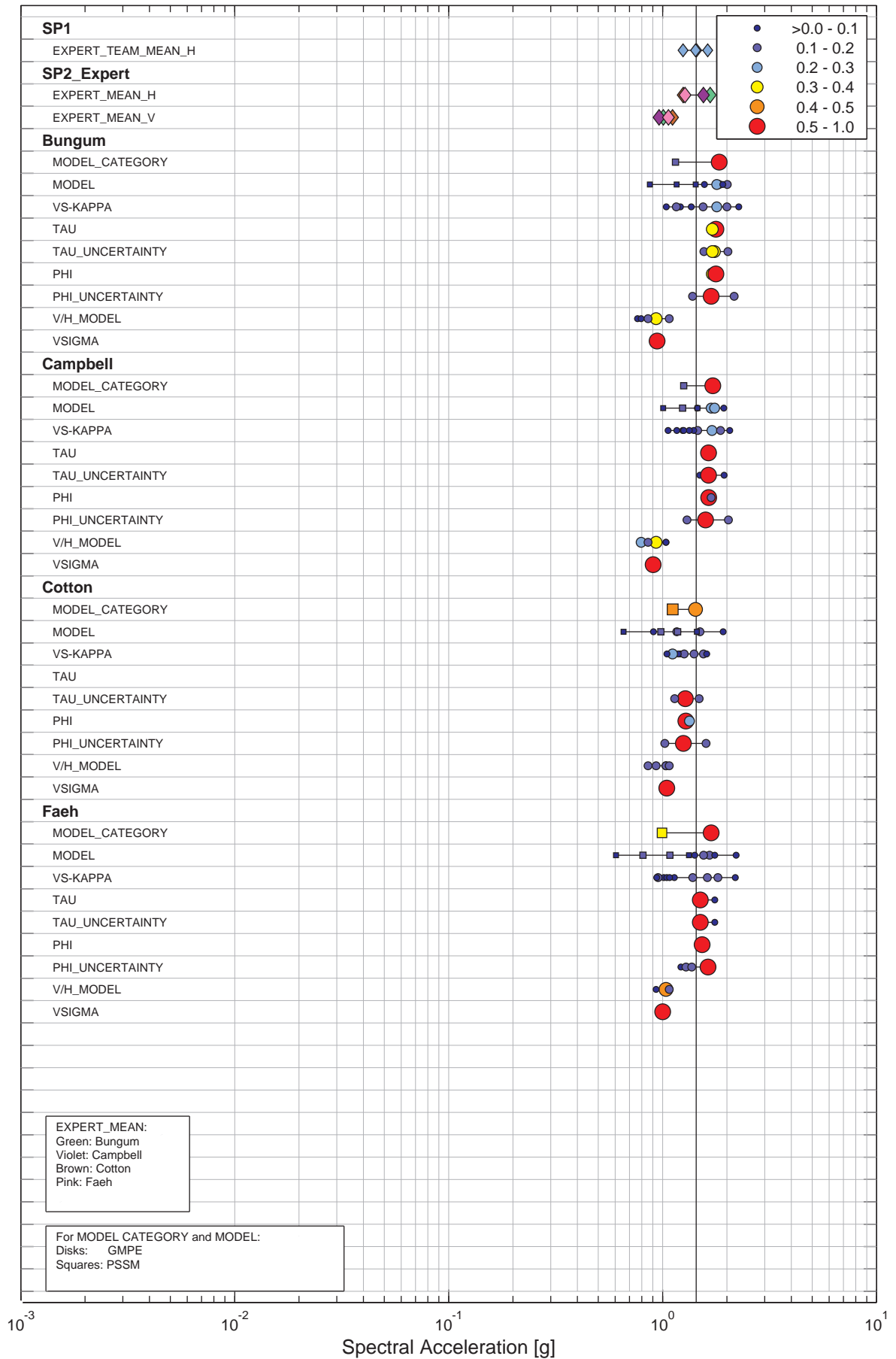


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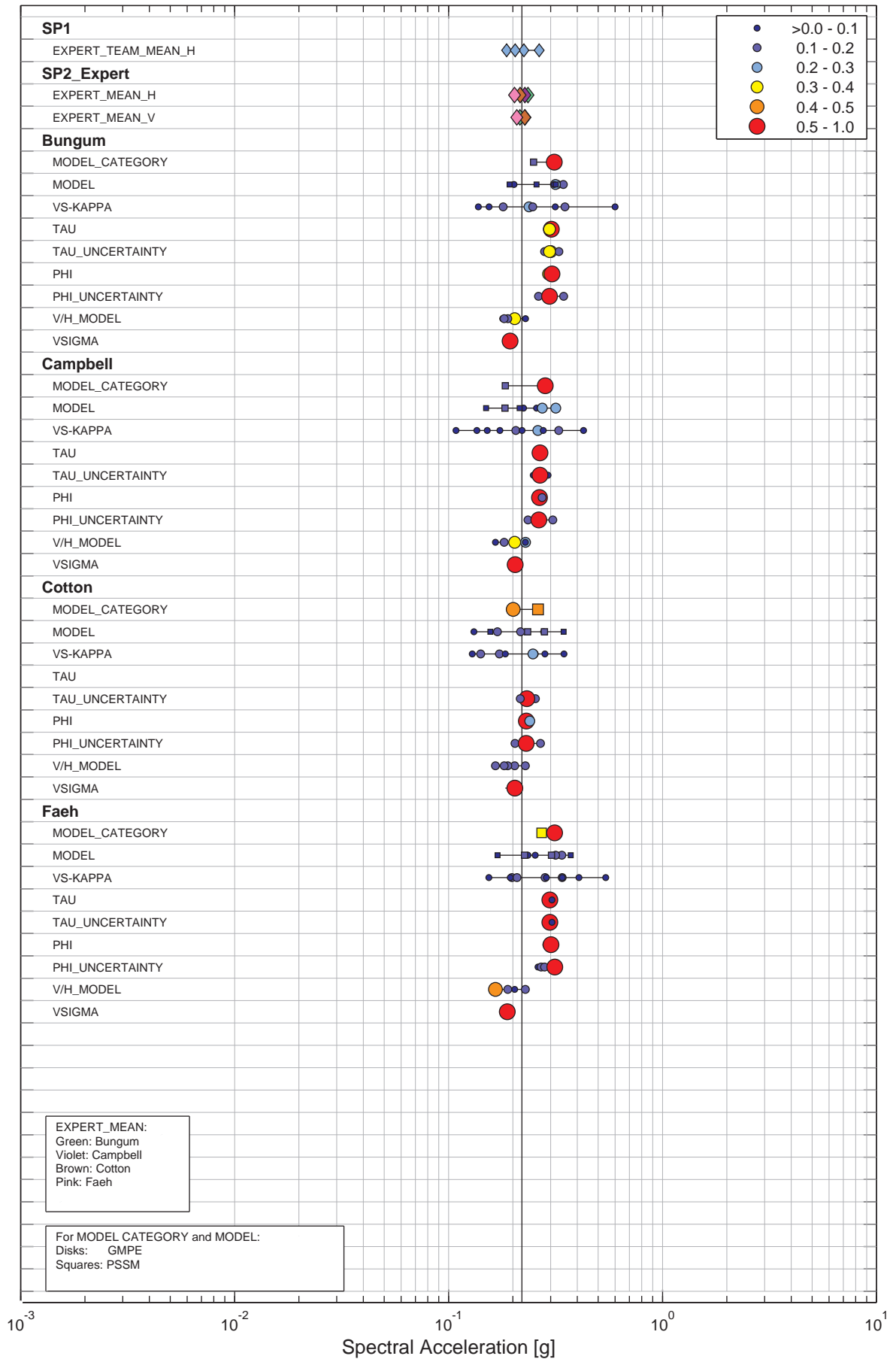


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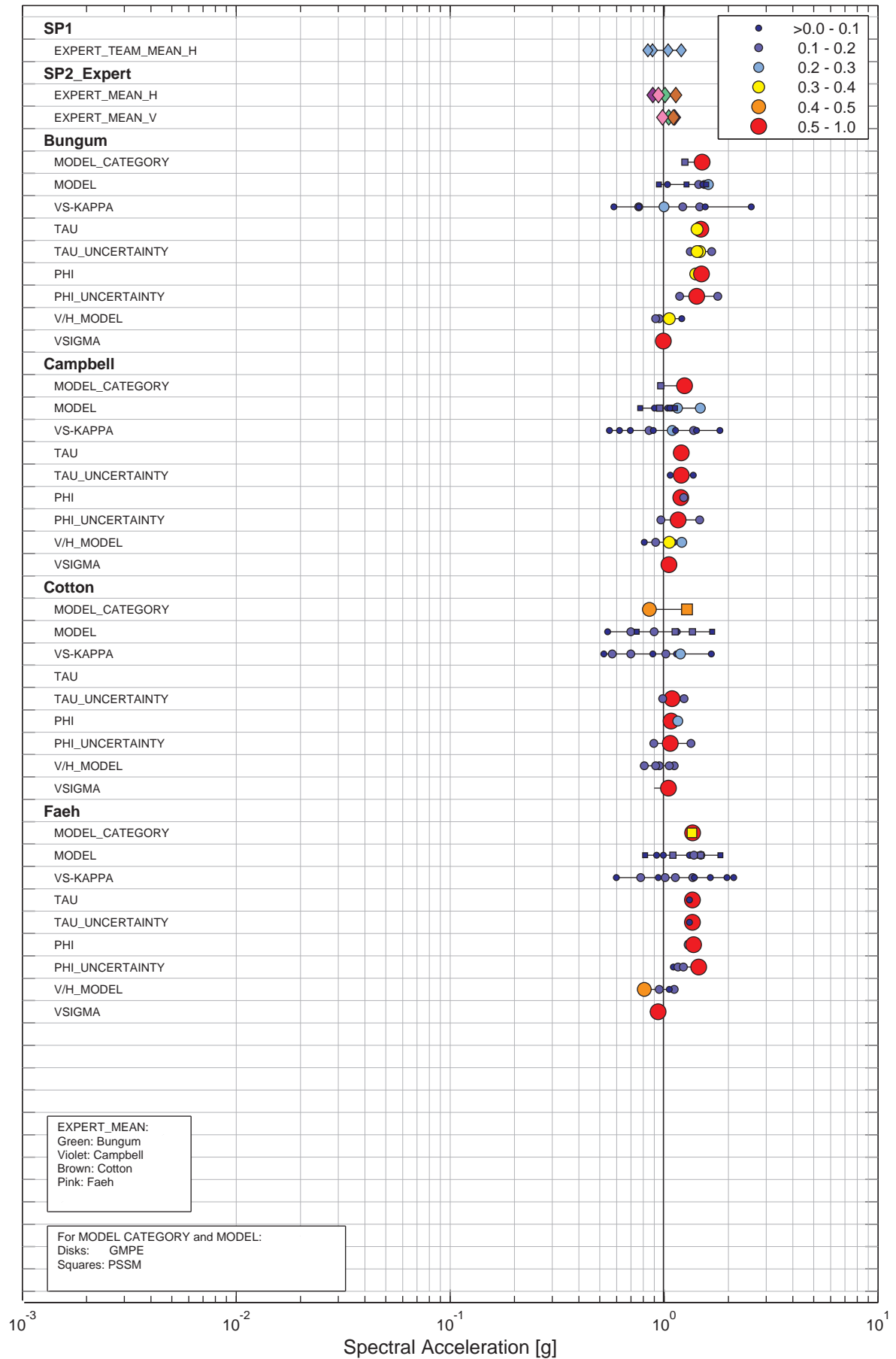


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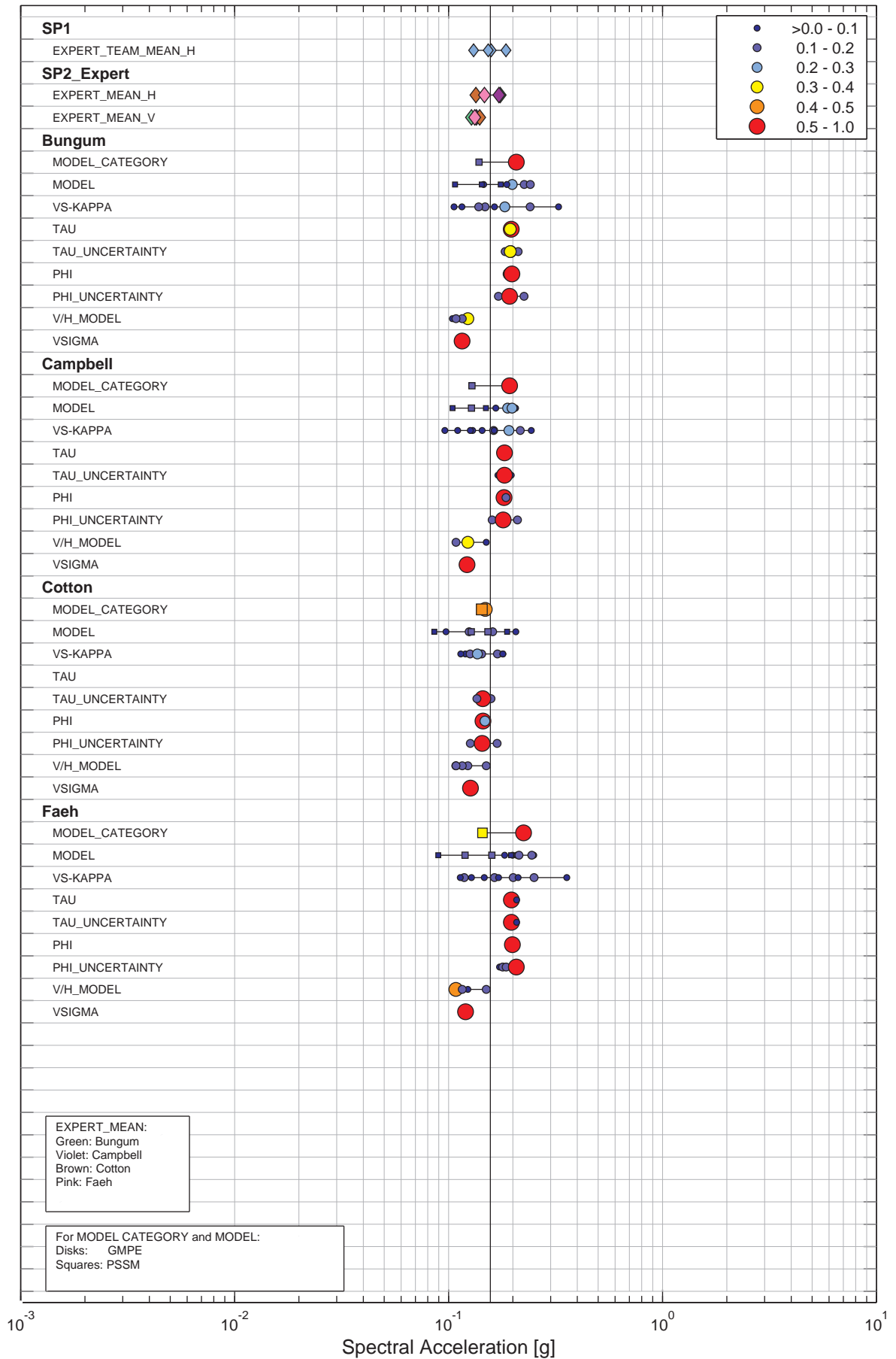


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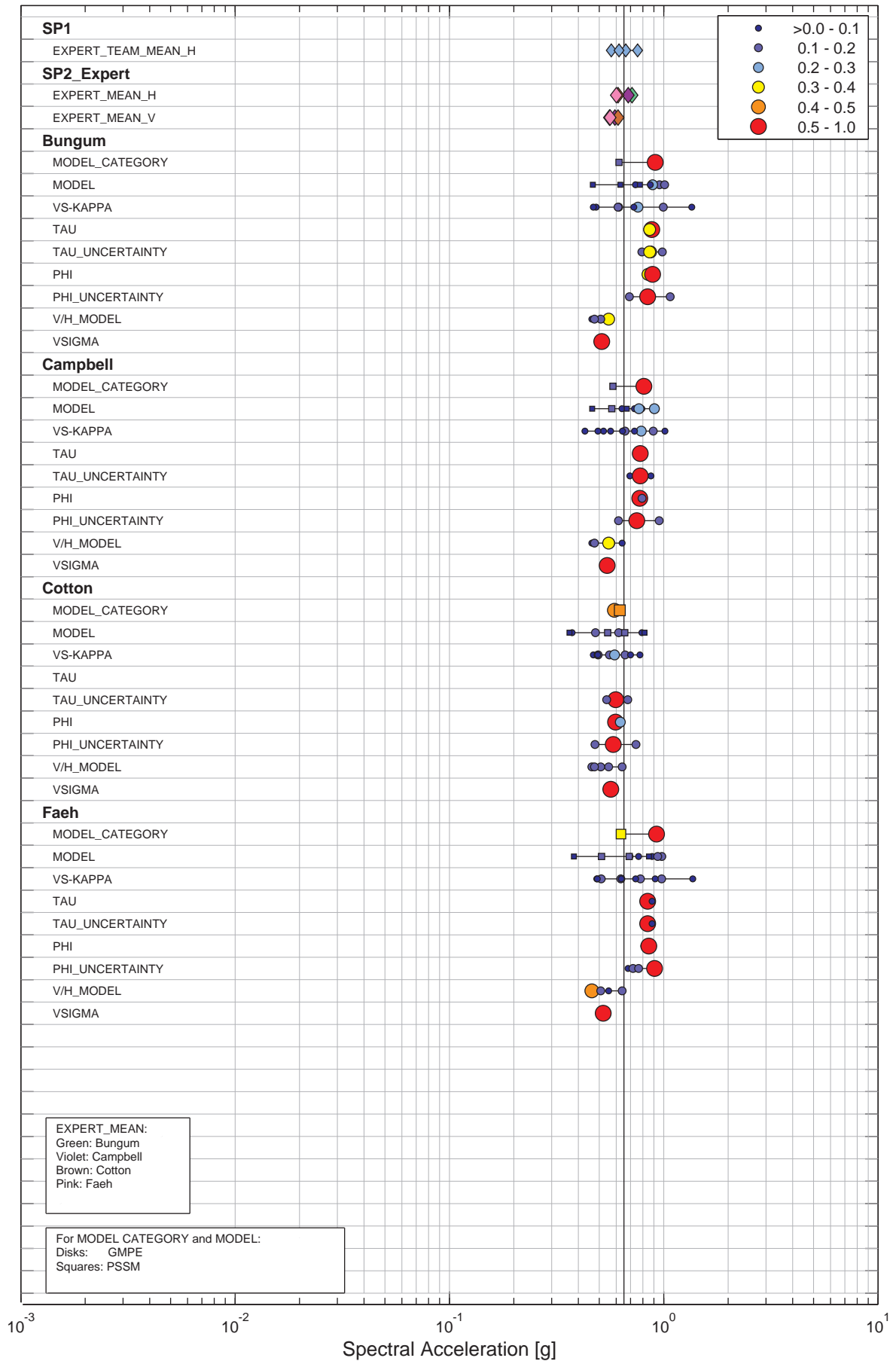


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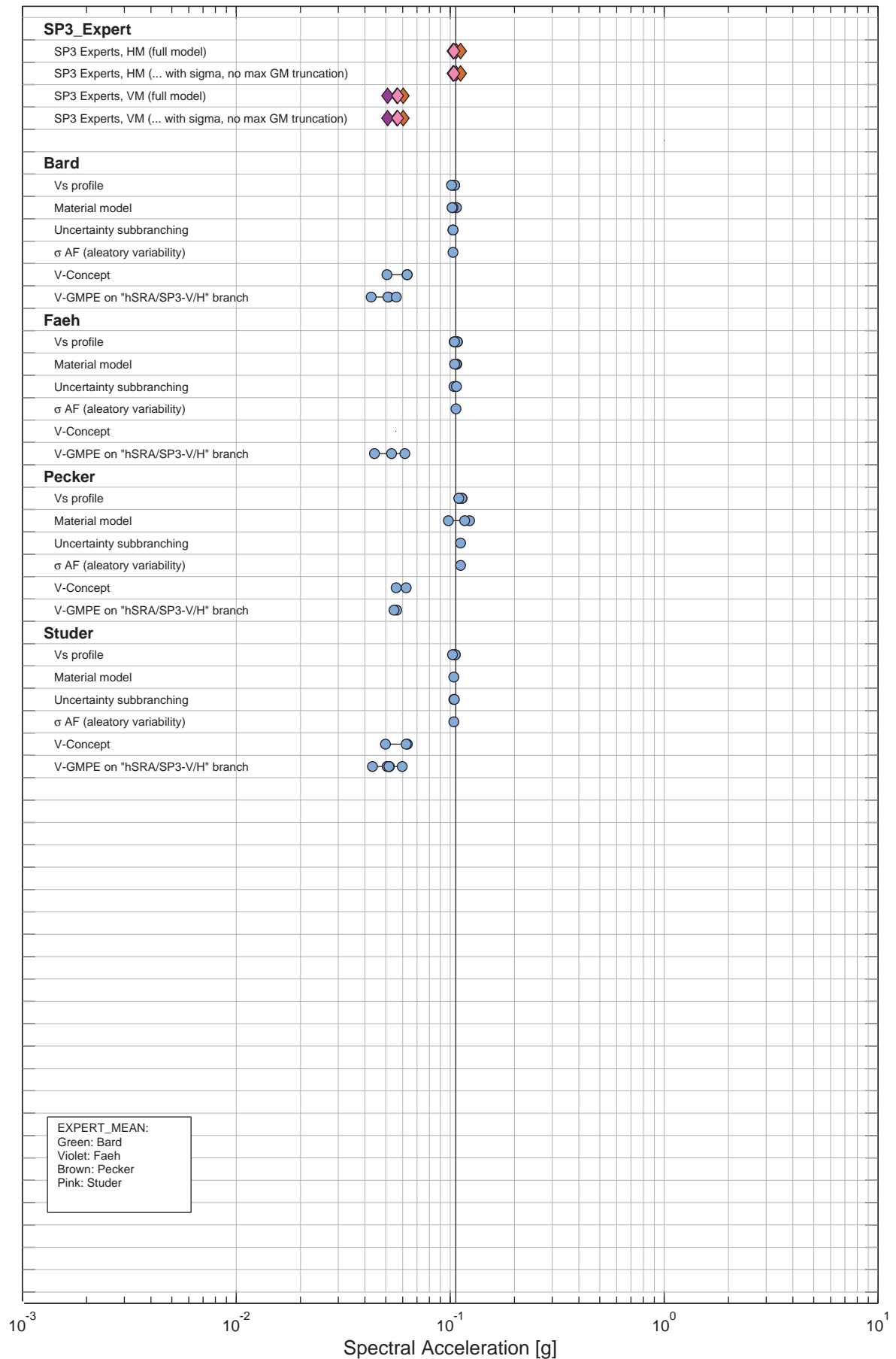


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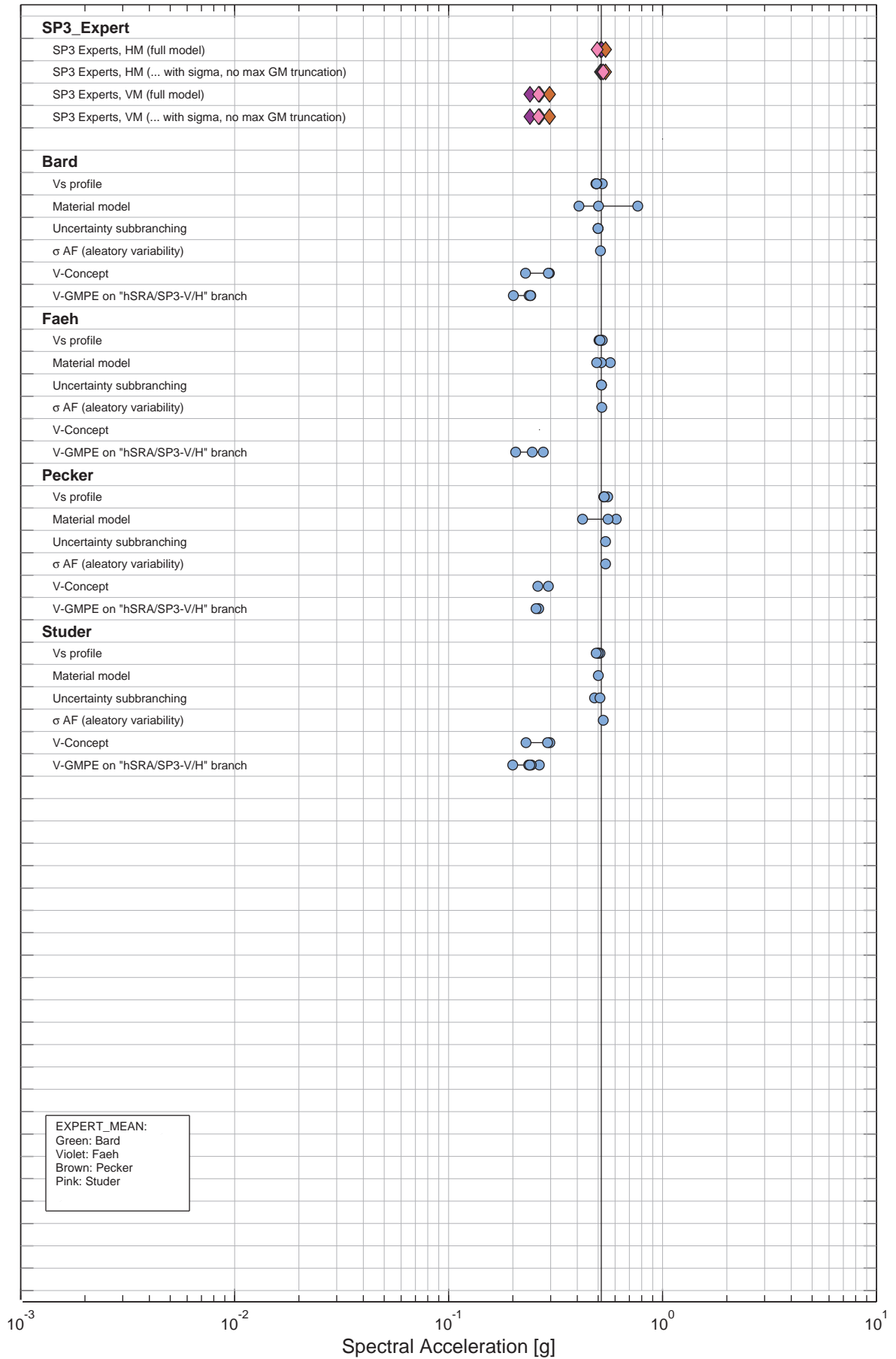


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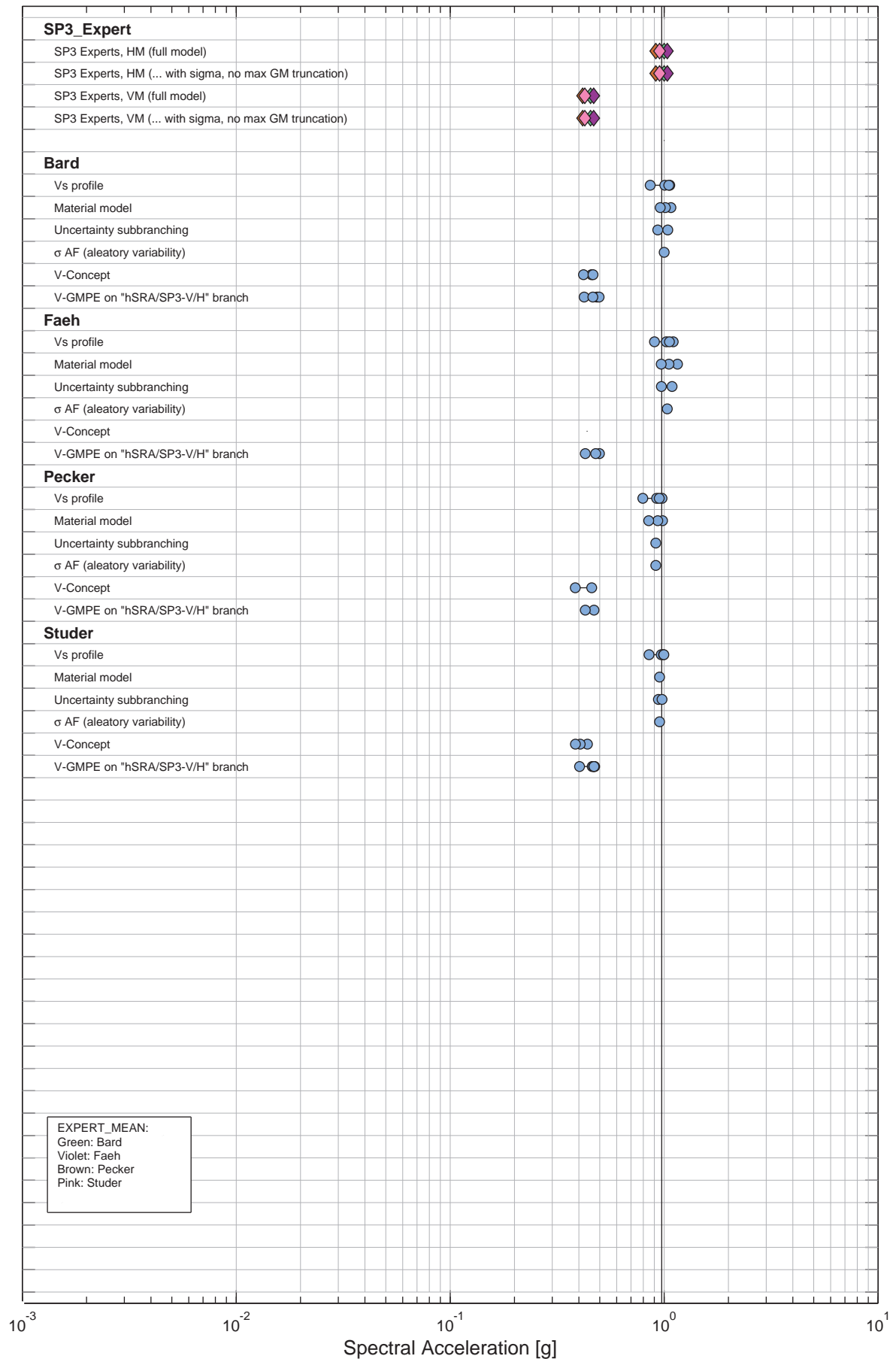


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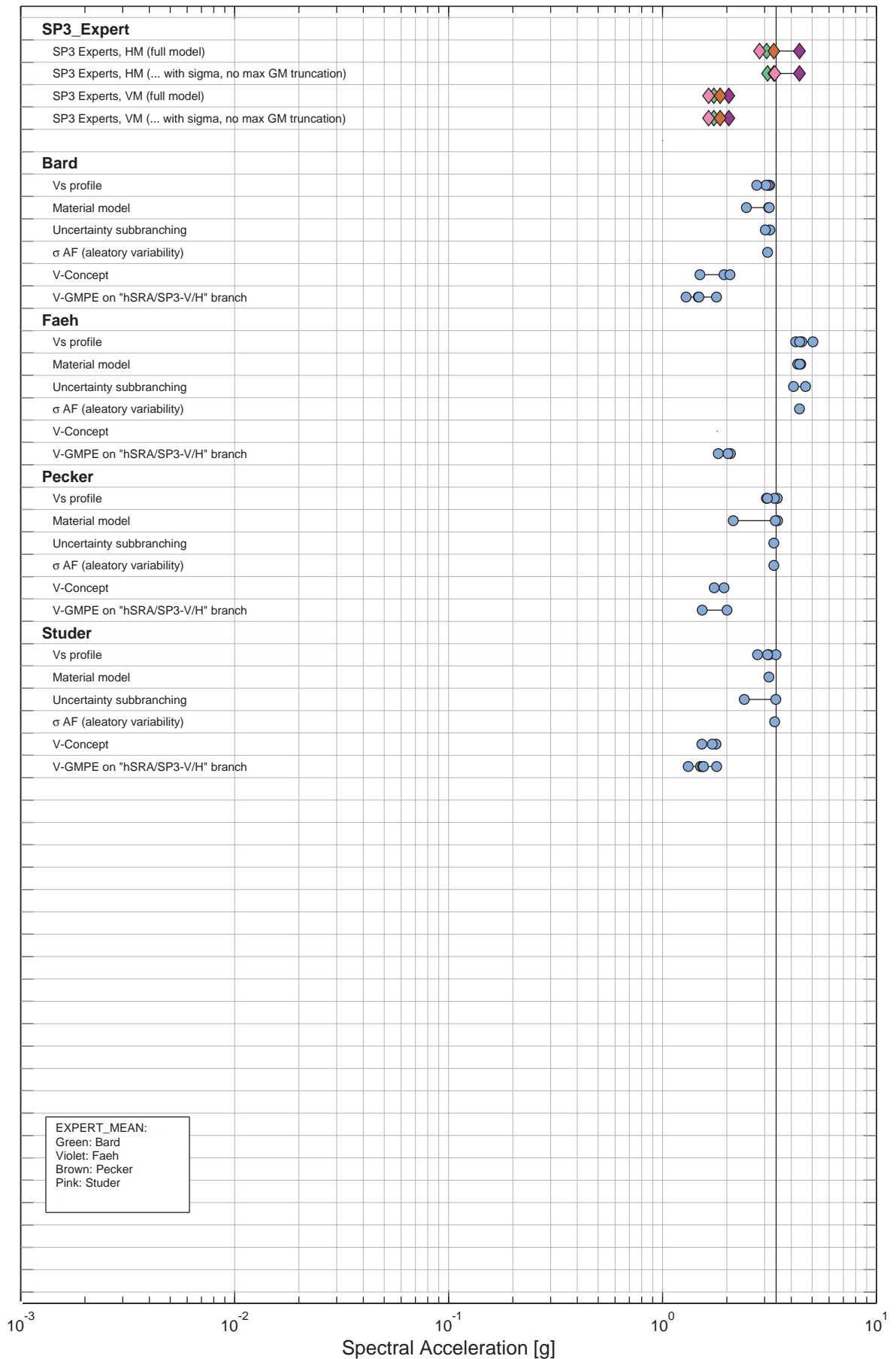


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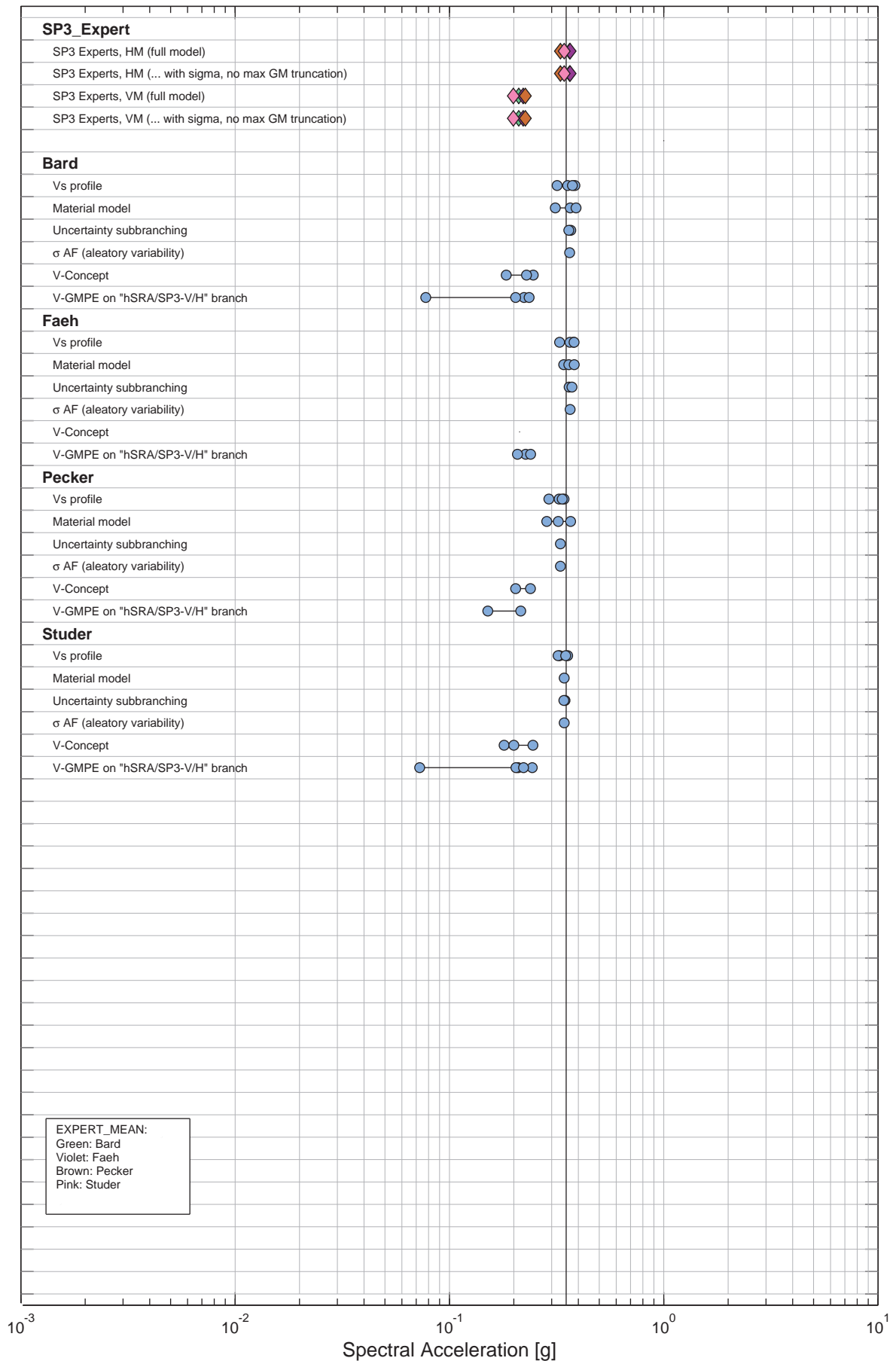


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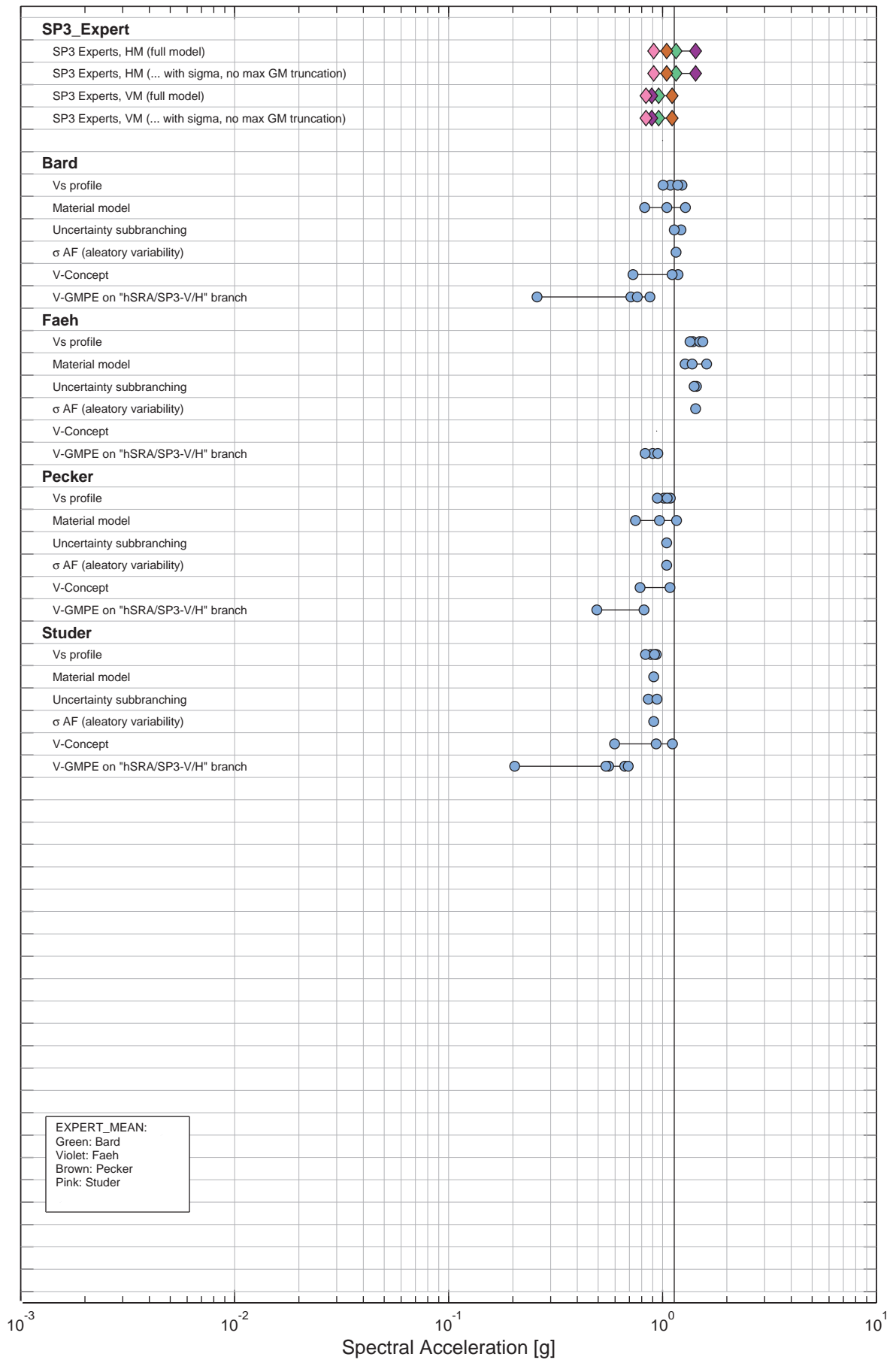


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Chapter 3

GÖSGEN

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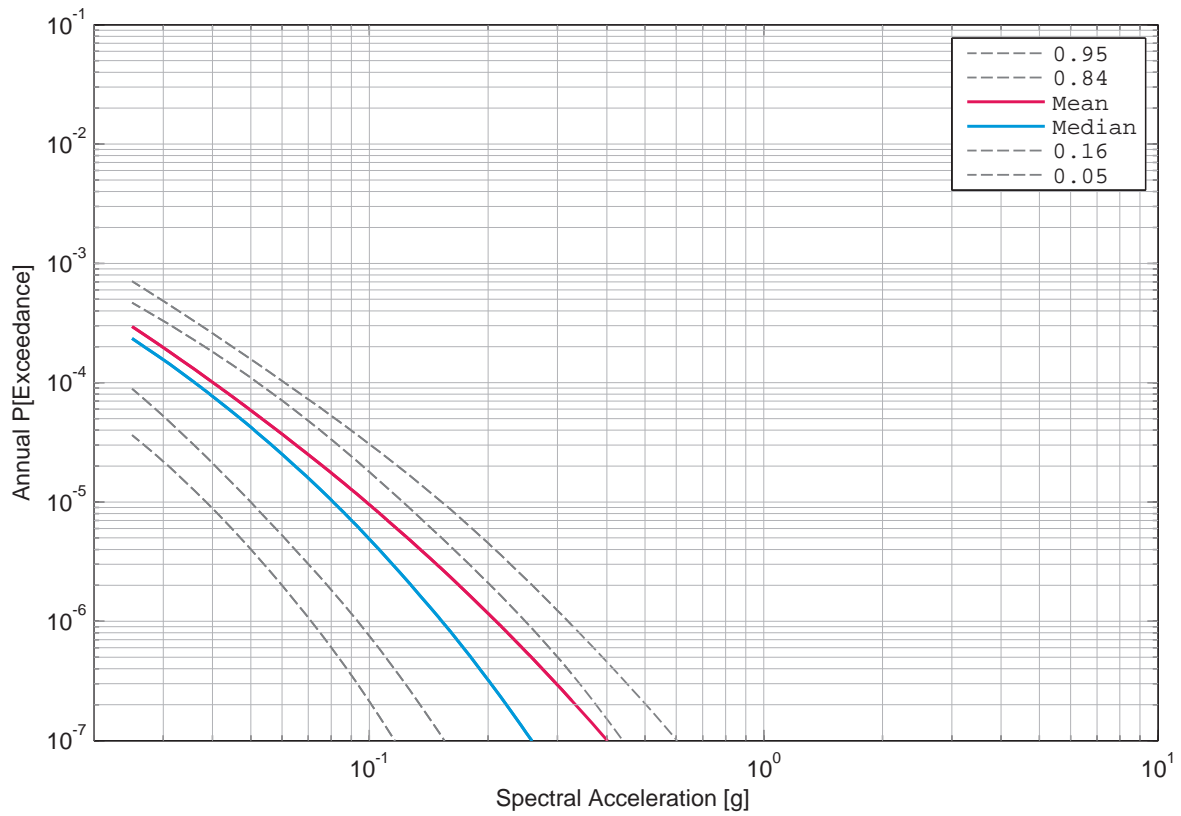


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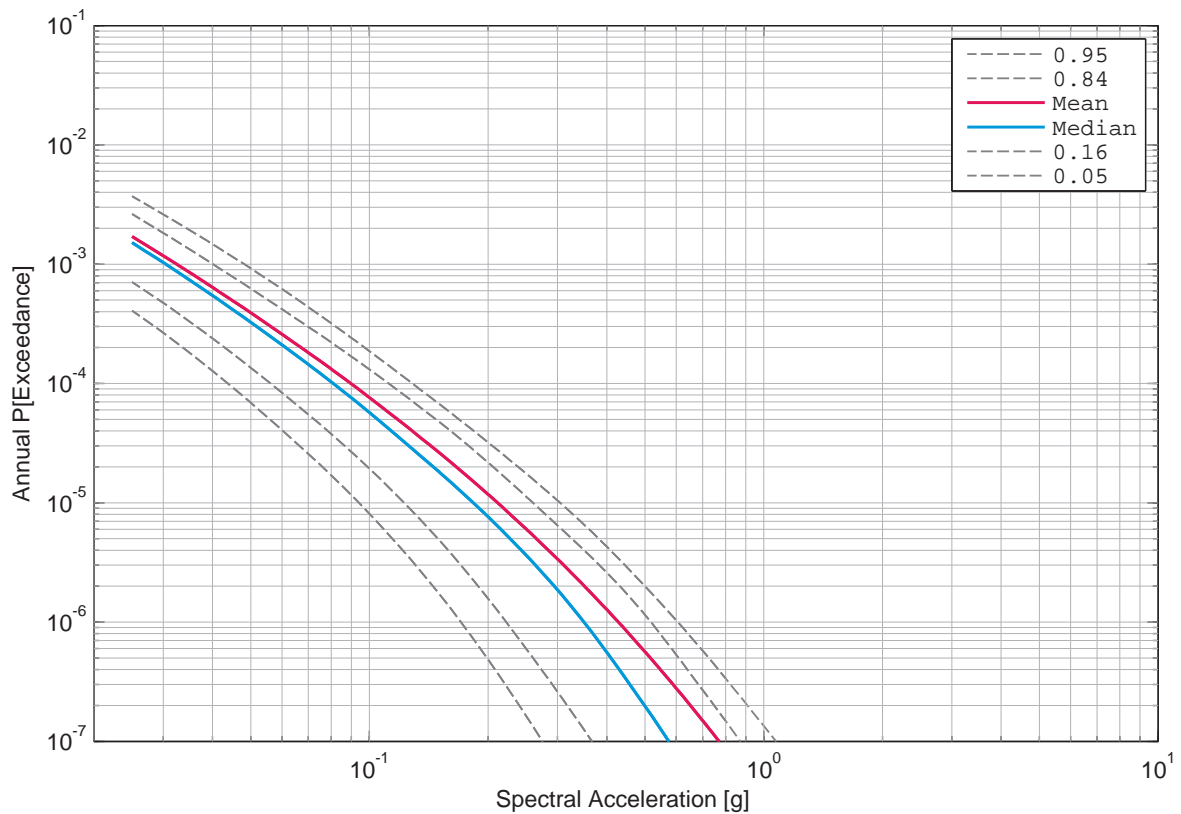


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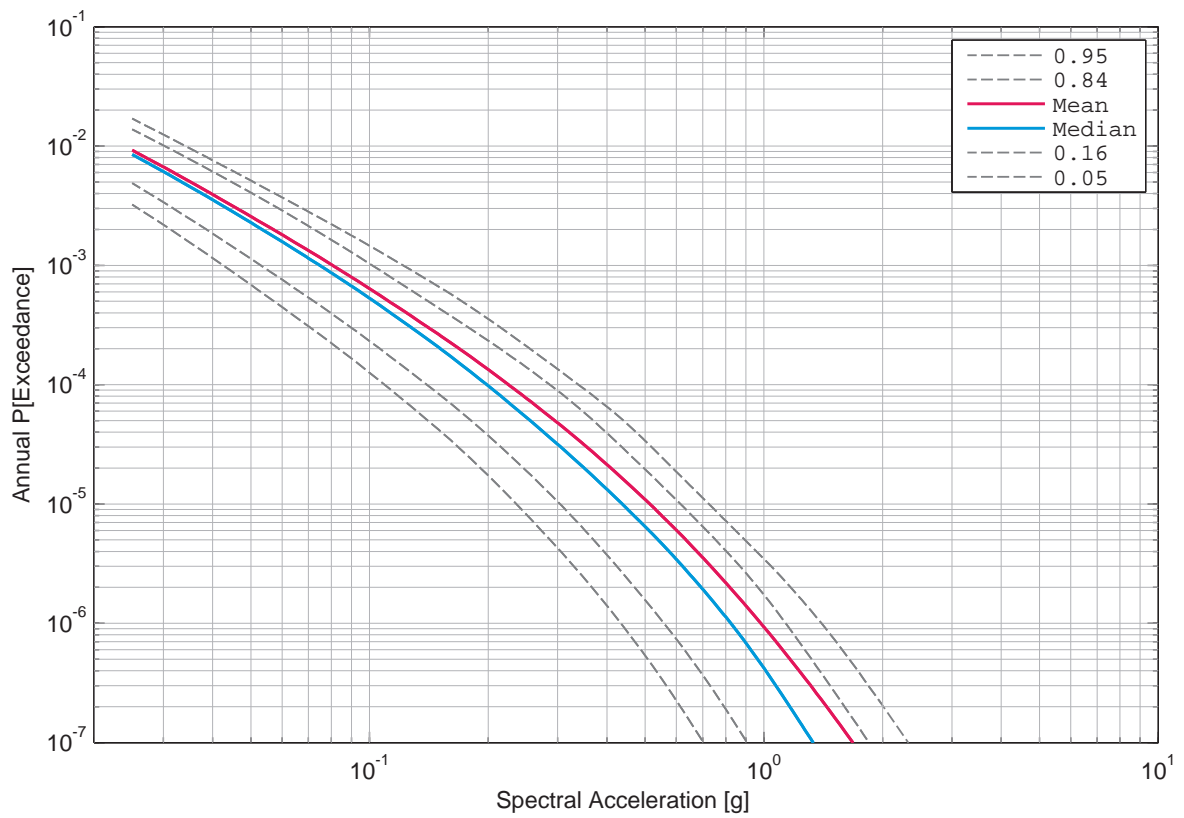


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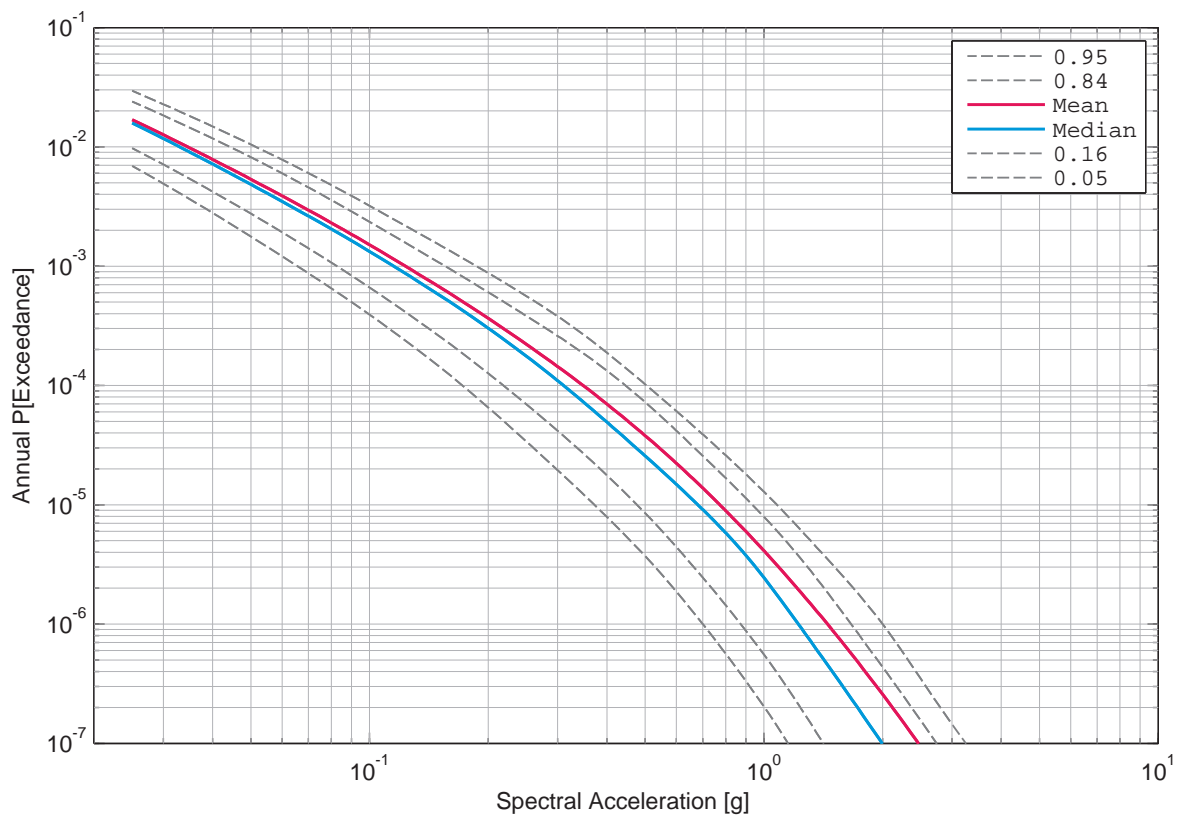


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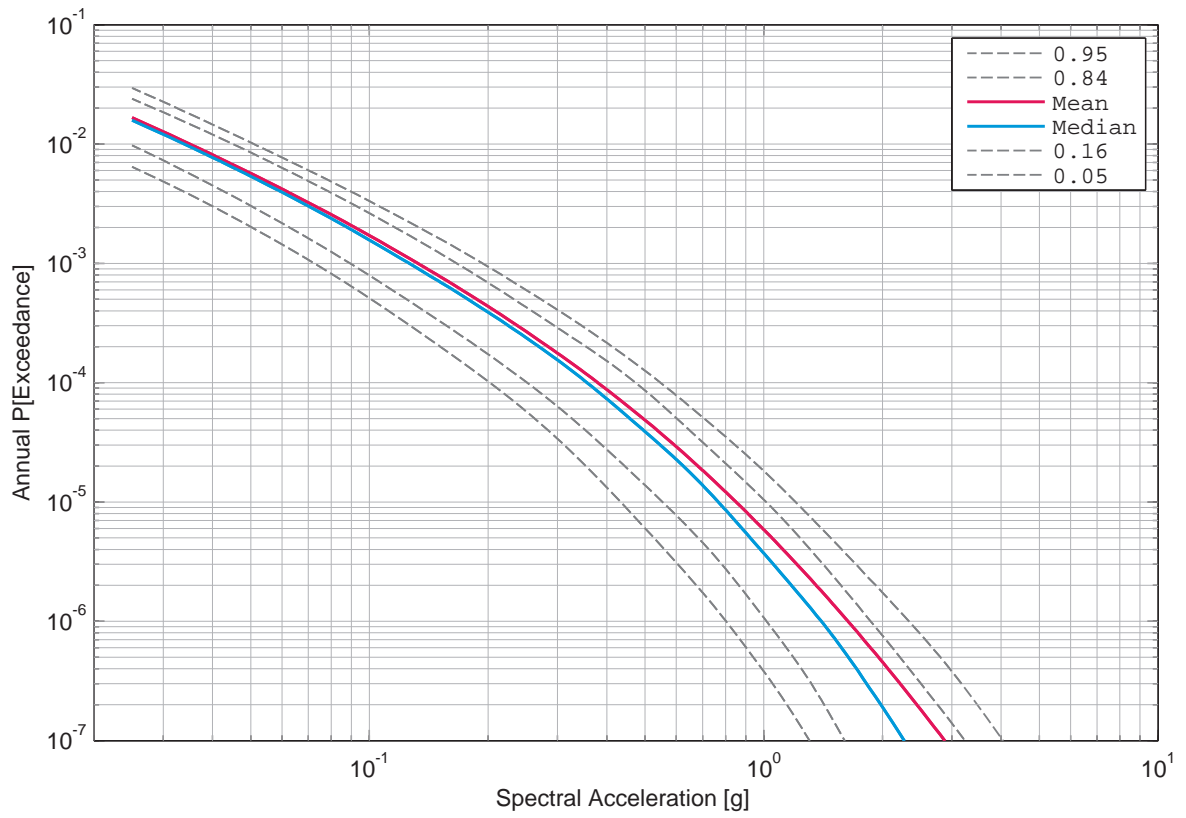


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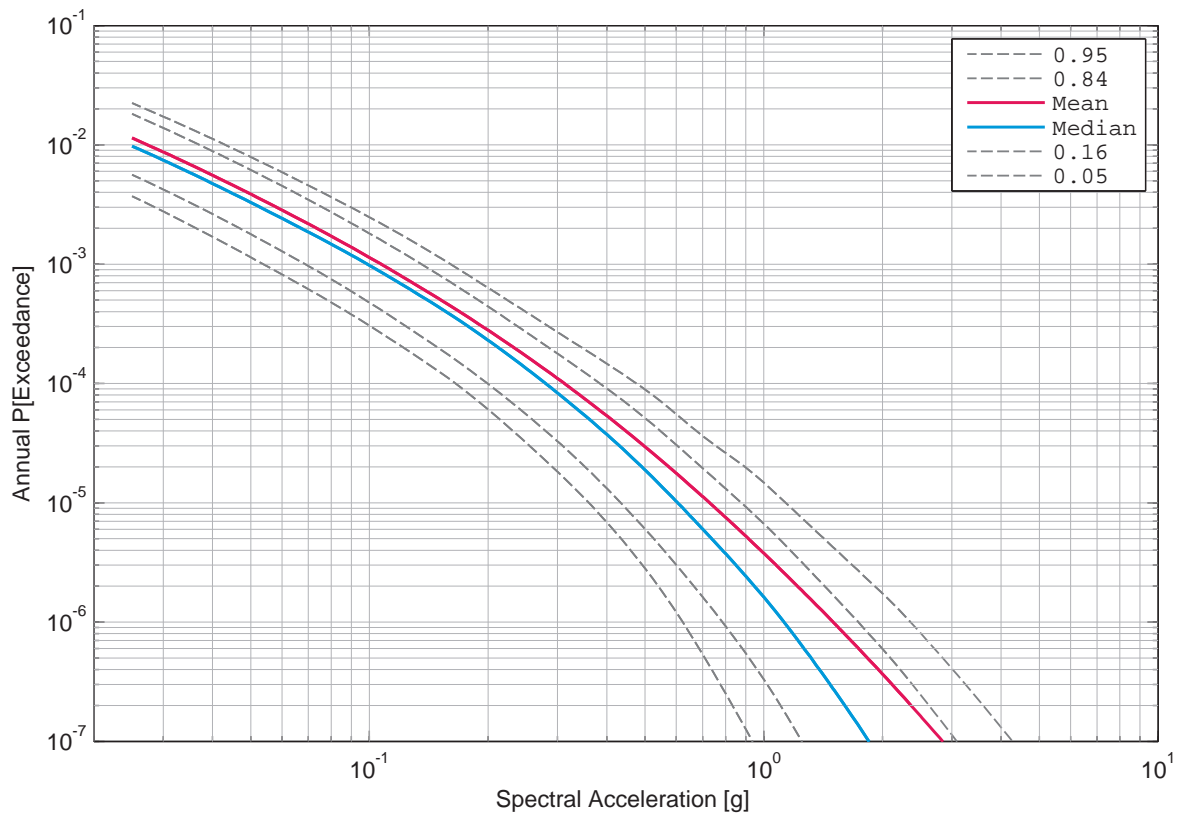


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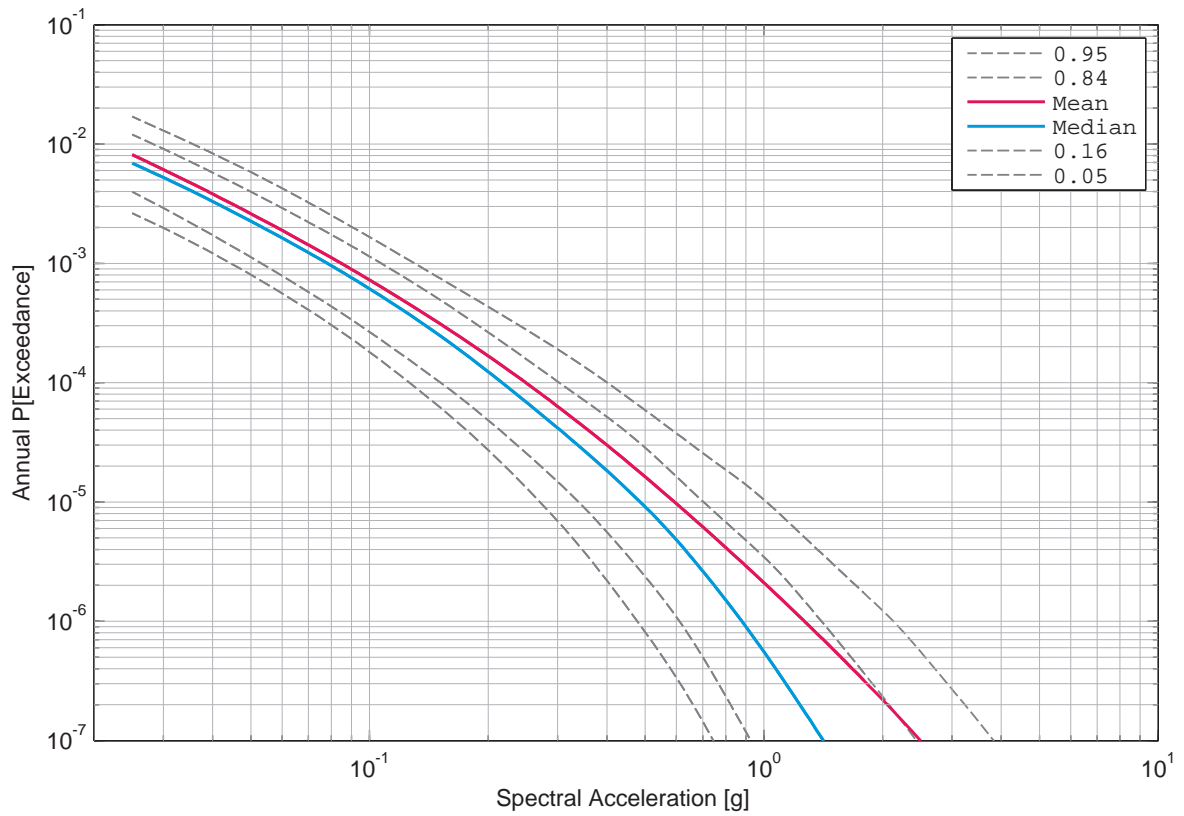


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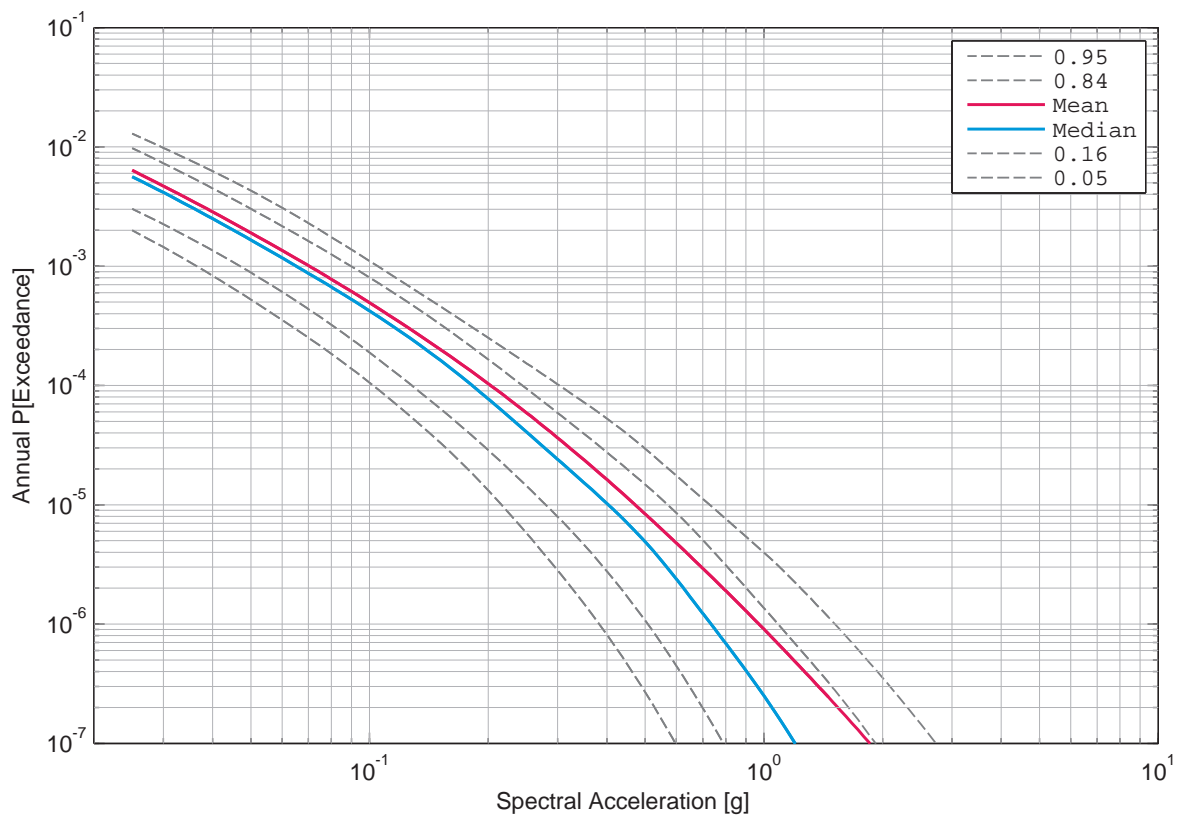


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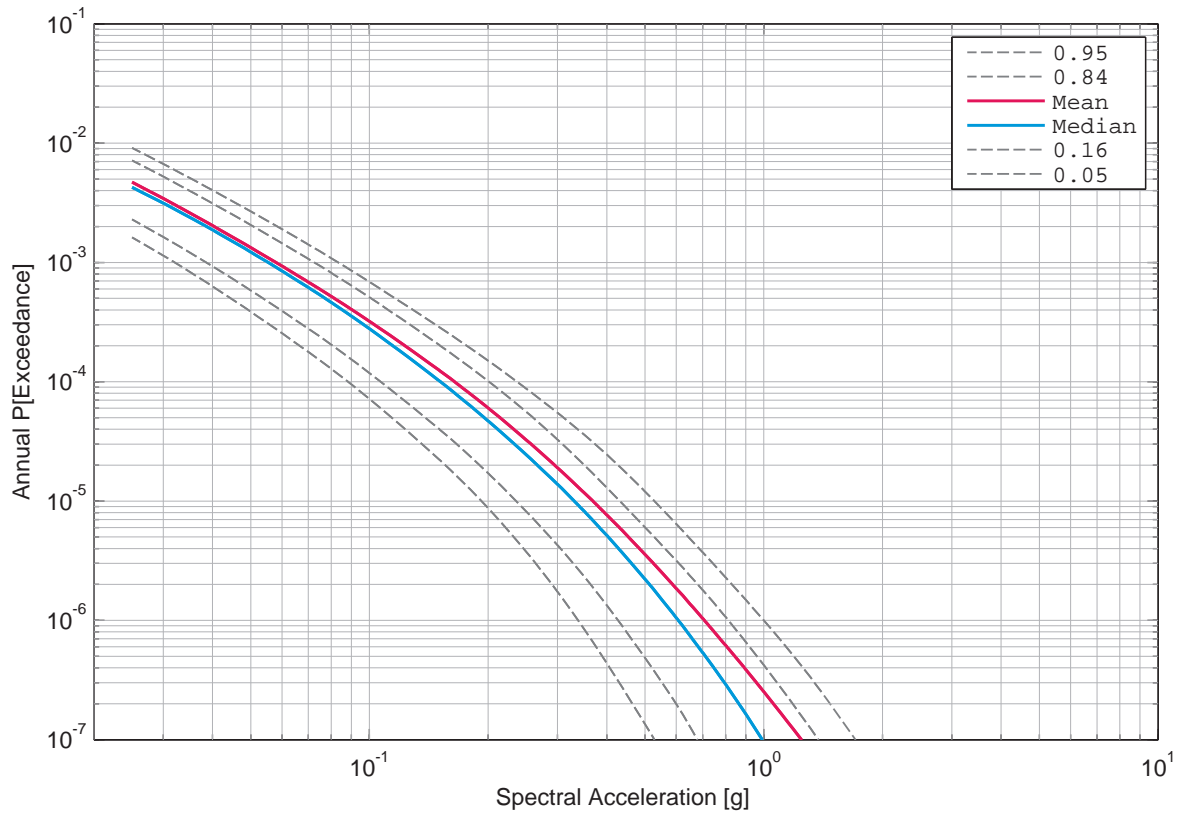


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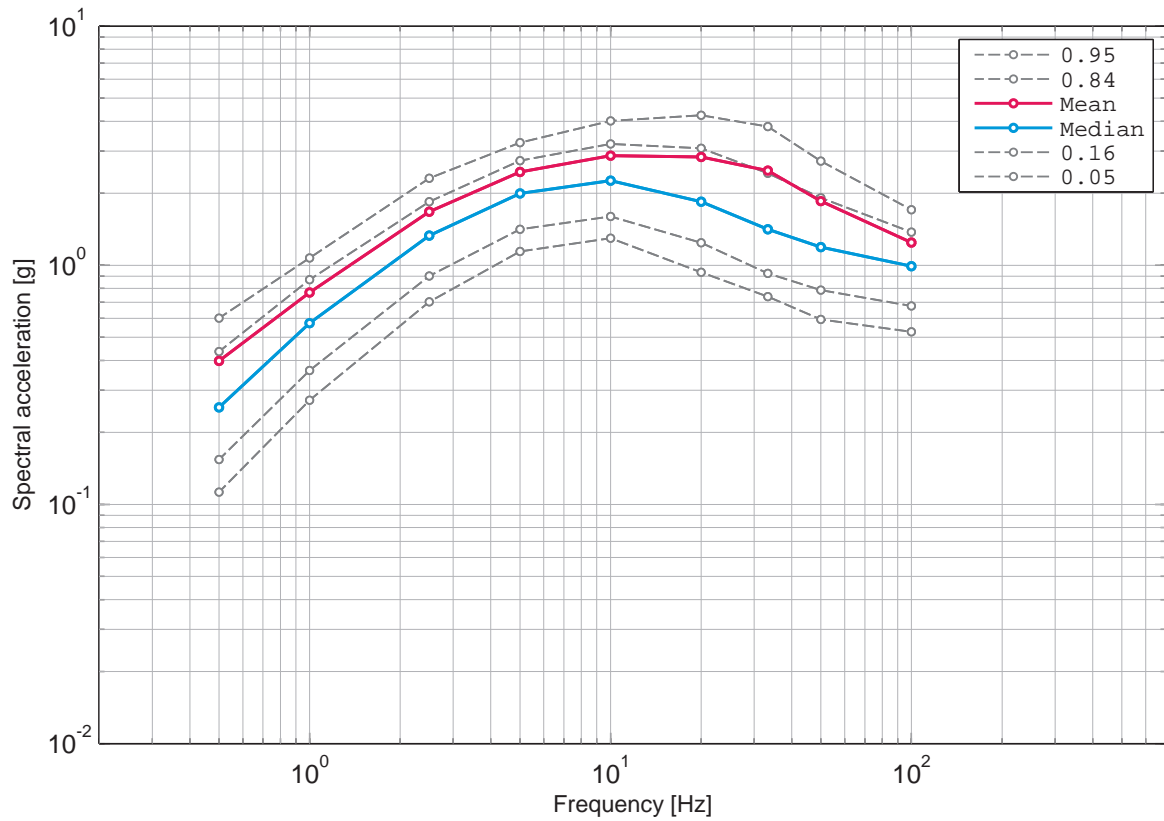


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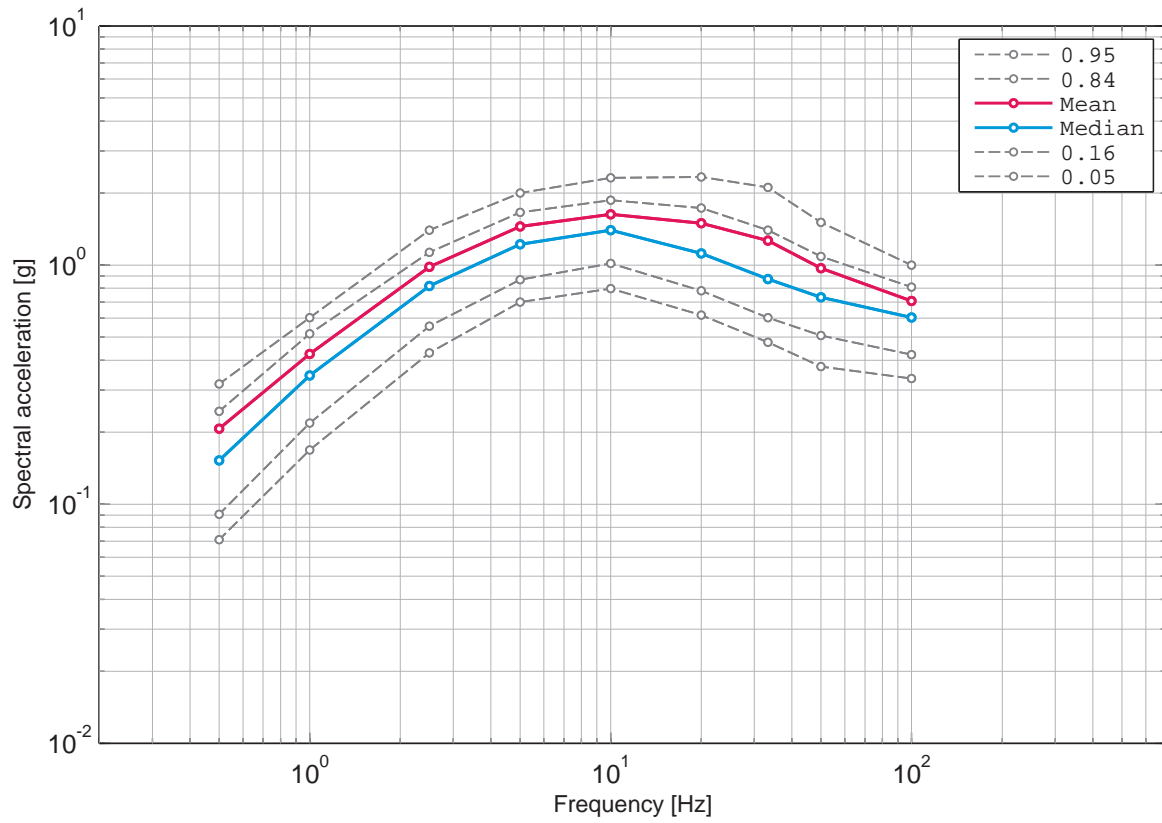


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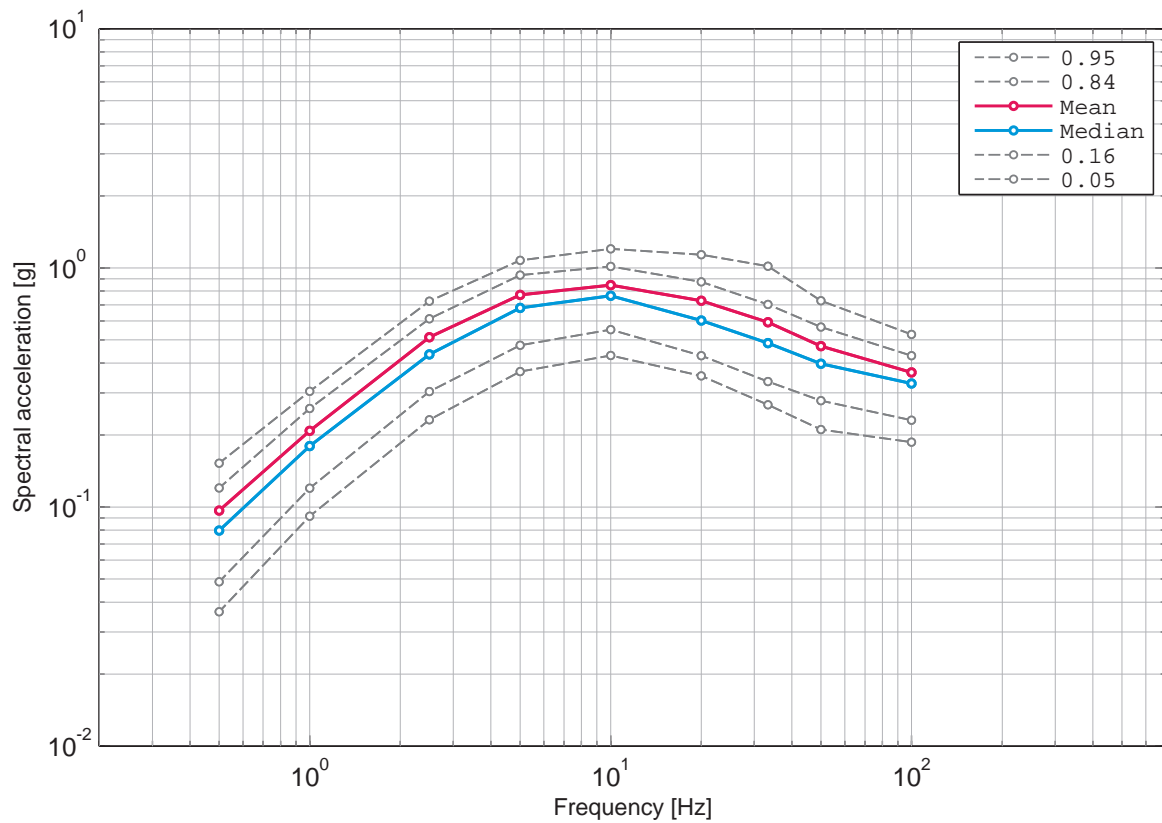


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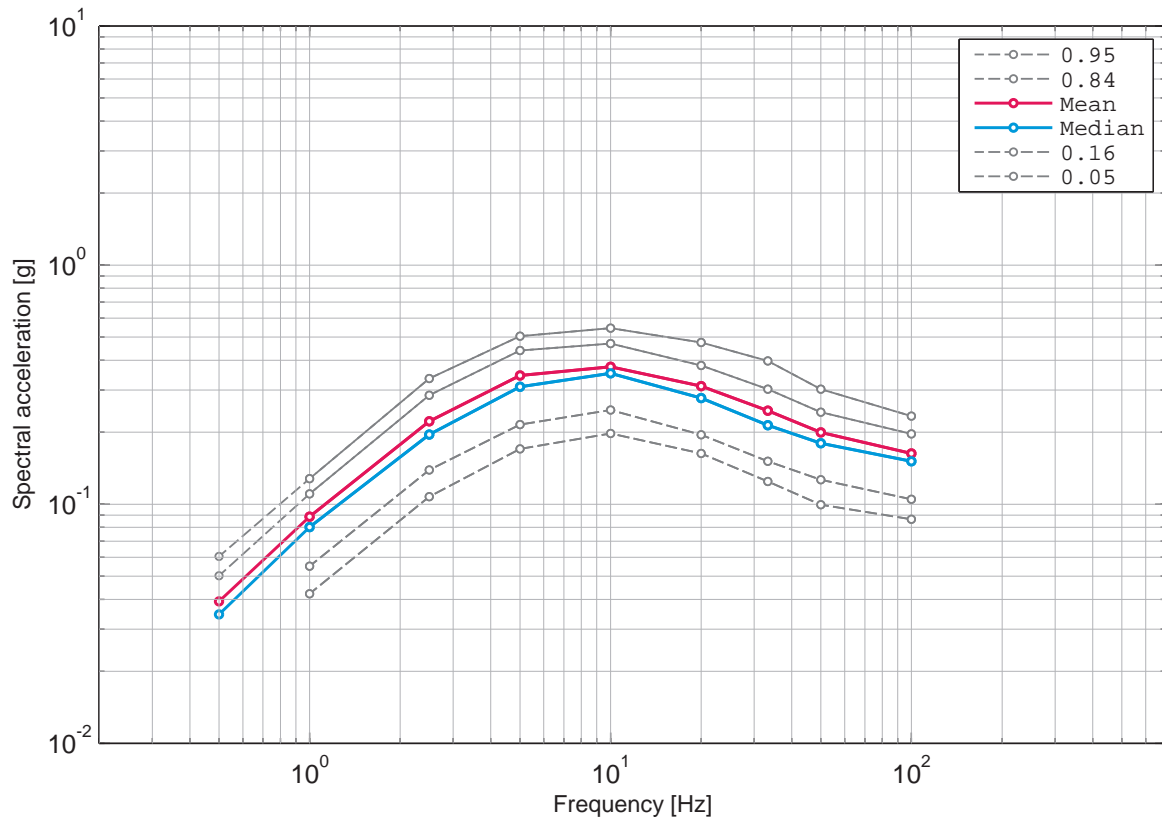


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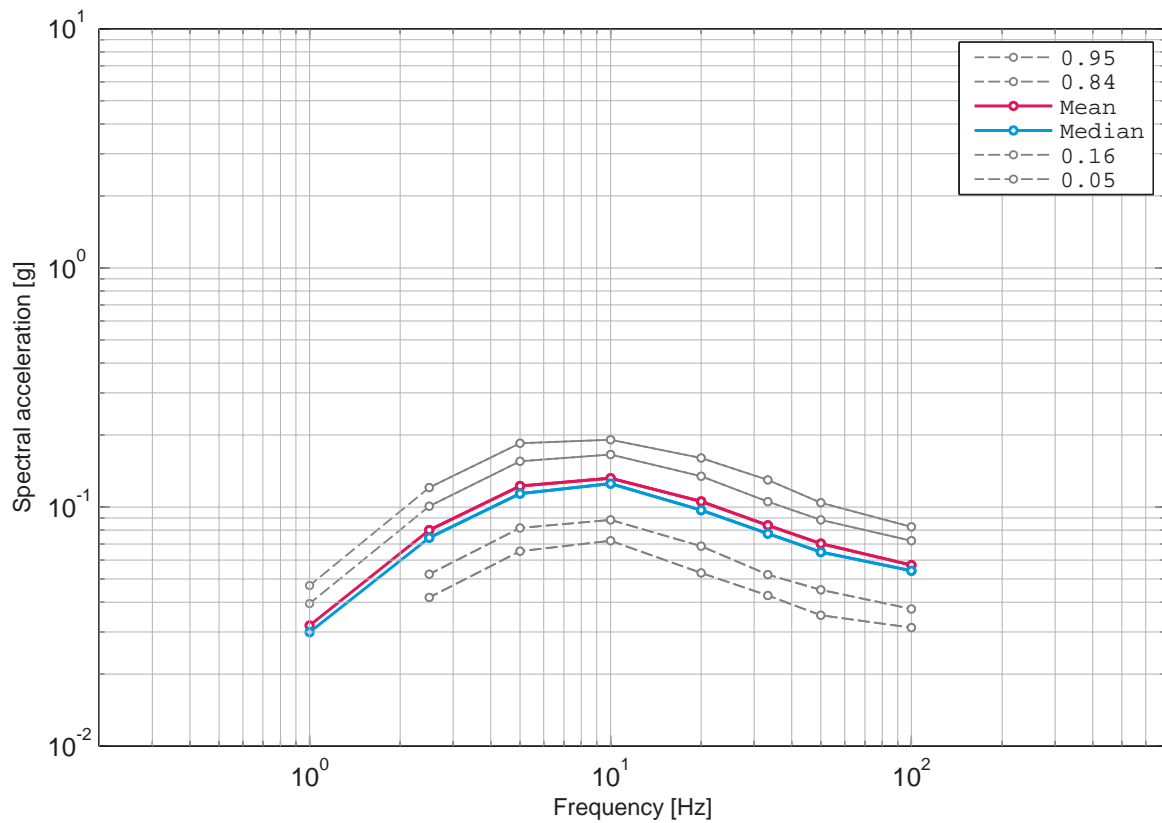


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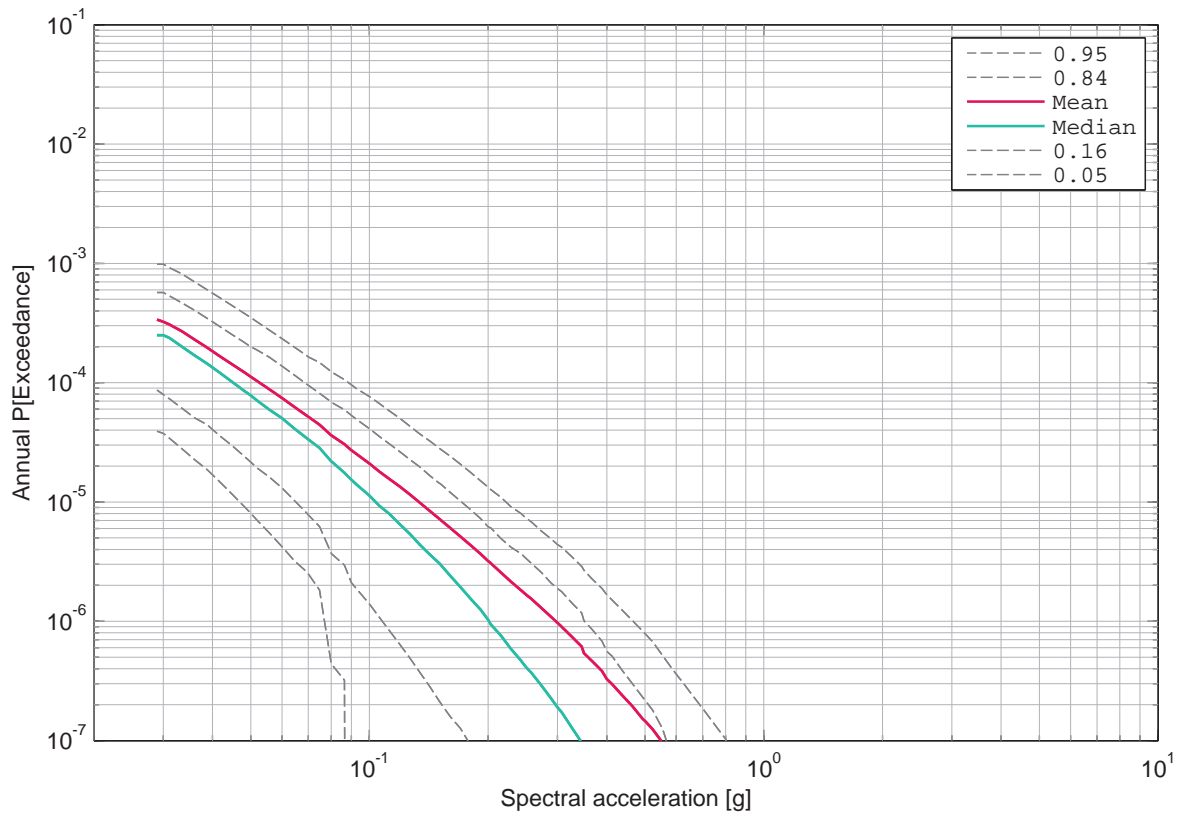


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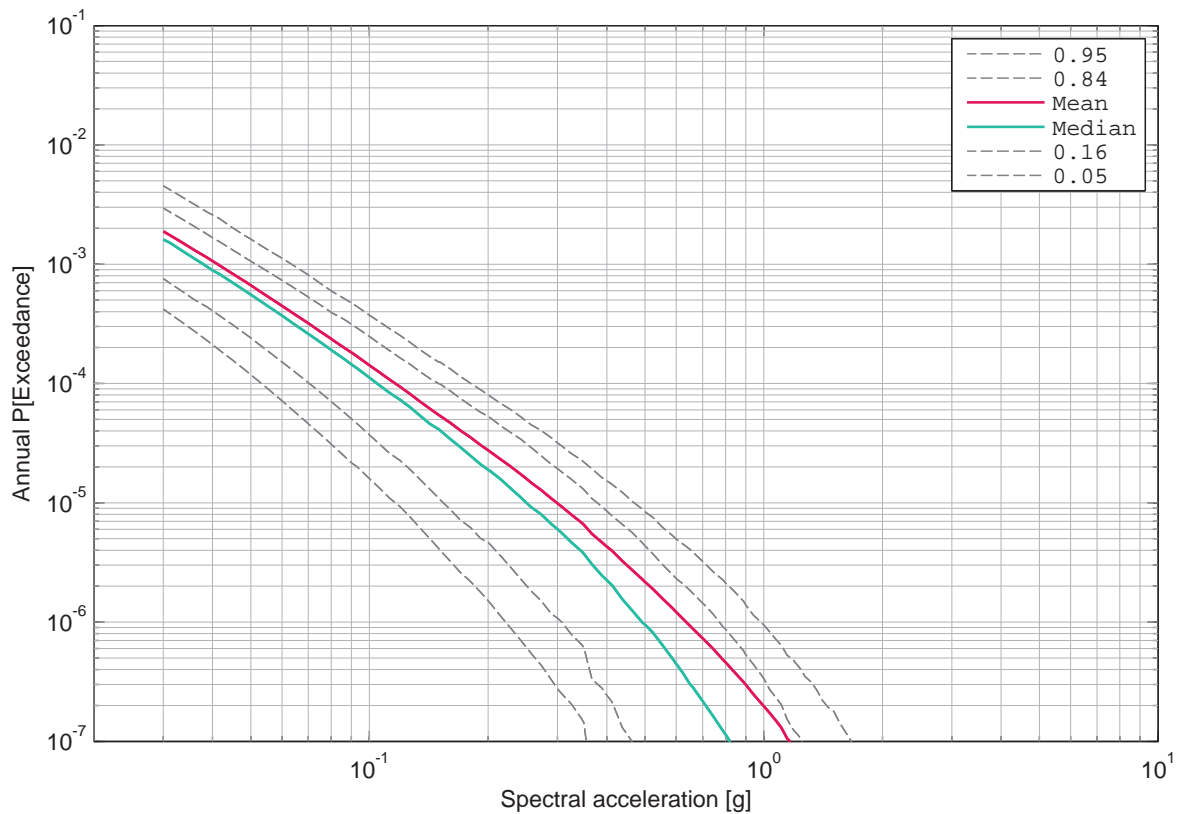


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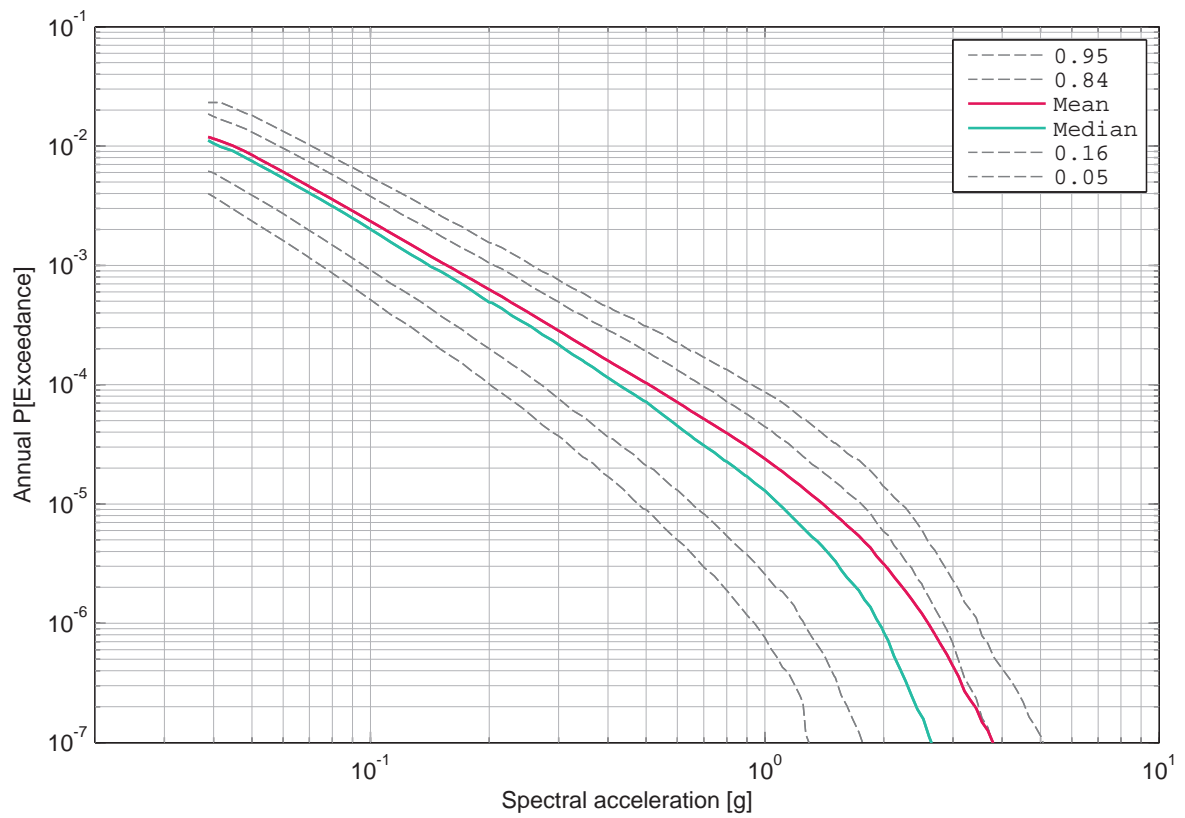


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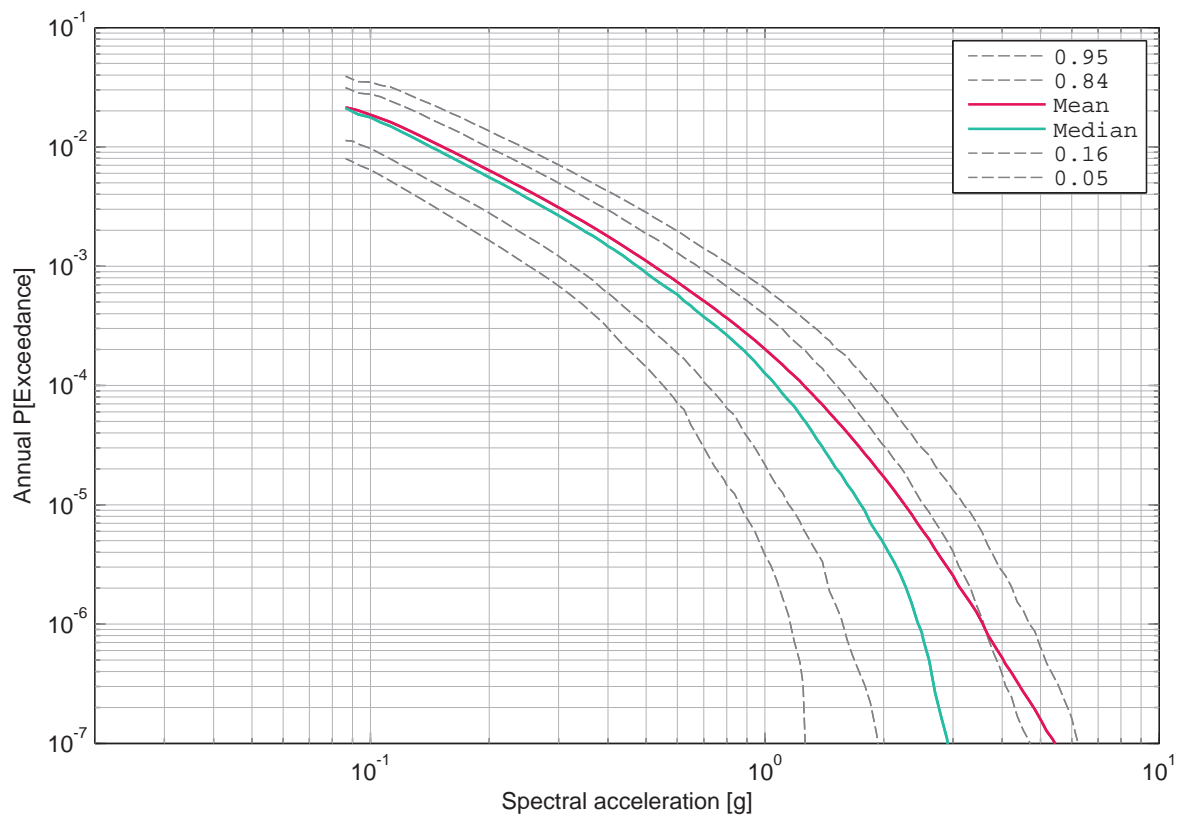


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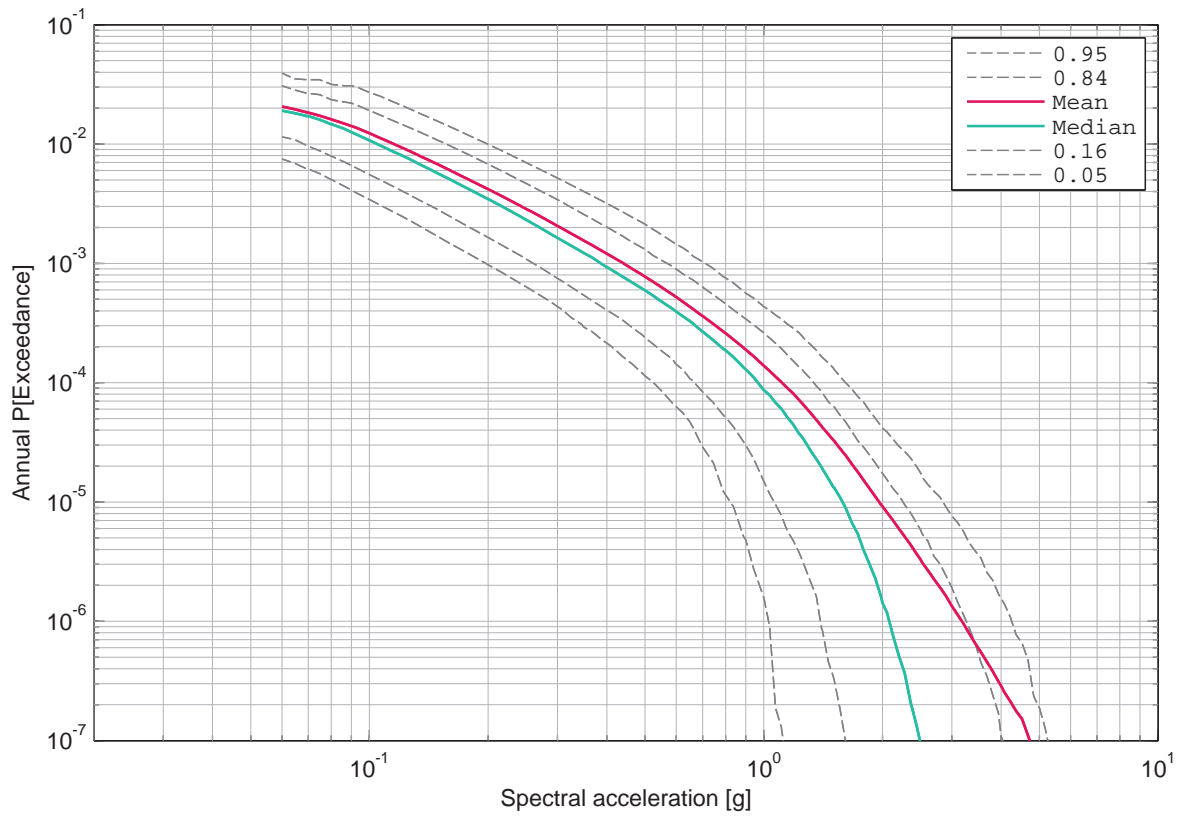


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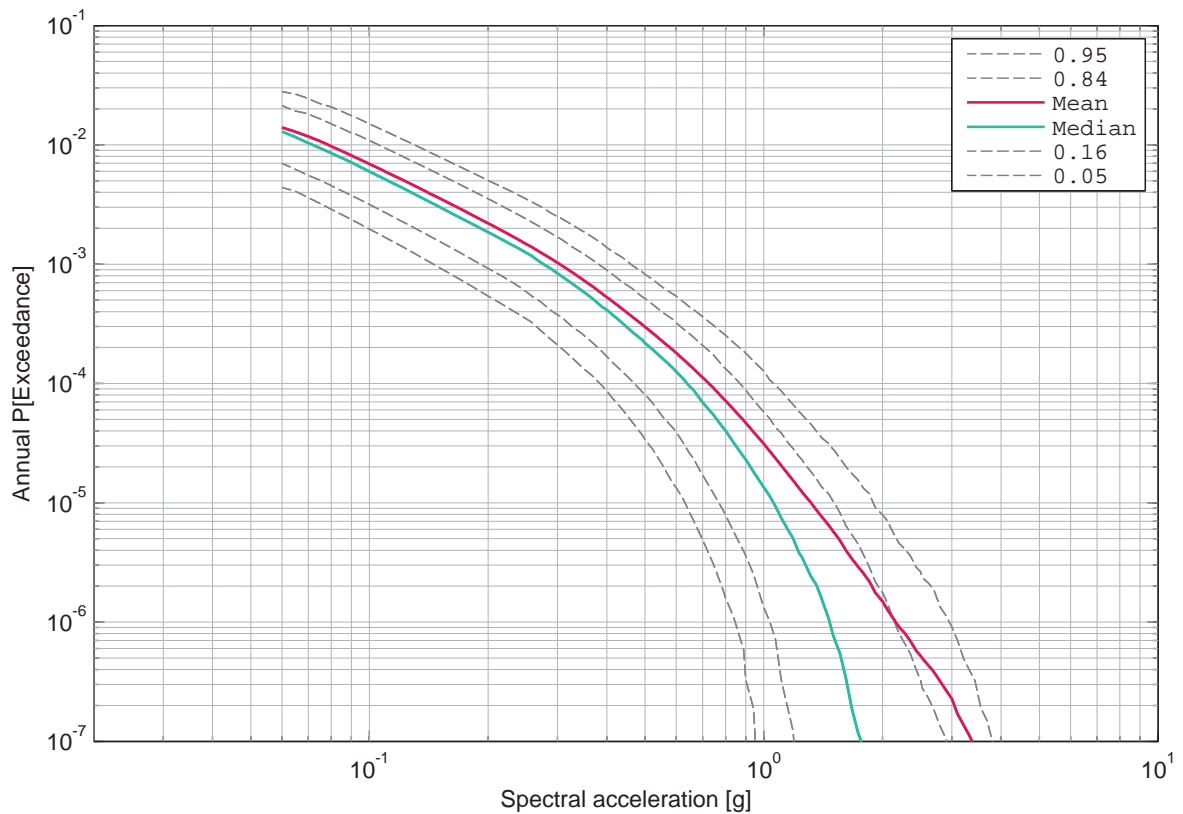


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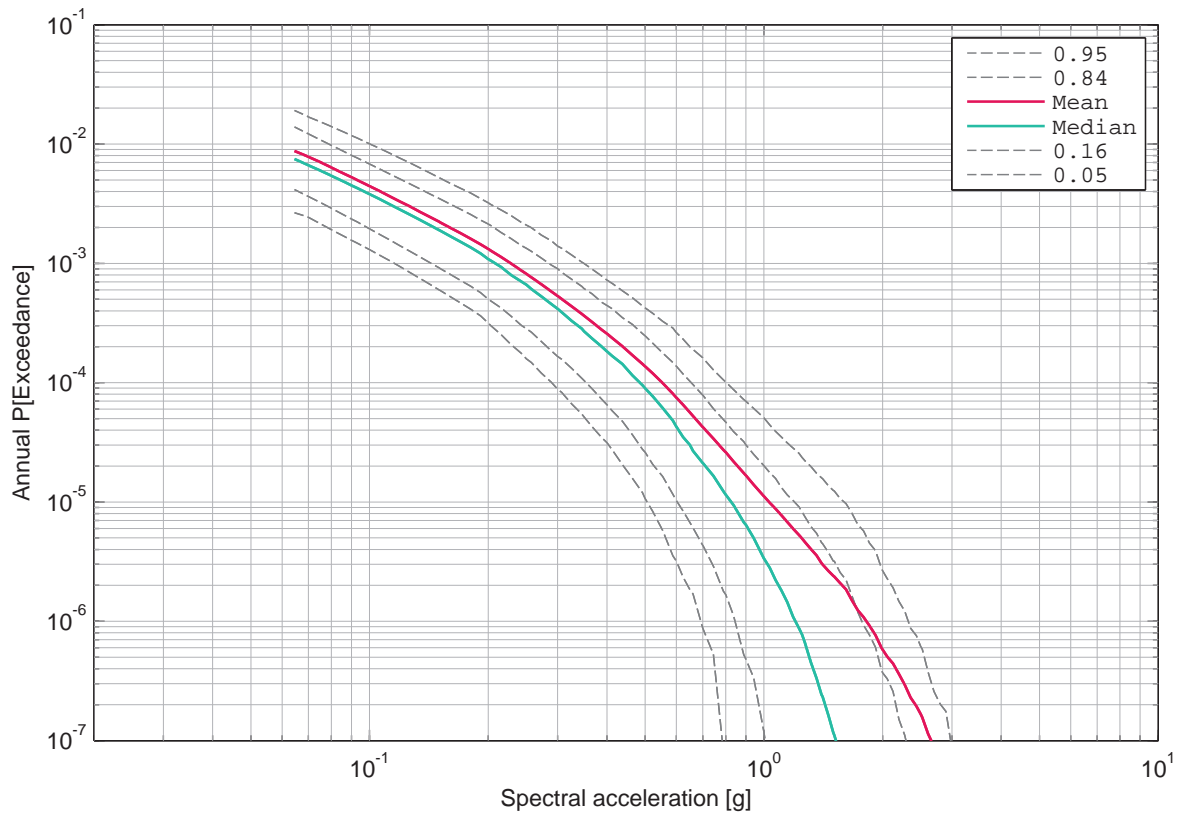


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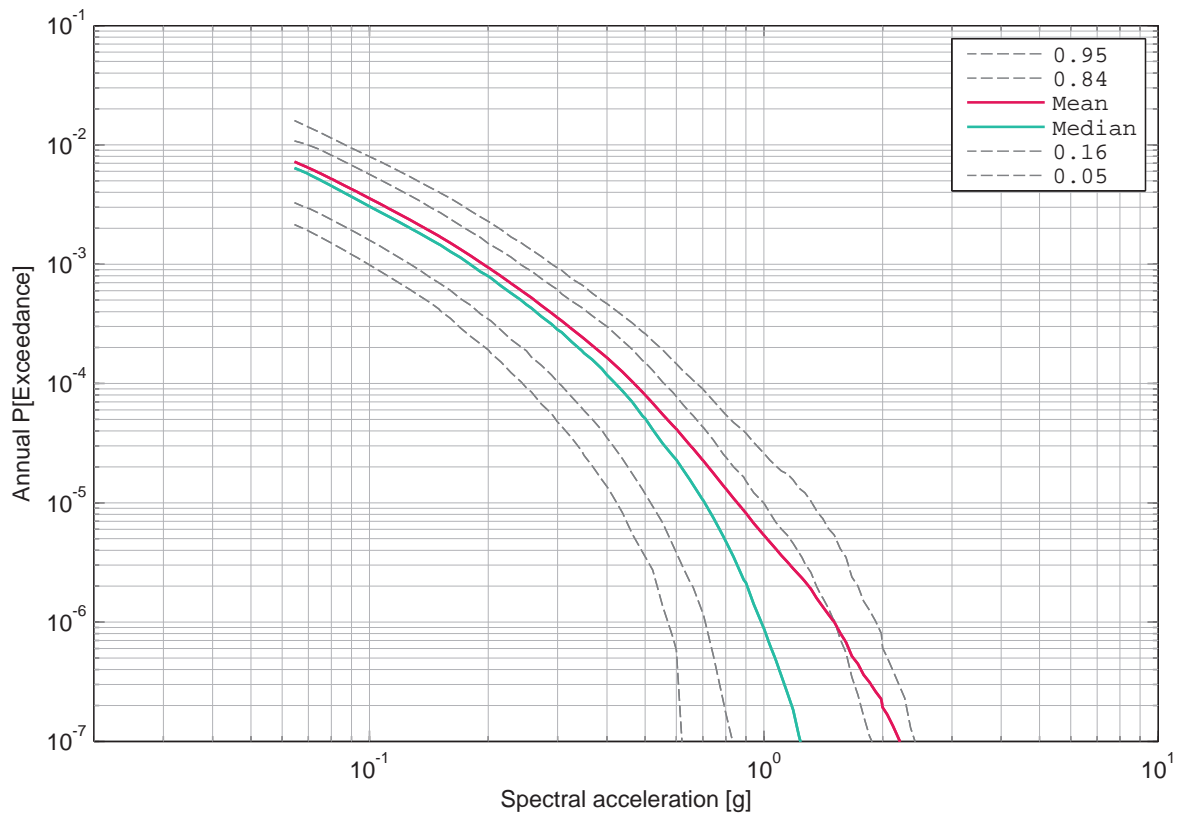


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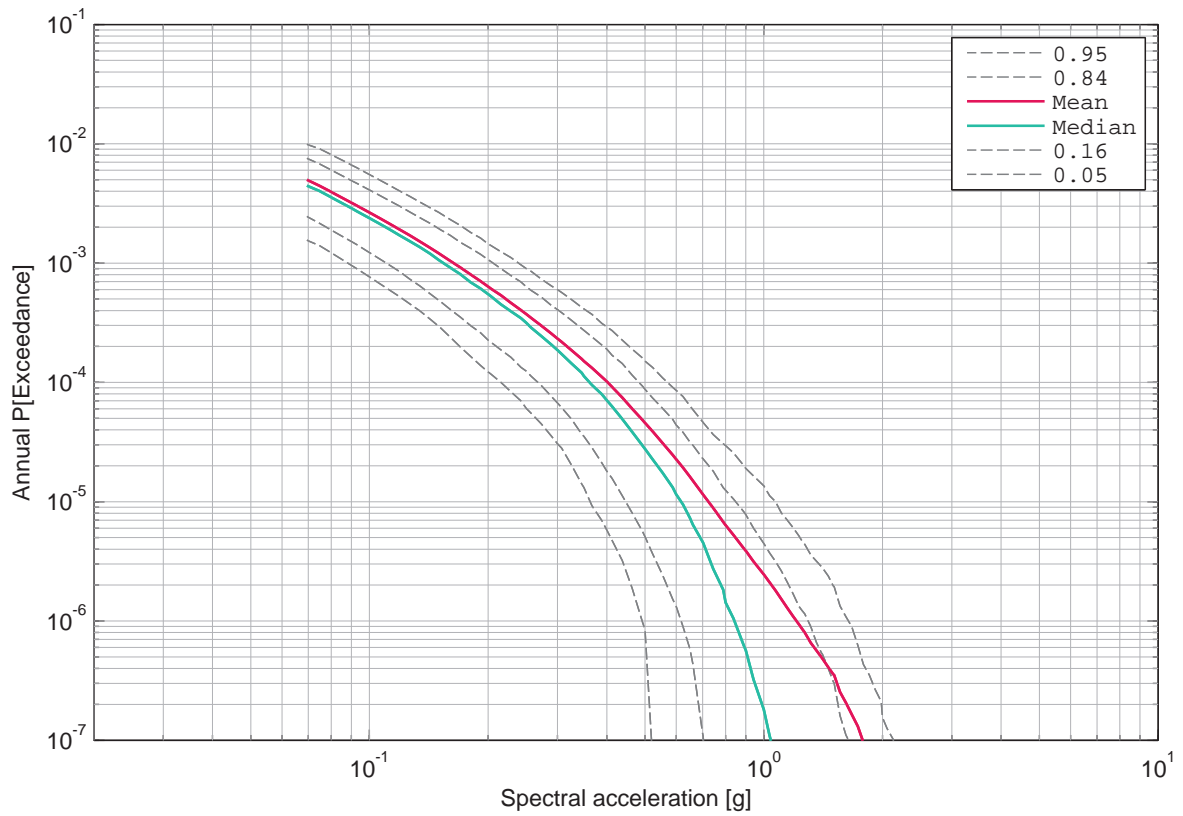


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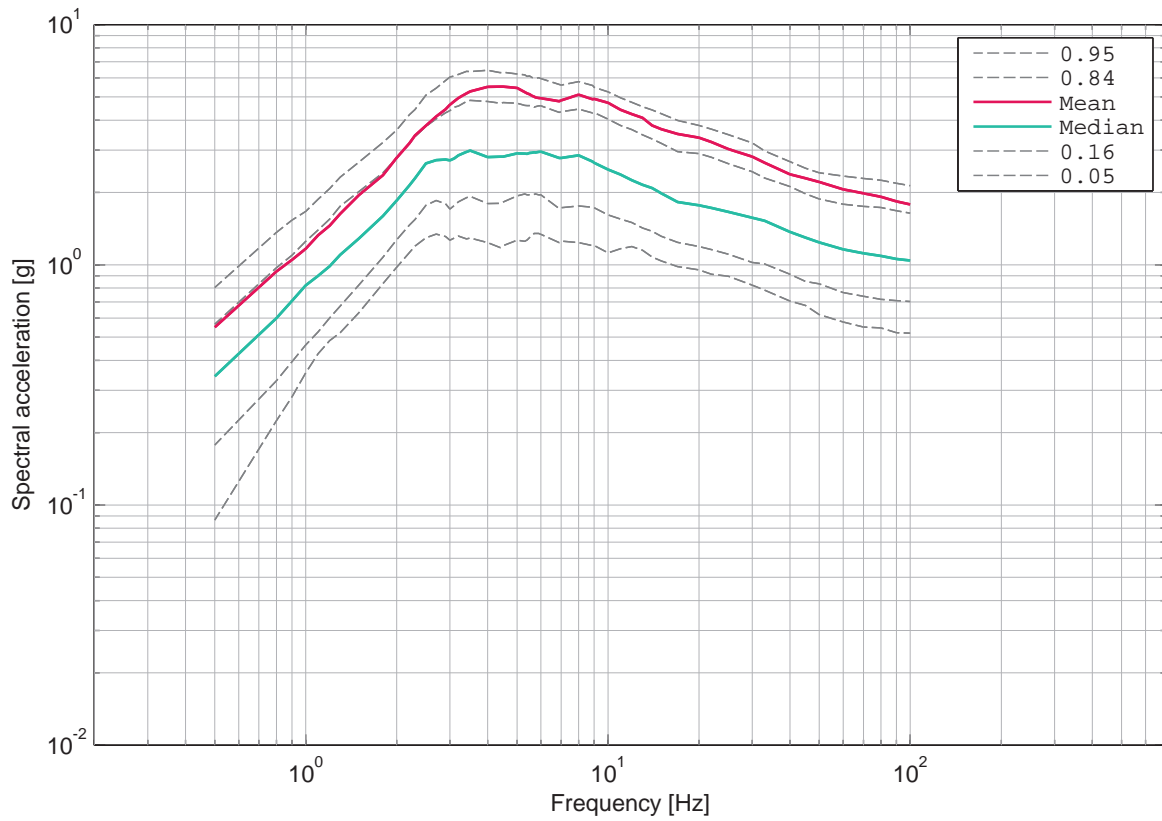


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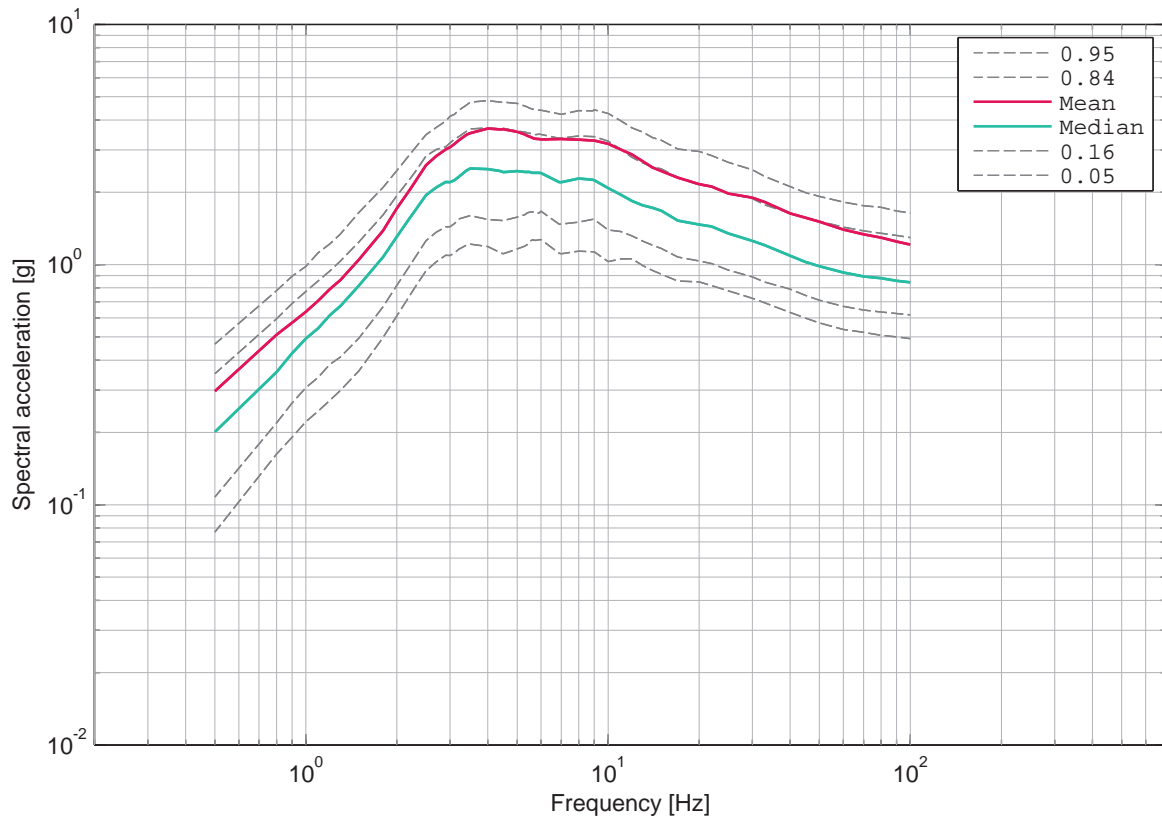


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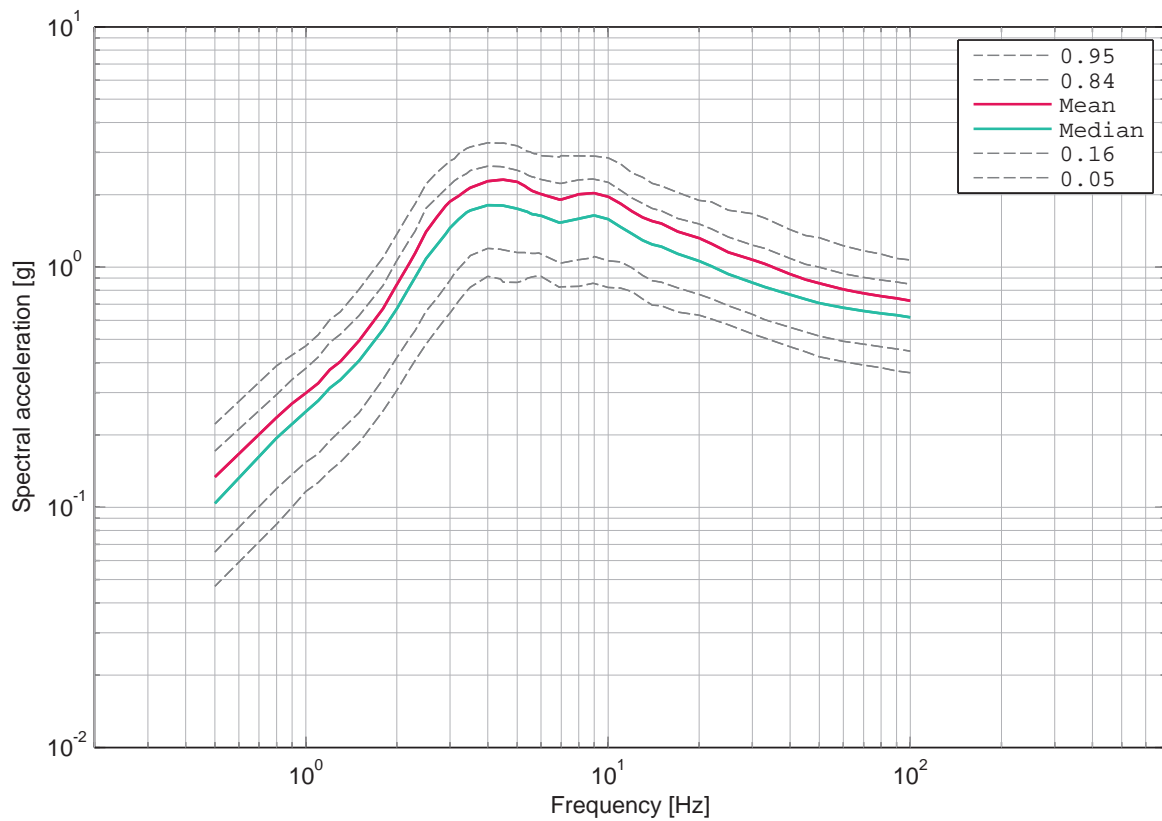


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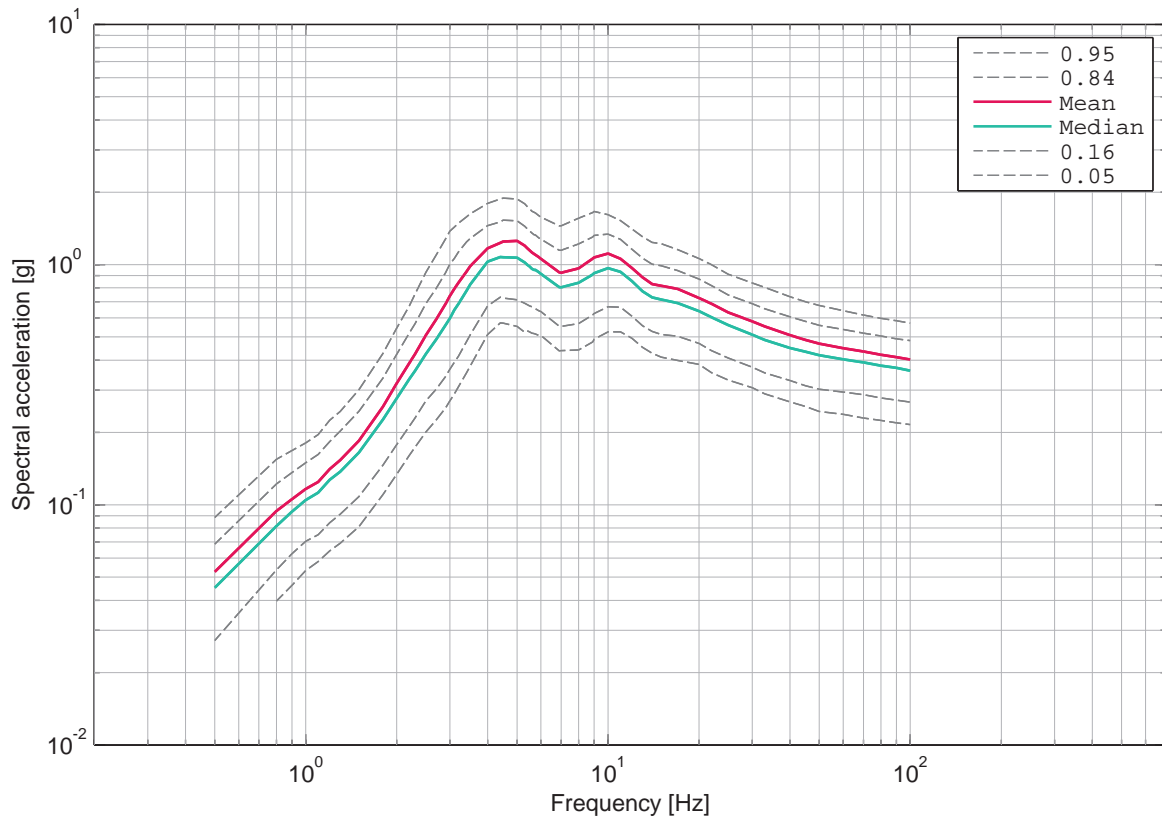


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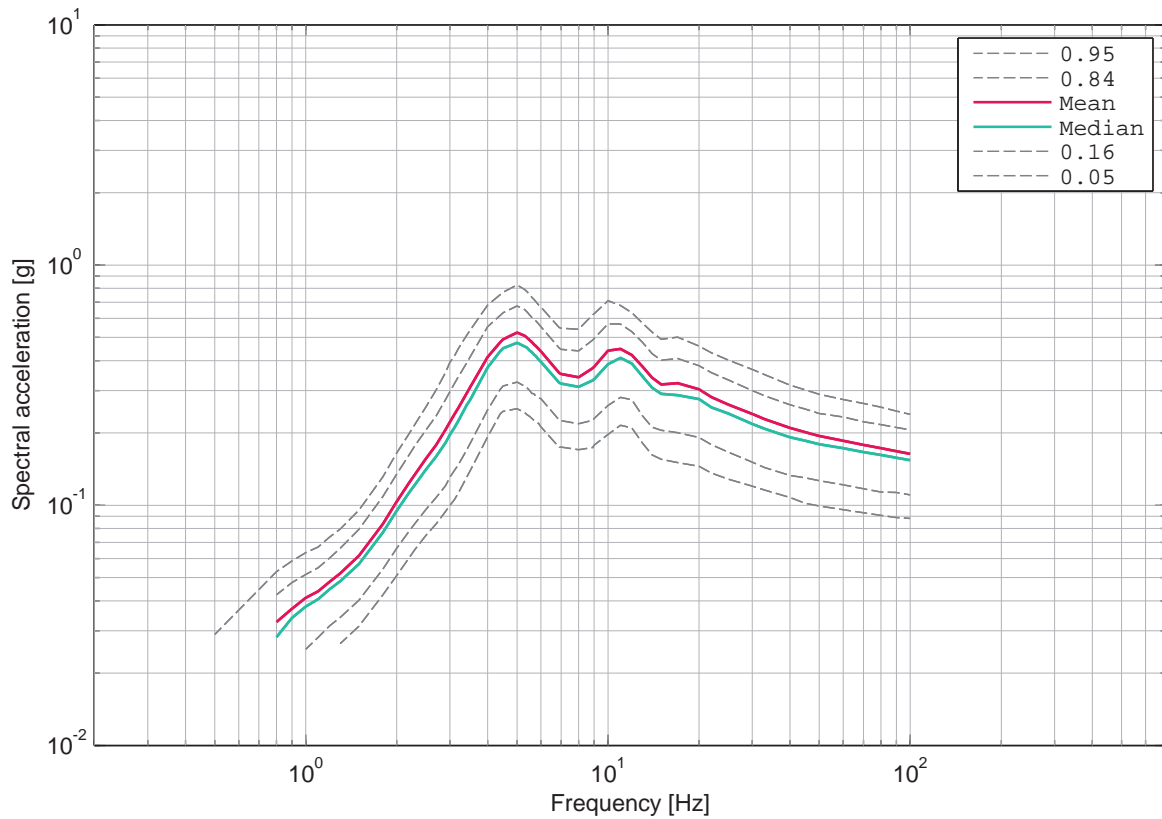


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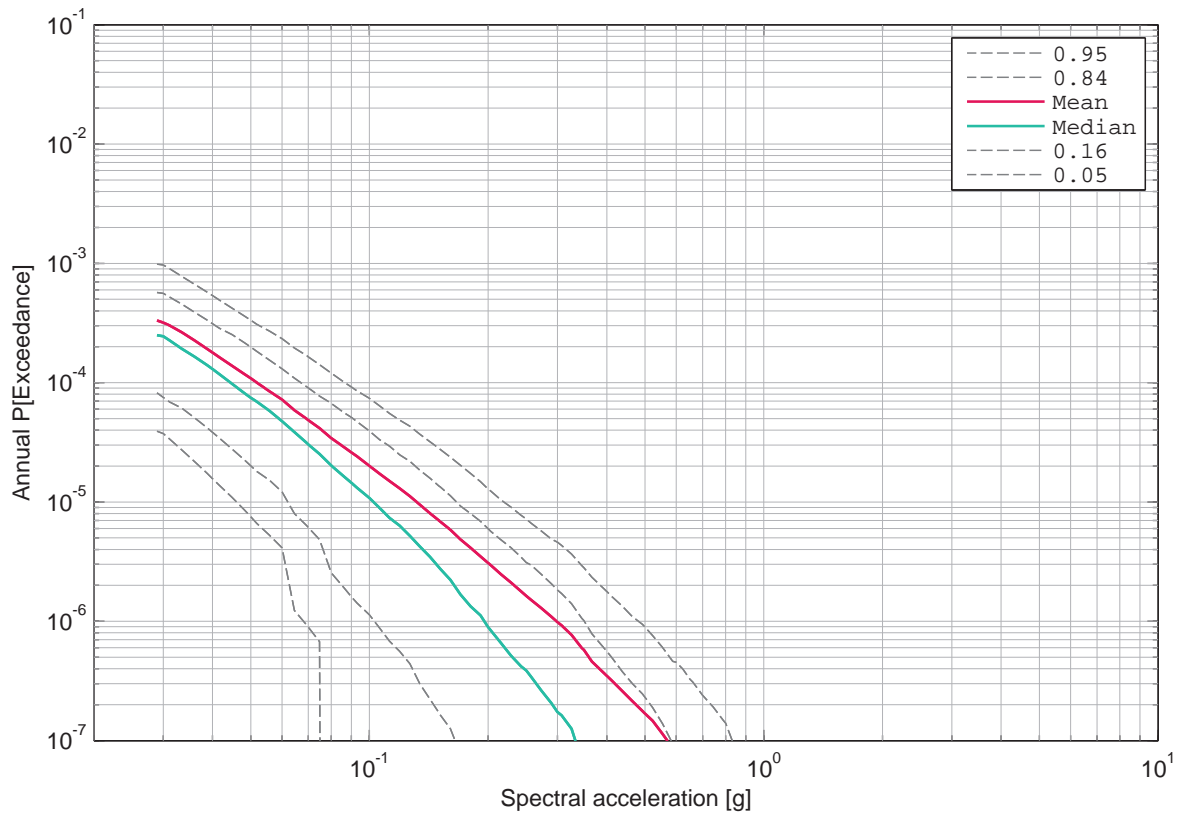


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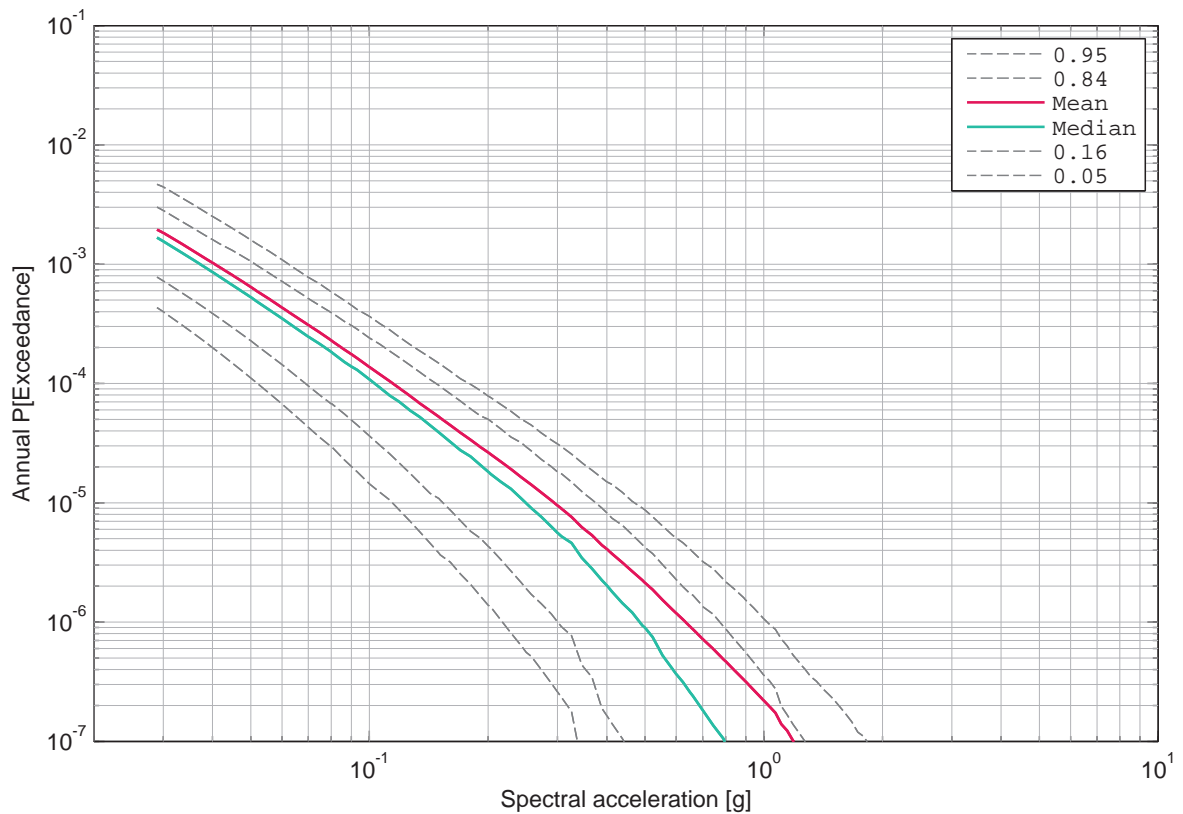


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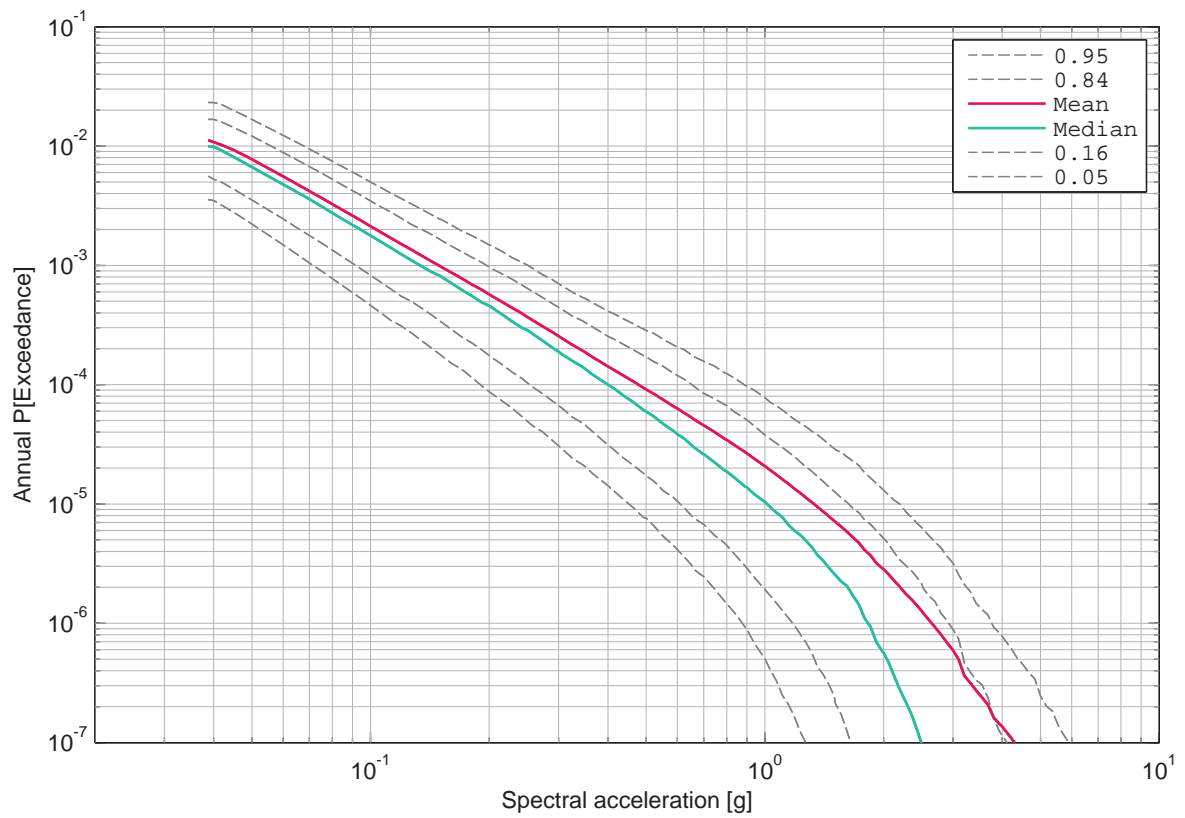


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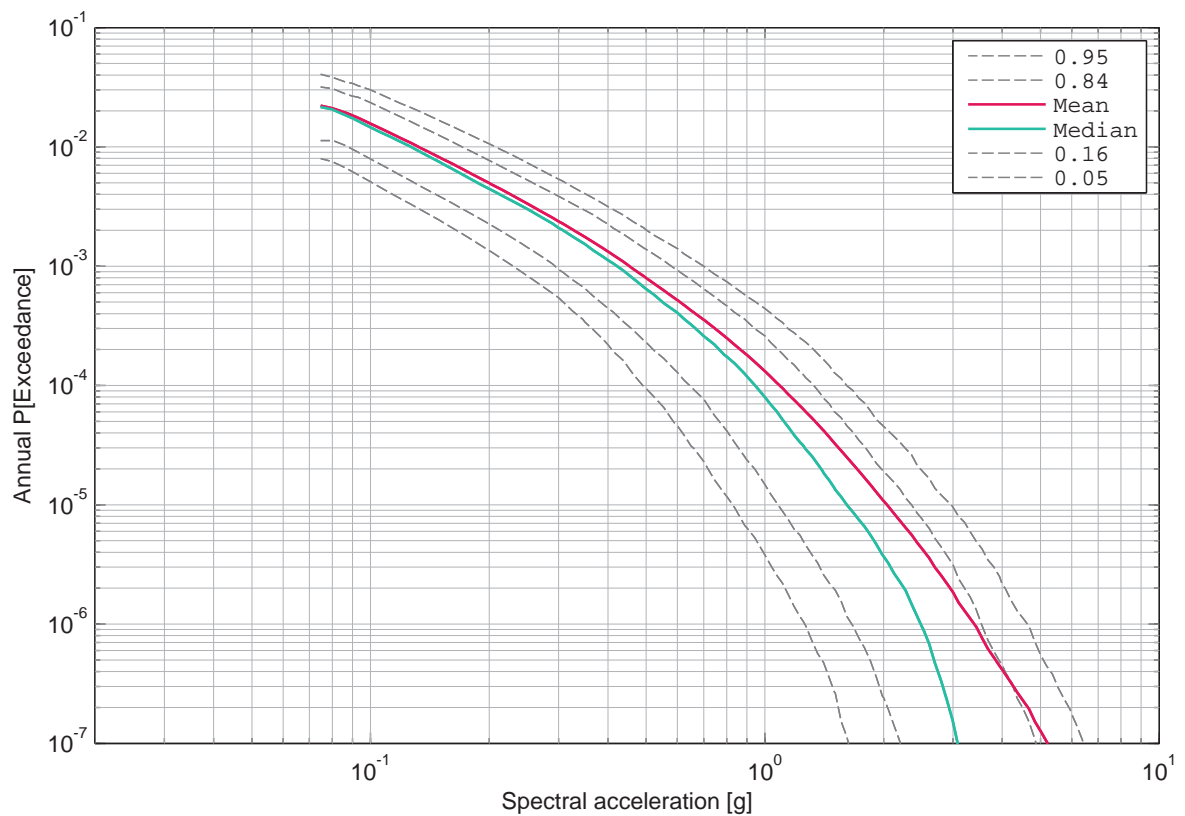


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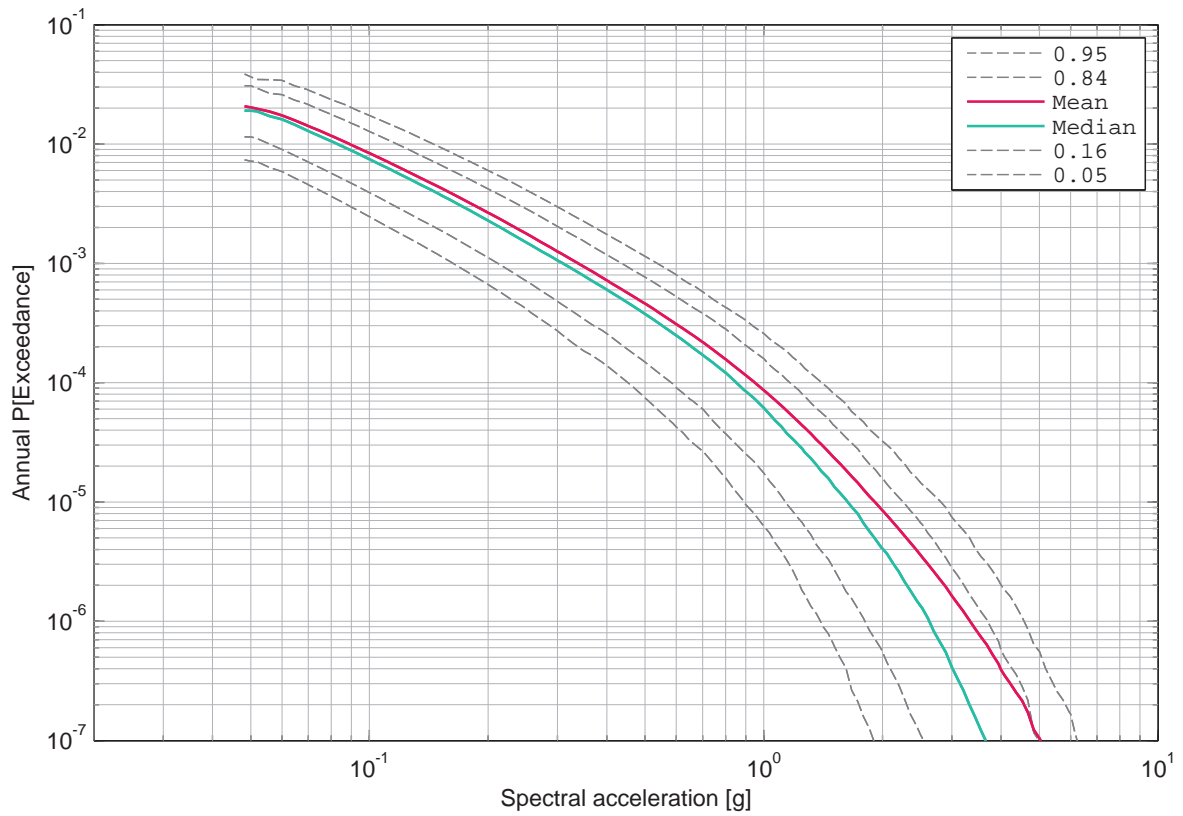


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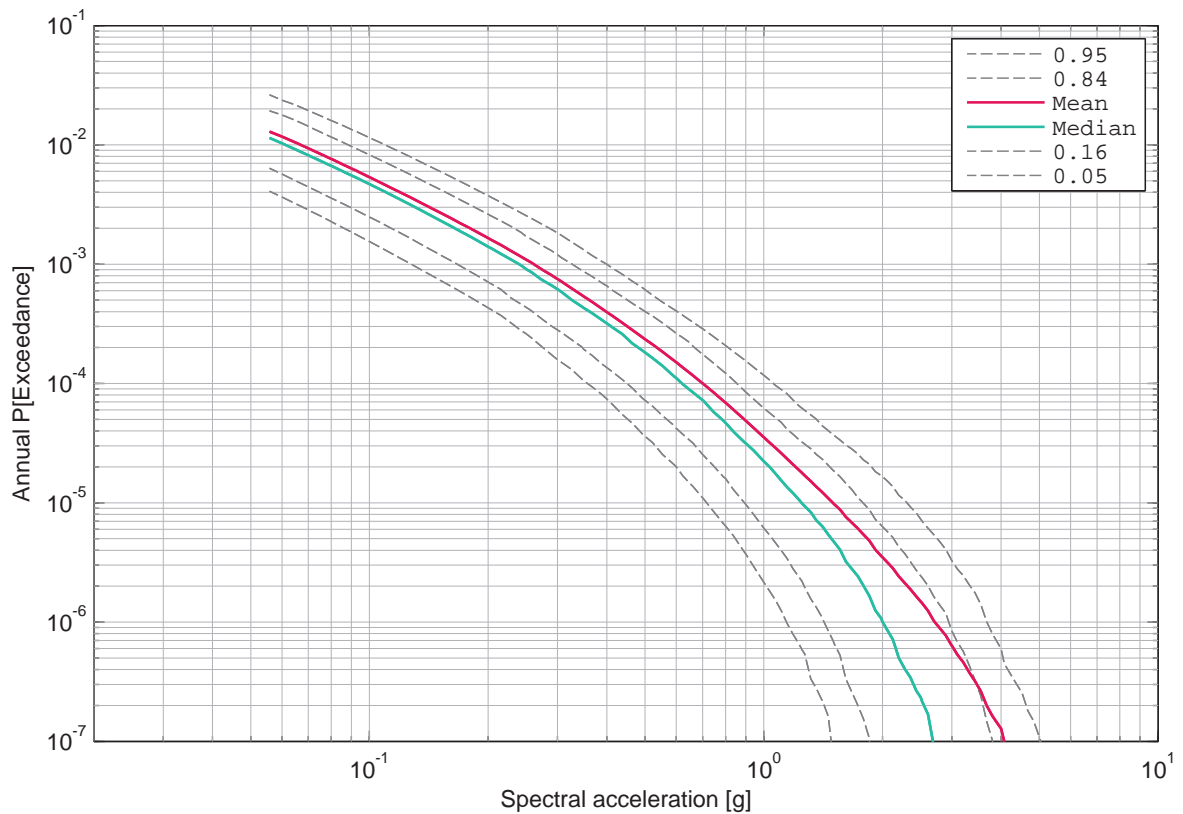


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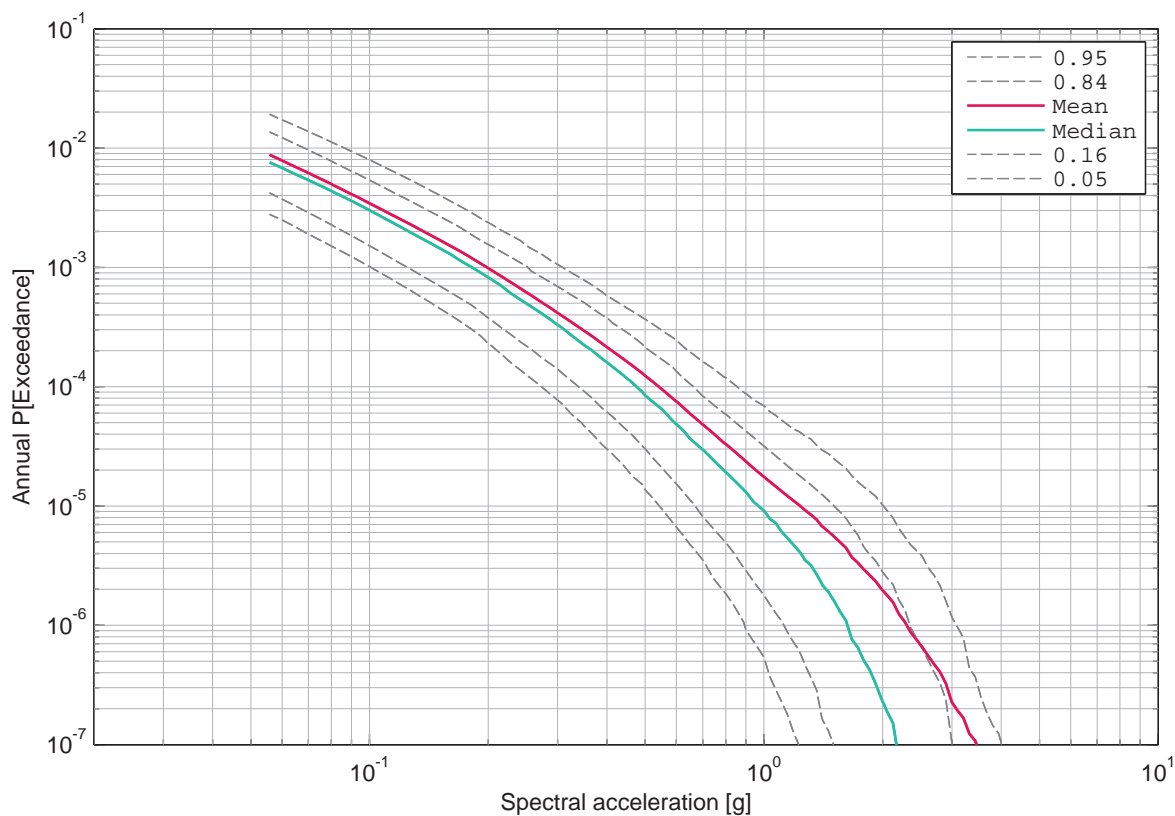


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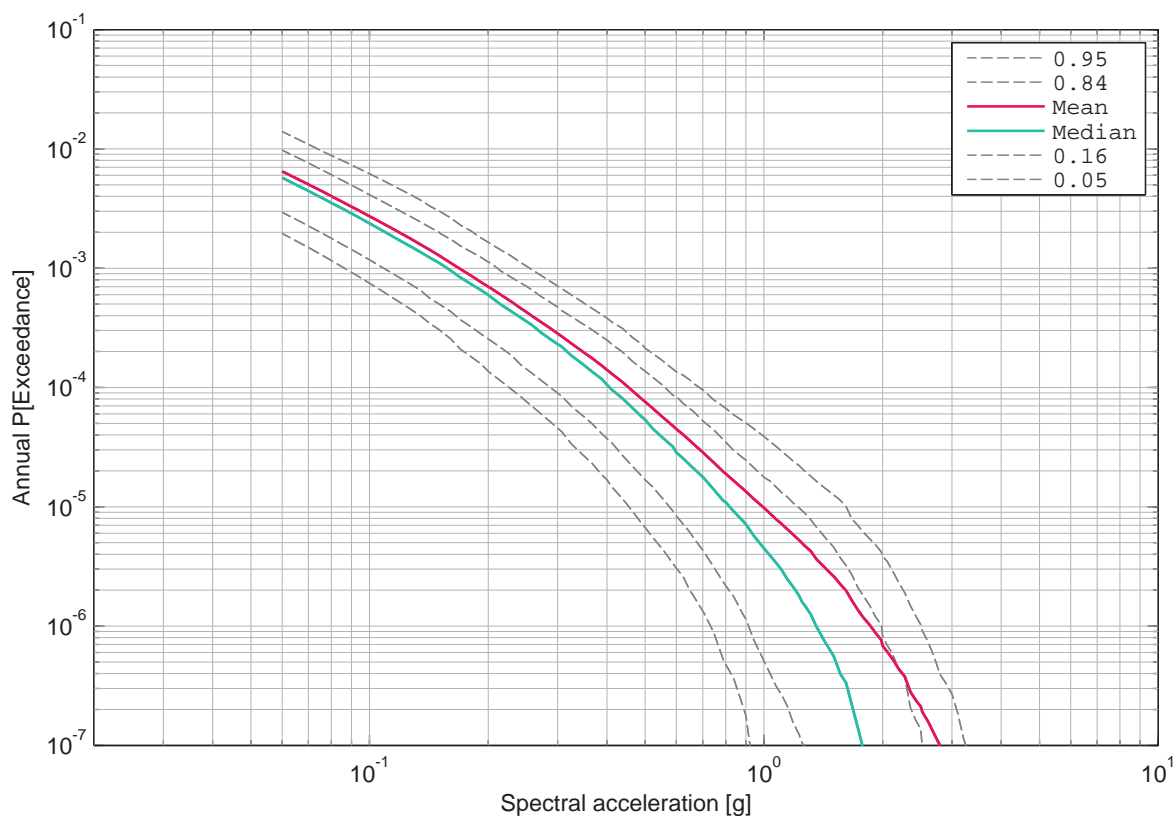


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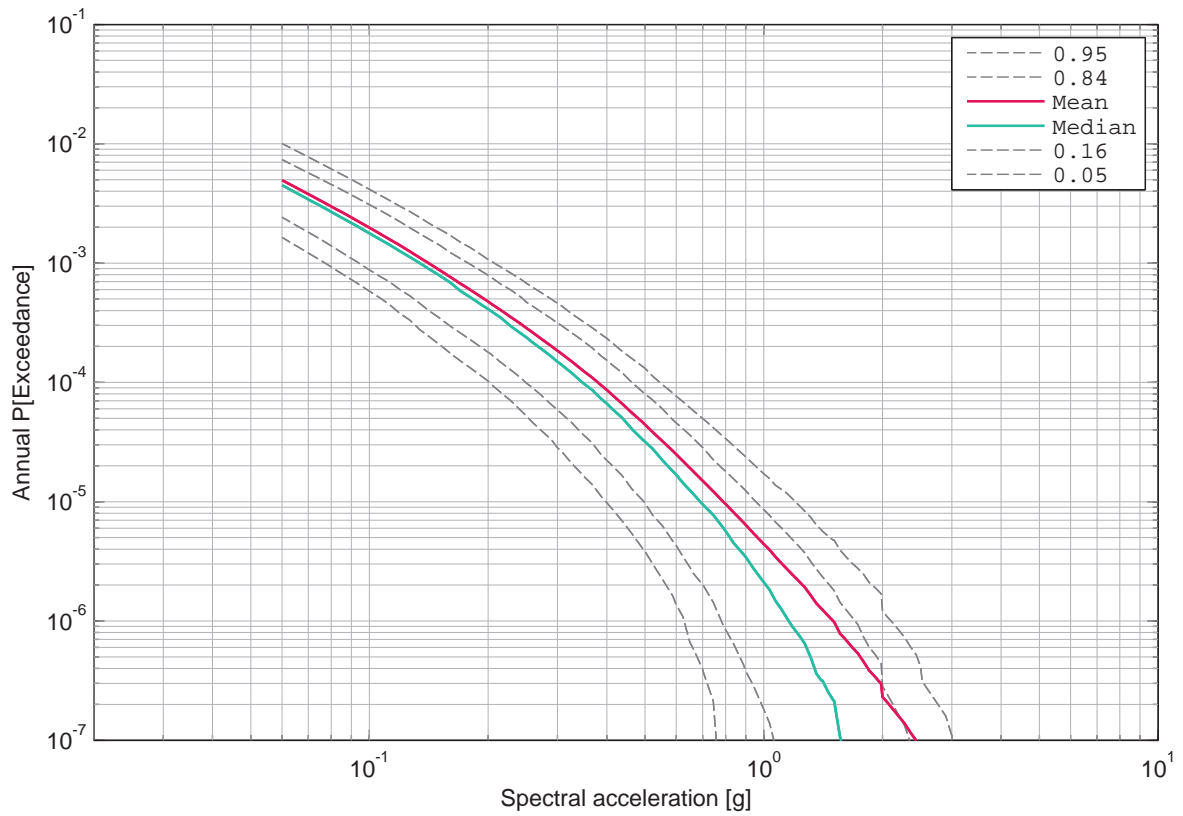


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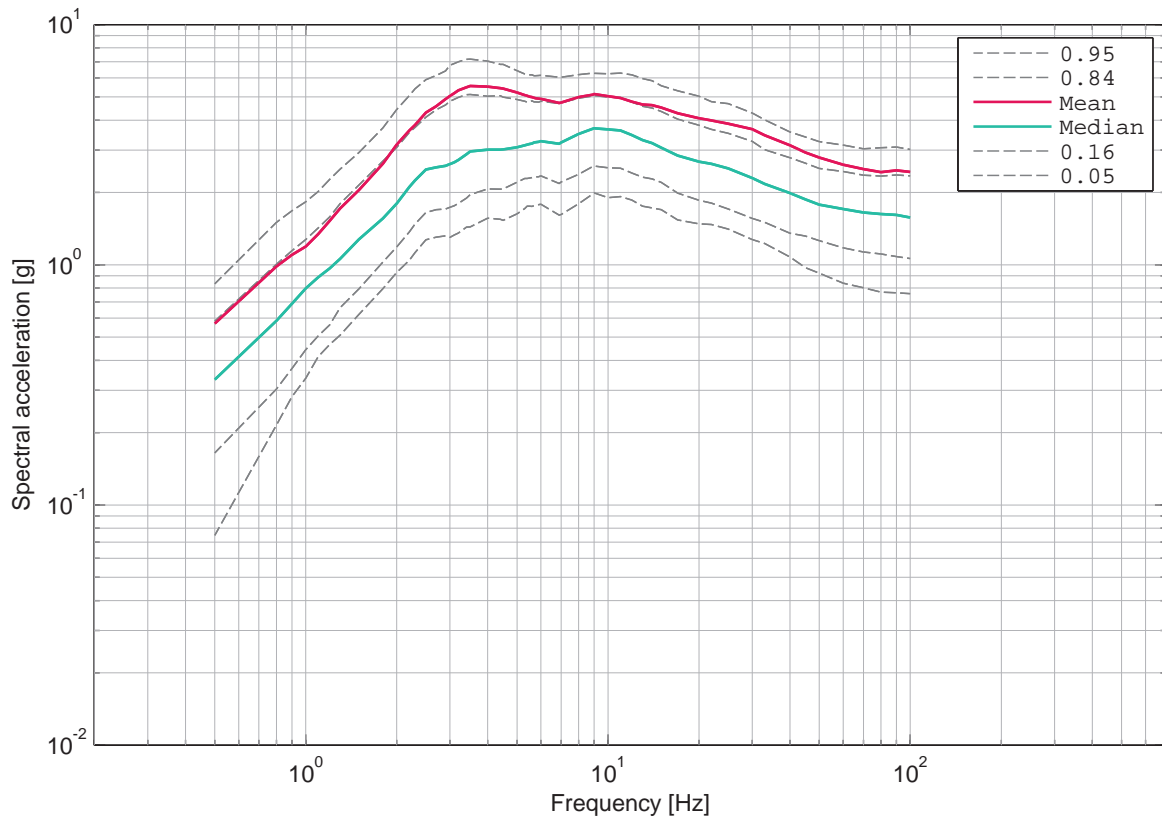


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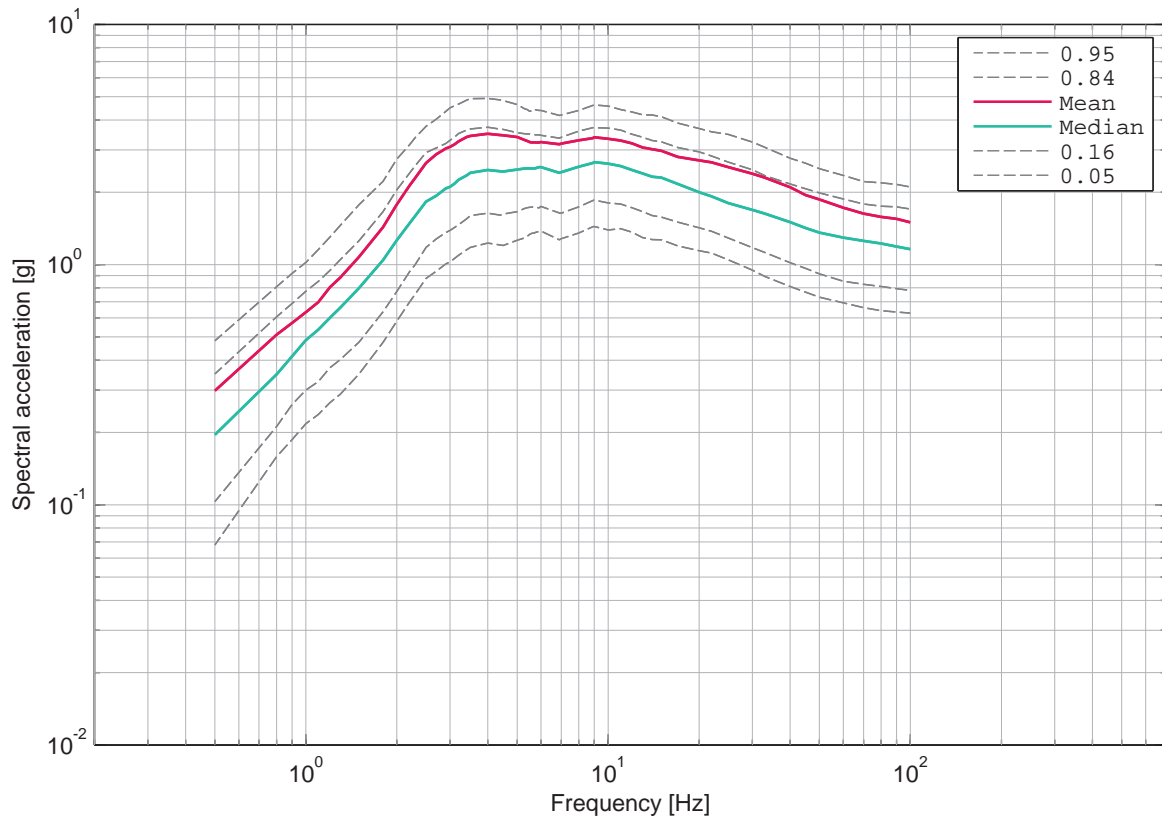


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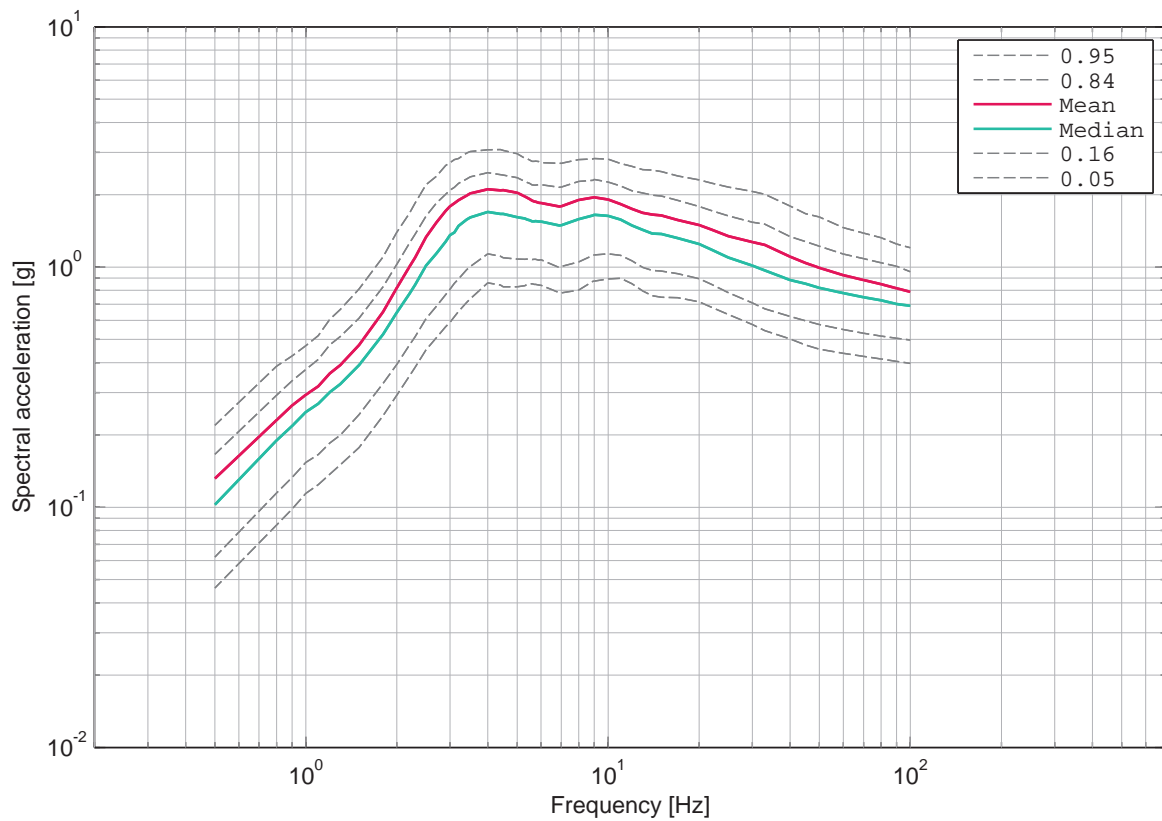


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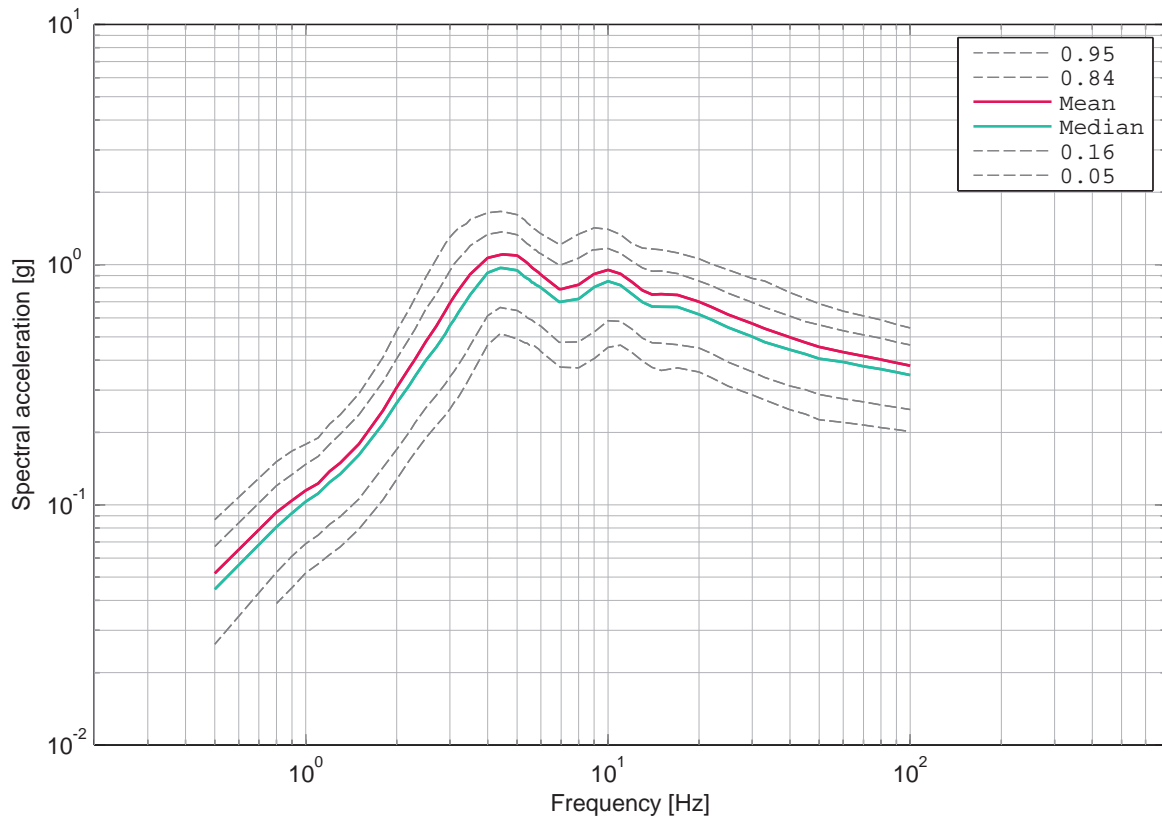


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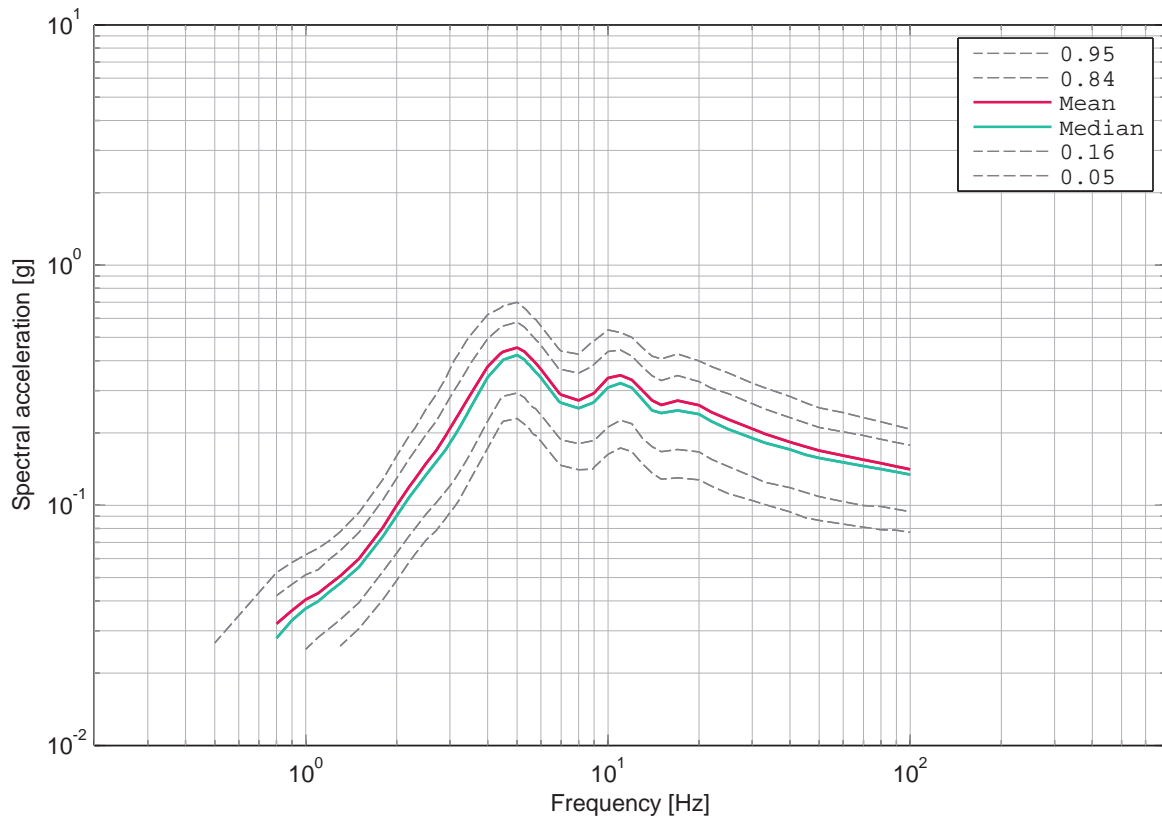


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3.4 Gösgen, Rock Hazard Deaggregation, Horizontal Component

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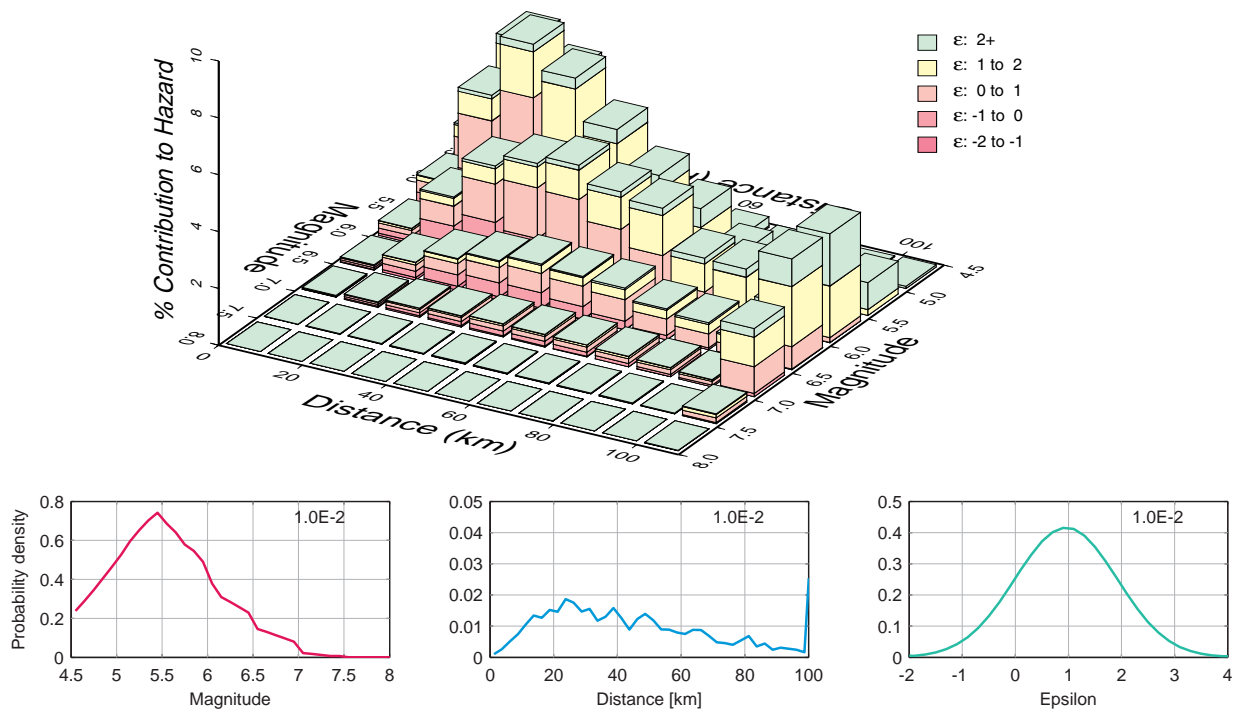


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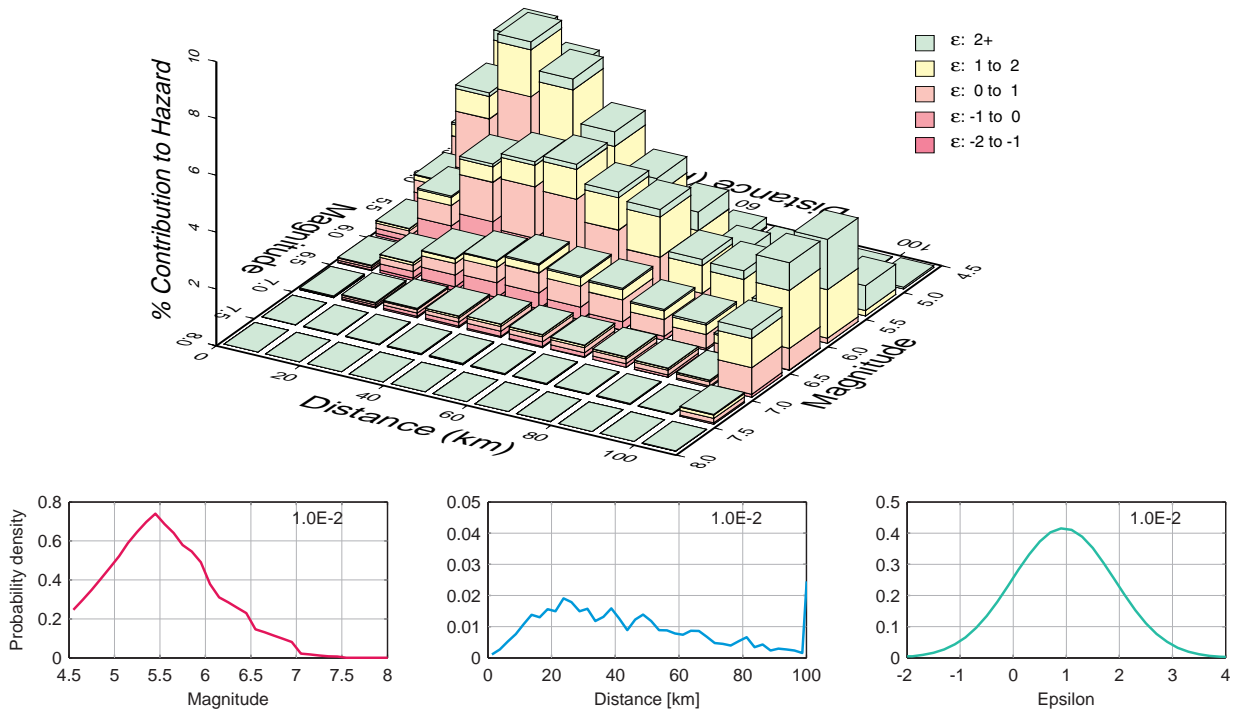


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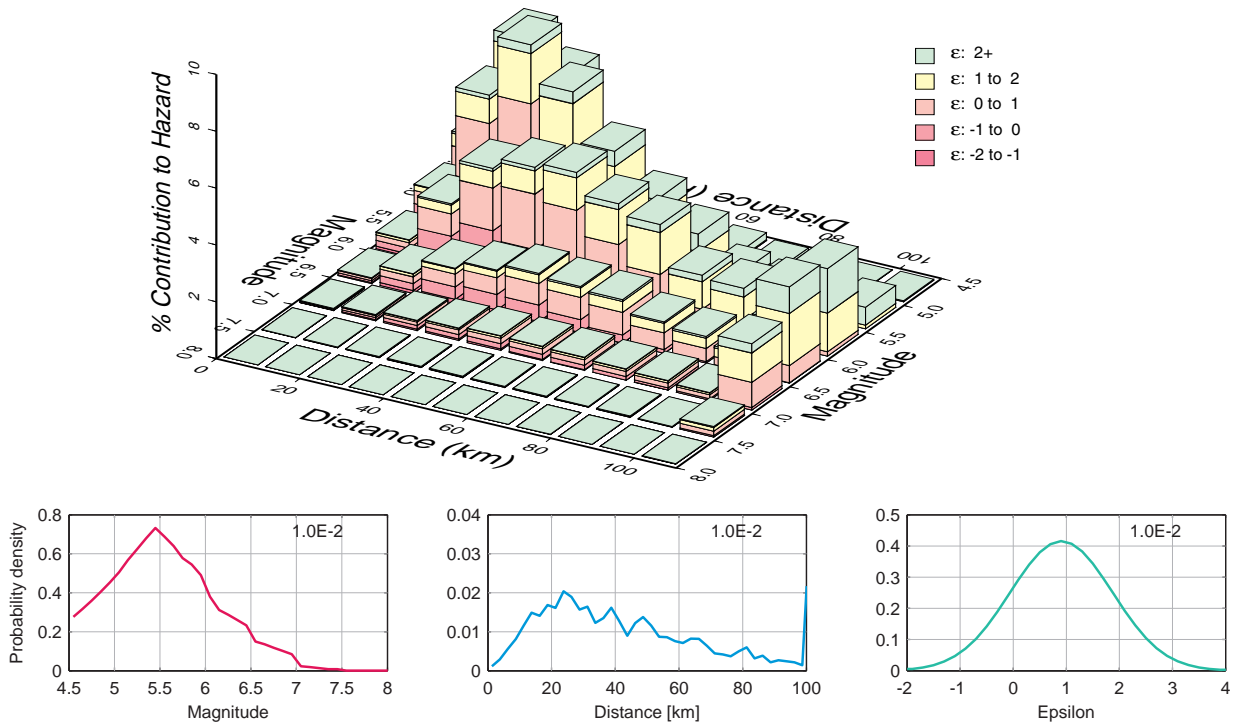


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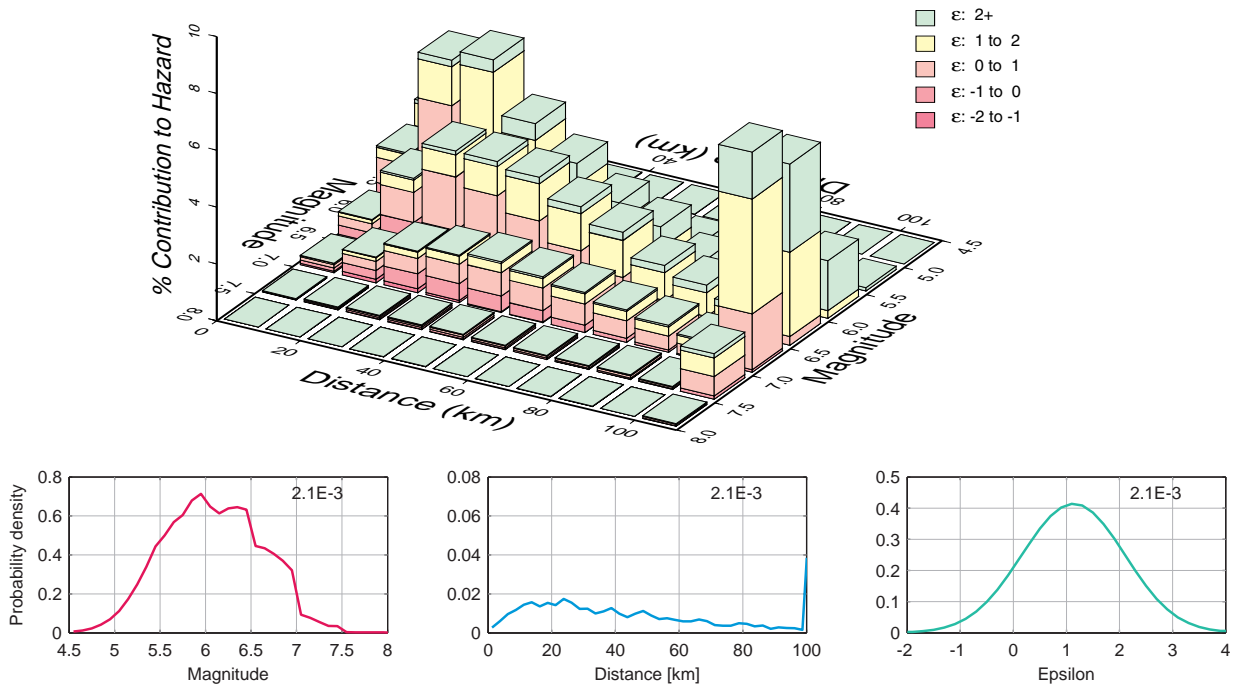


Figure 3.4.4: Gösgen, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 2.1E-03, 1 Hz.

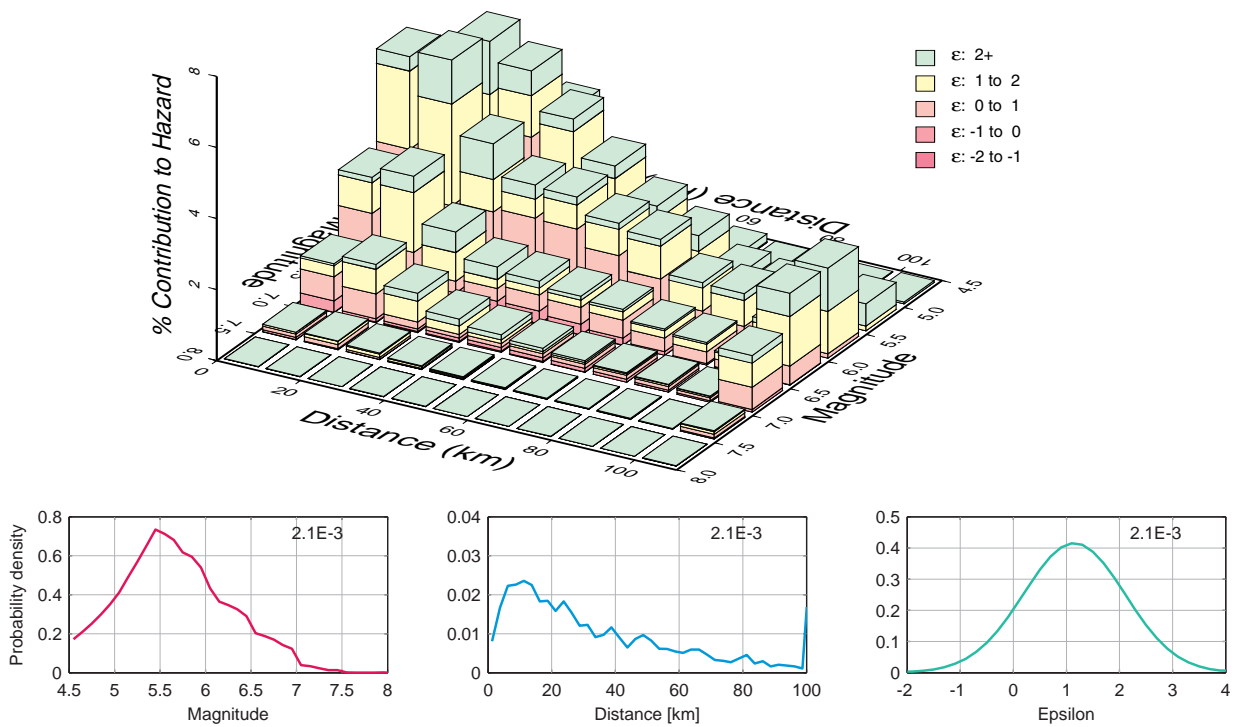


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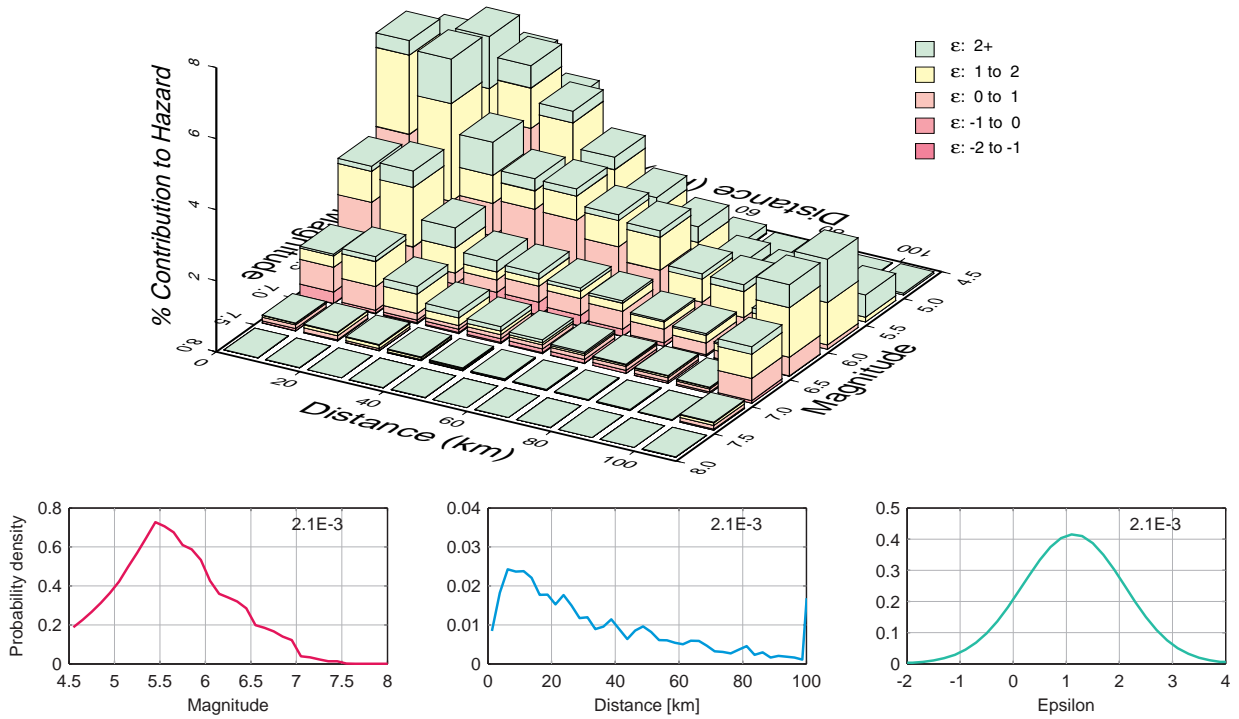


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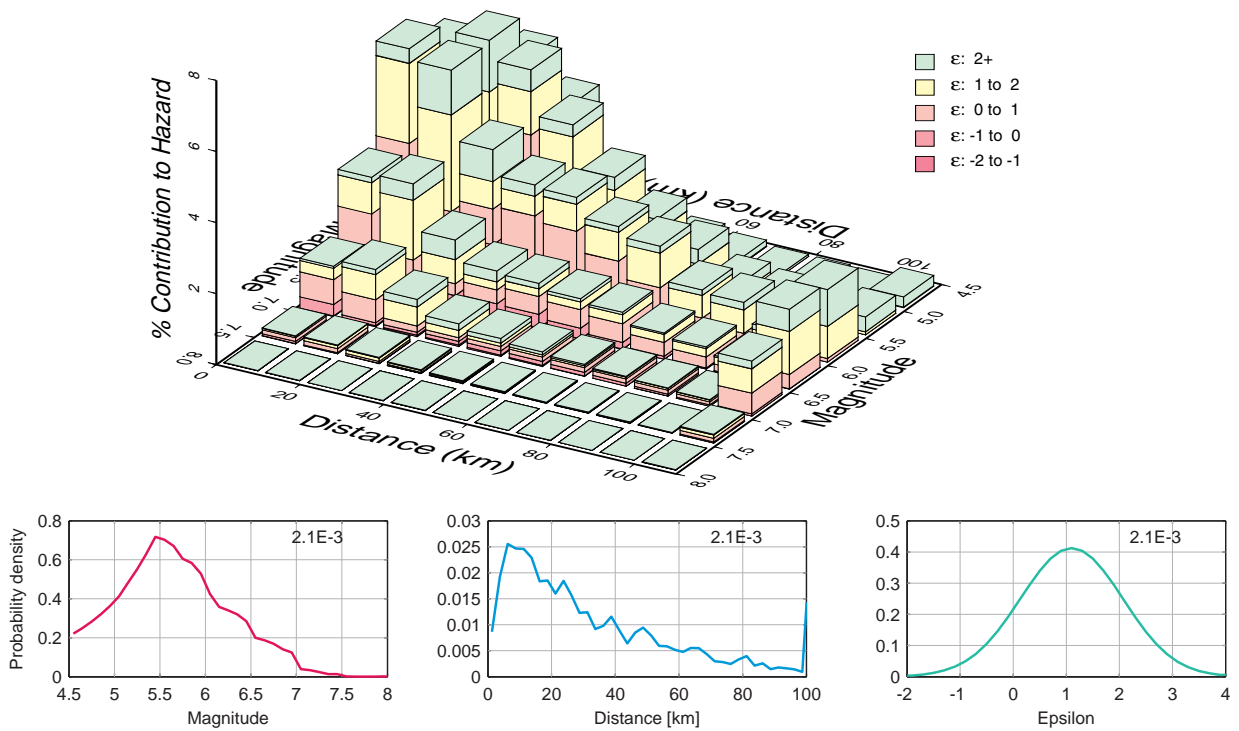


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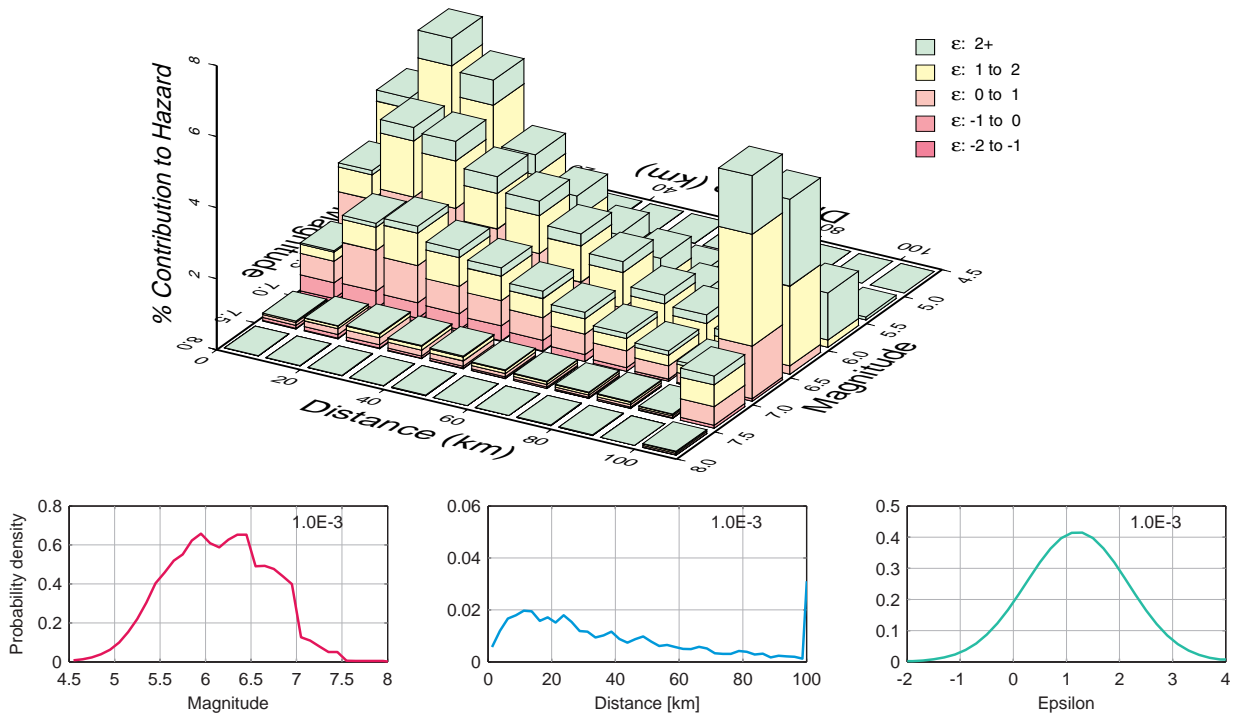


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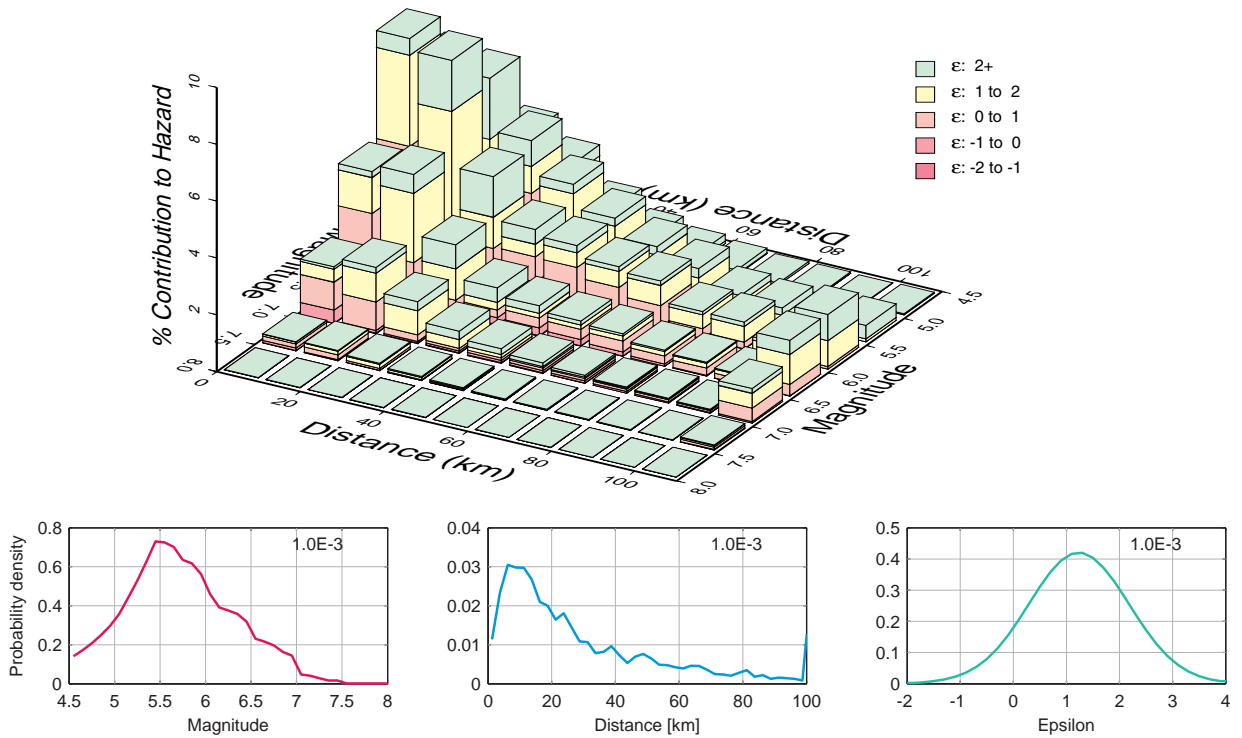


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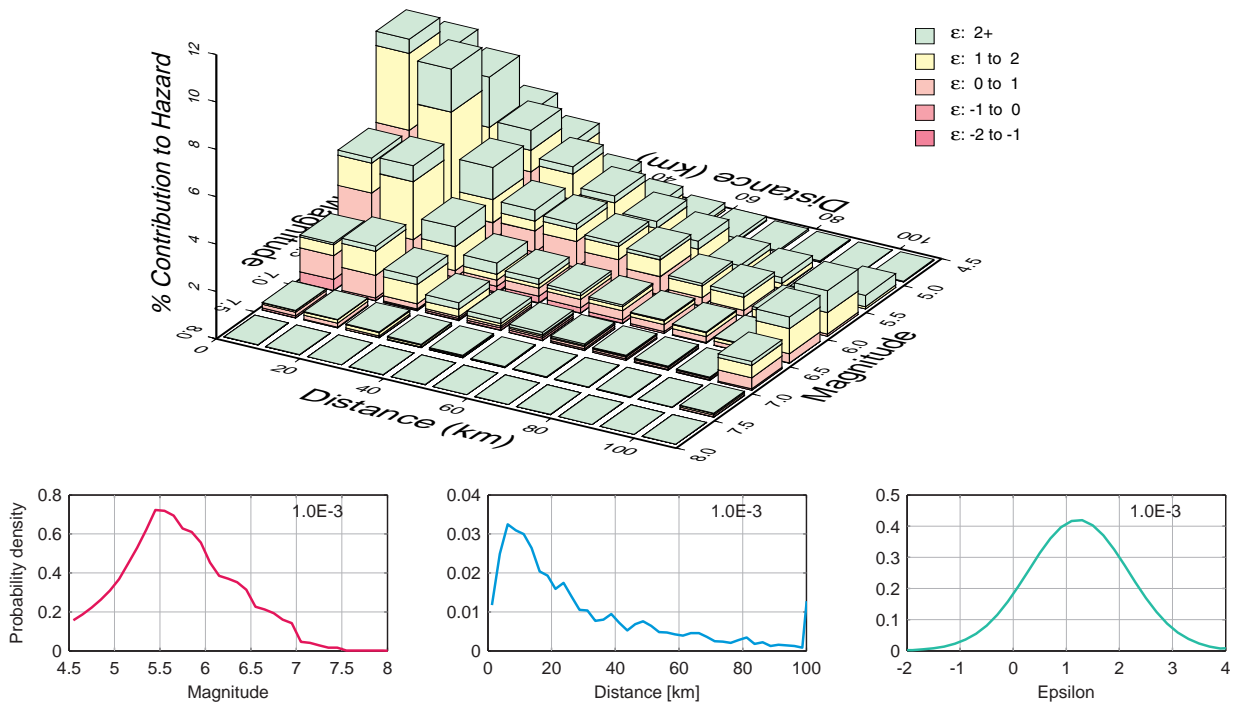


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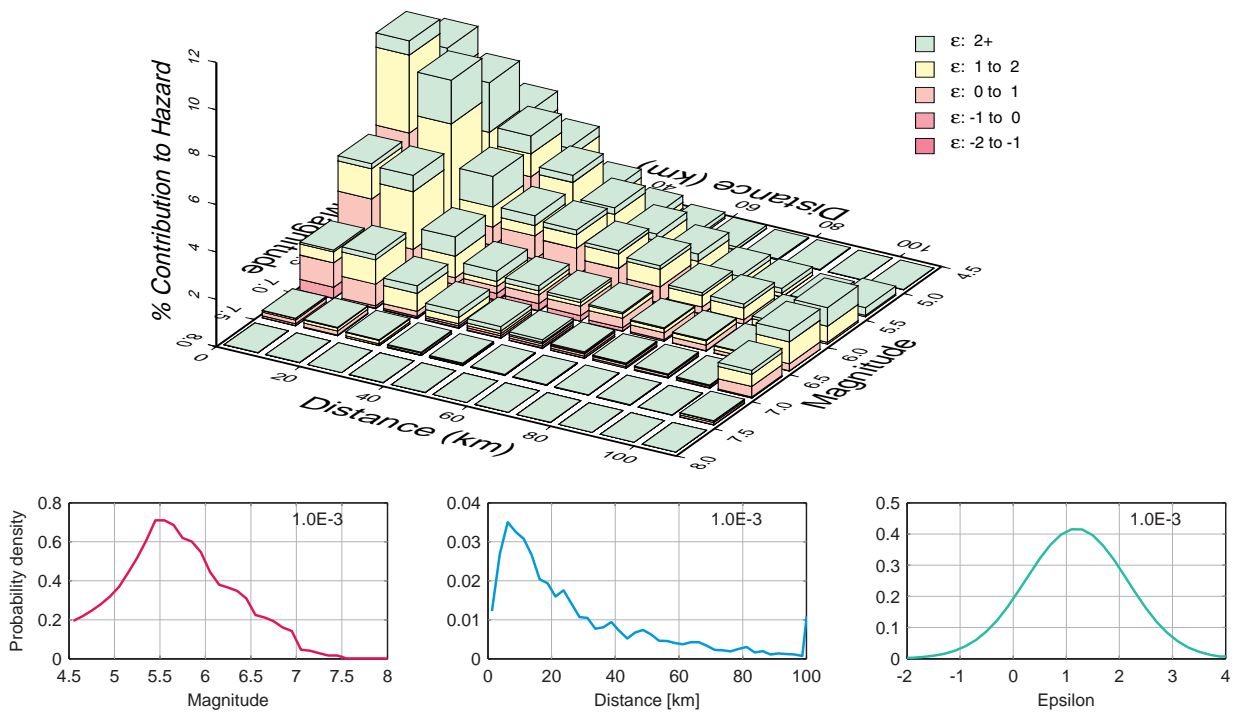


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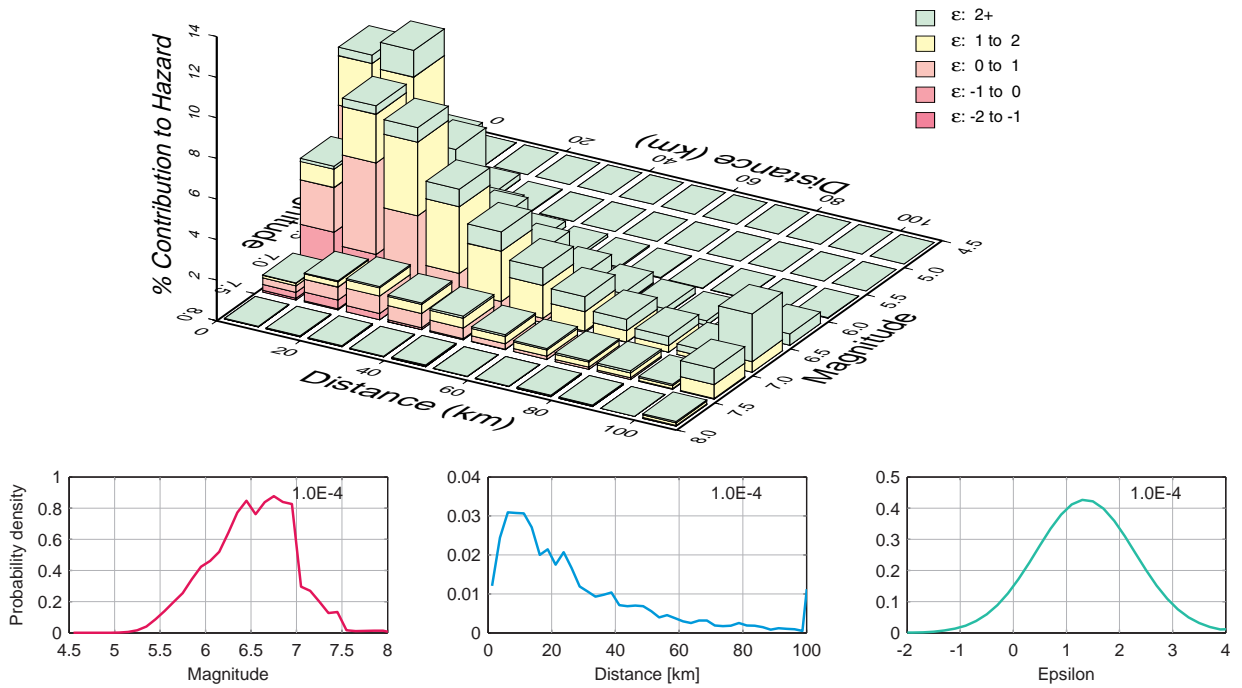


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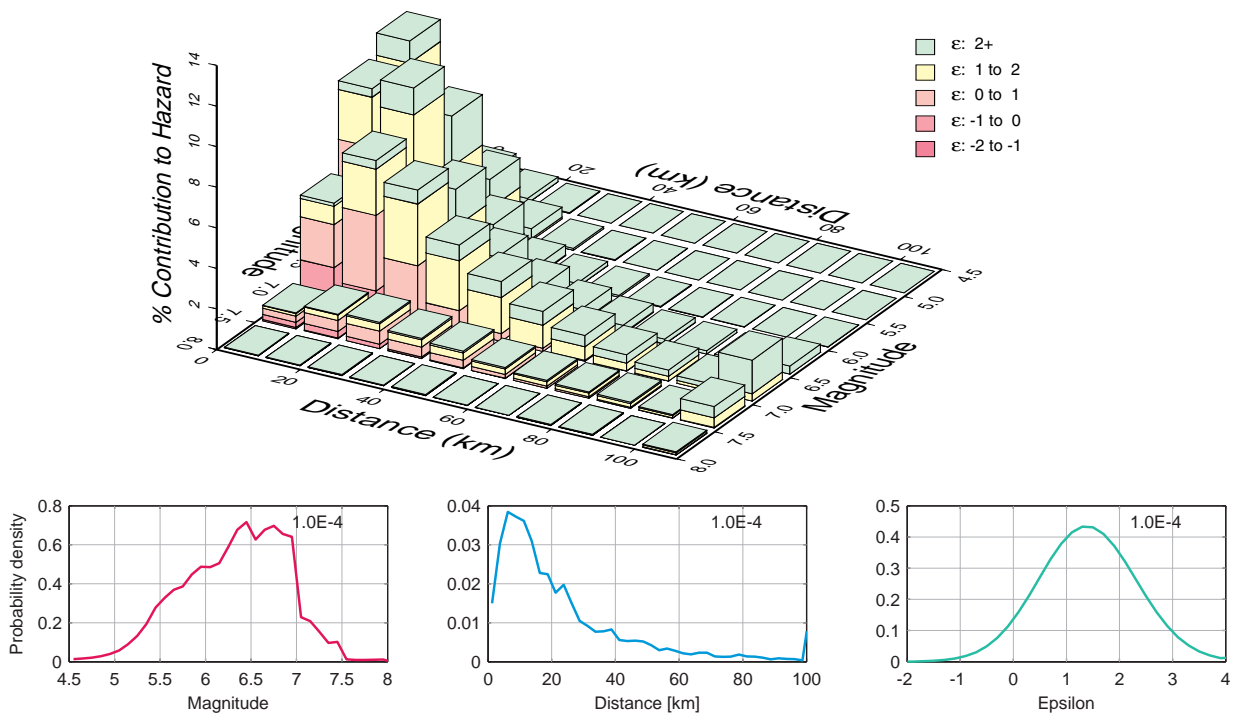


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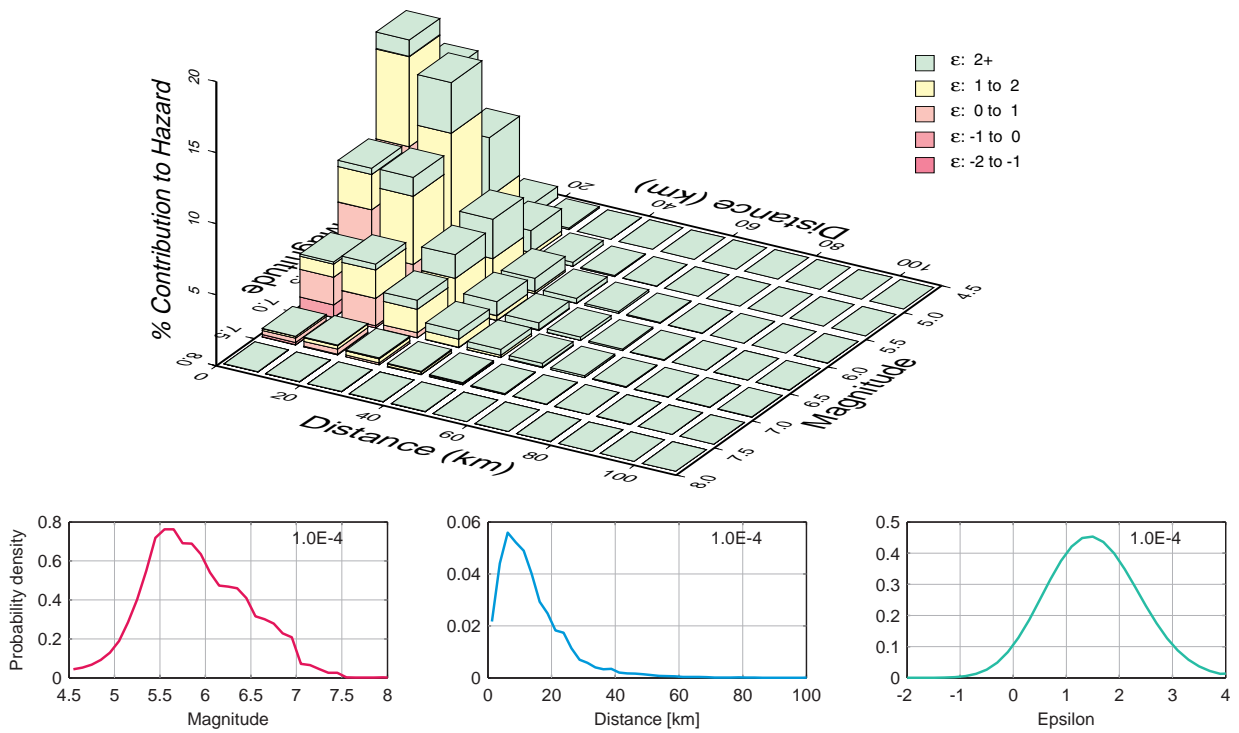


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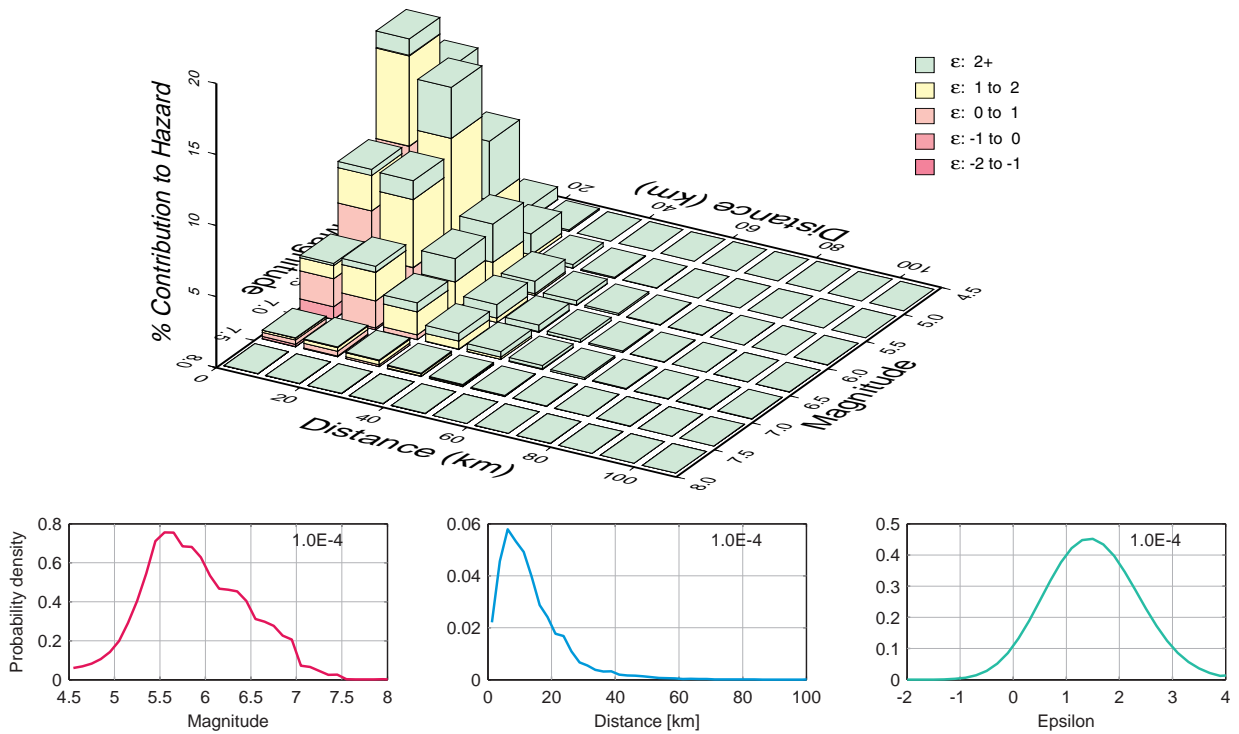


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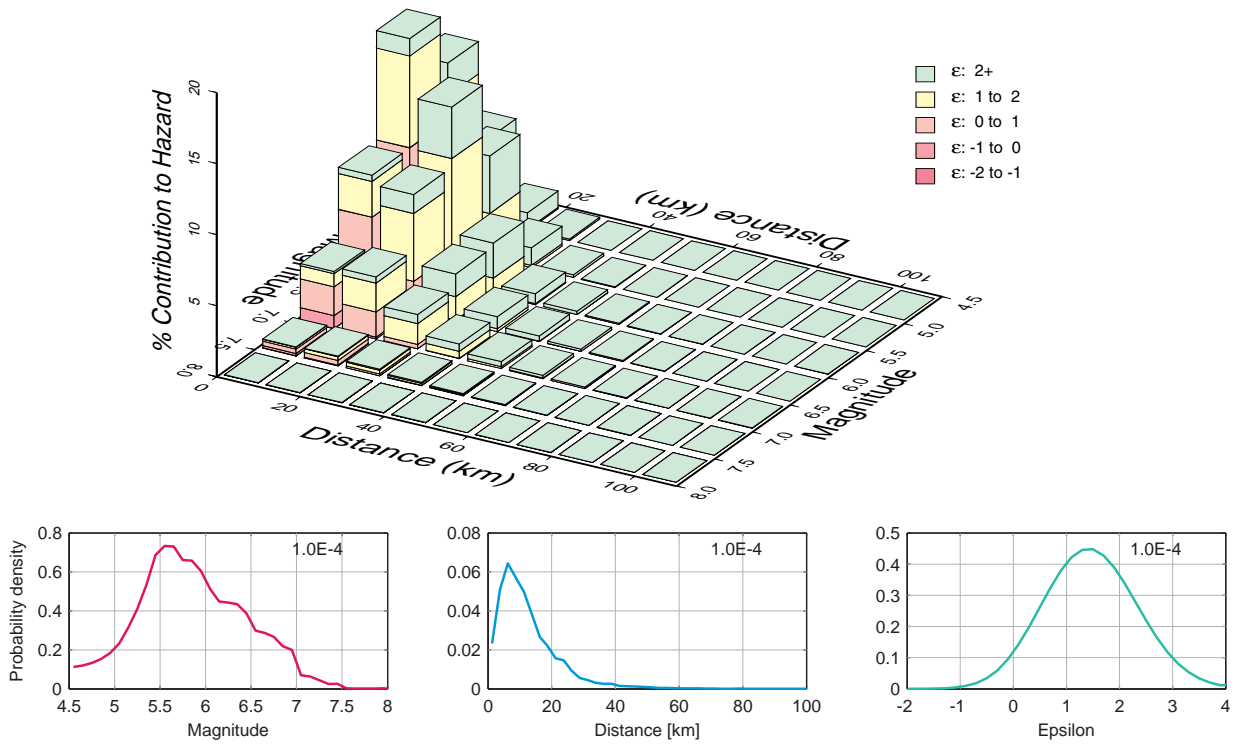


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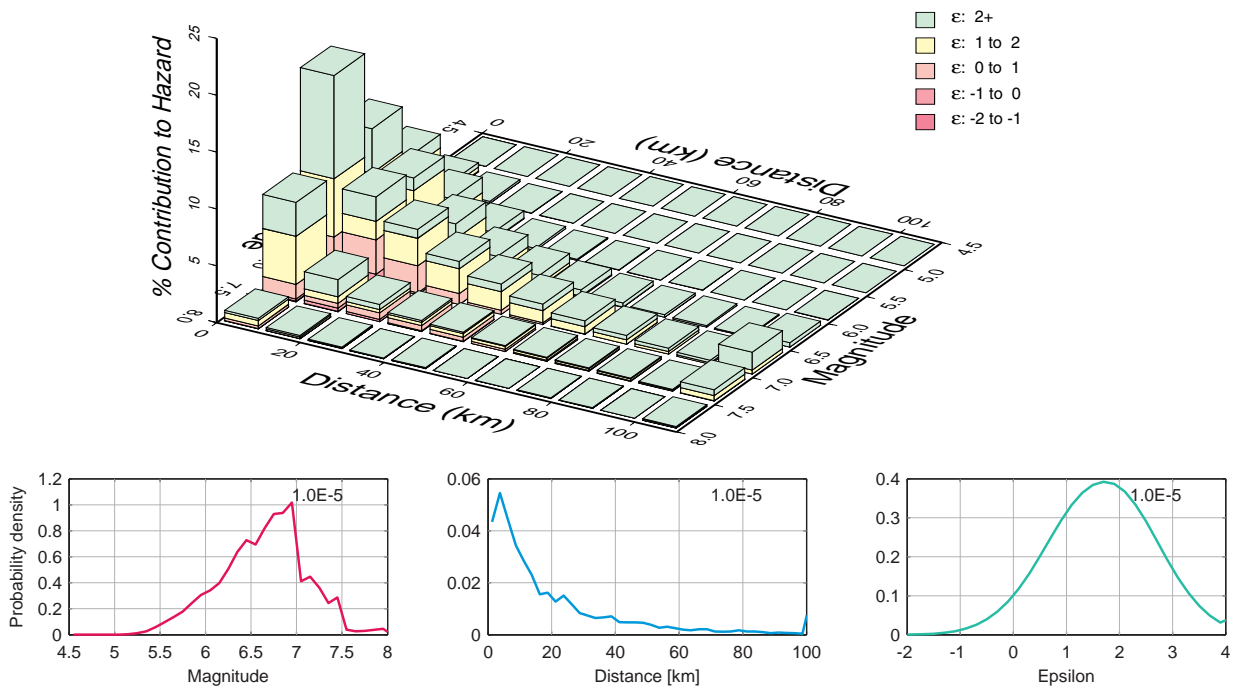


Figure 3.4.17: Gösgen, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-05, 0.5 Hz.

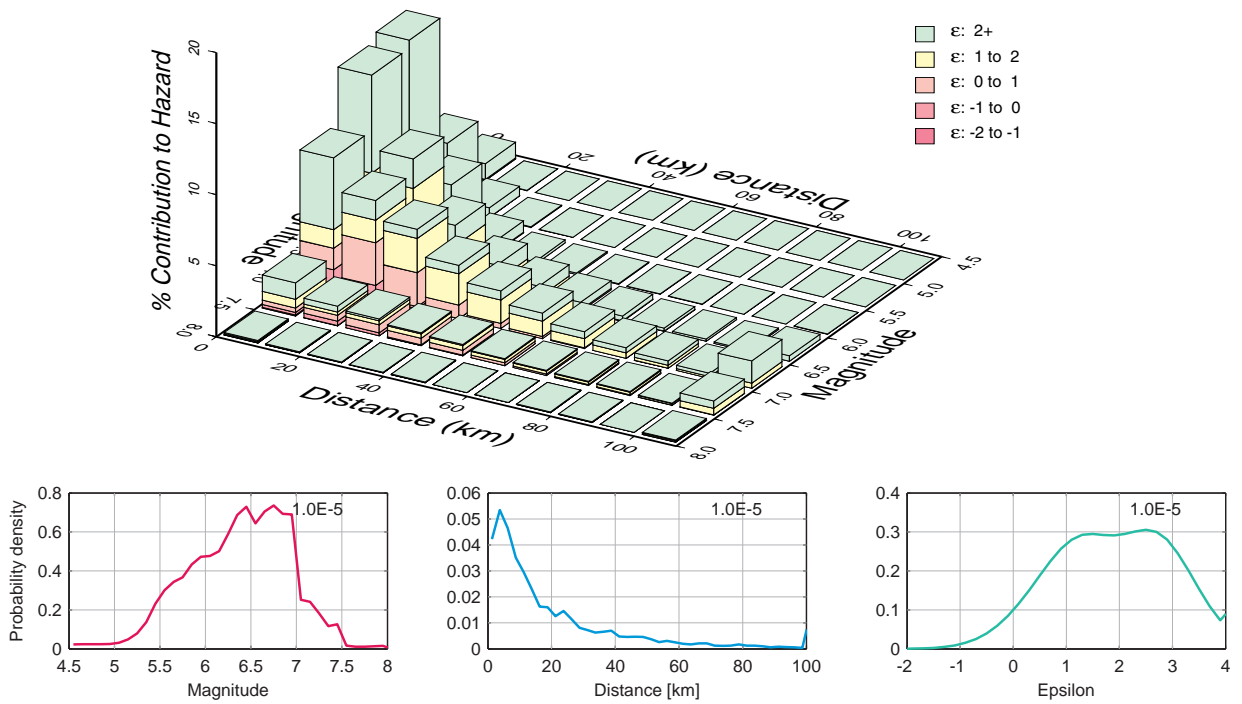


Figure 3.4.18: Gösgen, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-05, 1 Hz.

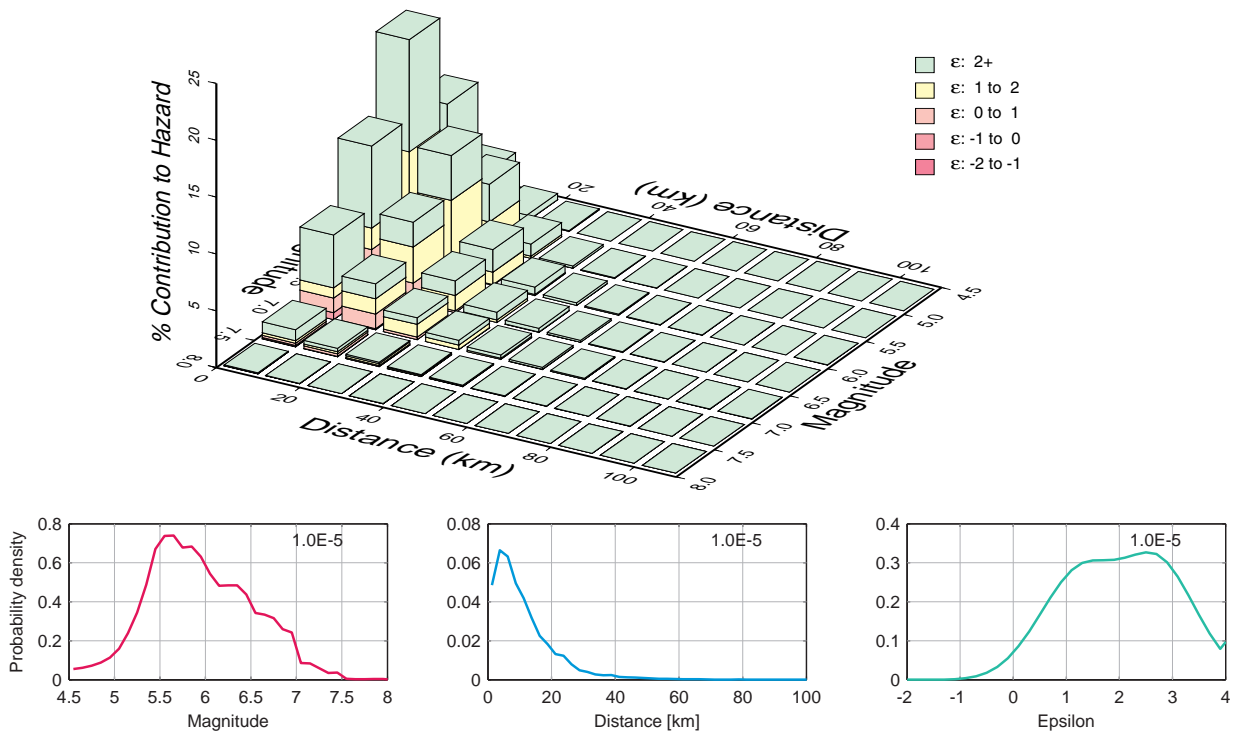


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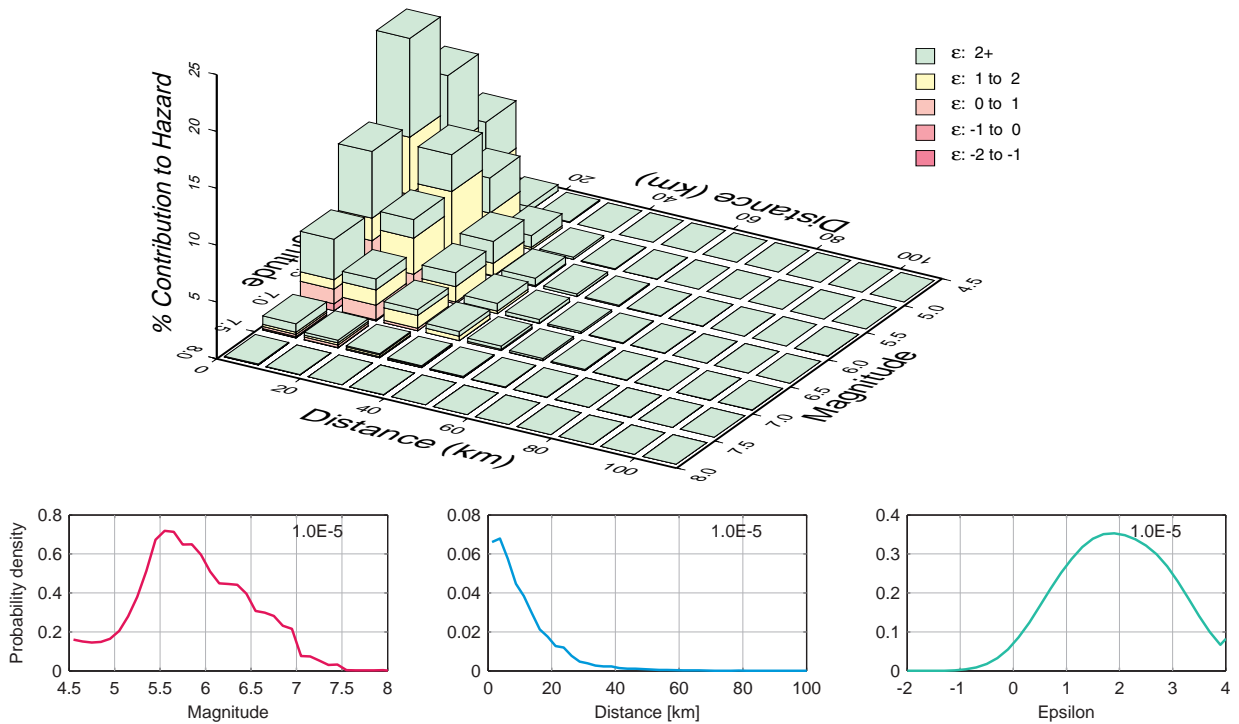


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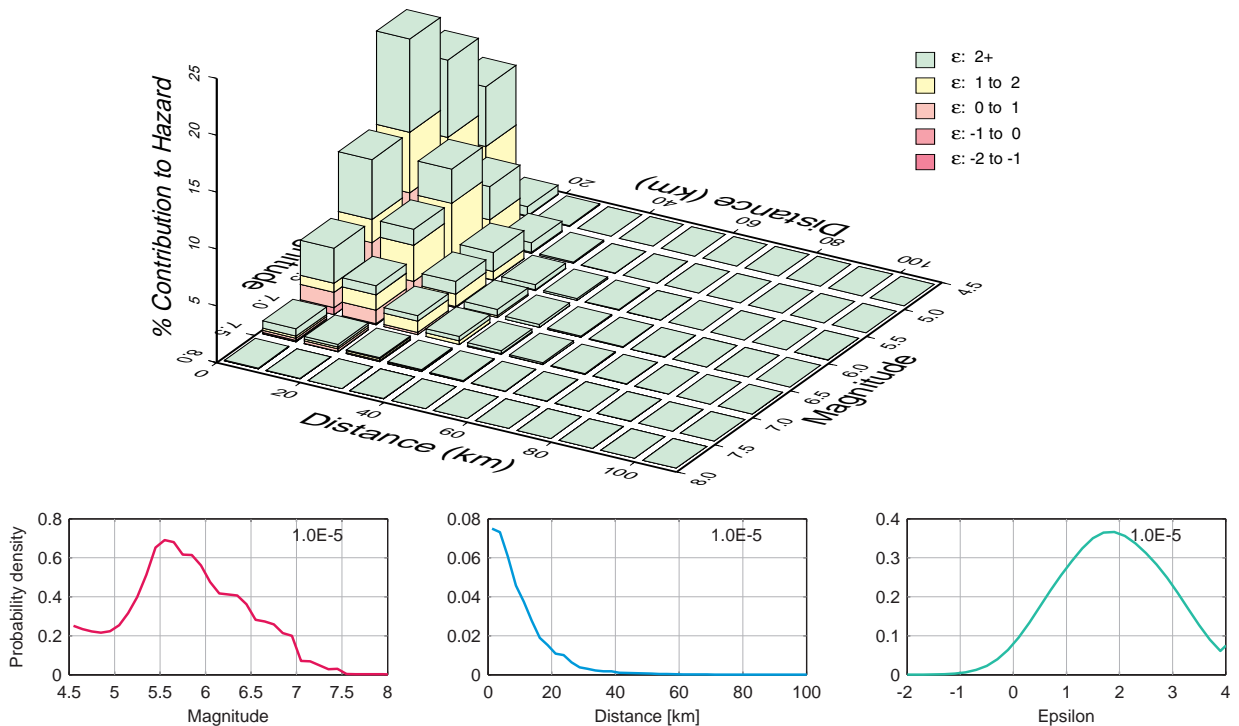


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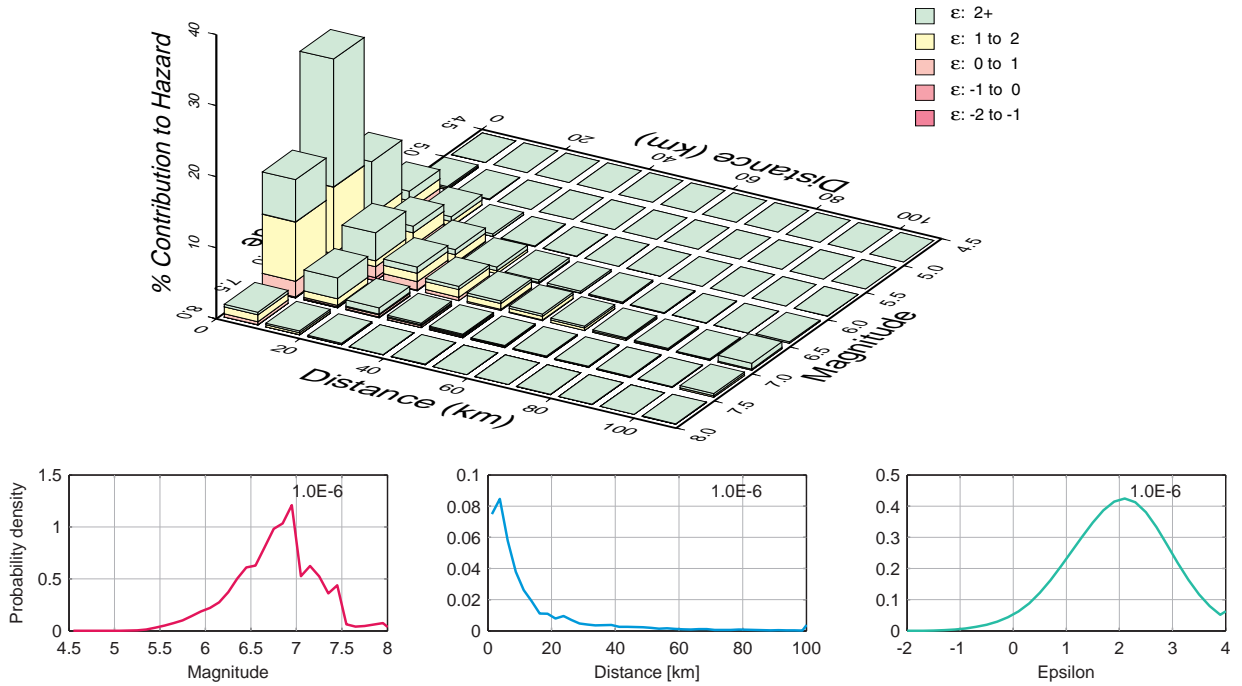


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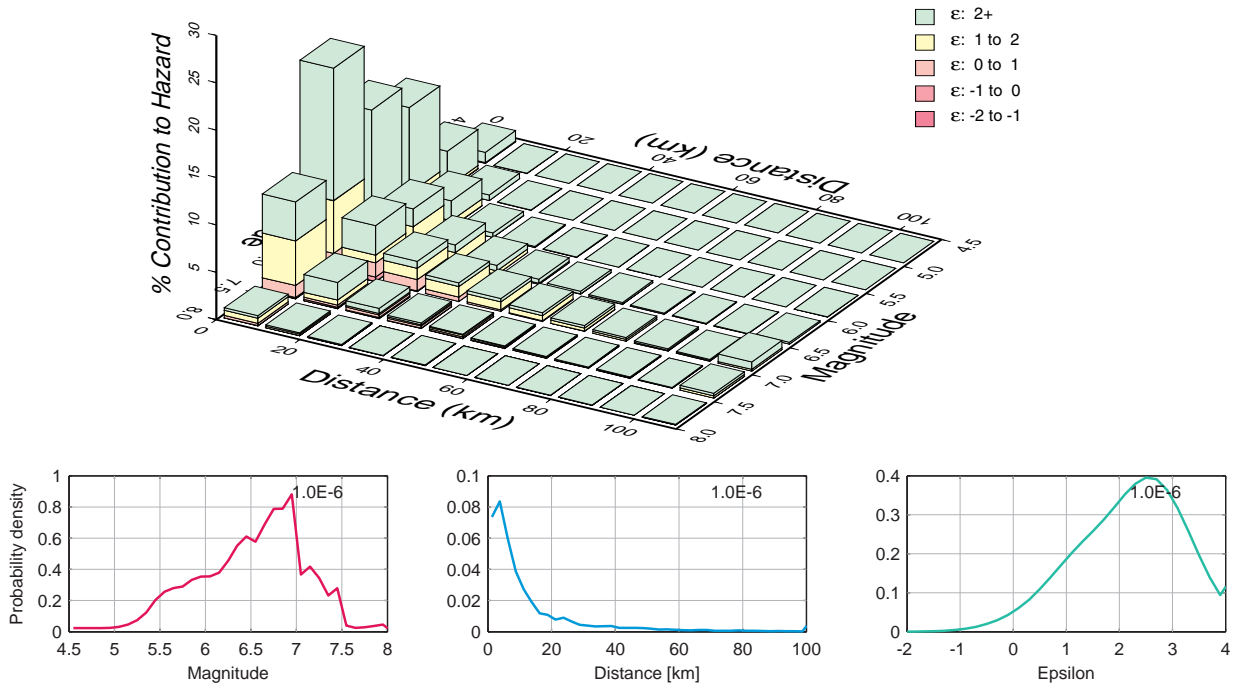


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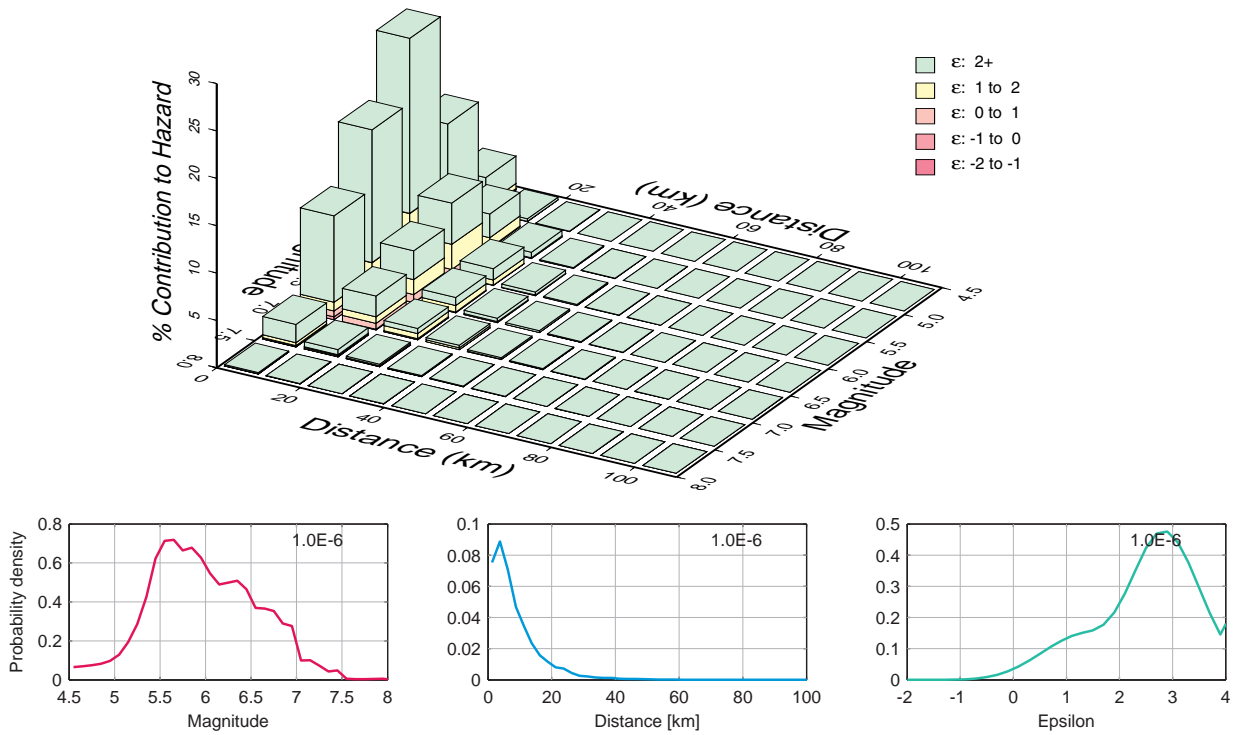


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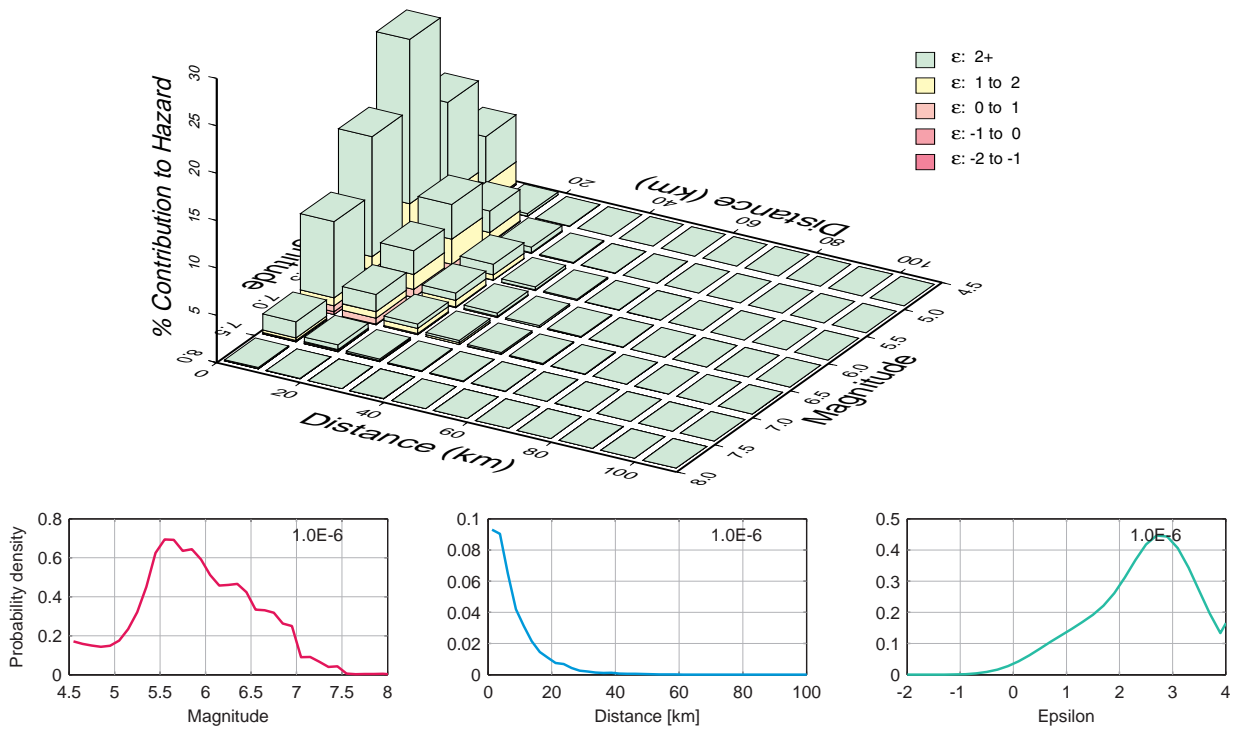


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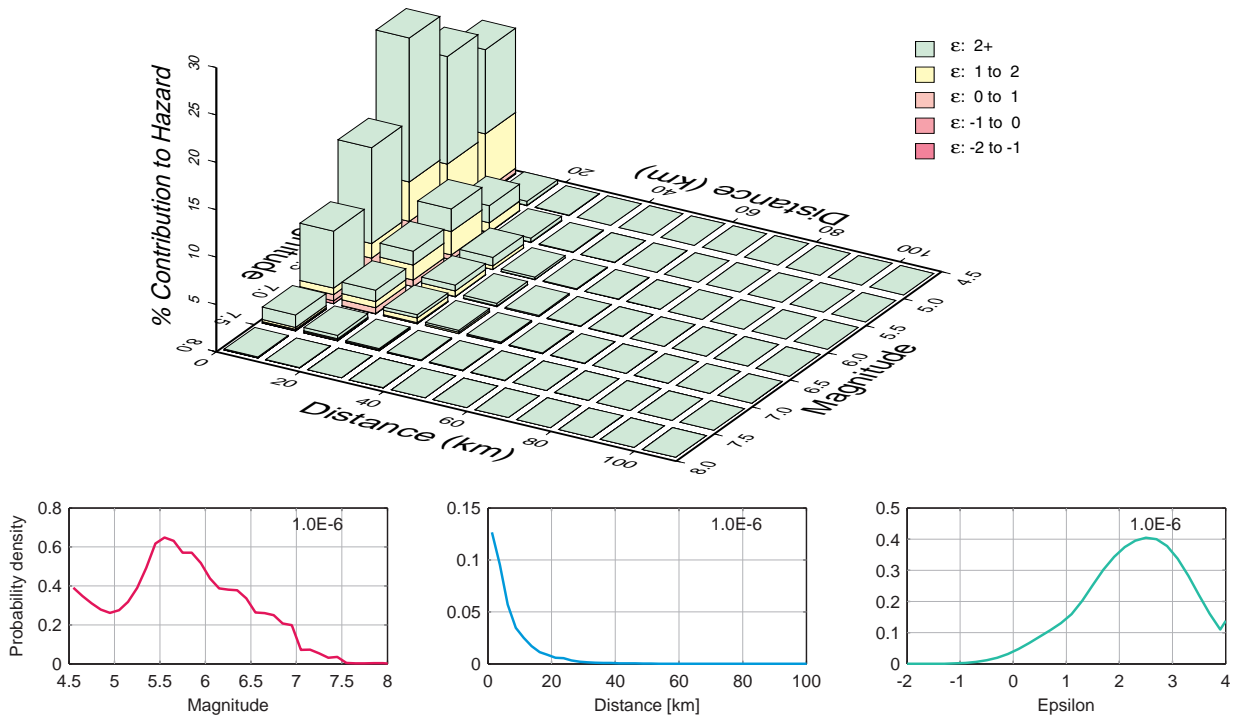


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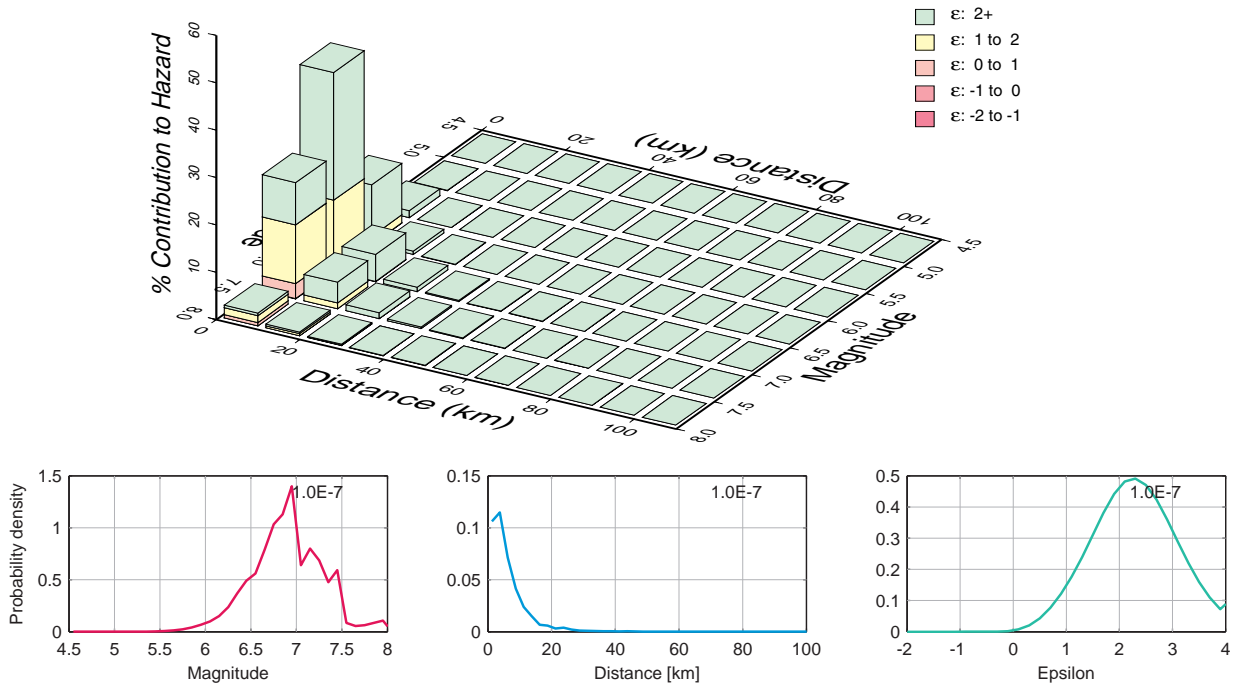


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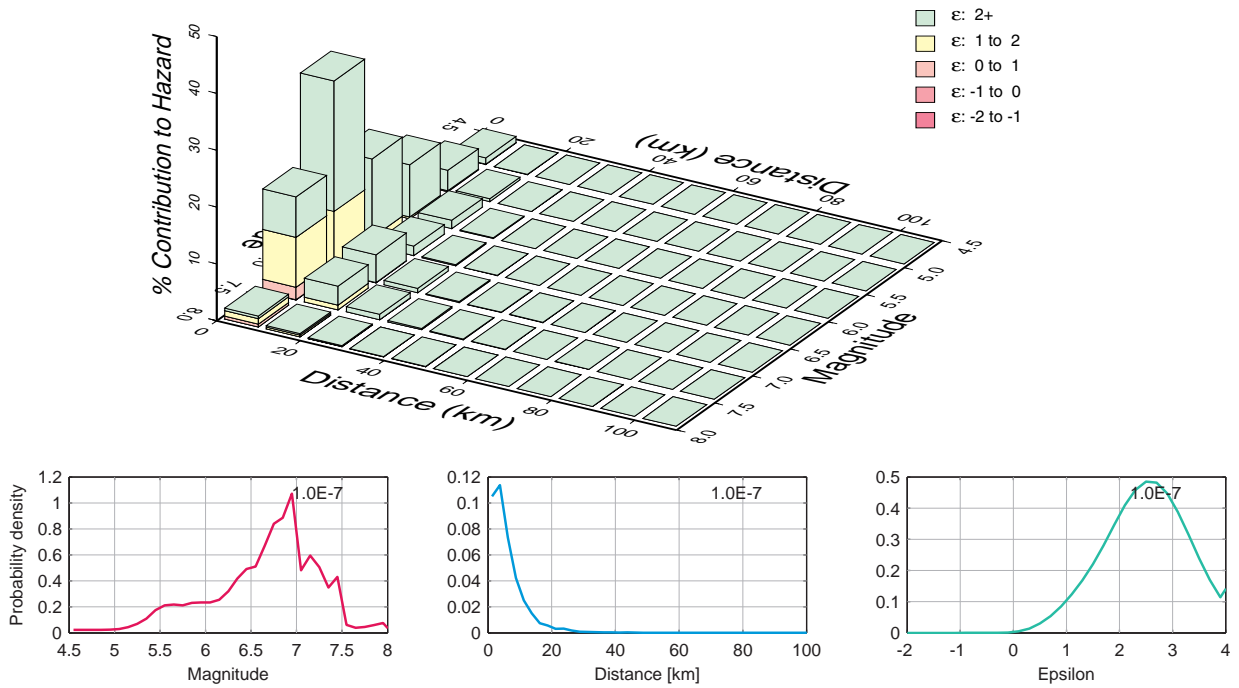


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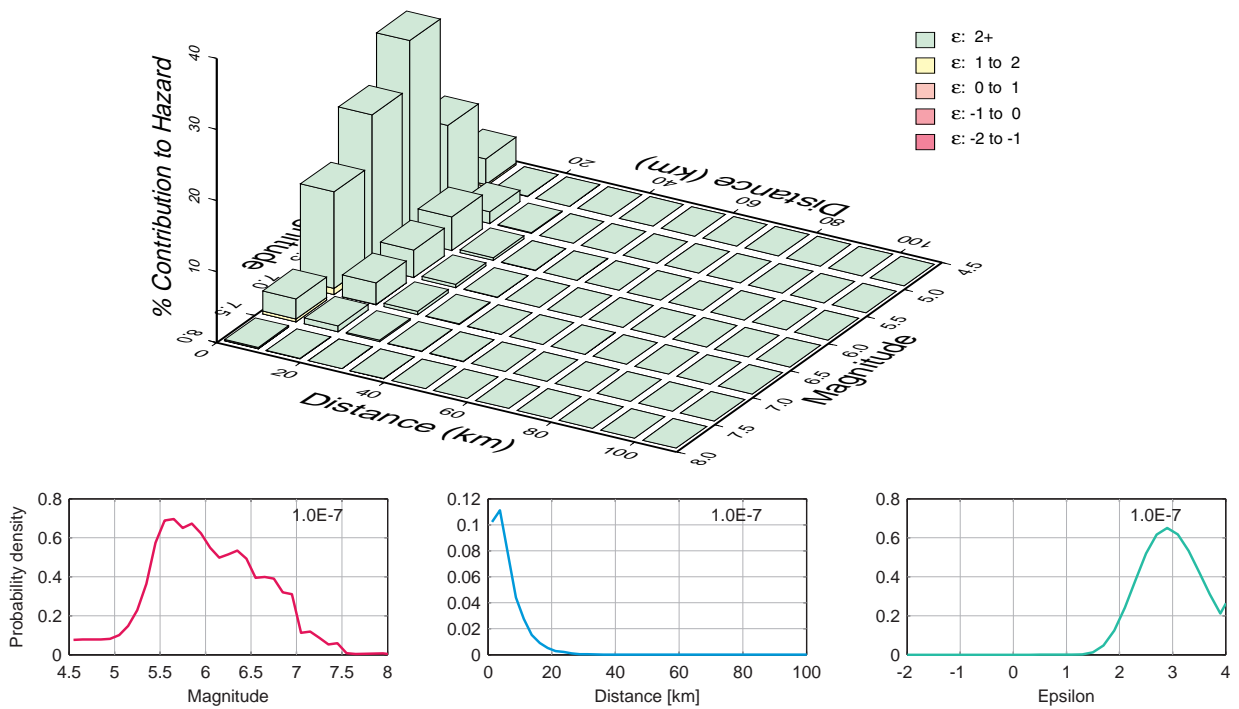


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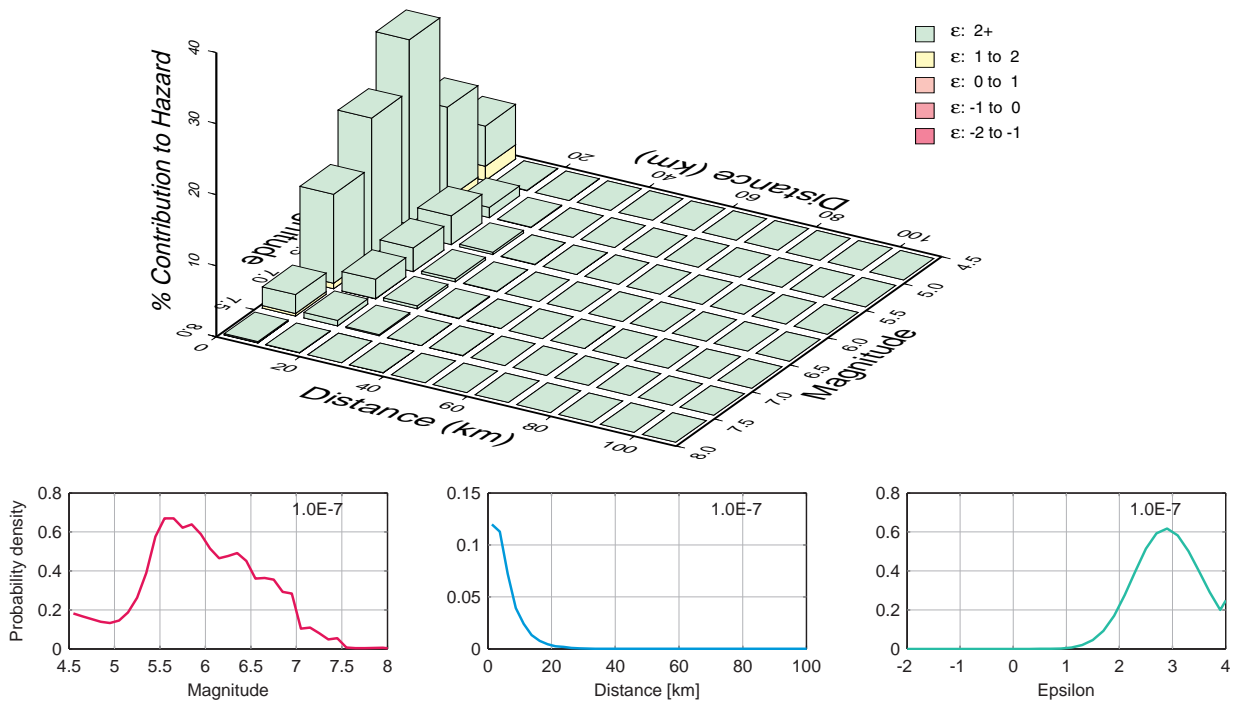


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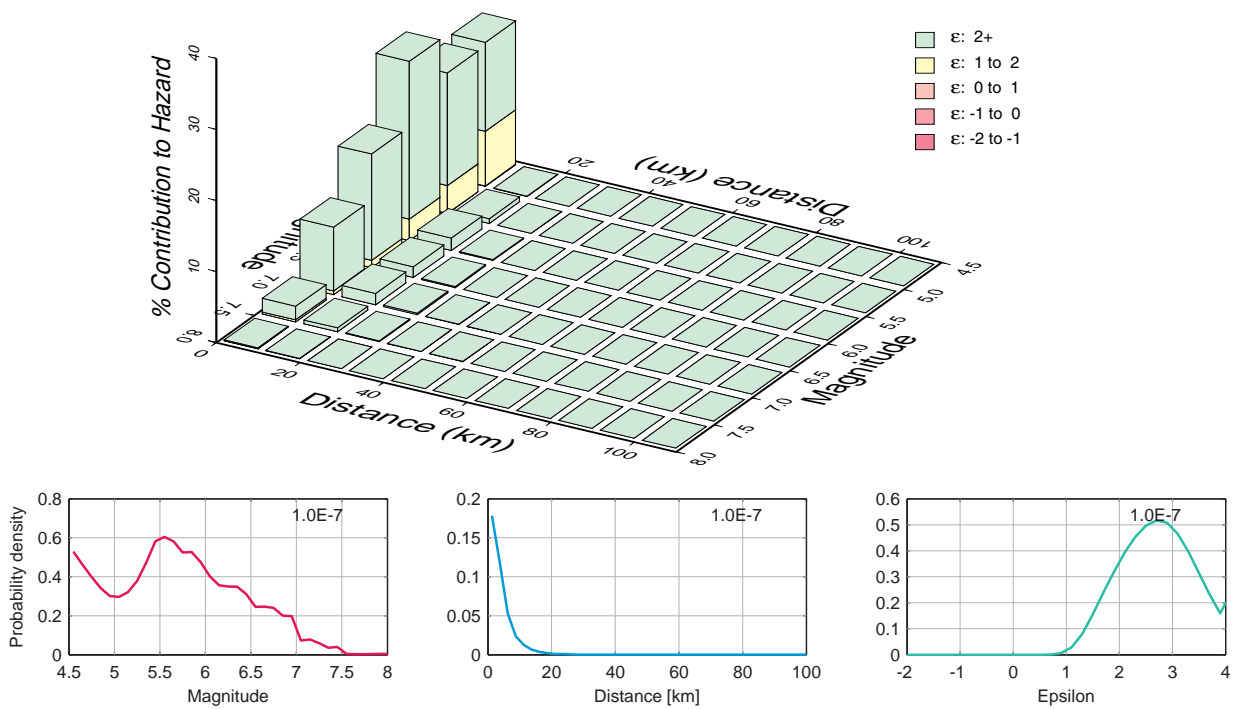


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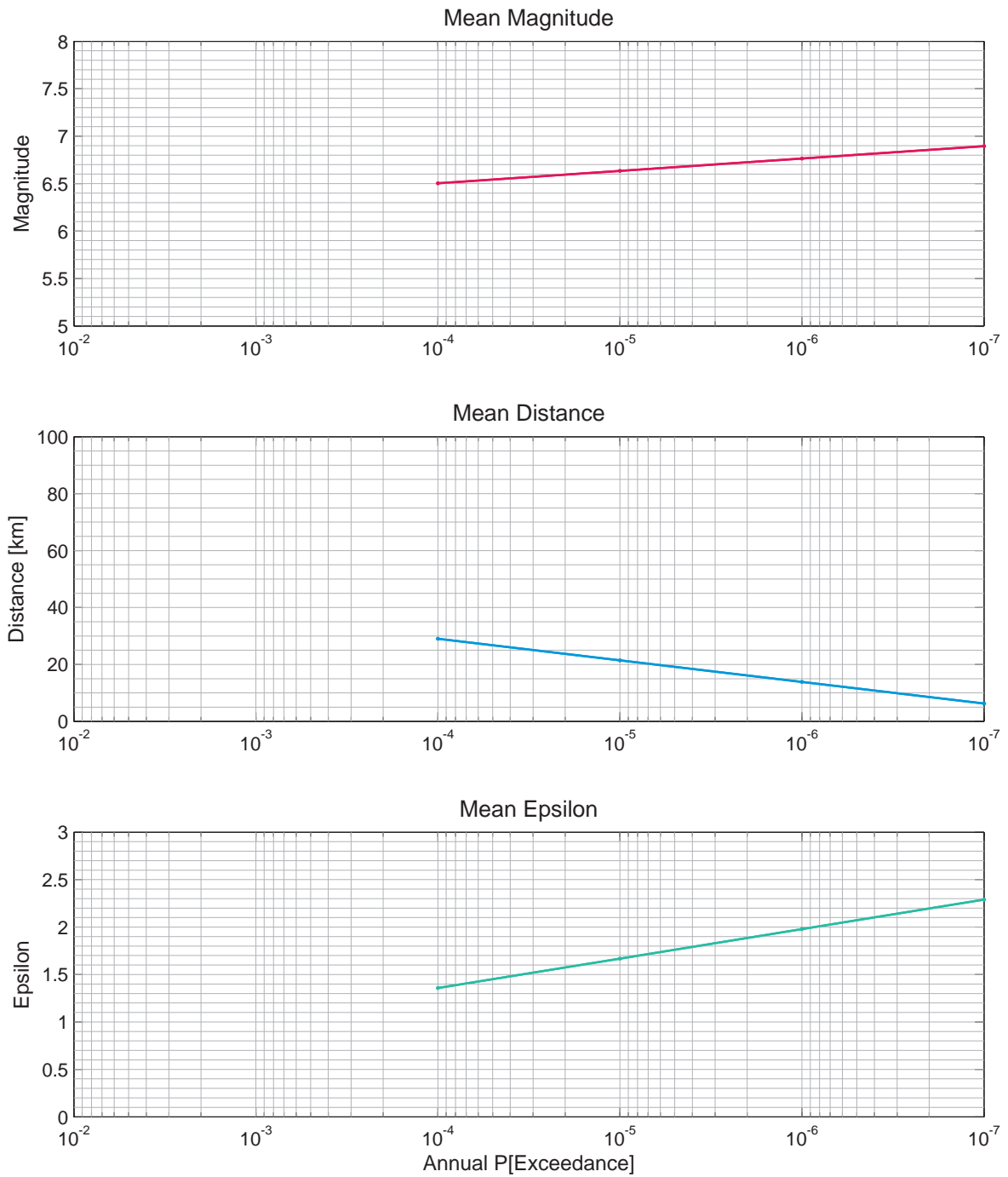


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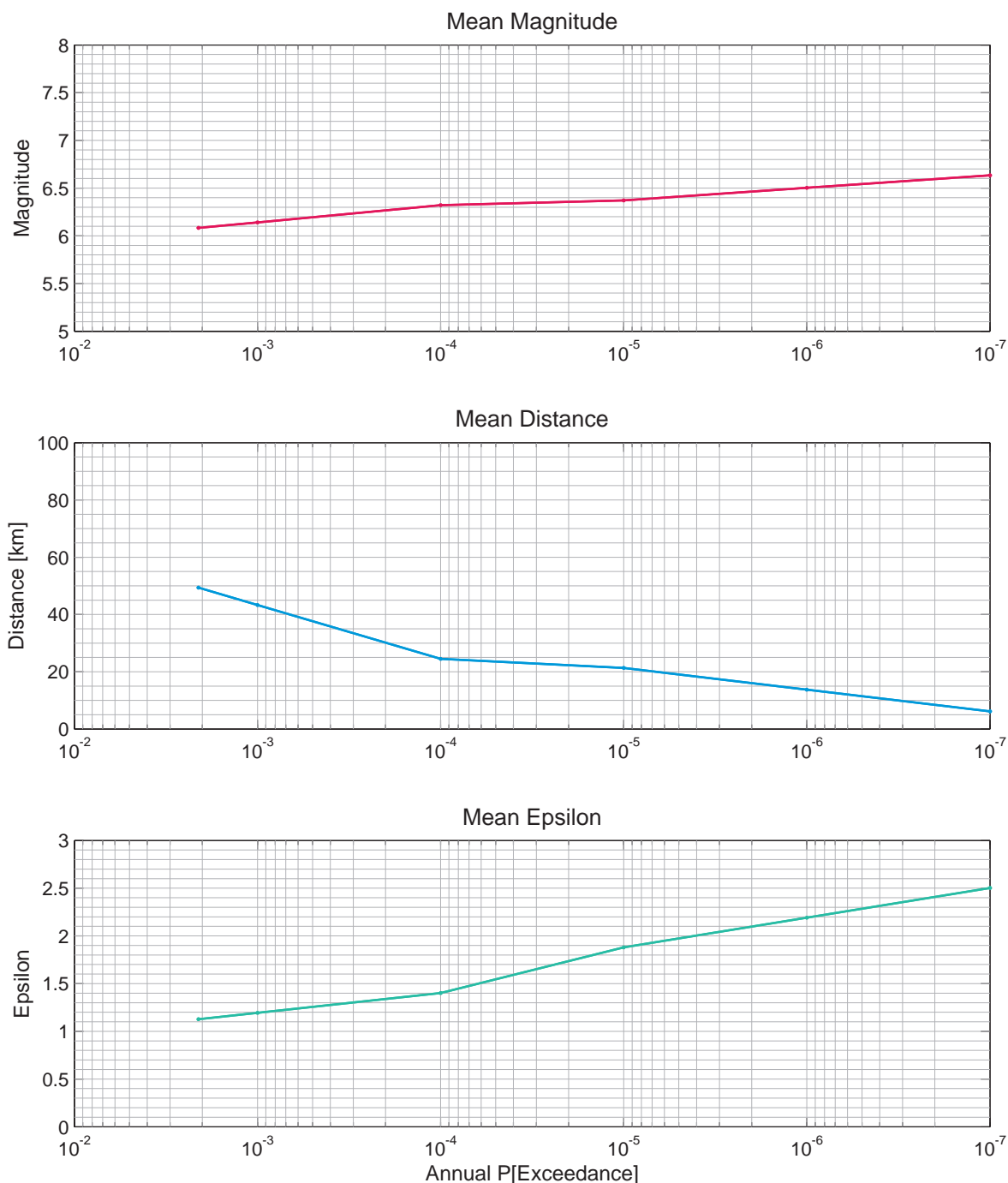


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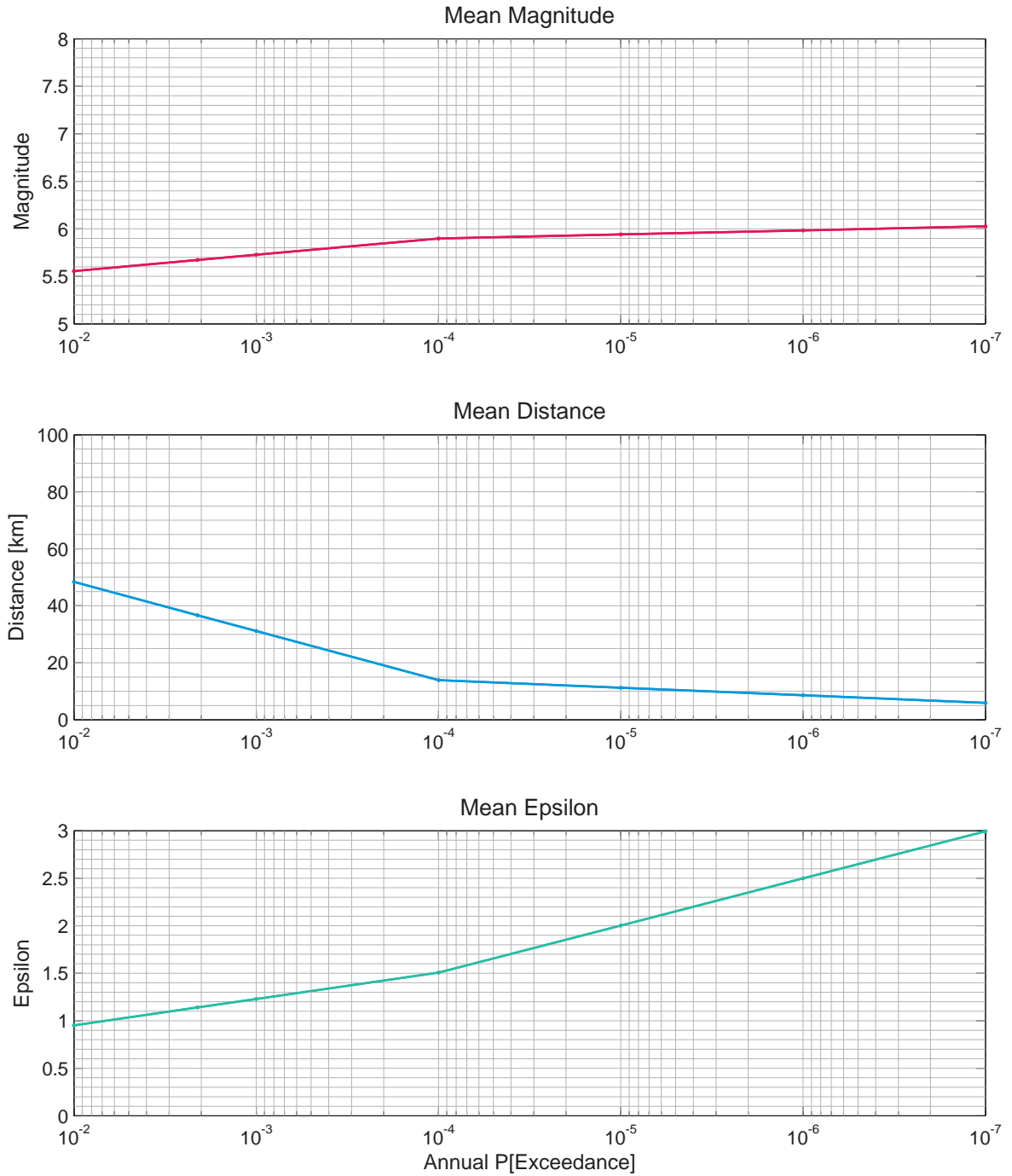


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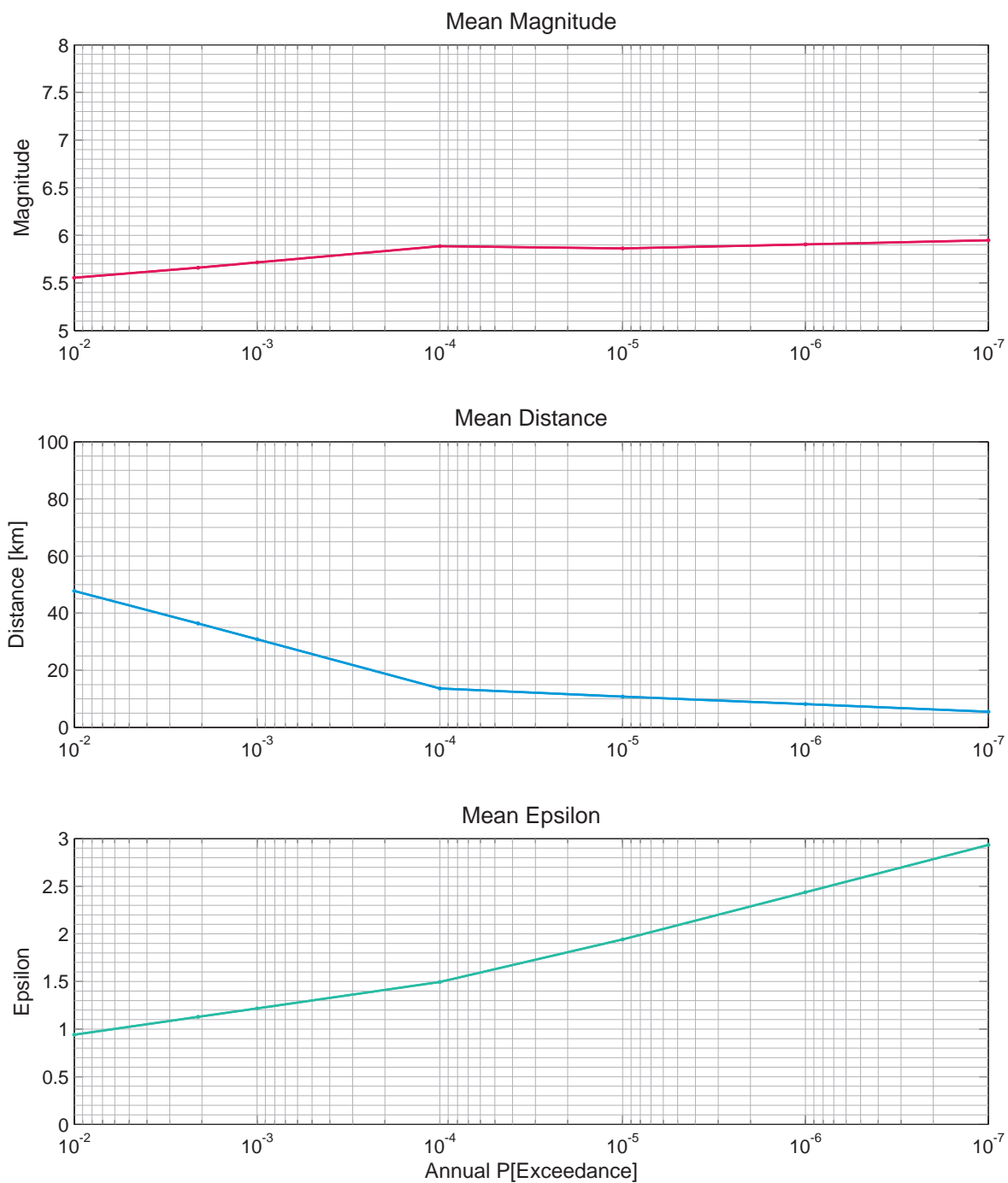


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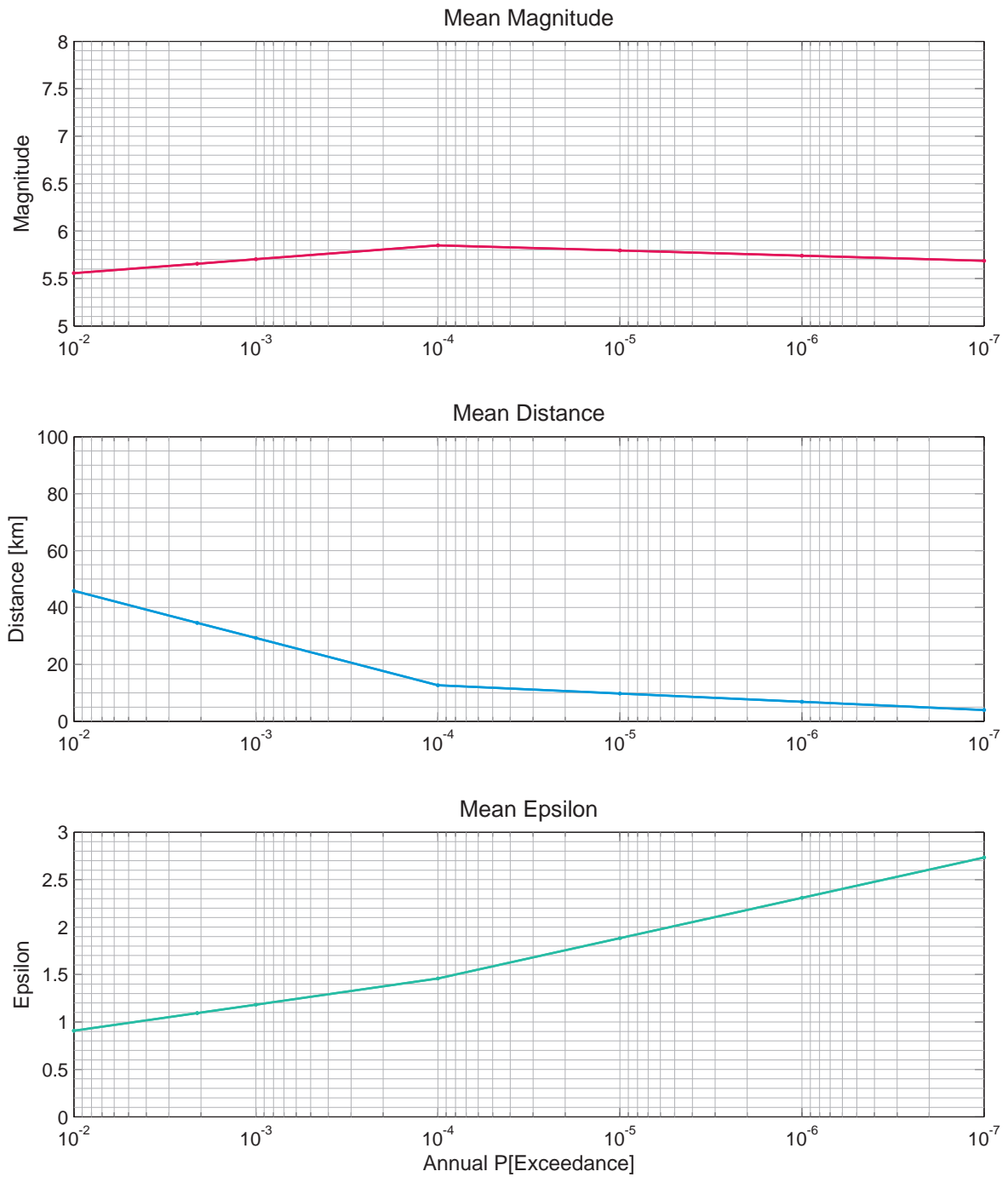


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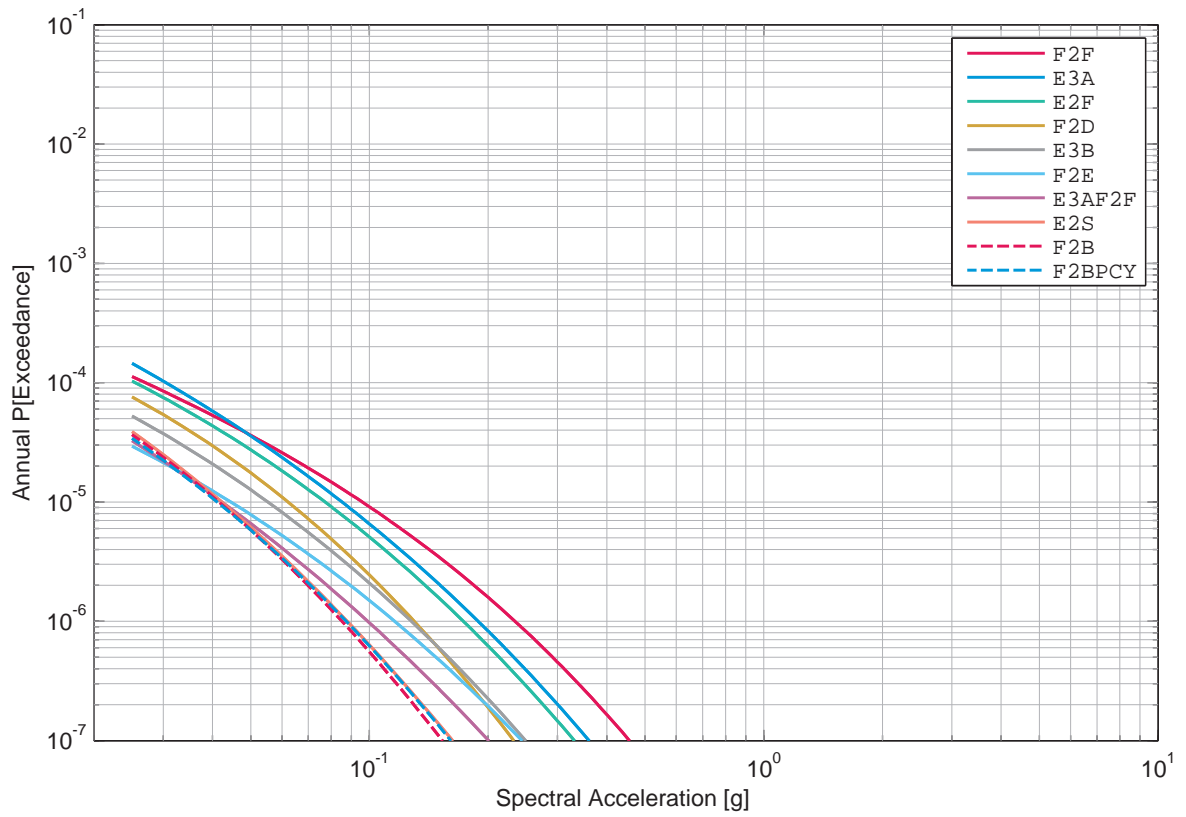


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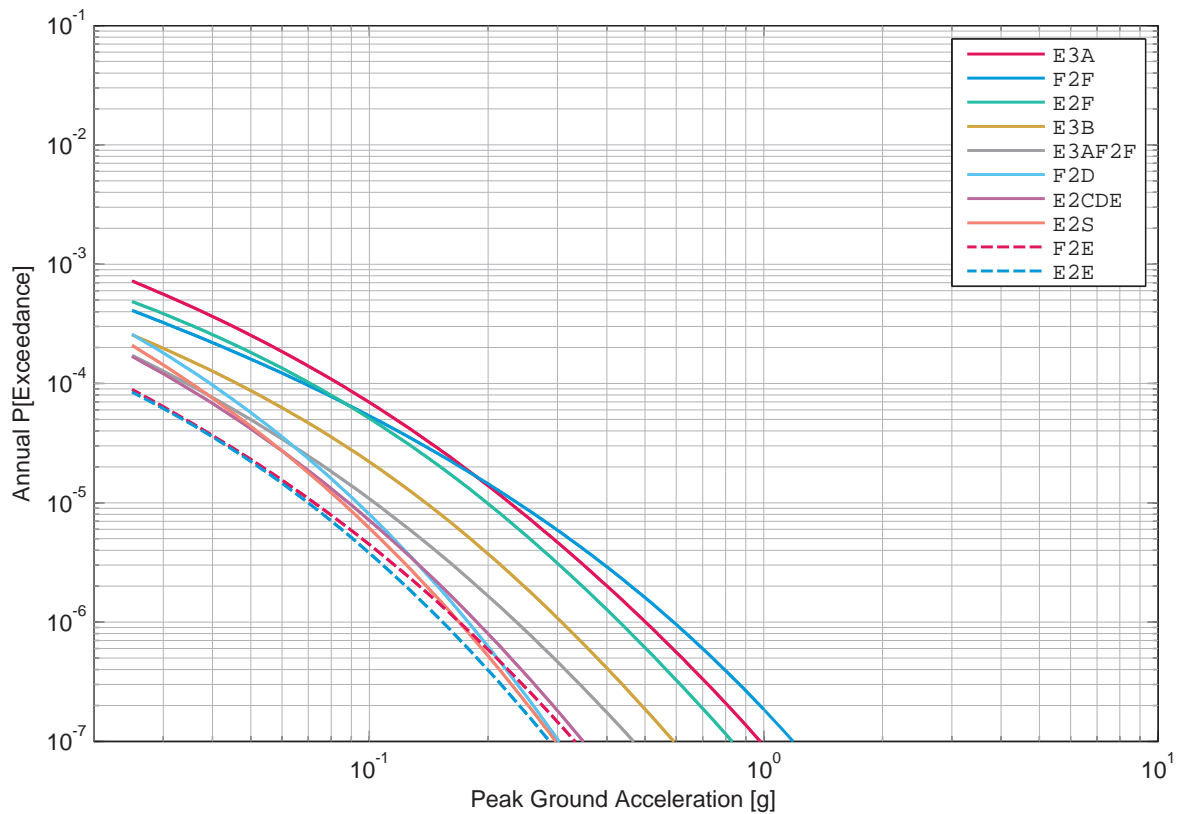


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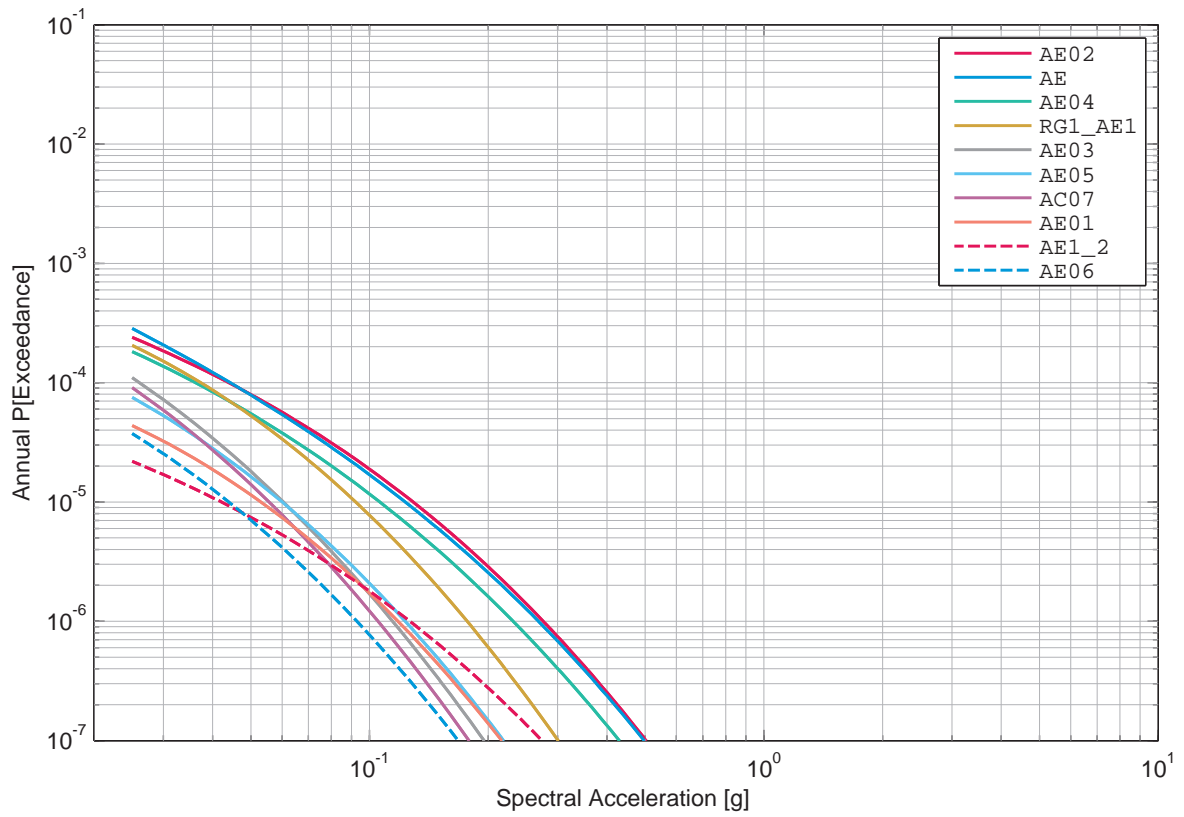


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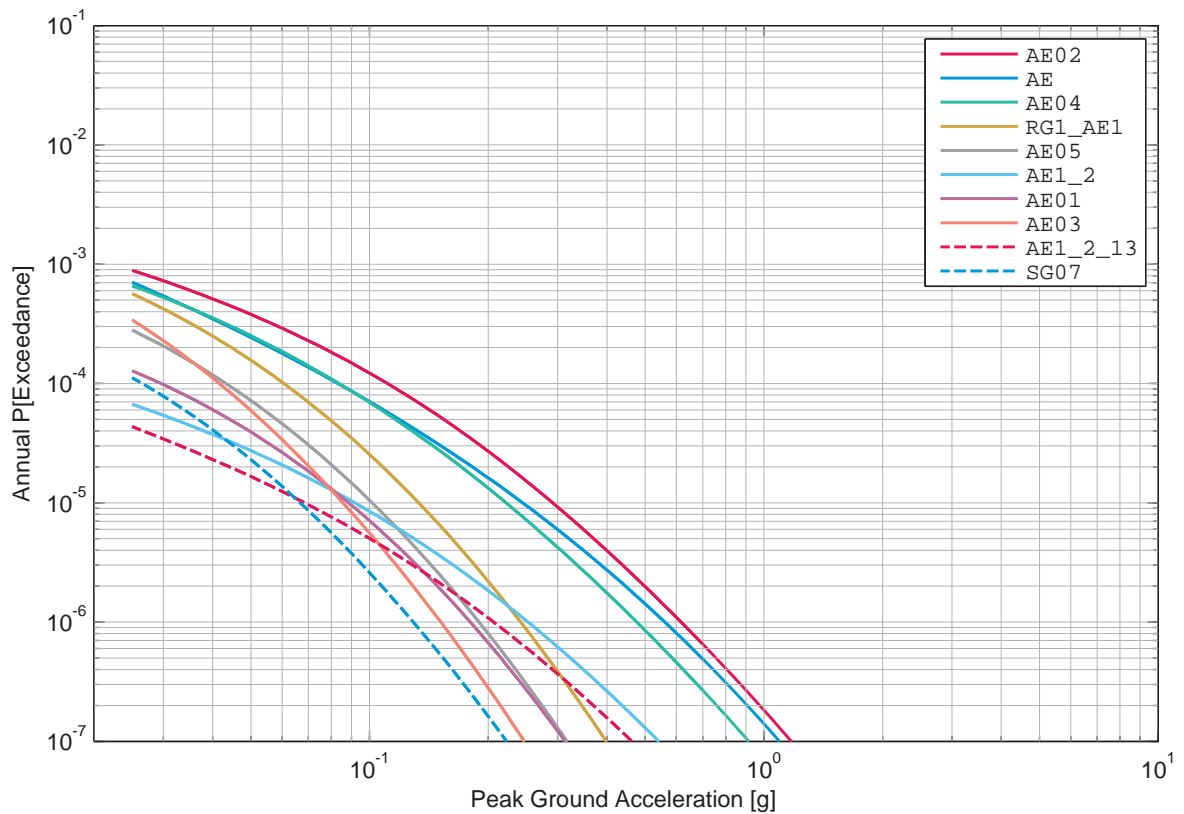


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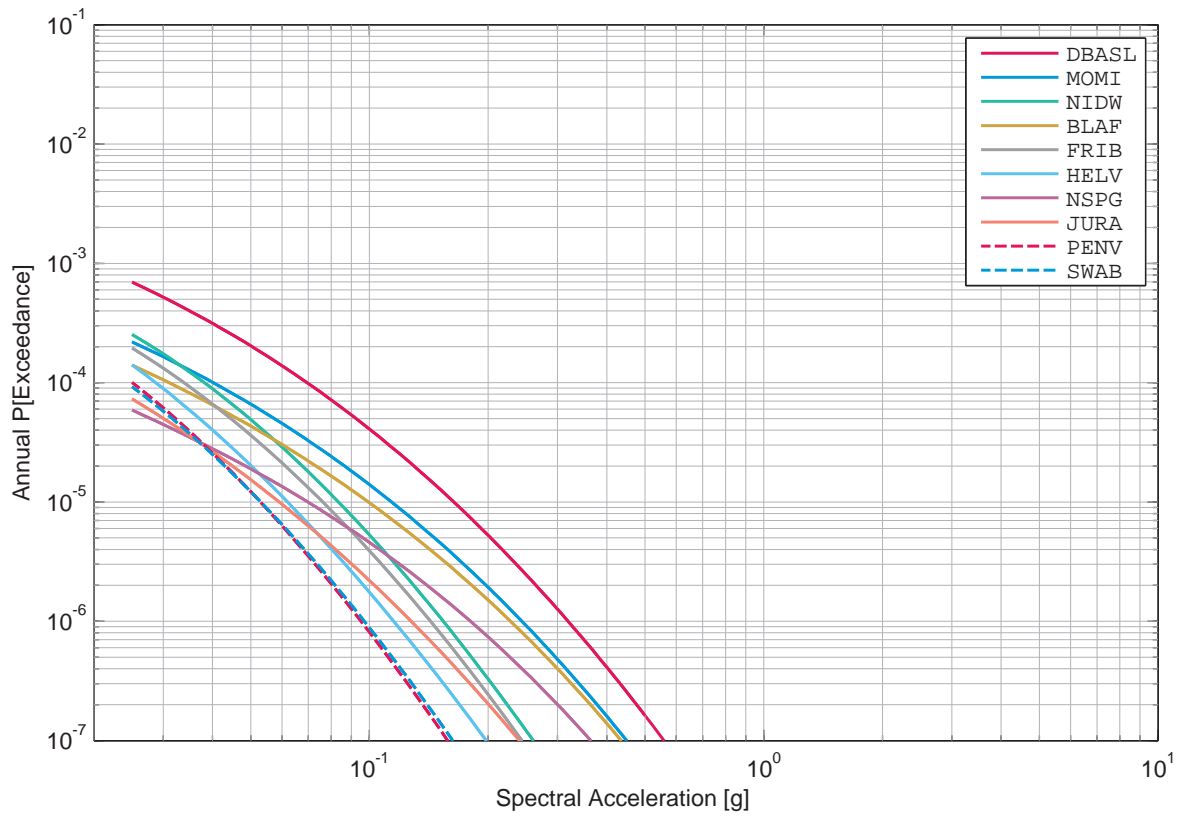


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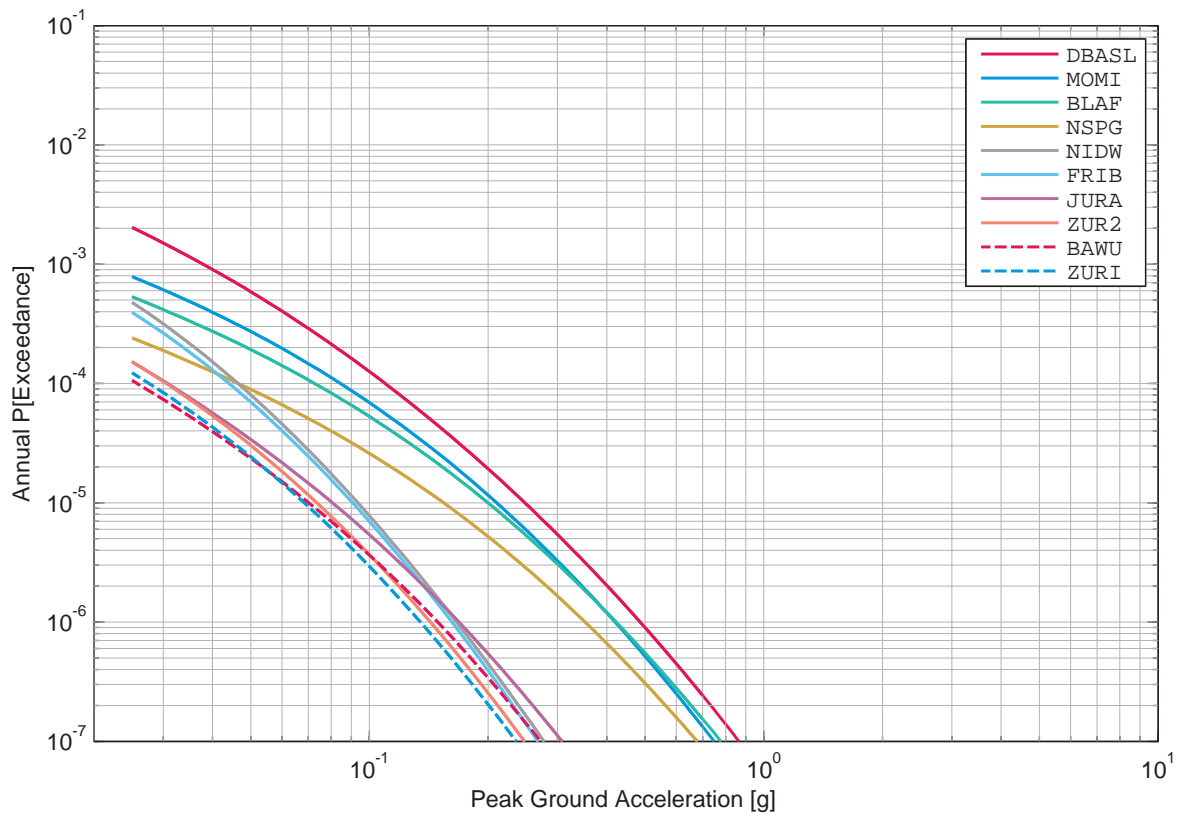


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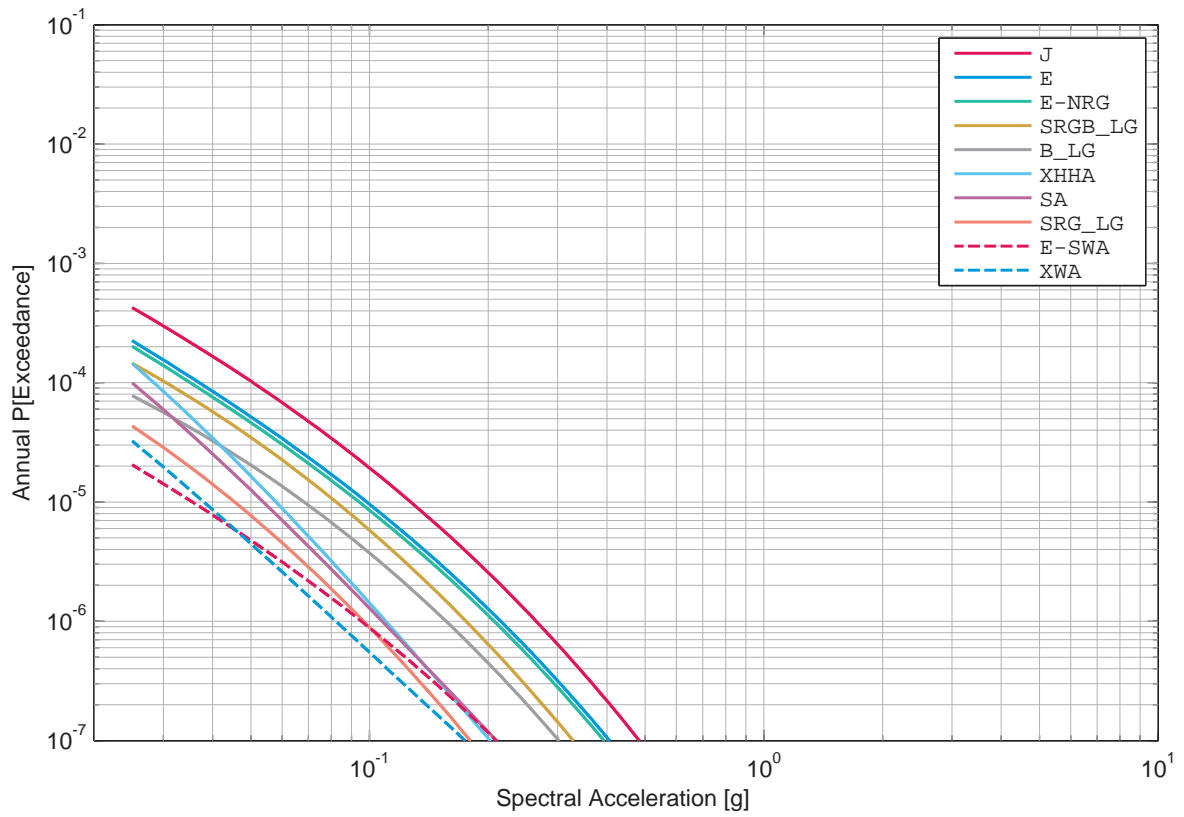


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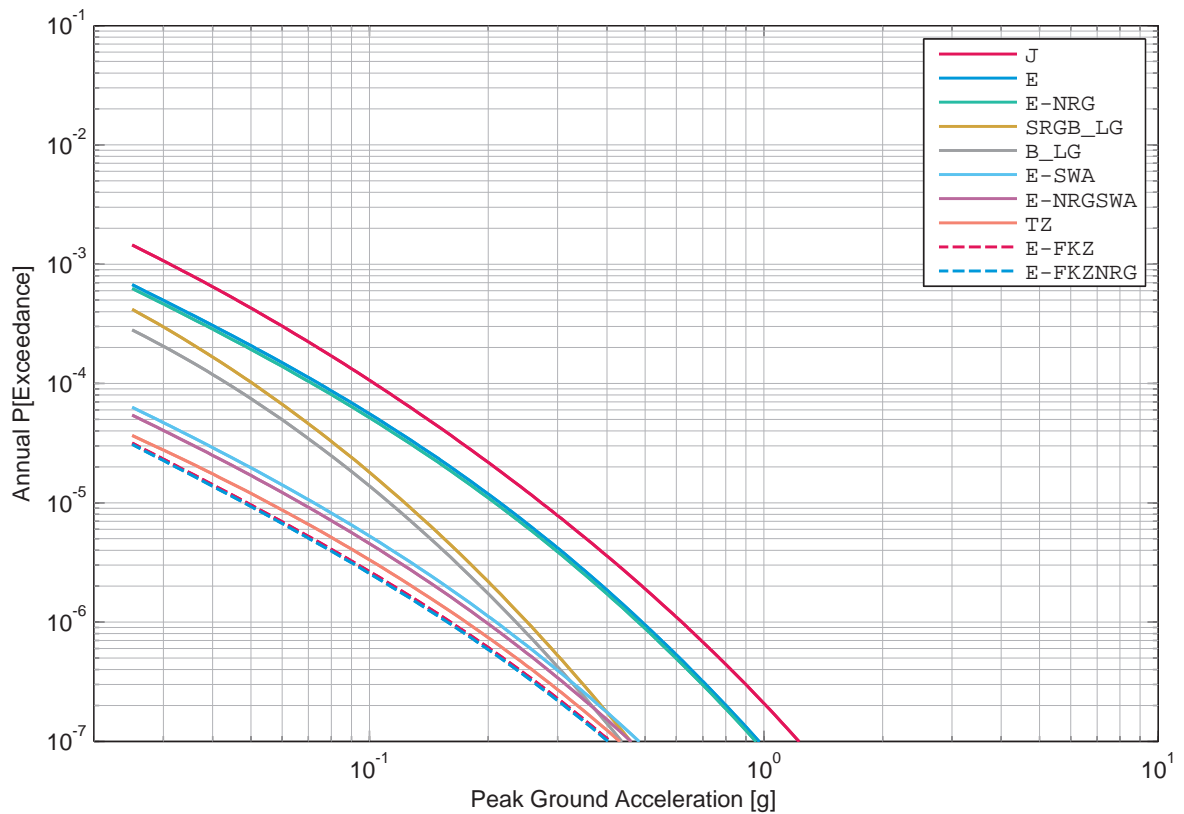


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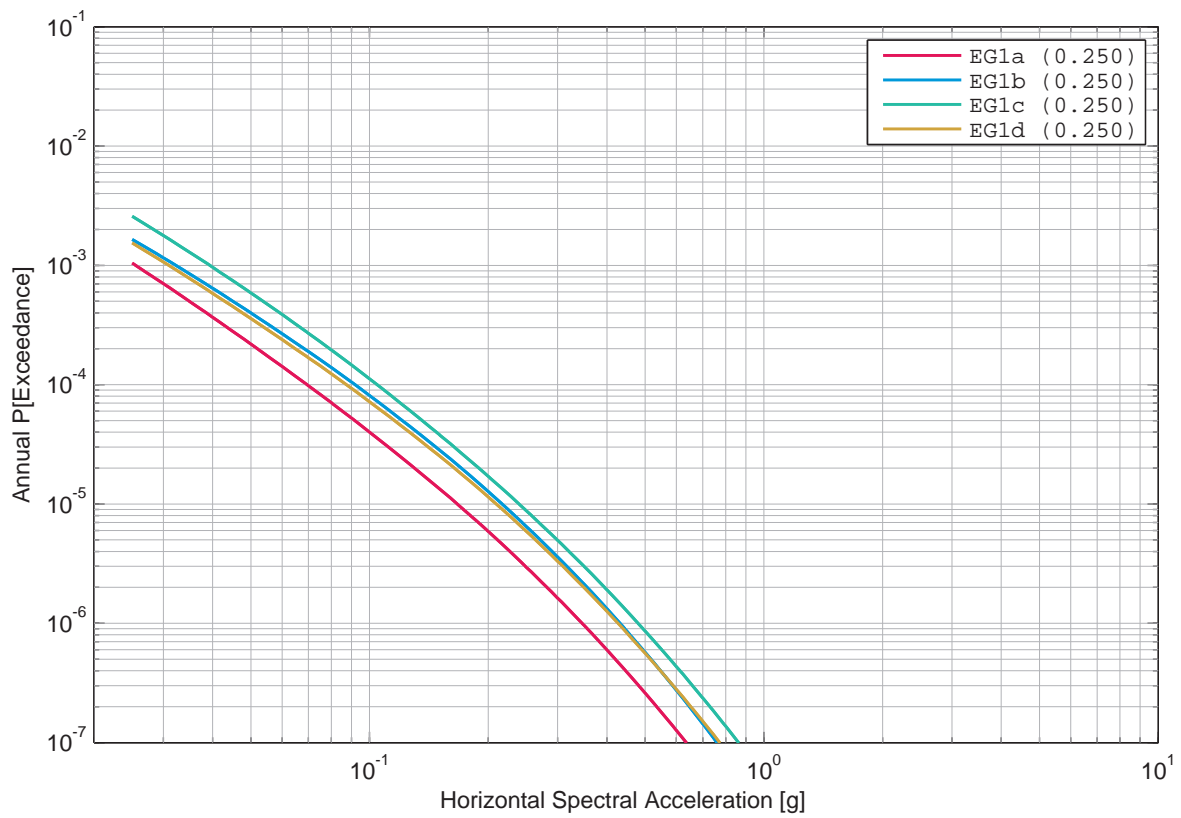


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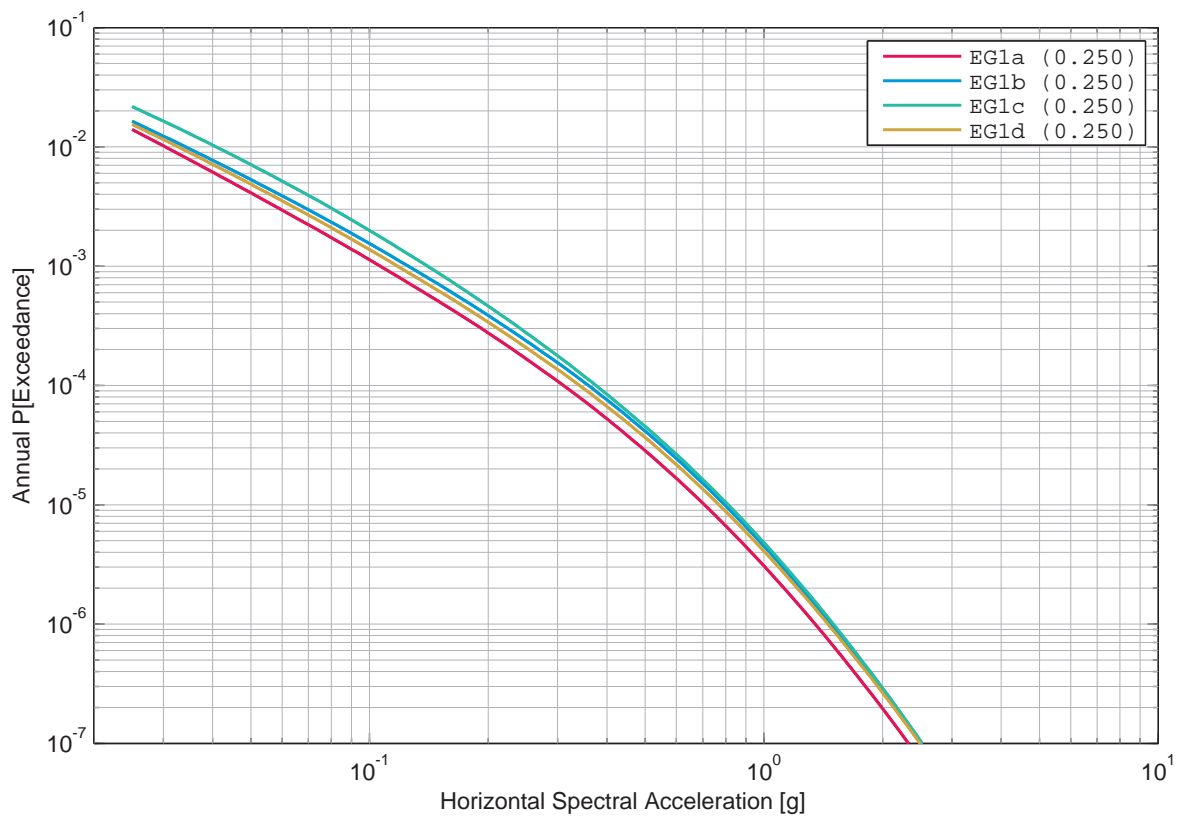


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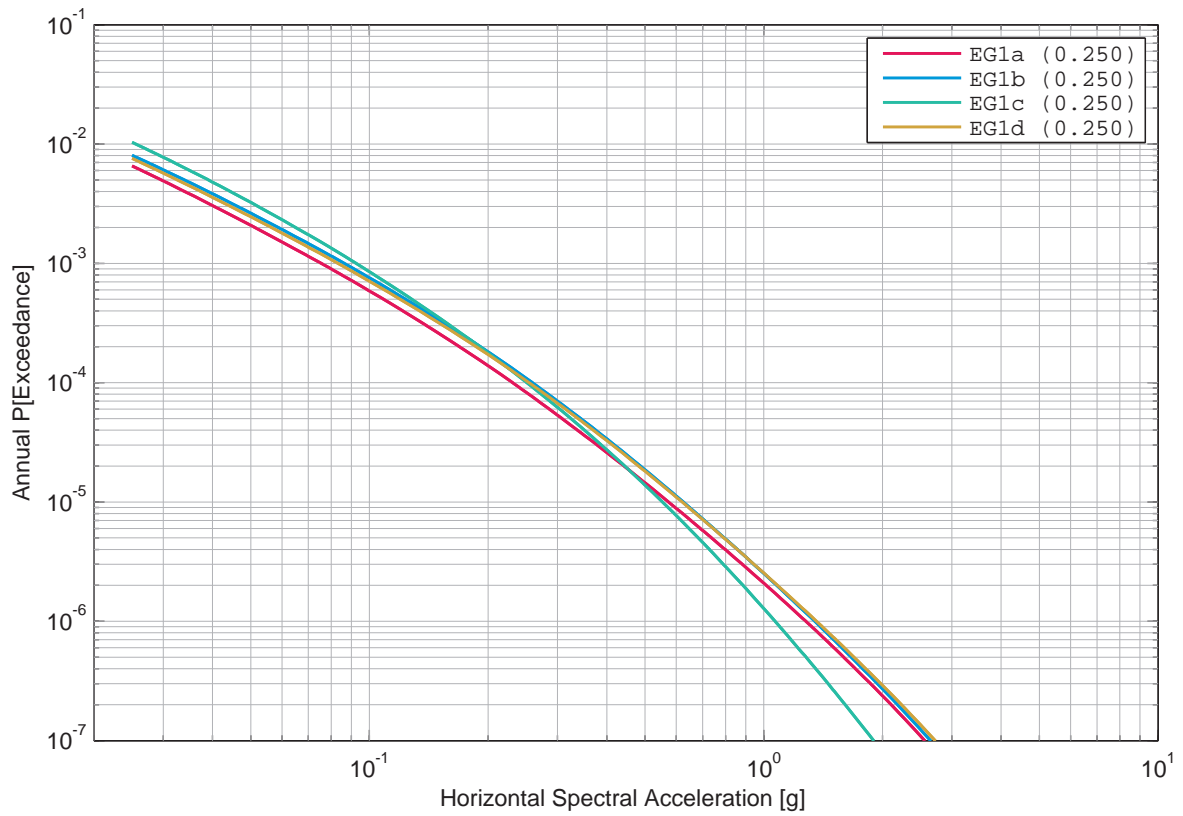


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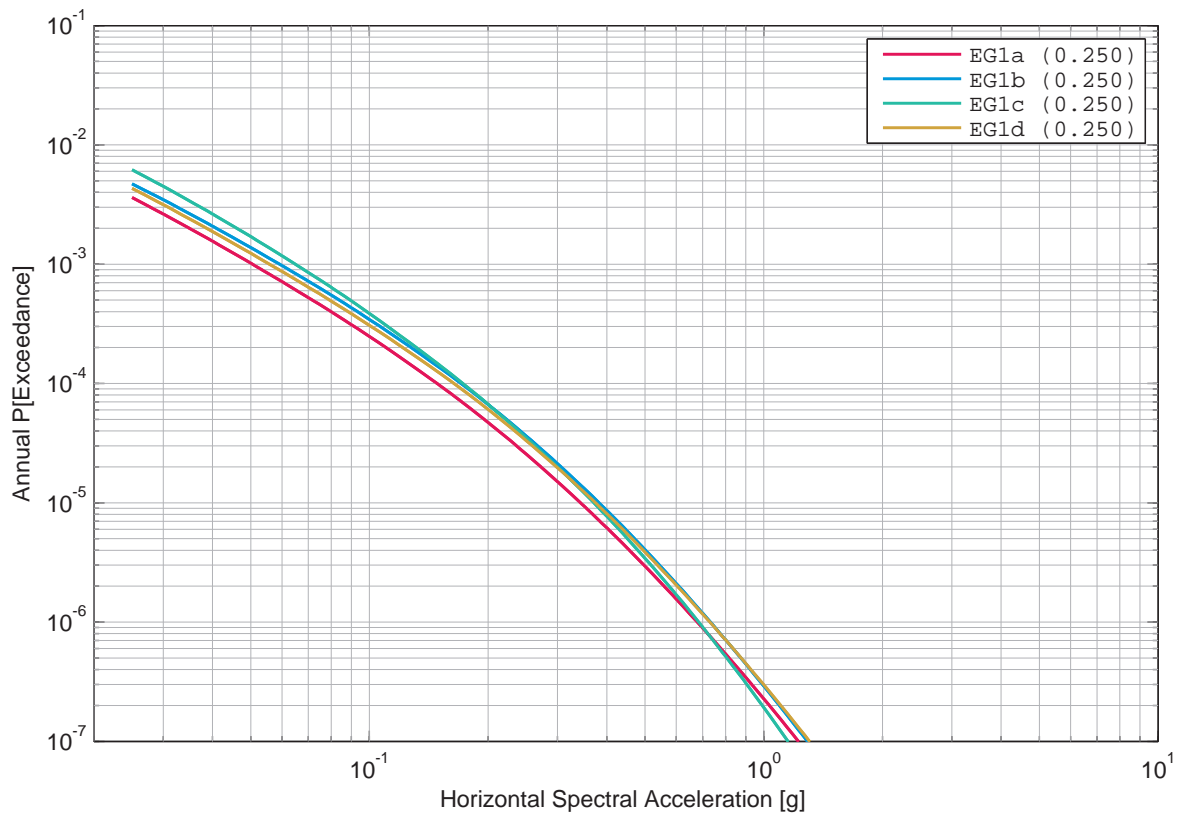


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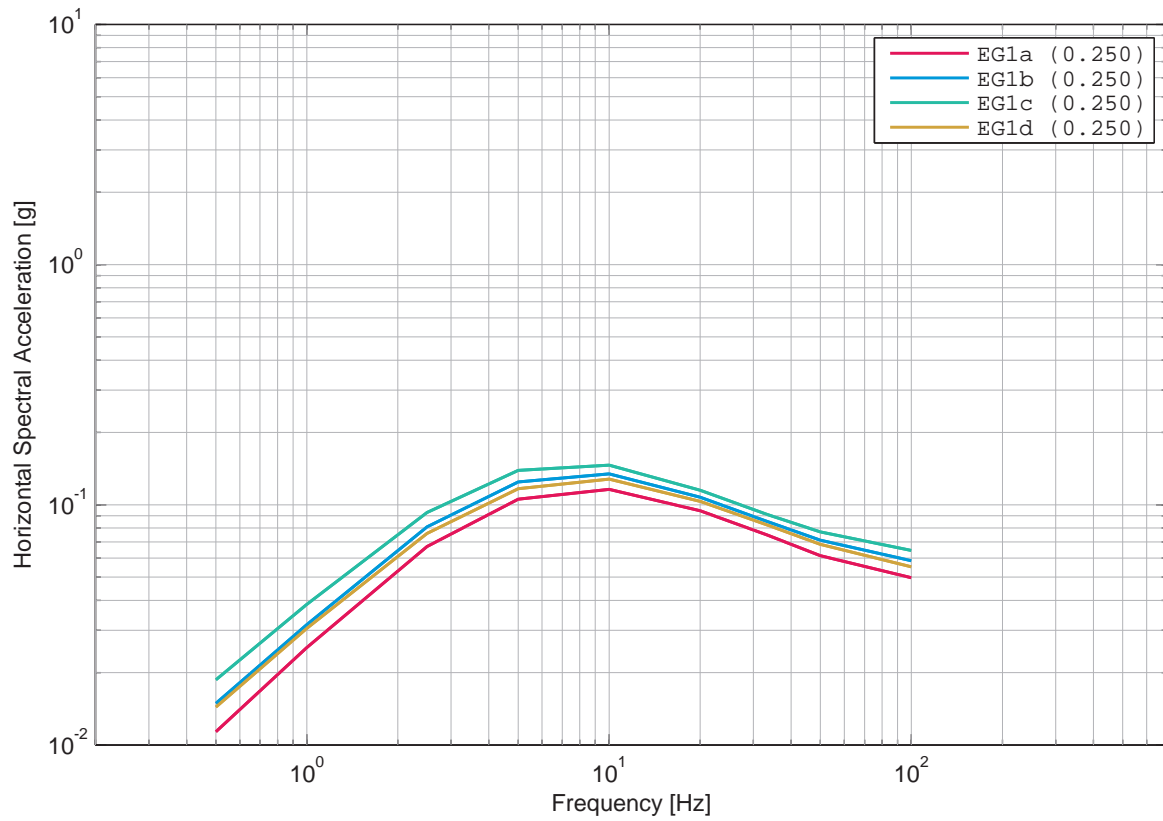


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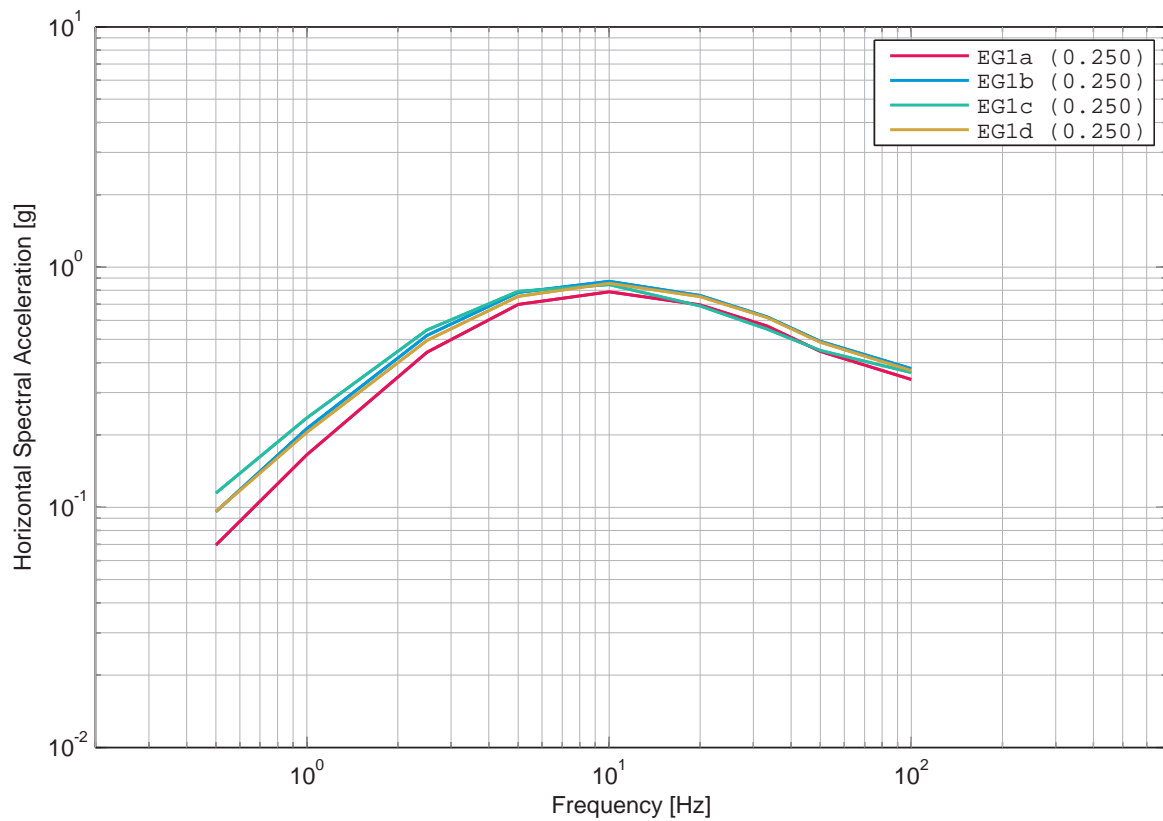


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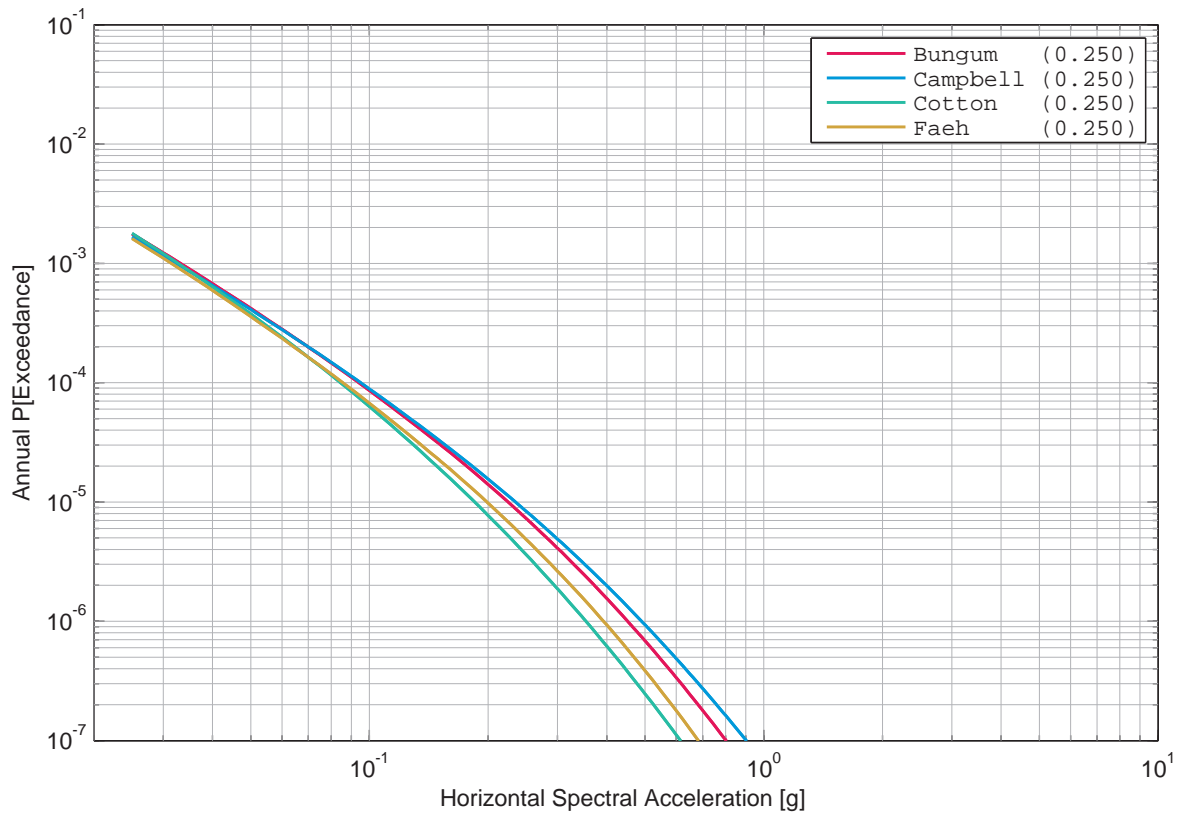


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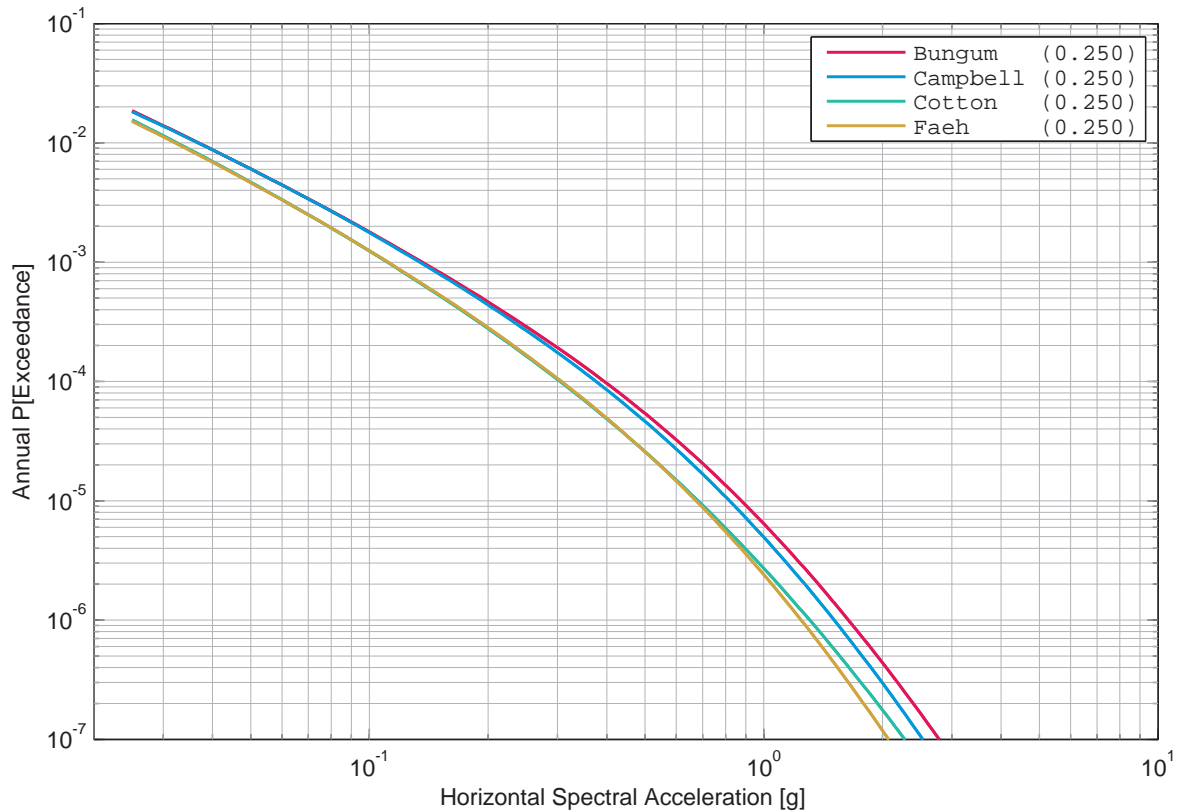


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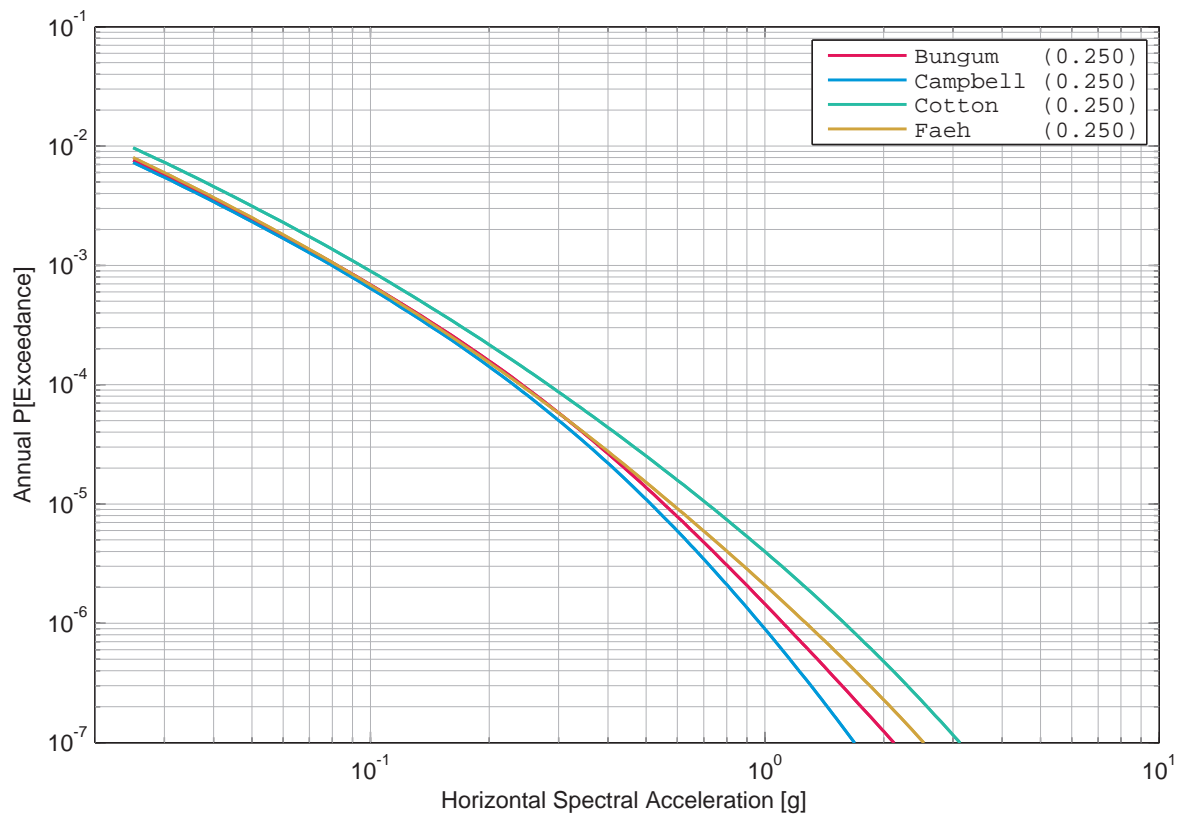


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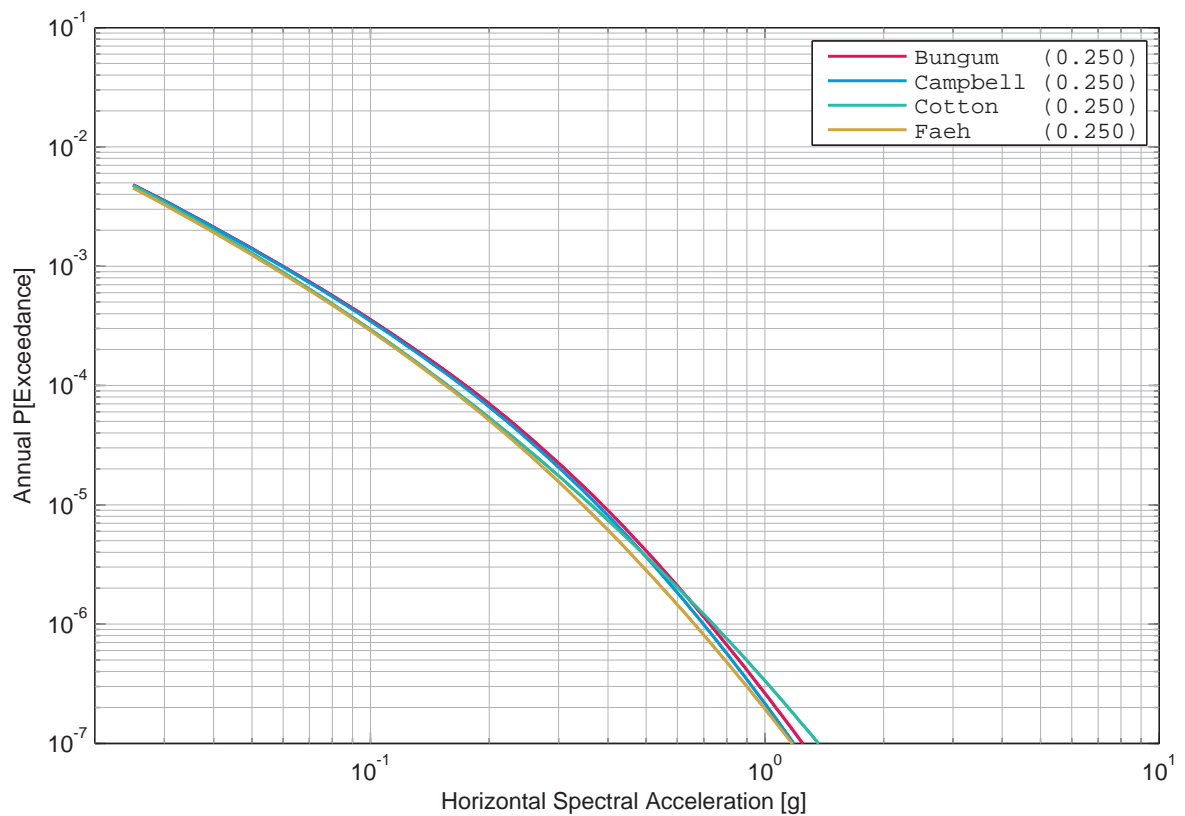


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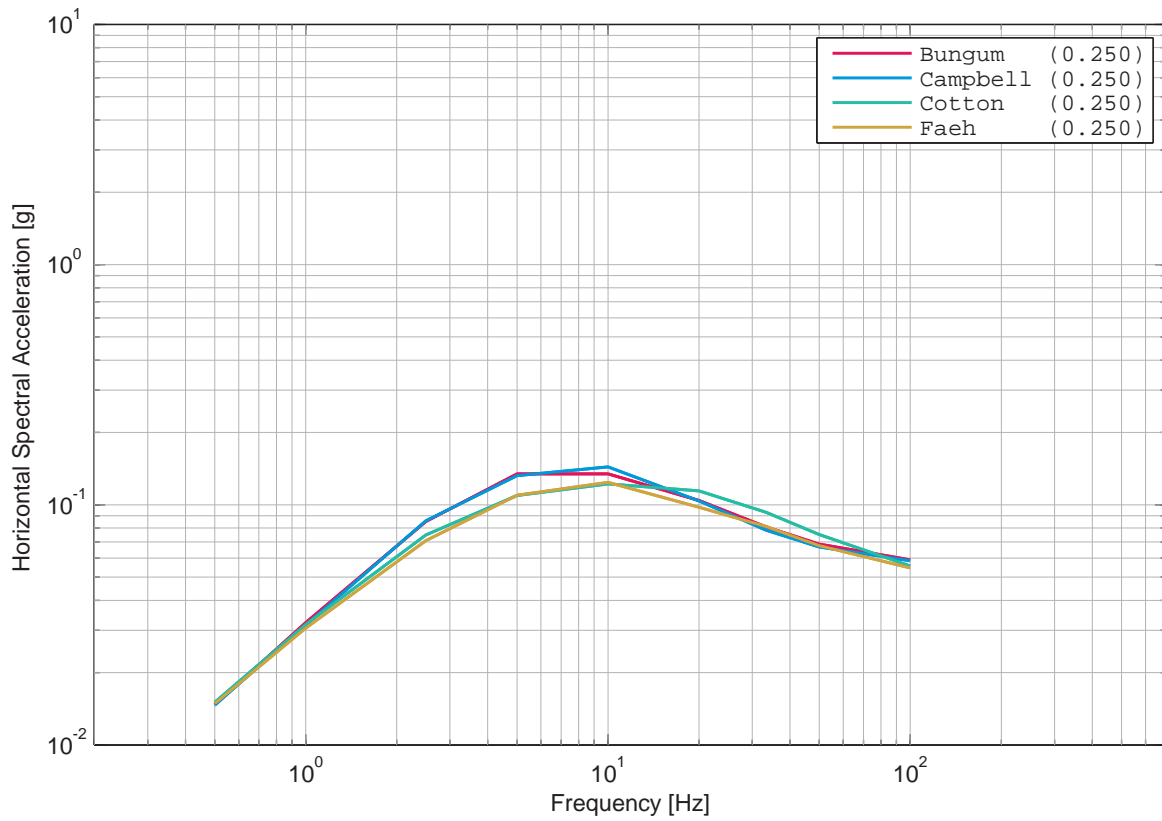


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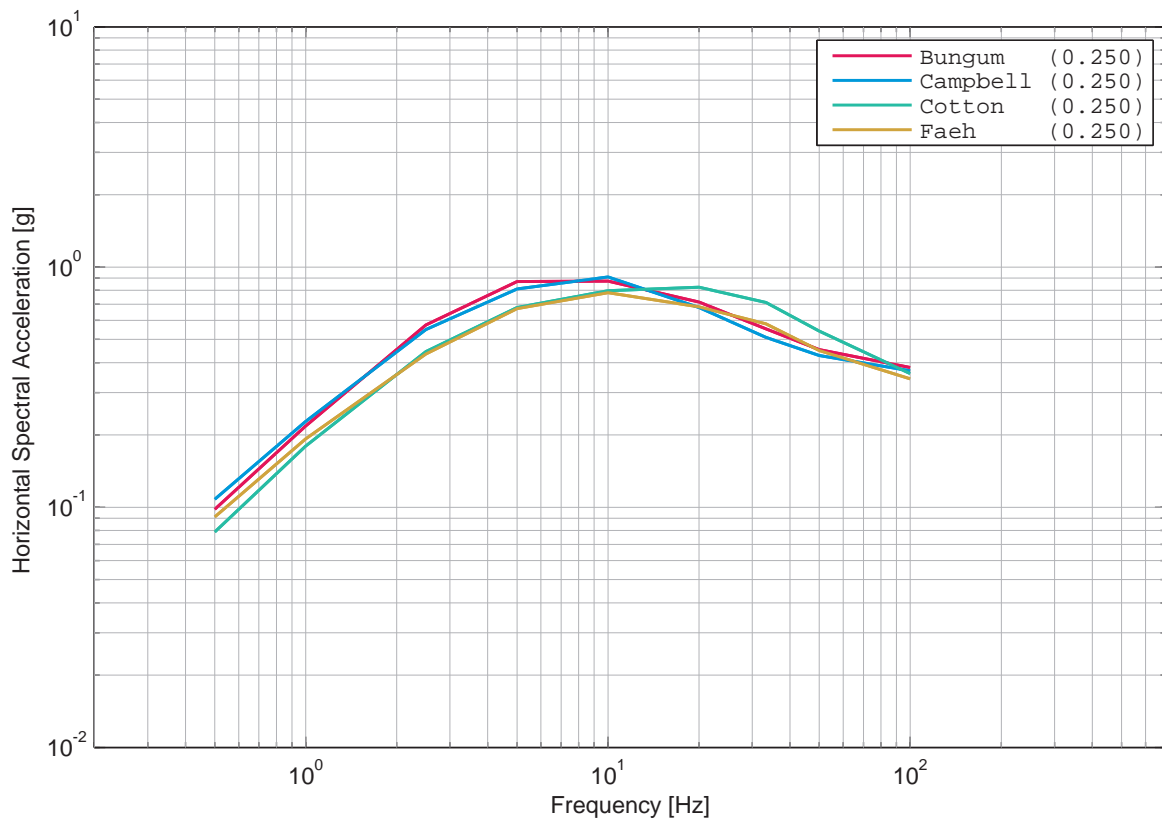


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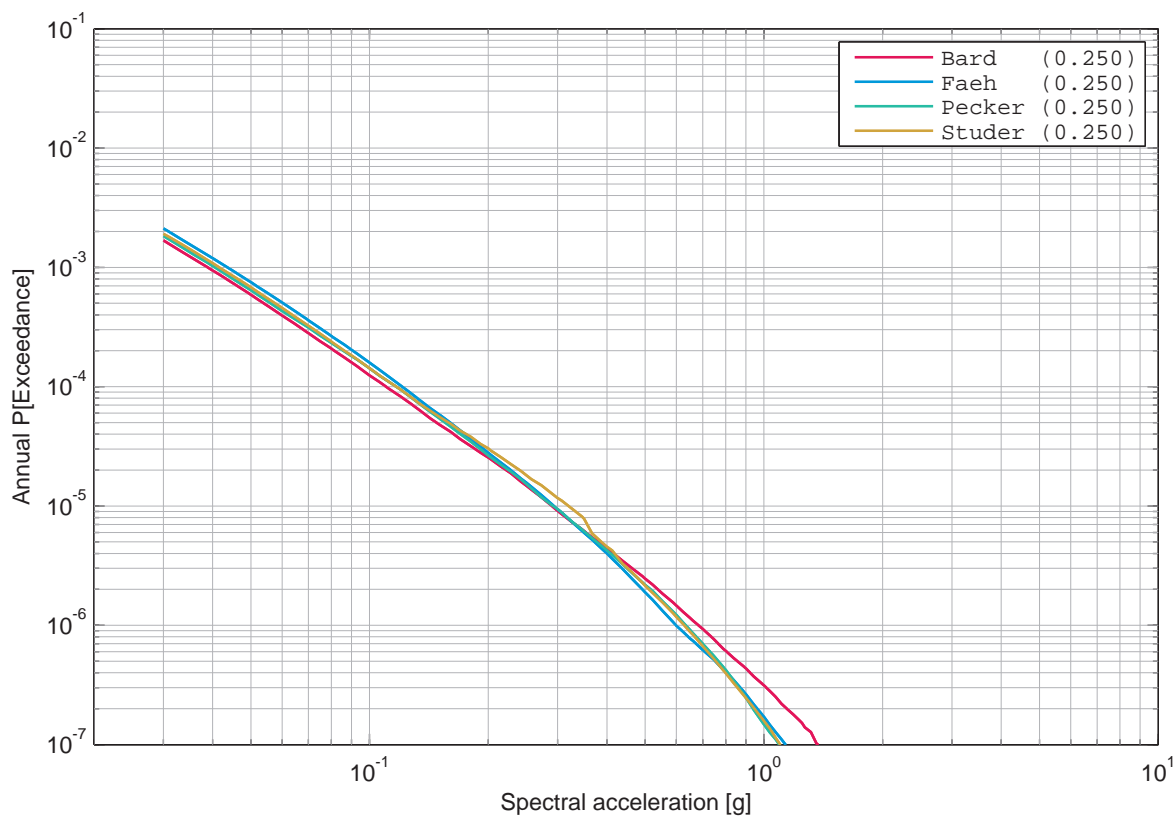


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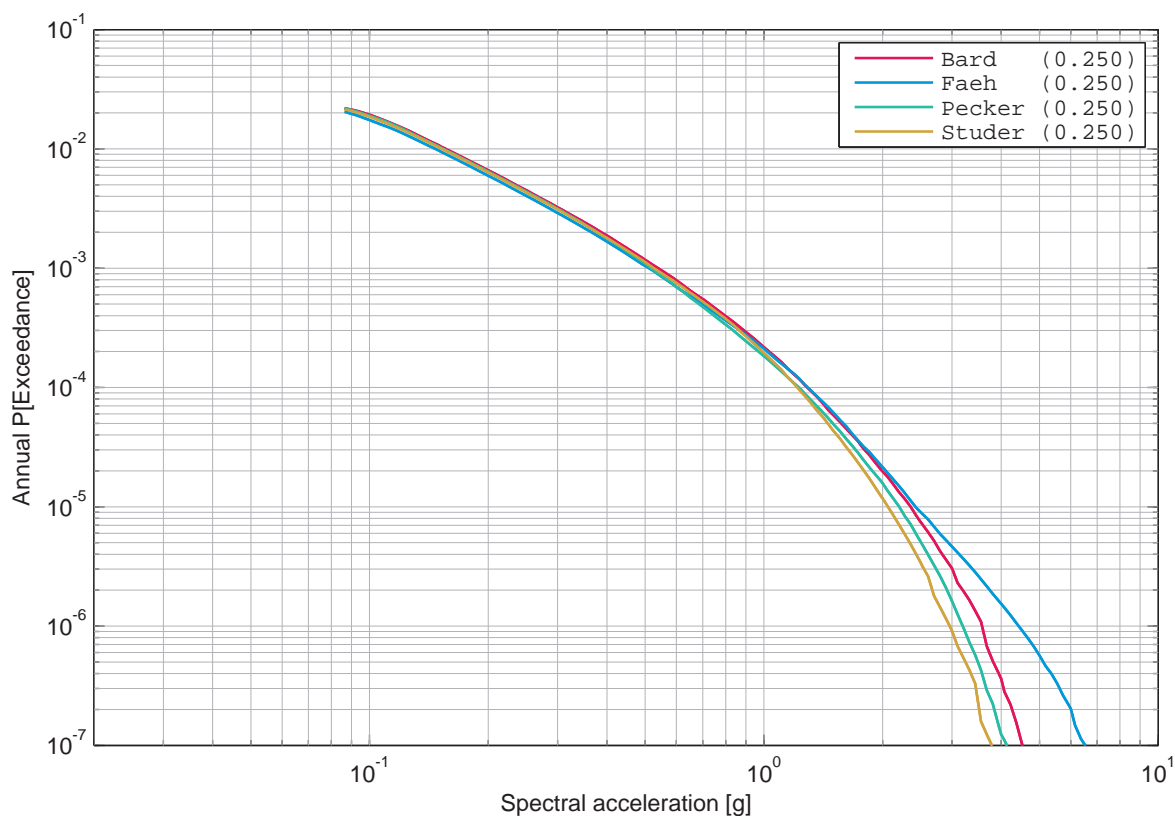


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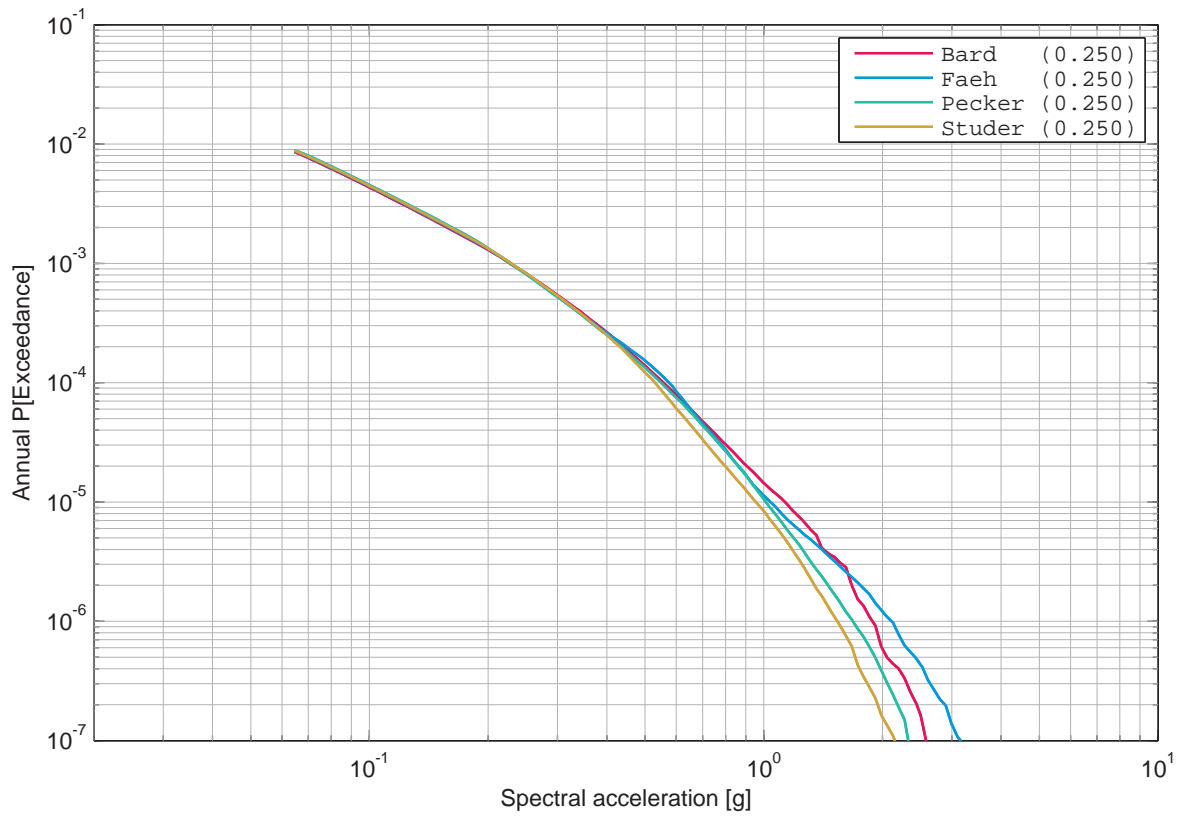


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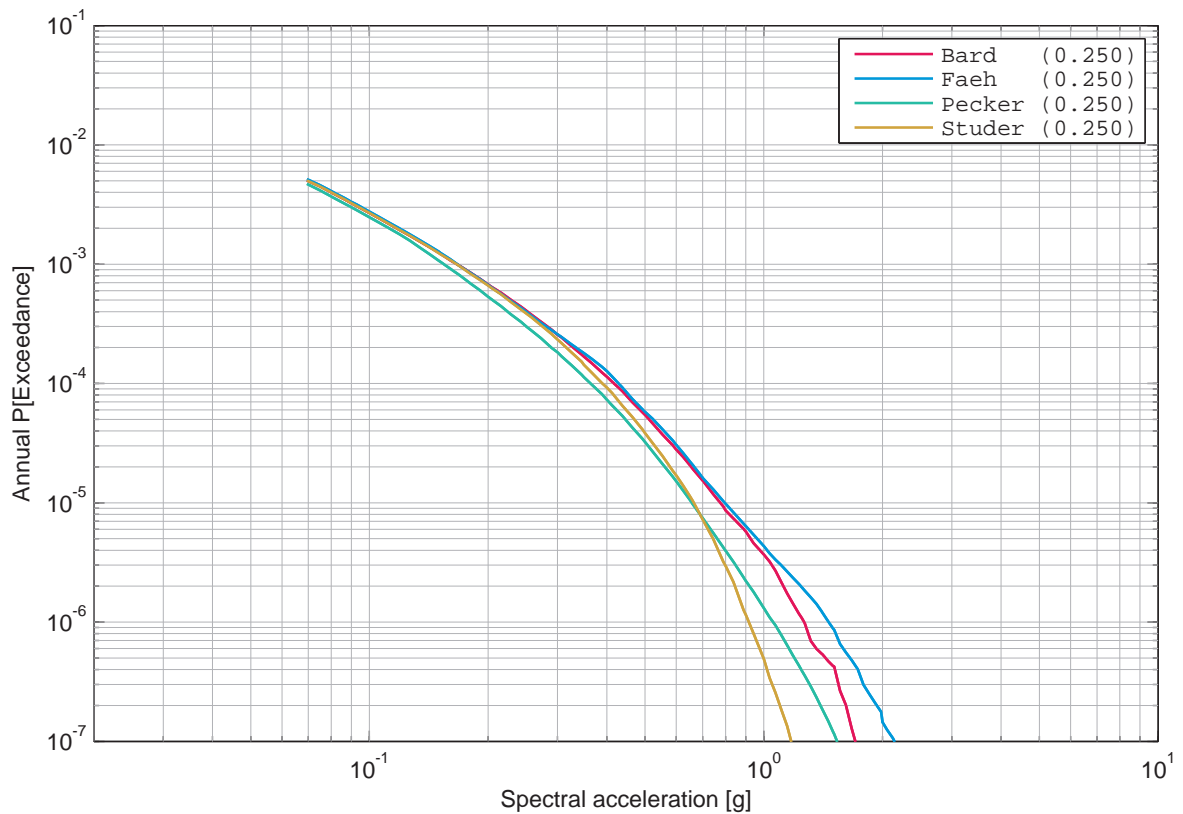


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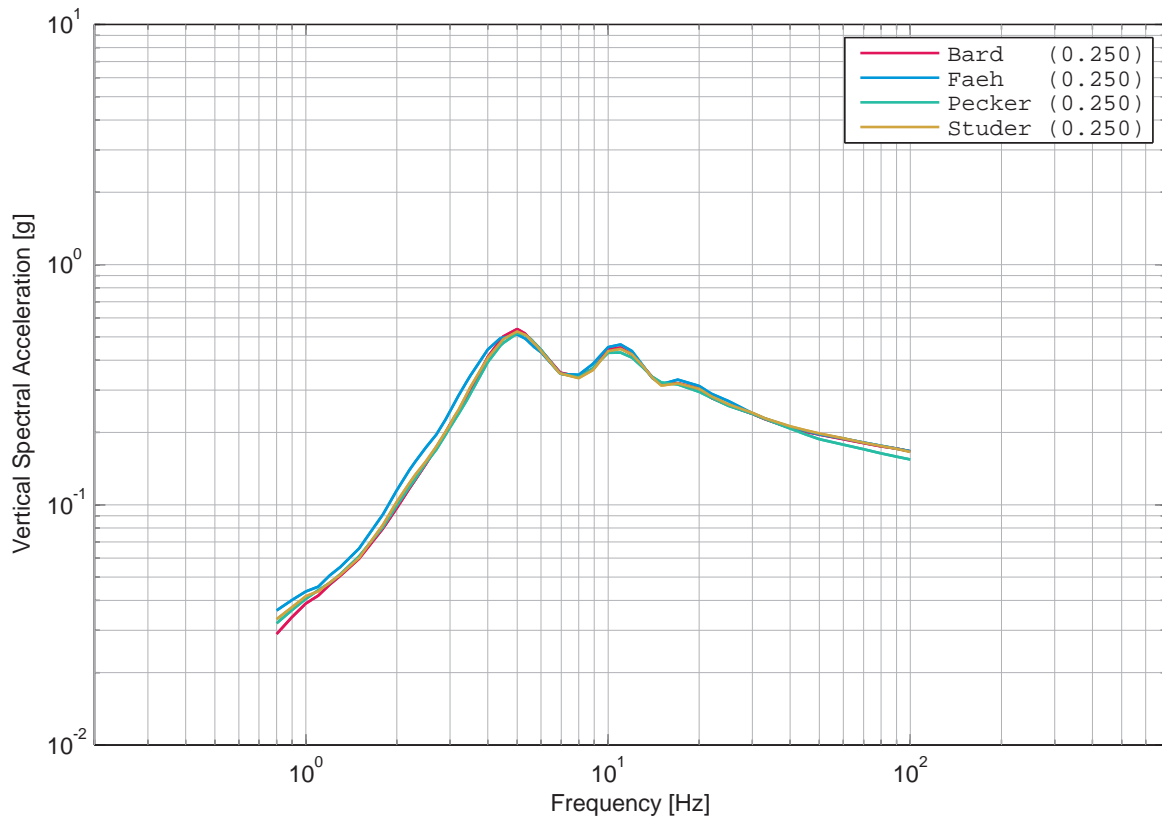


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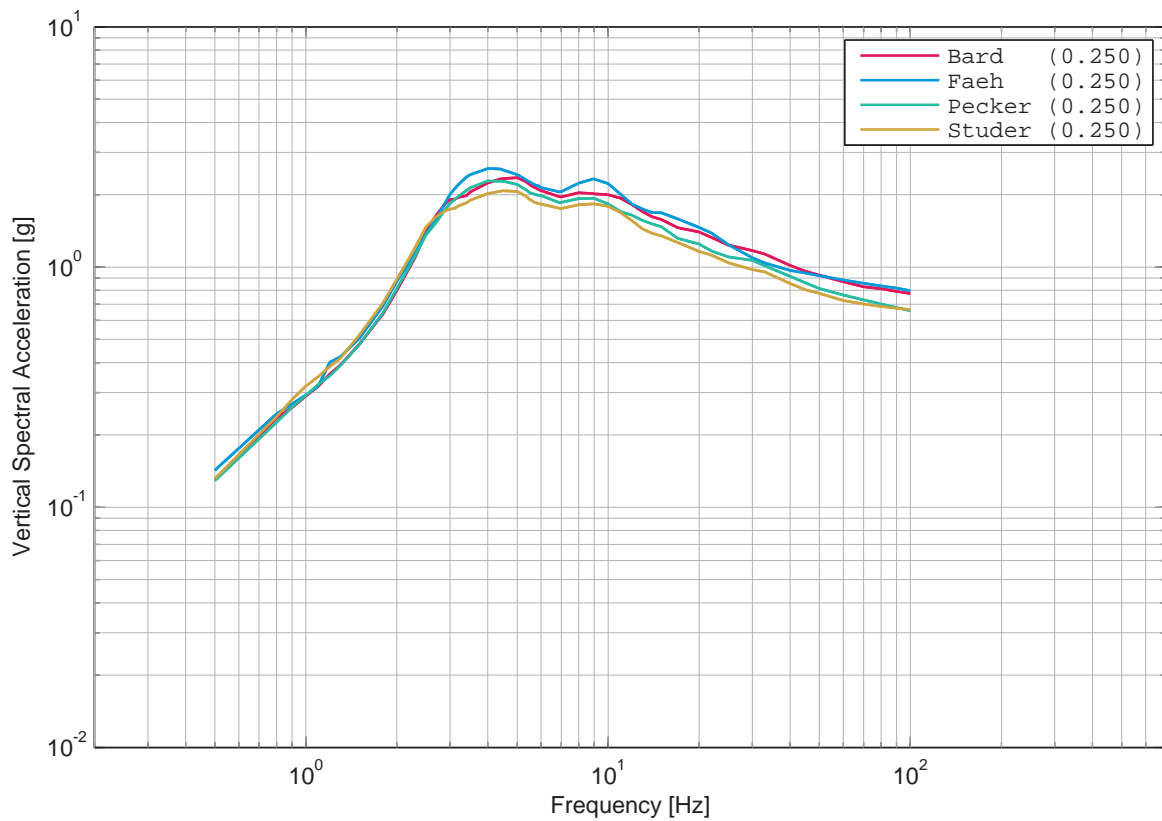


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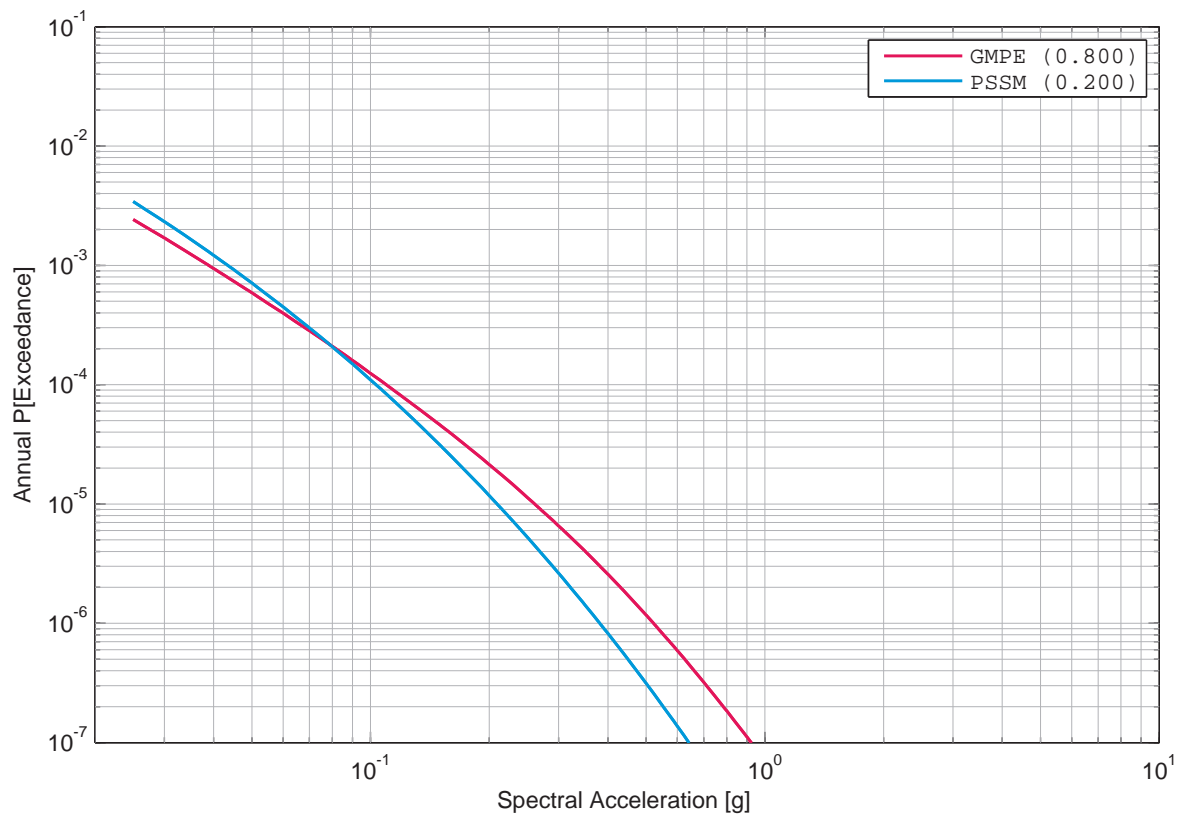


Figure 3.8.1: Gösgen, horizontal component, rock, Bungum's sensitivity to the model category, 1 Hz.

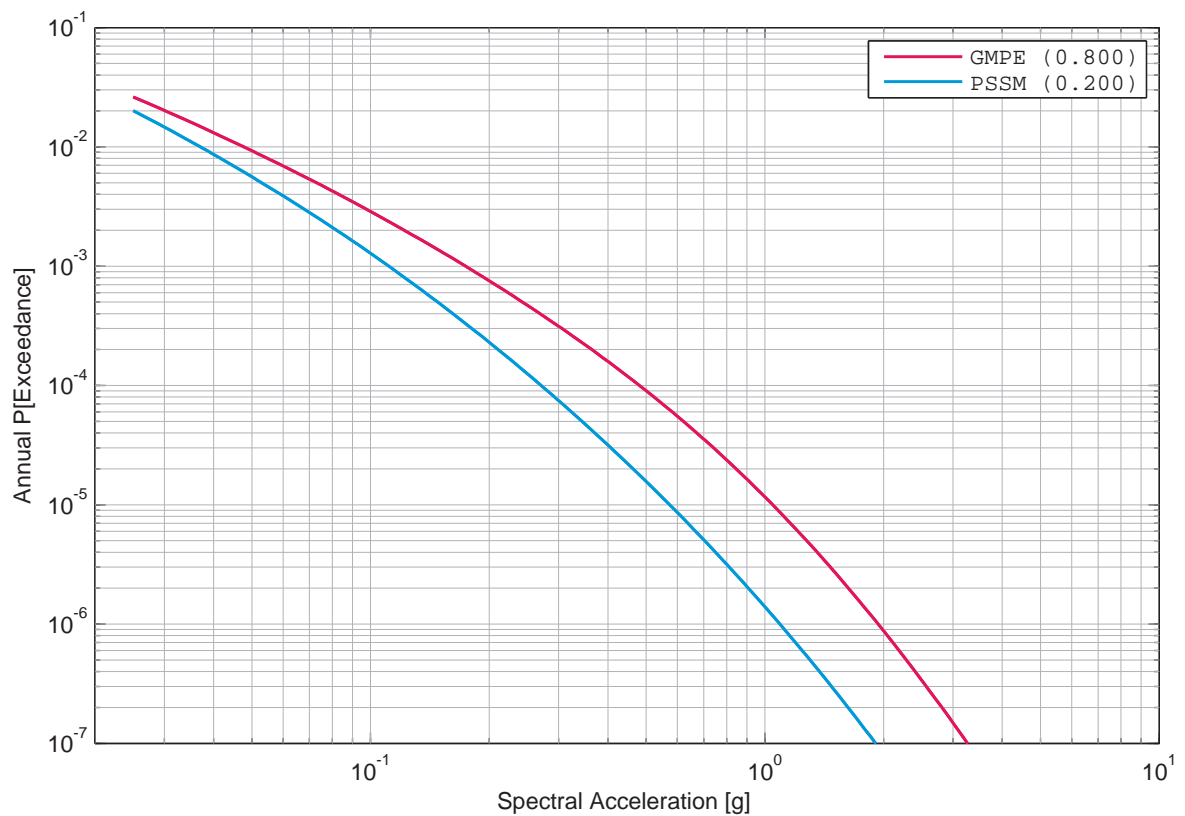


Figure 3.8.2: Gösgen, horizontal component, rock, Bungum's sensitivity to the model category, 5 Hz.

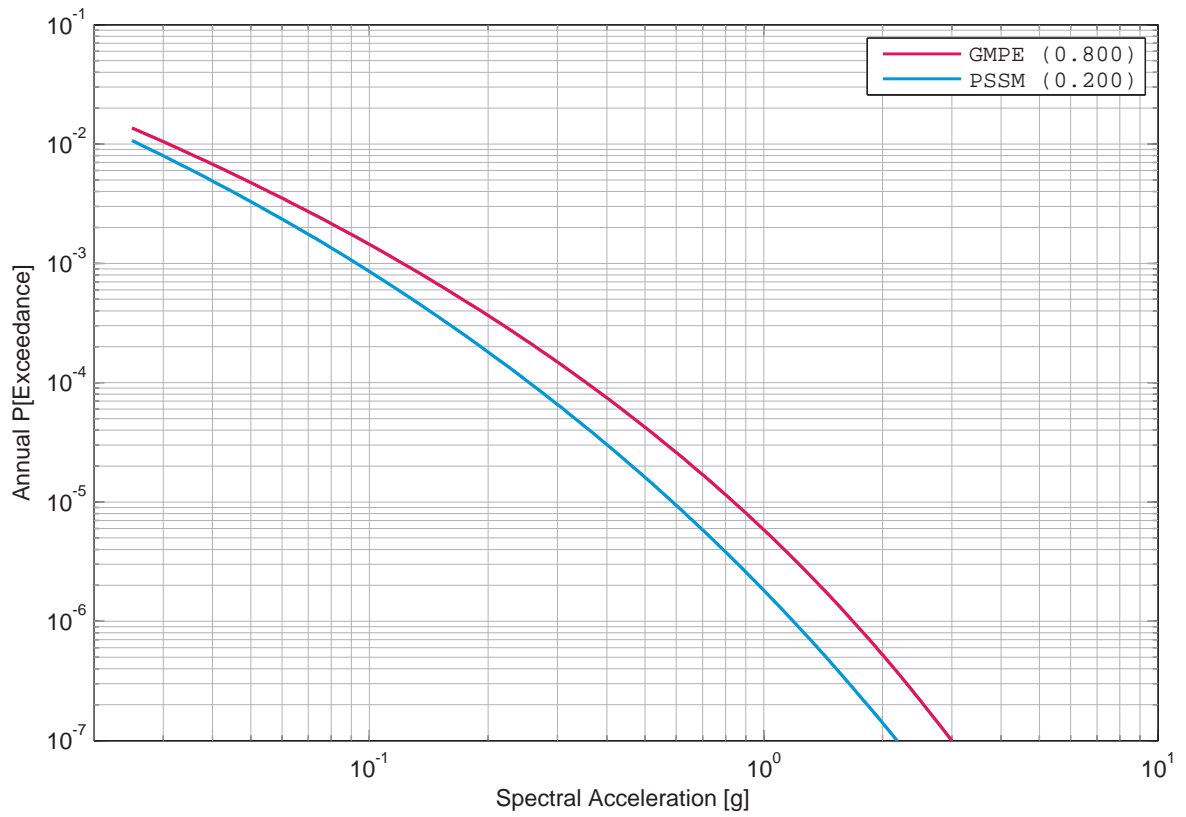


Figure 3.8.3: Gösgen, horizontal component, rock, Bungum’s sensitivity to the model category, 33 Hz.

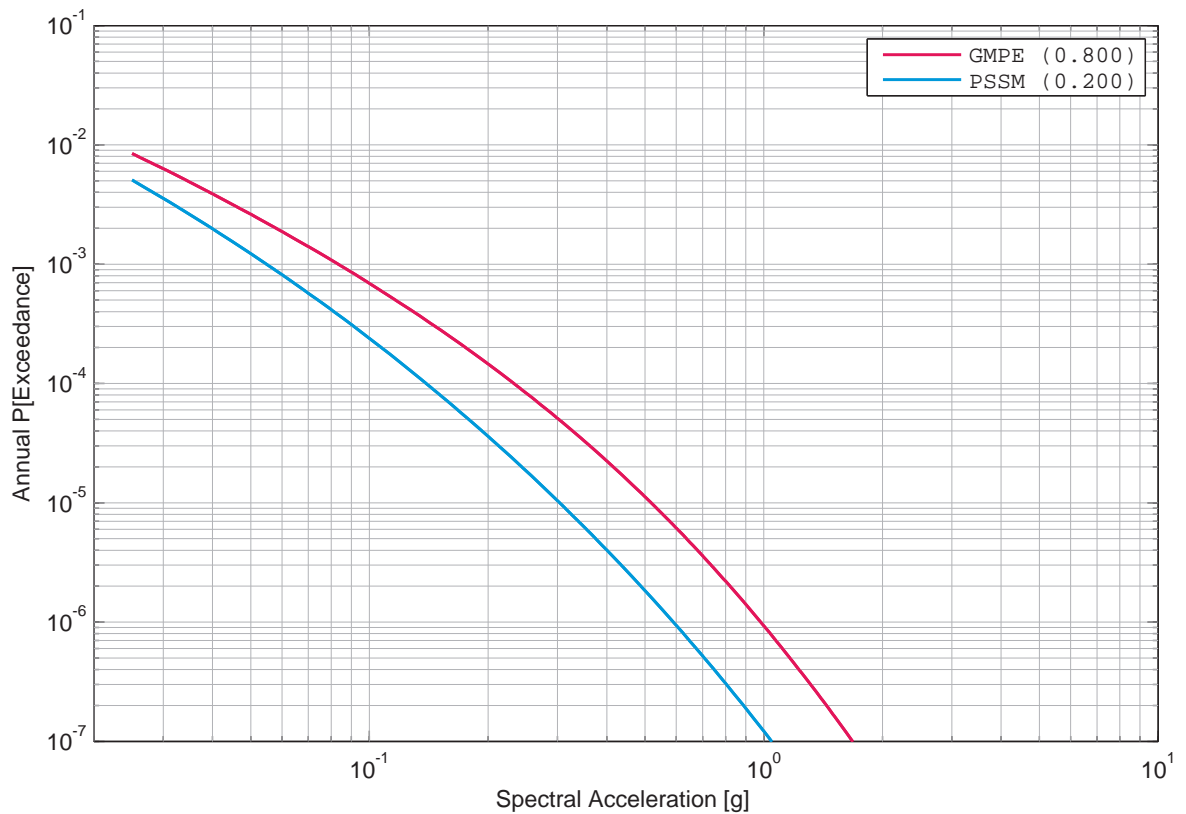


Figure 3.8.4: Gösgen, horizontal component, rock, Bungum’s sensitivity to the model category, 100 Hz.

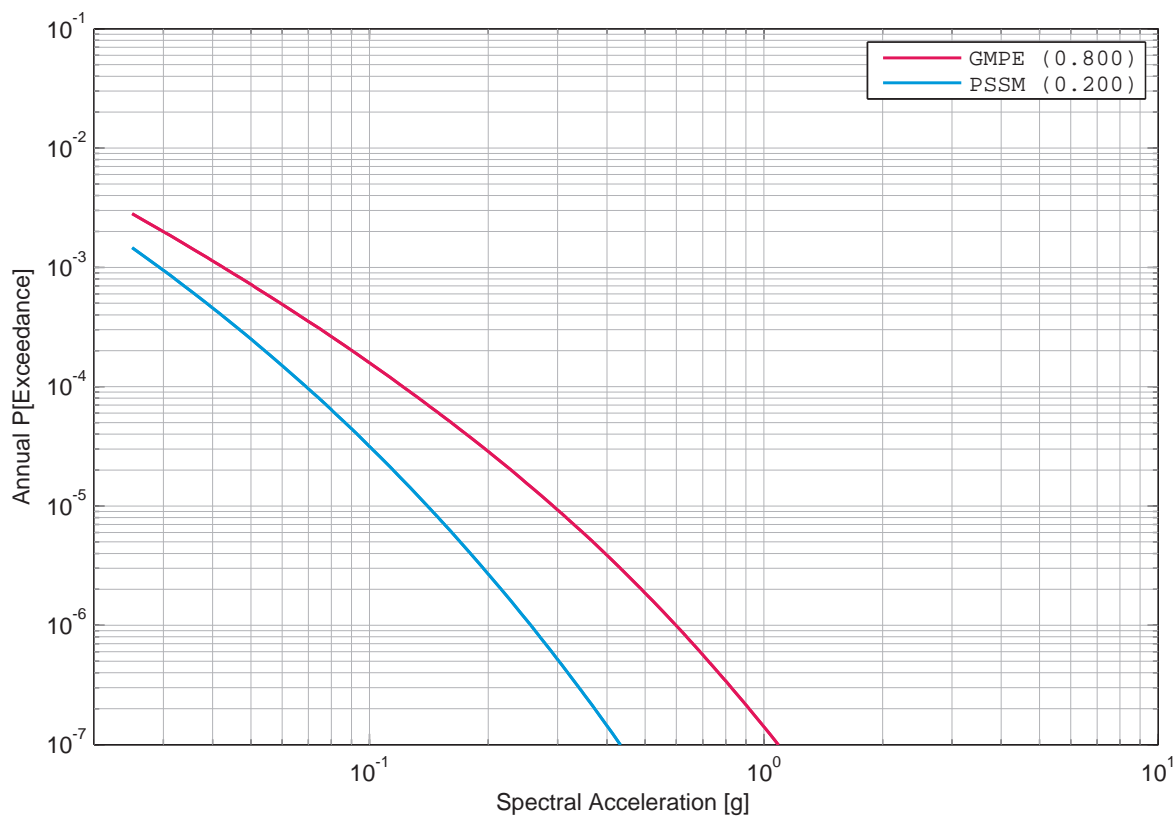


Figure 3.8.5: Gösgen, horizontal component, rock, Campbell's sensitivity to the model category, 1 Hz.

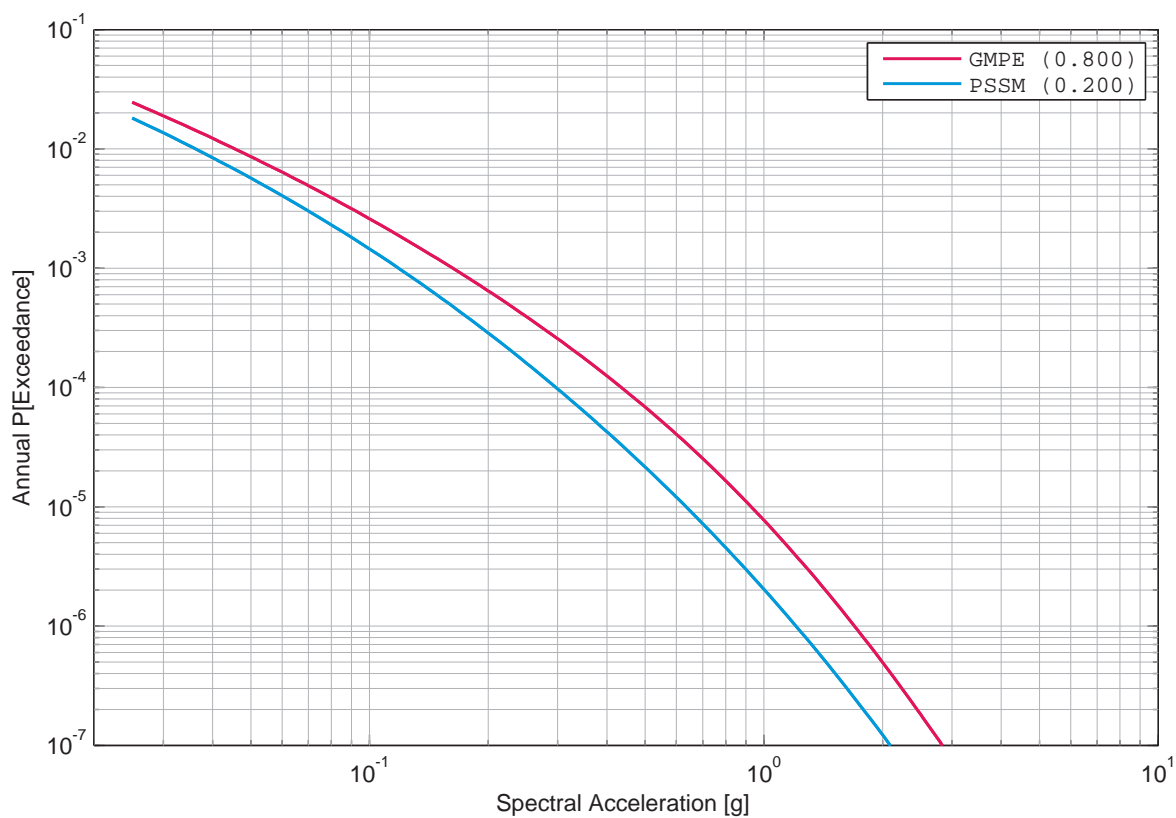


Figure 3.8.6: Gösgen, horizontal component, rock, Campbell's sensitivity to the model category, 5 Hz.

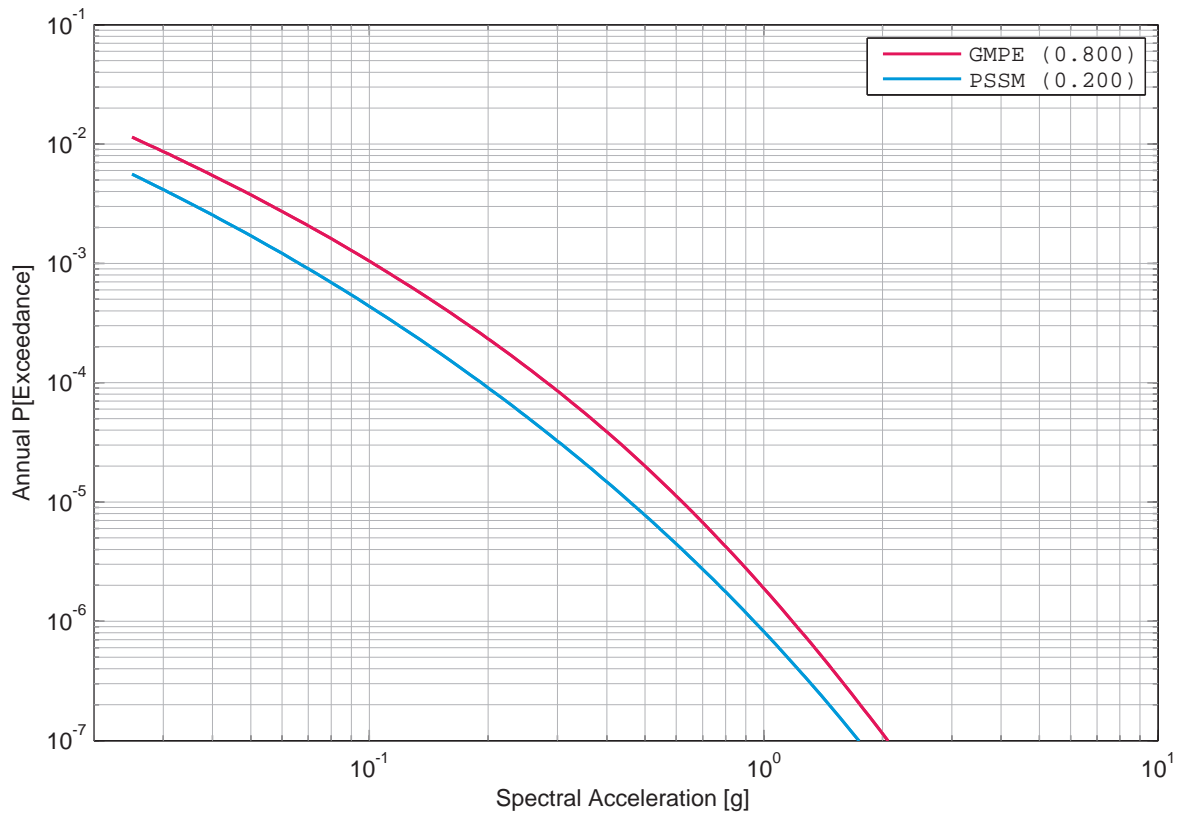


Figure 3.8.7: Gösgen, horizontal component, rock, Campbell's sensitivity to the model category, 33 Hz.

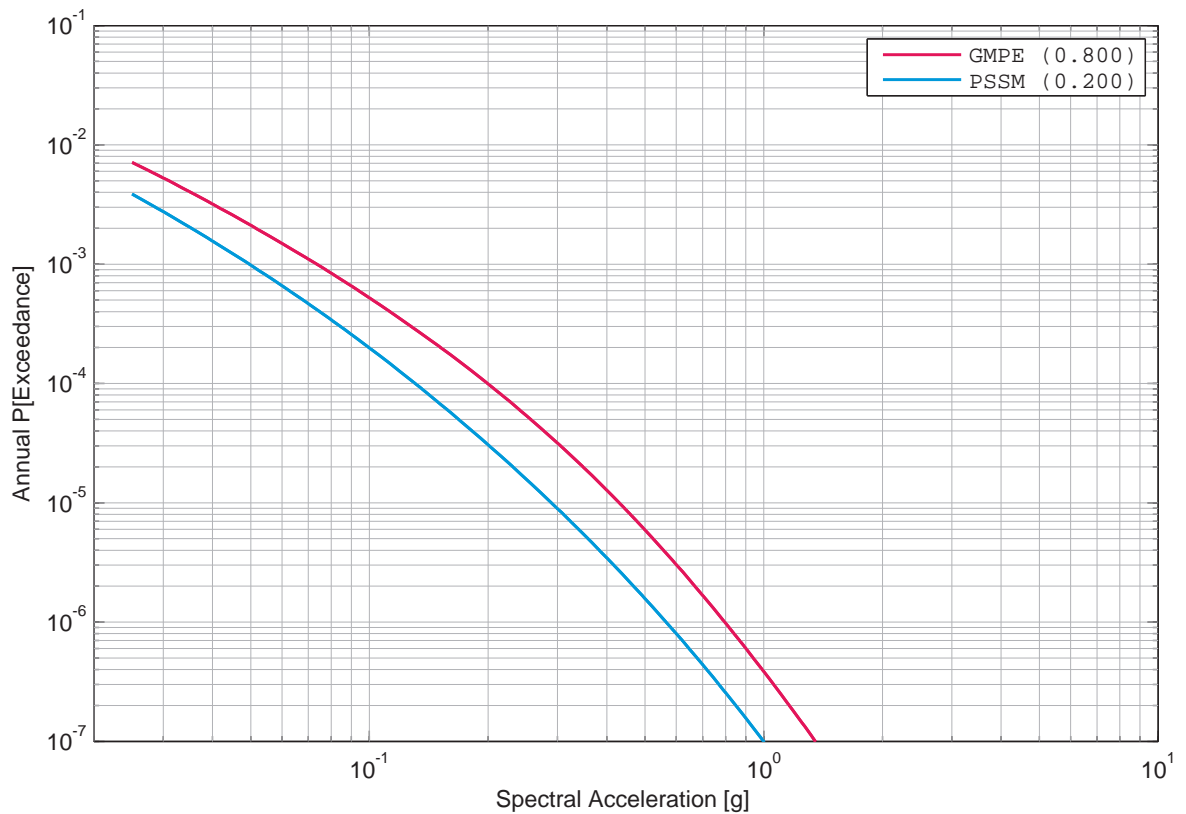


Figure 3.8.8: Gösgen, horizontal component, rock, Campbell's sensitivity to the model category, 100 Hz.

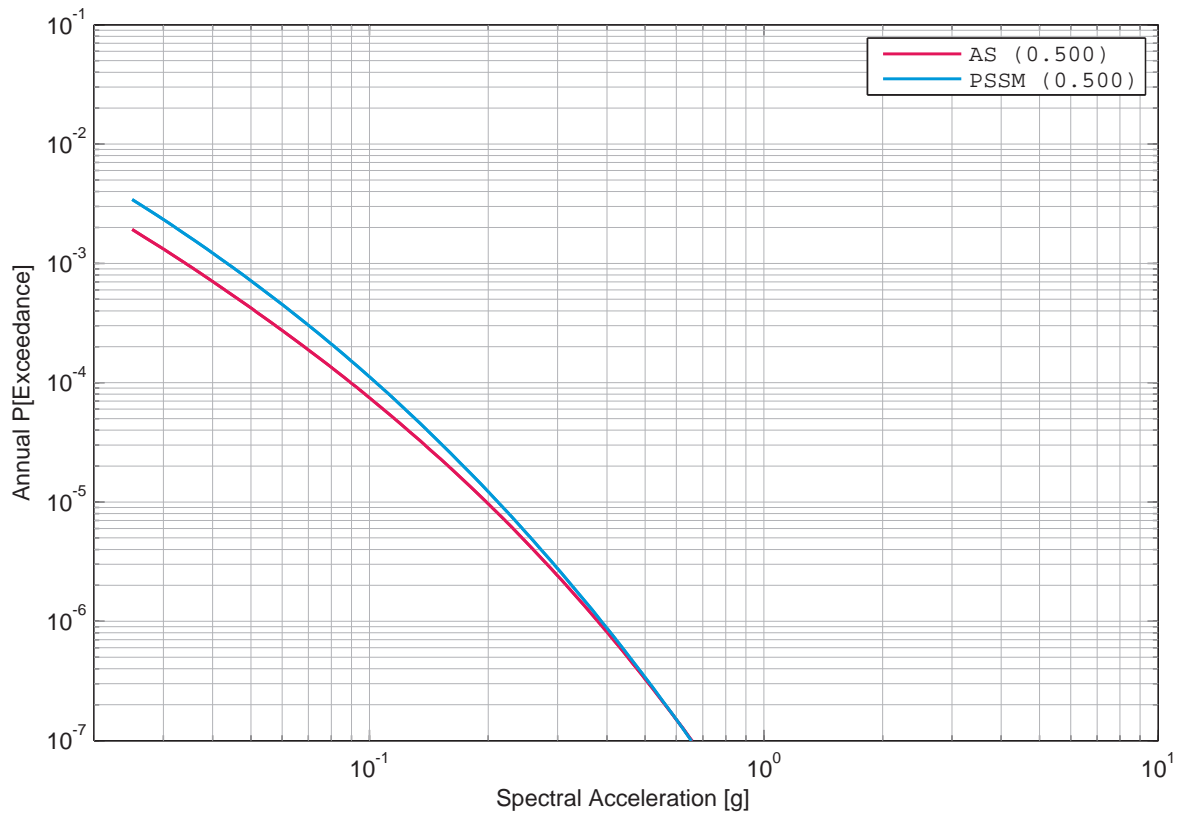


Figure 3.8.9: Gösgen, horizontal component, rock, Cotton’s sensitivity to the model category, 1 Hz.

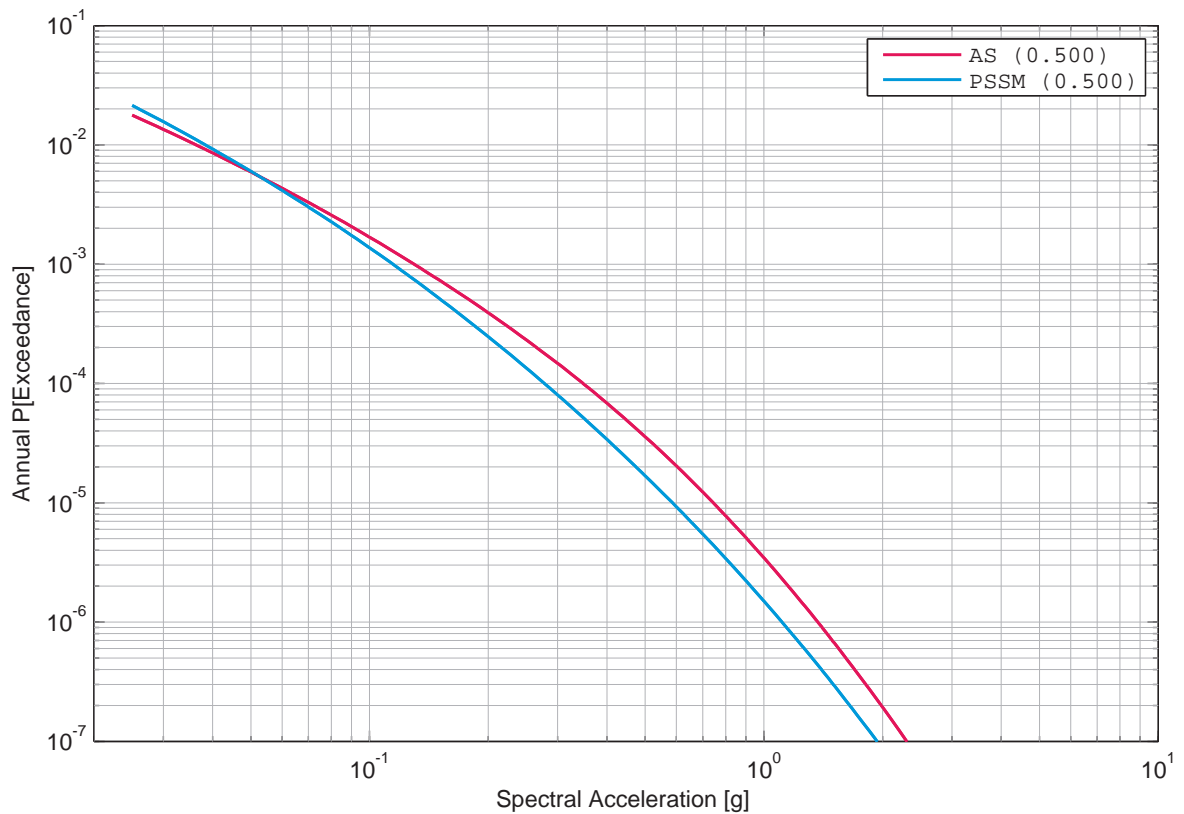


Figure 3.8.10: Gösgen, horizontal component, rock, Cotton’s sensitivity to the model category, 5 Hz.

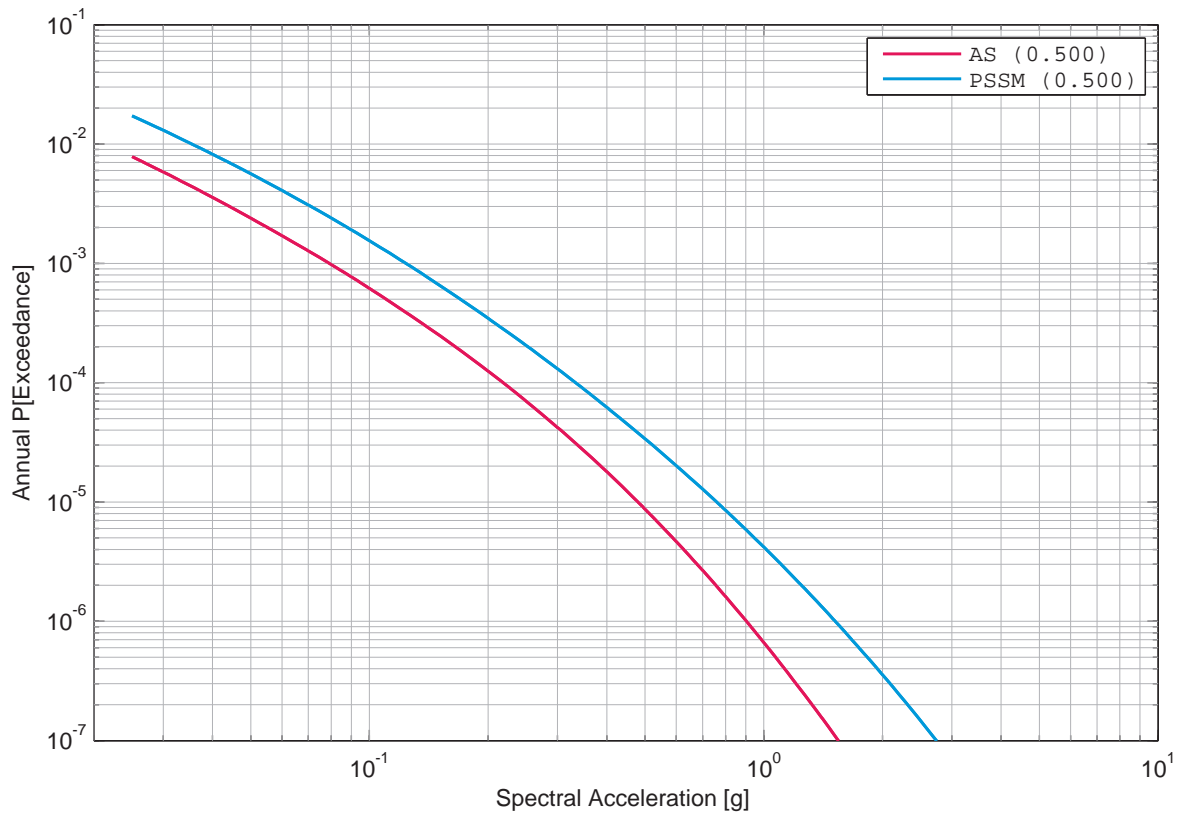


Figure 3.8.11: Gösgen, horizontal component, rock, Cotton’s sensitivity to the model category, 33 Hz.

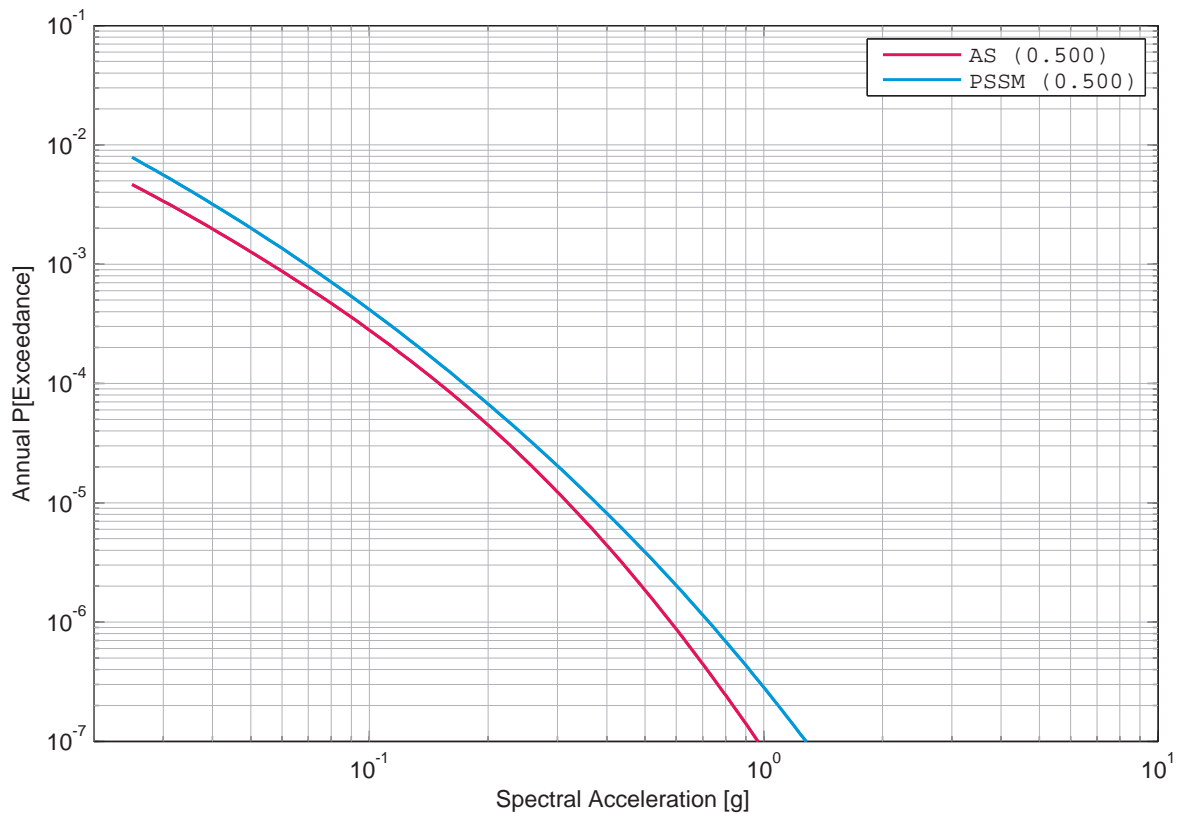


Figure 3.8.12: Gösgen, horizontal component, rock, Cotton’s sensitivity to the model category, 100 Hz.

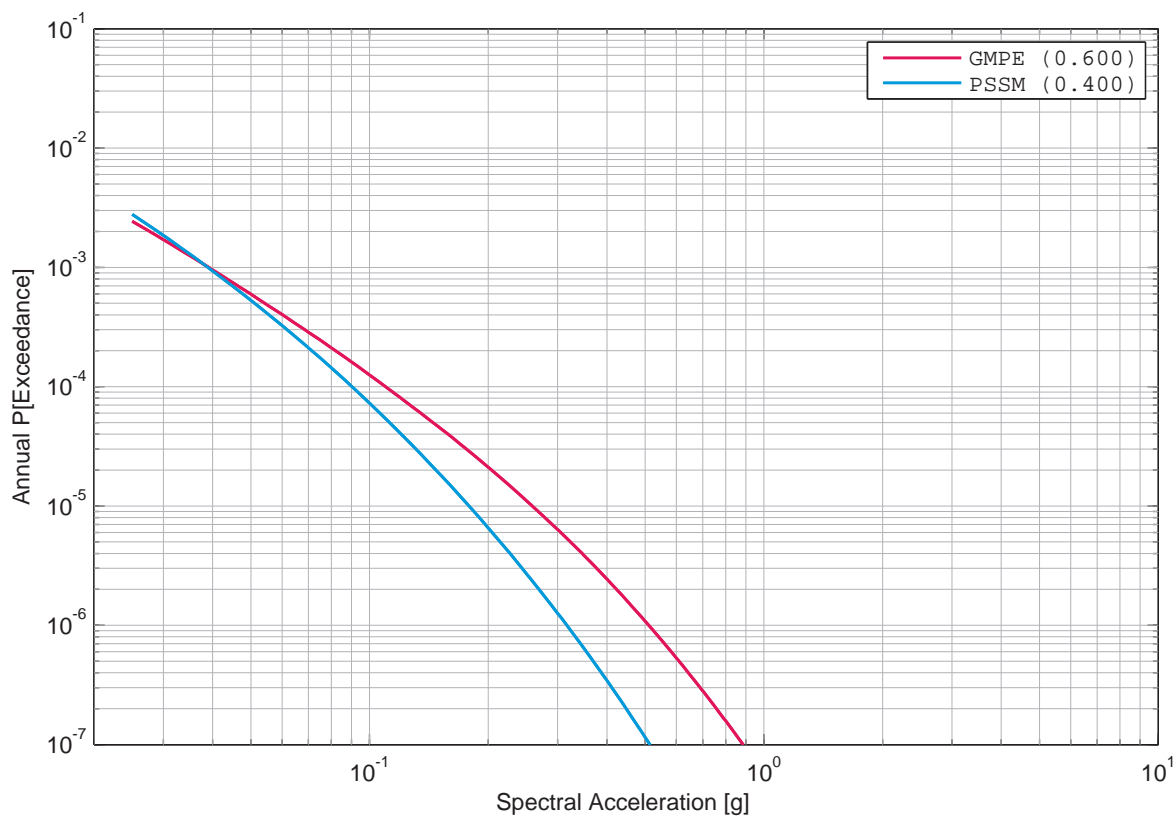


Figure 3.8.13: Gösgen, horizontal component, rock, Faeh's sensitivity to the model category, 1 Hz.

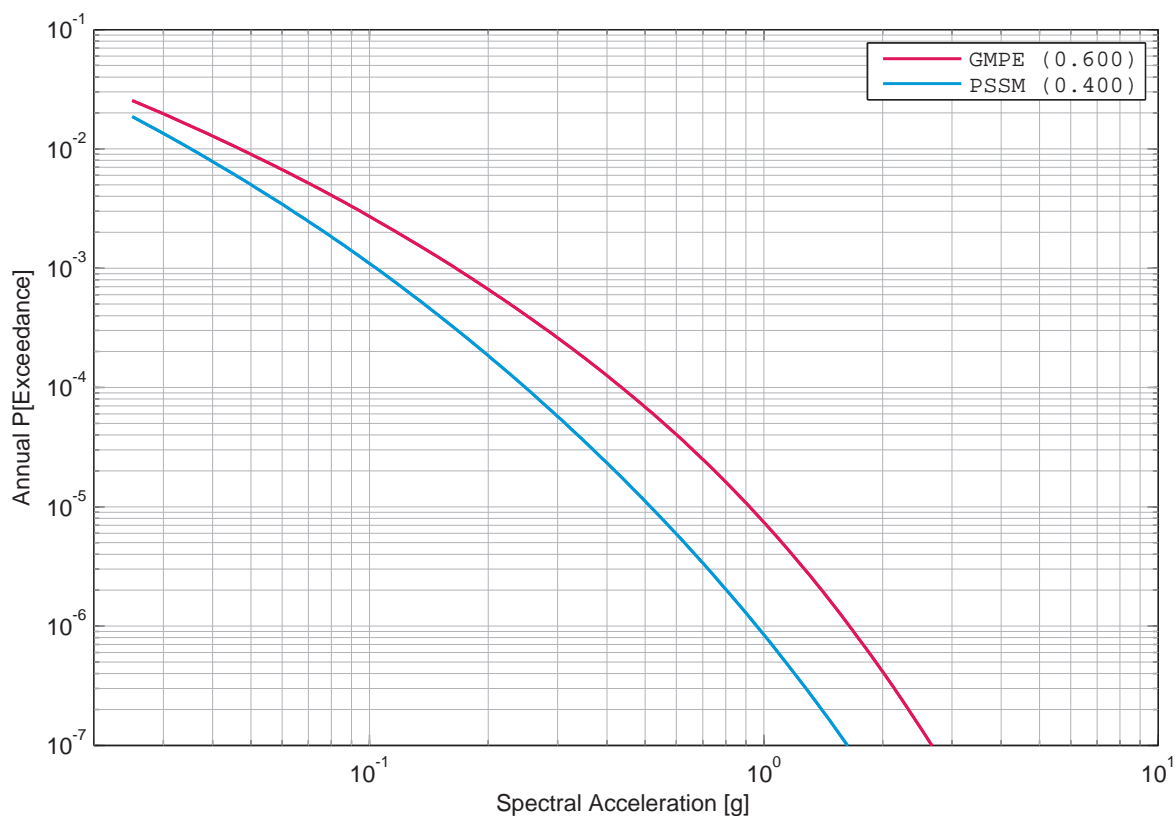


Figure 3.8.14: Gösgen, horizontal component, rock, Faeh's sensitivity to the model category, 5 Hz.

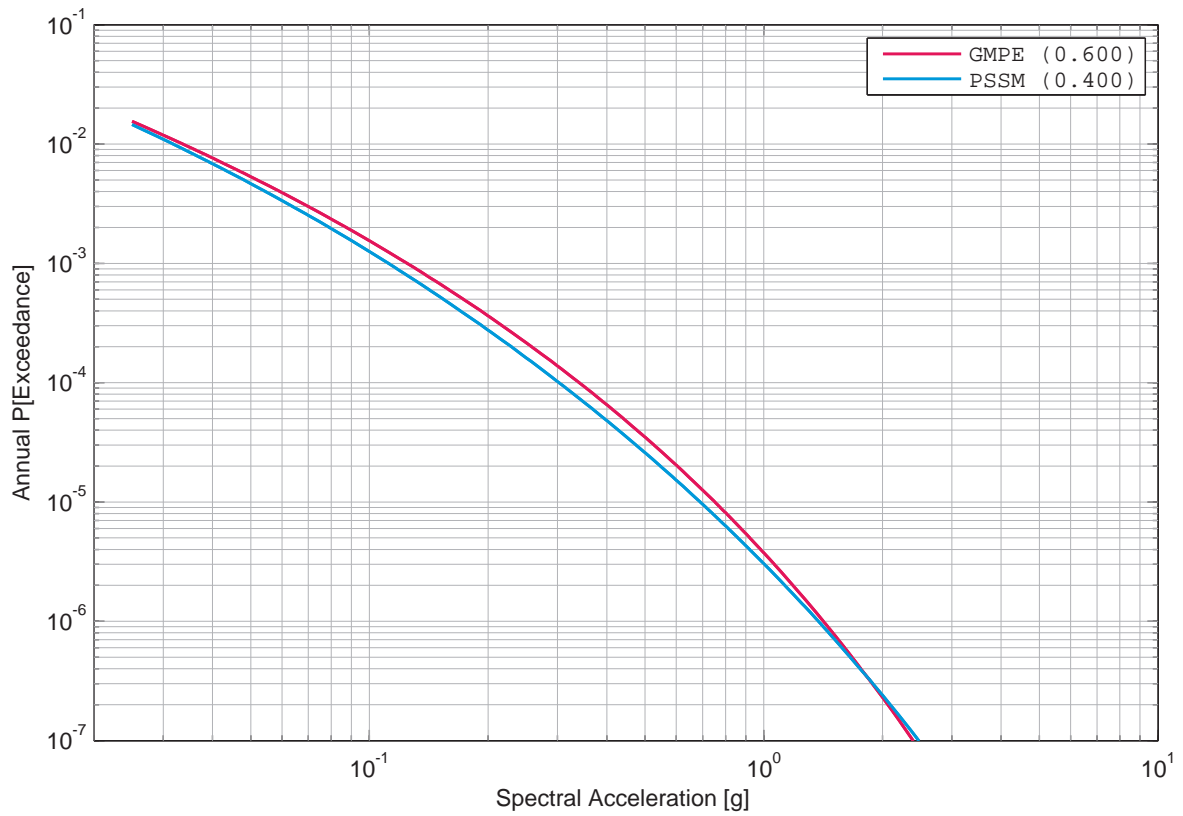


Figure 3.8.15: Gösgen, horizontal component, rock, Faeh’s sensitivity to the model category, 33 Hz.

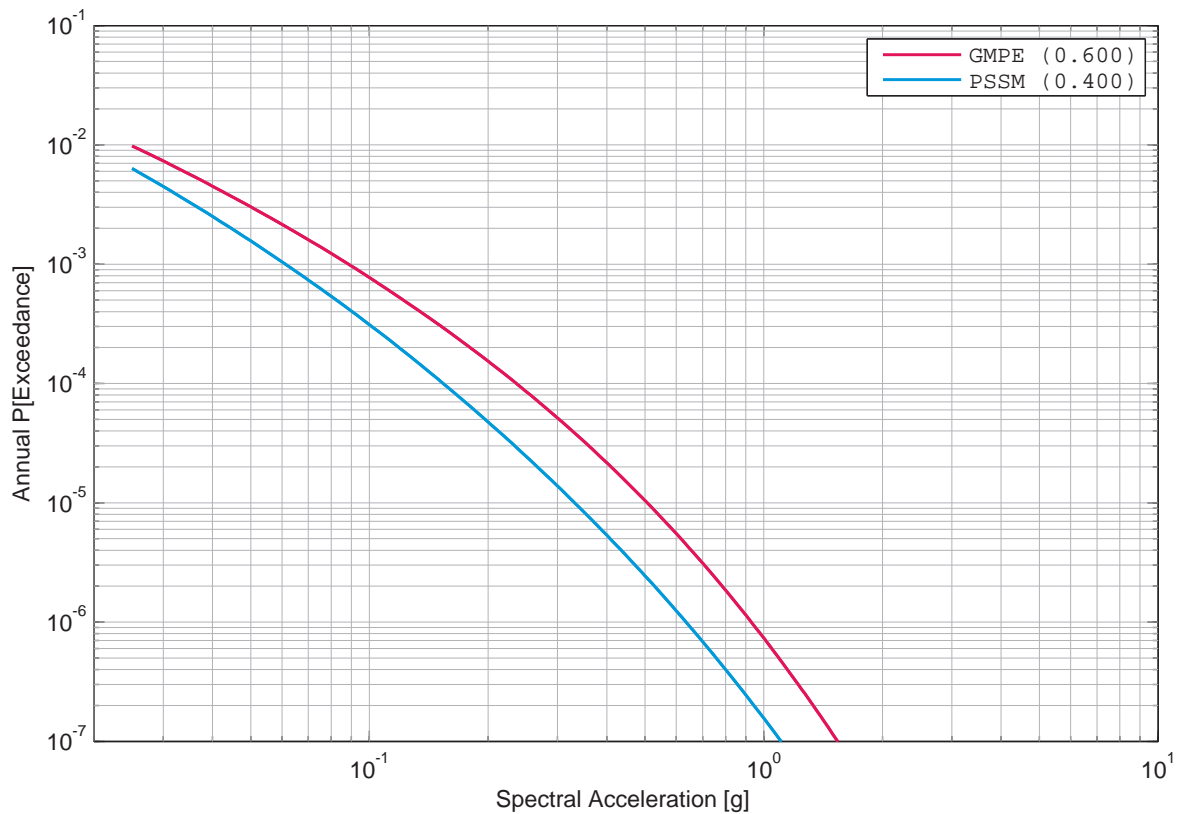


Figure 3.8.16: Gösgen, horizontal component, rock, Faeh’s sensitivity to the model category, 100 Hz.

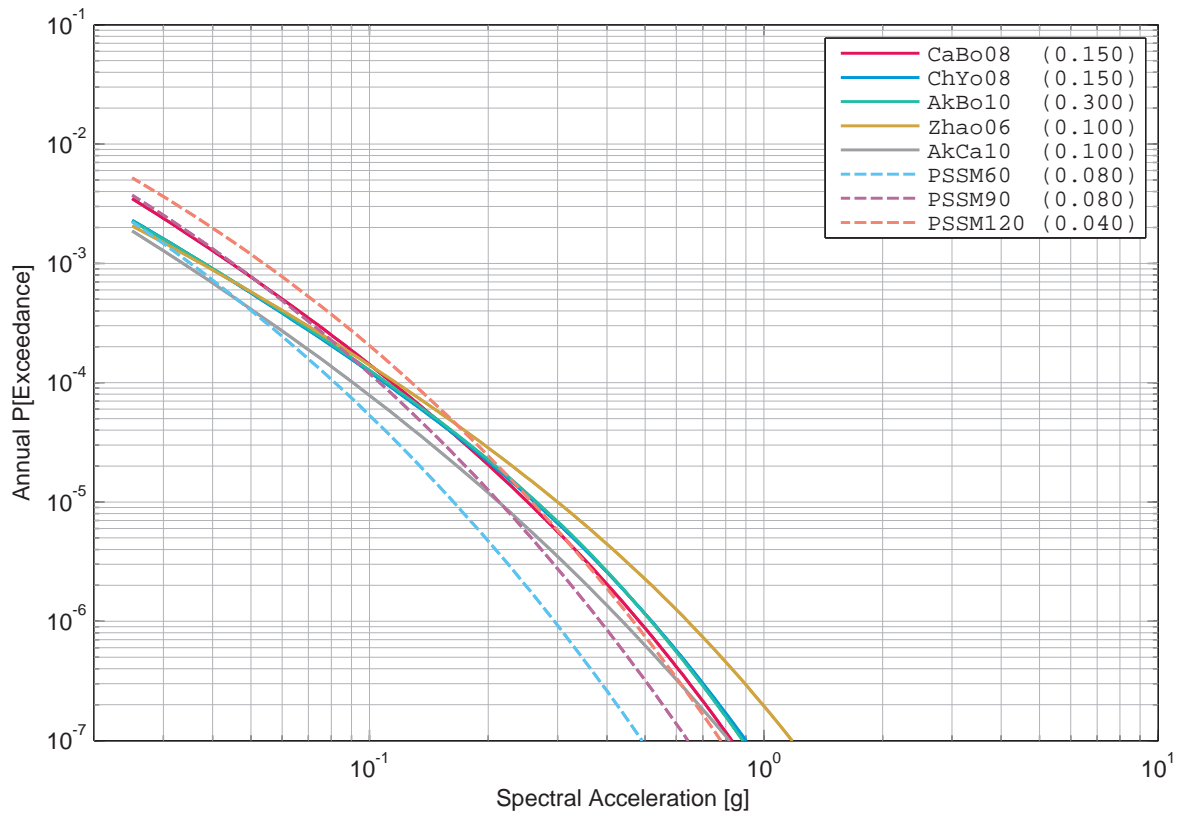


Figure 3.8.17: Gösgen, horizontal component, rock, Bungum’s sensitivity to the model, 1 Hz.

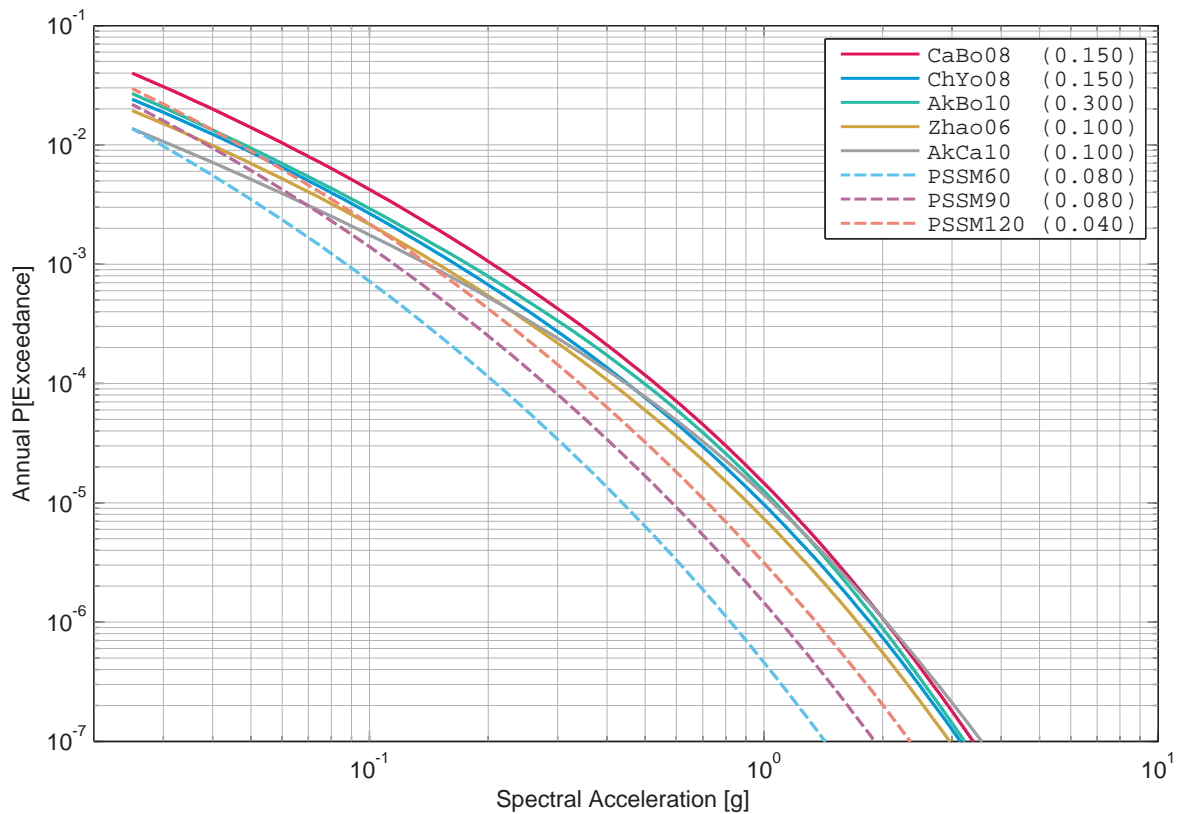


Figure 3.8.18: Gösgen, horizontal component, rock, Bungum’s sensitivity to the model, 5 Hz.

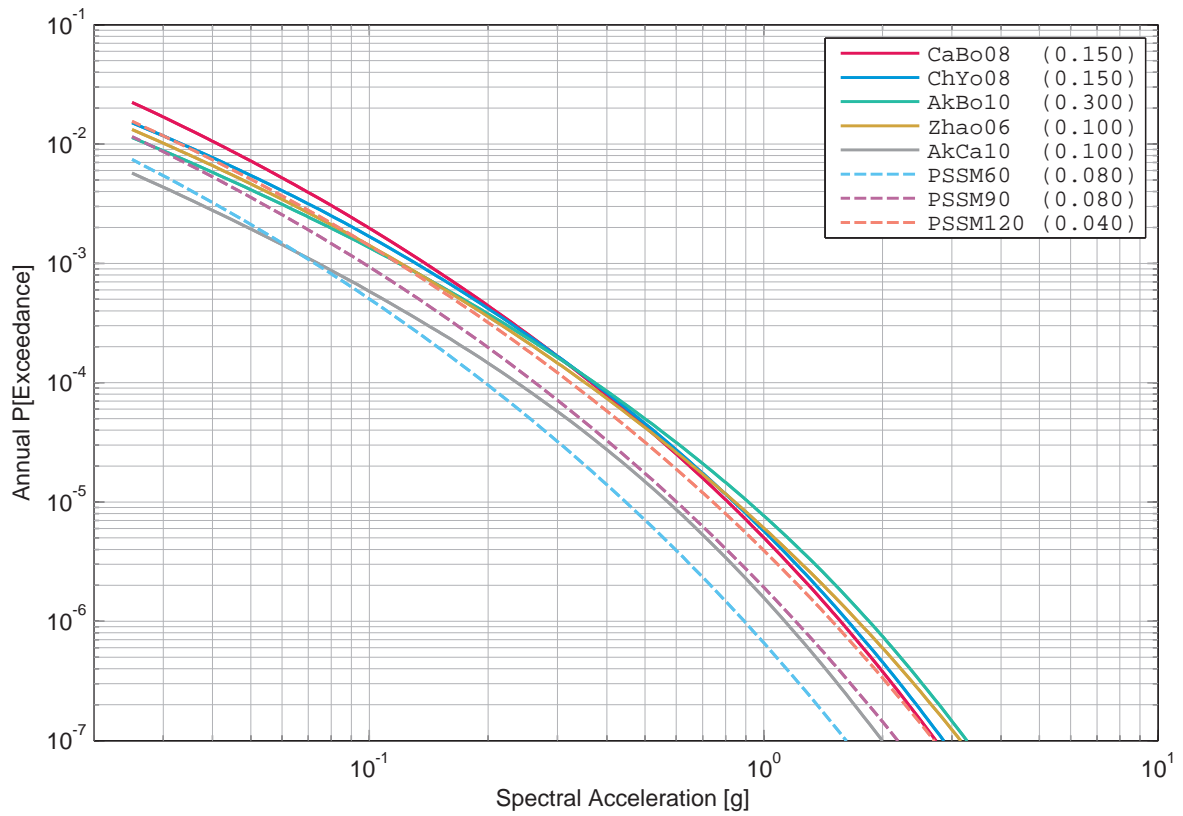


Figure 3.8.19: Gösgen, horizontal component, rock, Bungum's sensitivity to the model, 33 Hz.

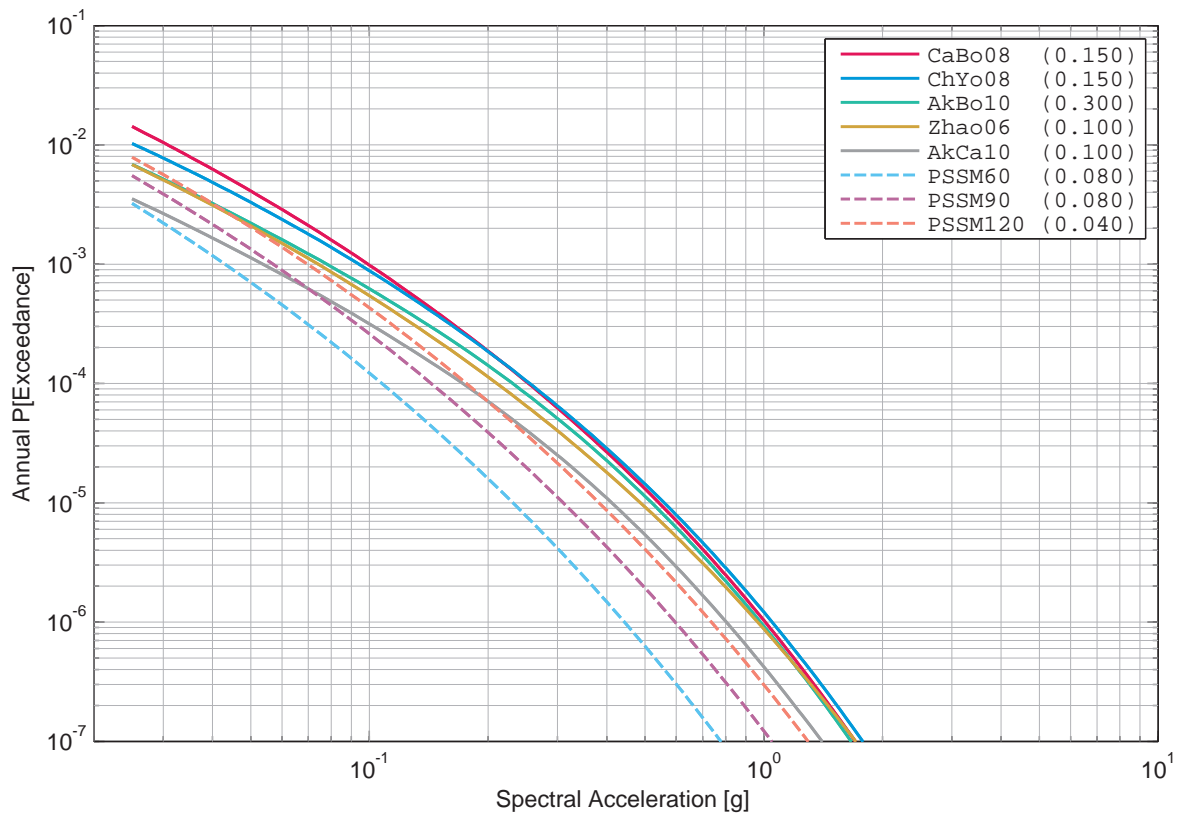


Figure 3.8.20: Gösgen, horizontal component, rock, Bungum's sensitivity to the model, 100 Hz.

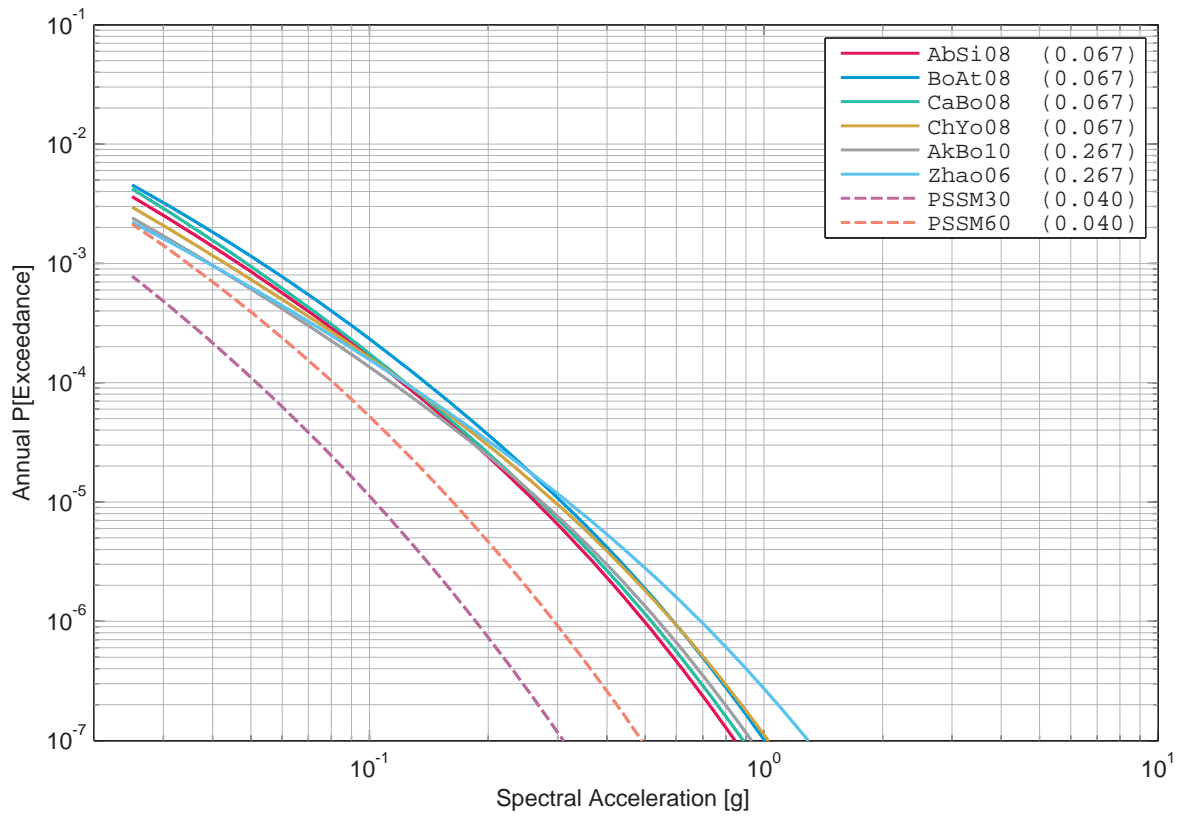


Figure 3.8.21: Gösgen, horizontal component, rock, Campbell's sensitivity to the model, 1 Hz.

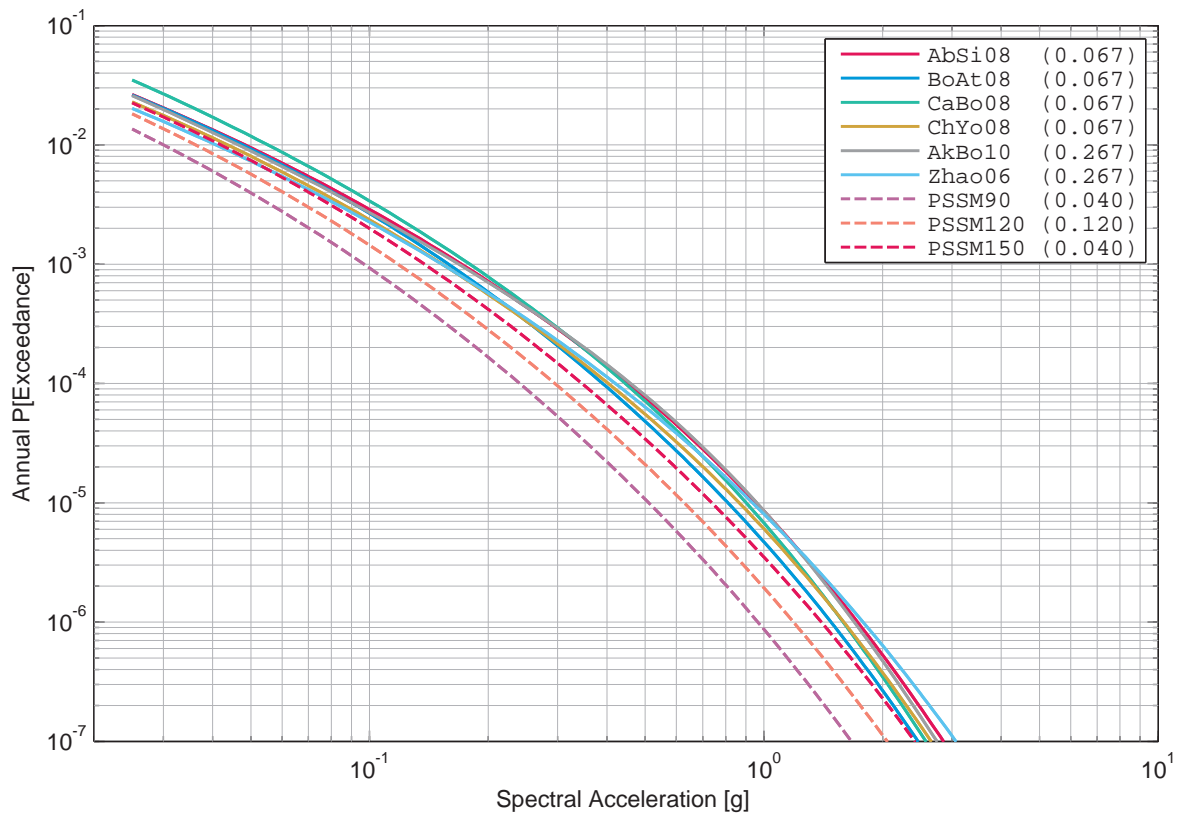


Figure 3.8.22: Gösgen, horizontal component, rock, Campbell's sensitivity to the model, 5 Hz.

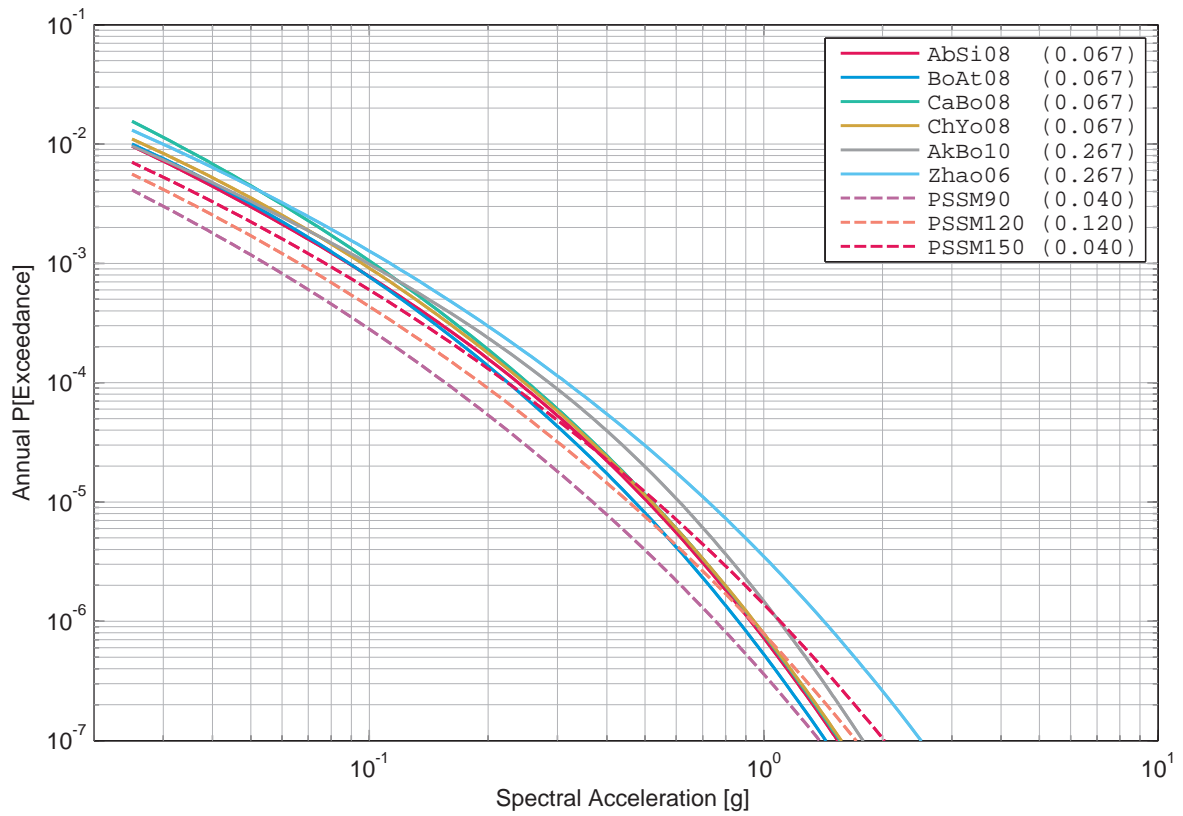


Figure 3.8.23: Gösgen, horizontal component, rock, Campbell’s sensitivity to the model, 33 Hz.

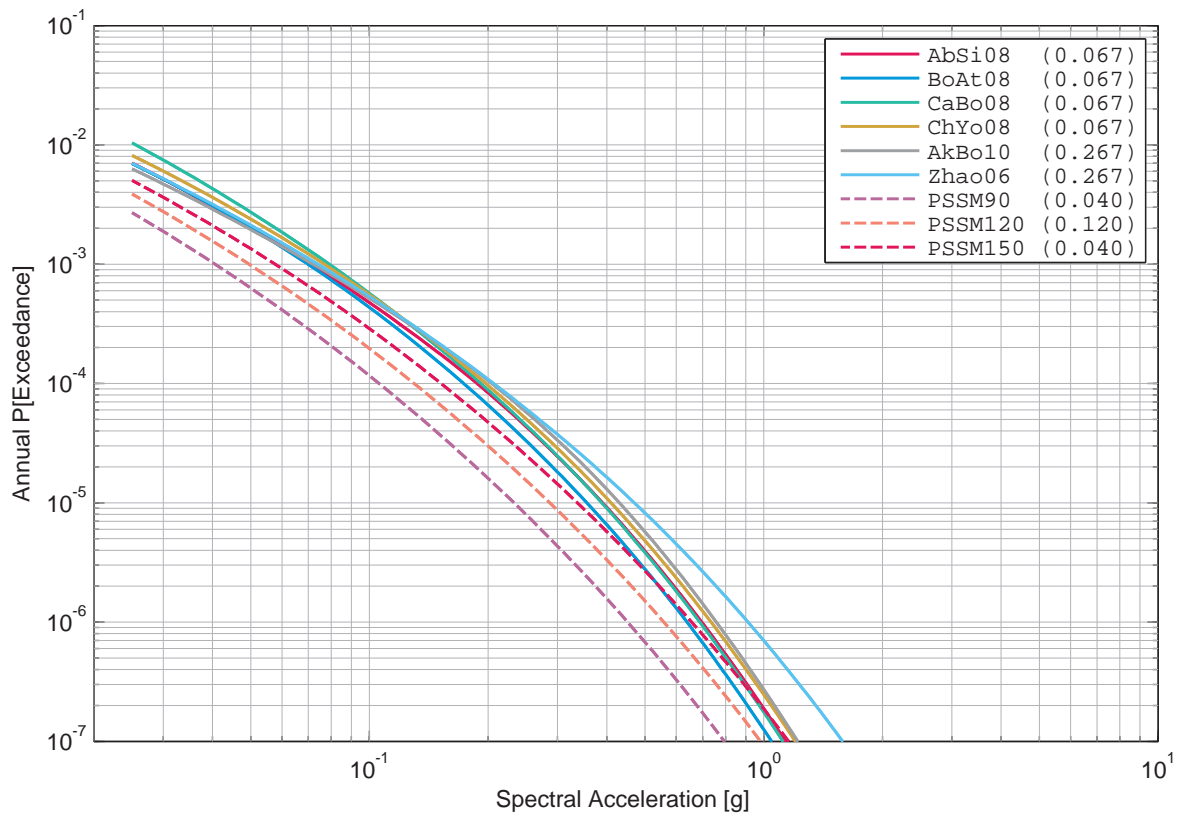


Figure 3.8.24: Gösgen, horizontal component, rock, Campbell’s sensitivity to the model, 100 Hz.

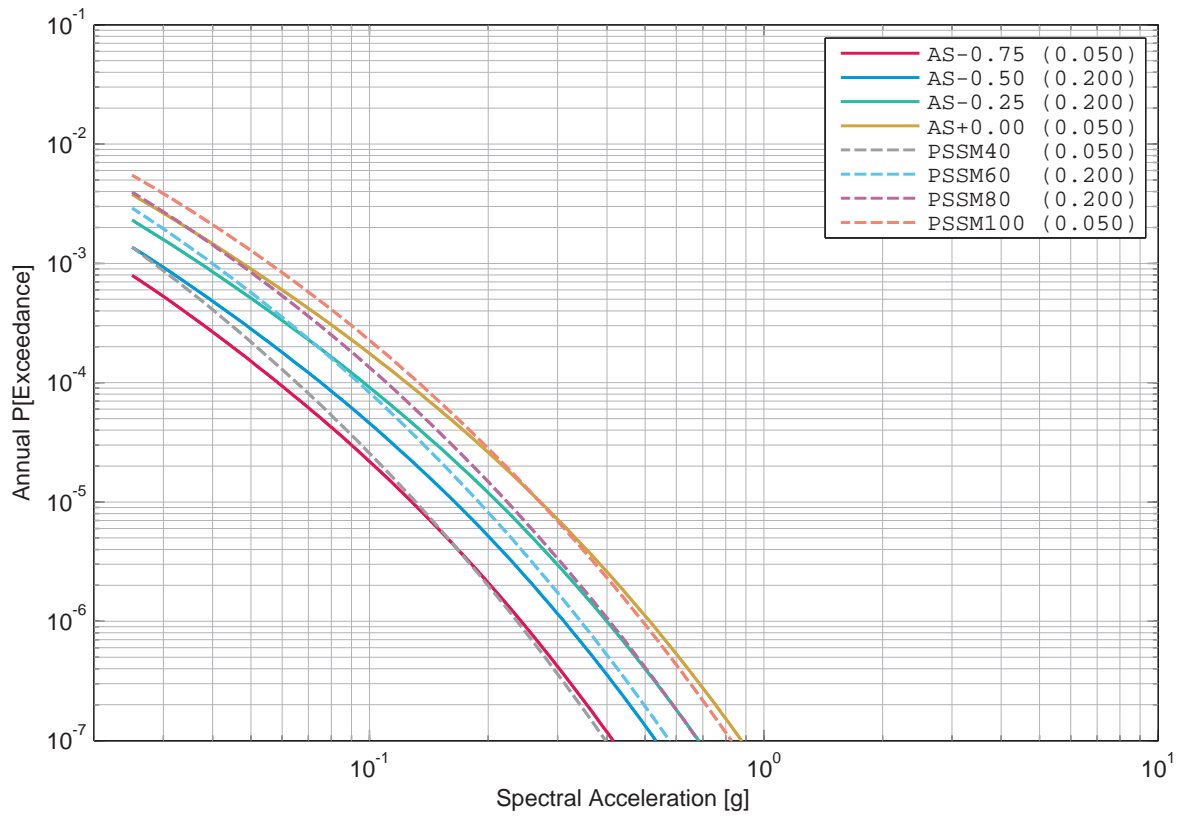


Figure 3.8.25: Gösgen, horizontal component, rock, Cotton's sensitivity to the model, 1 Hz.

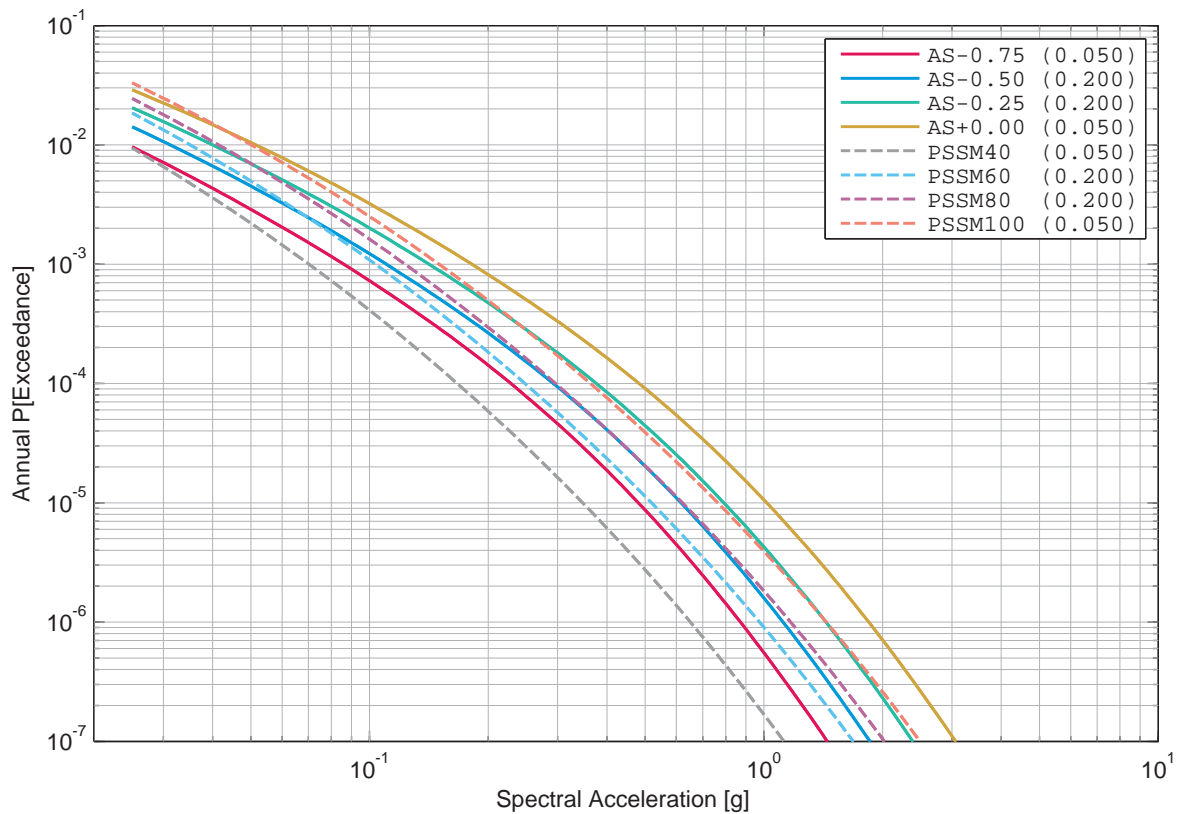


Figure 3.8.26: Gösgen, horizontal component, rock, Cotton's sensitivity to the model, 5 Hz.

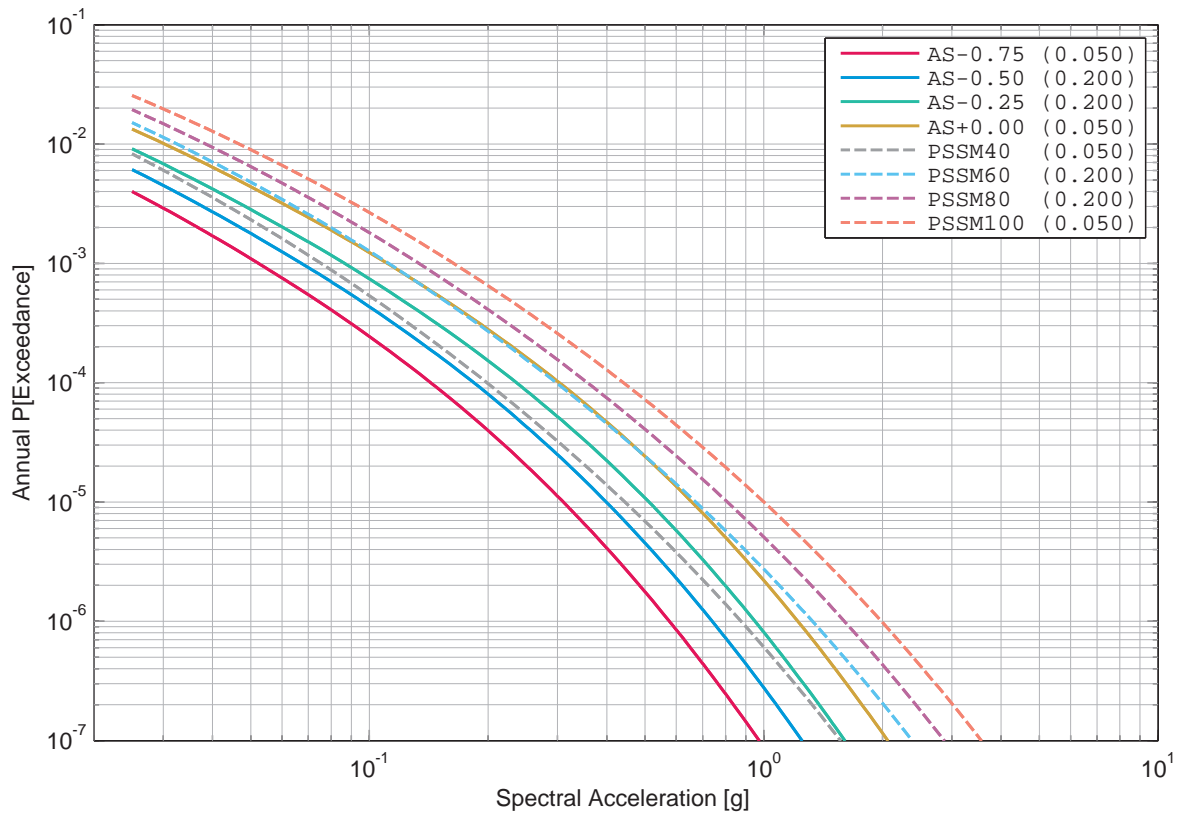


Figure 3.8.27: Gösgen, horizontal component, rock, Cotton’s sensitivity to the model, 33 Hz.

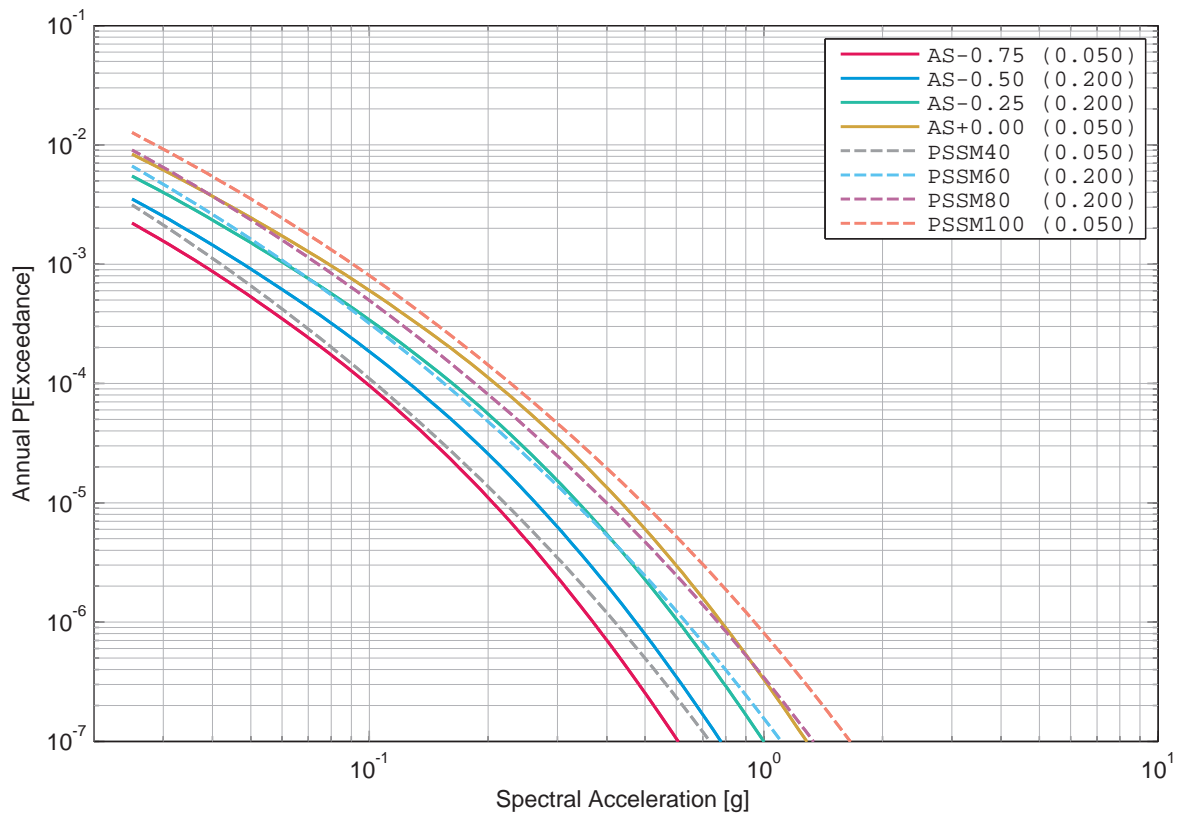


Figure 3.8.28: Gösgen, horizontal component, rock, Cotton’s sensitivity to the model, 100 Hz.

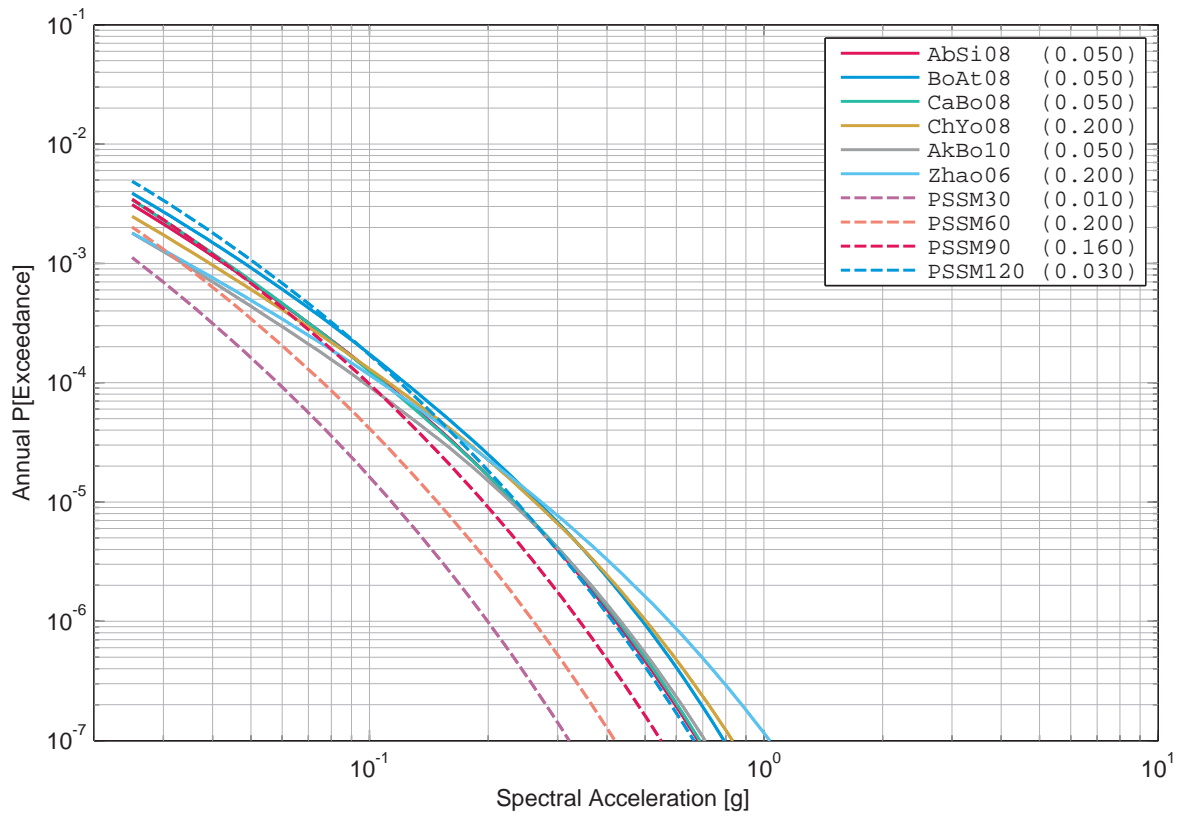


Figure 3.8.29: Gösgen, horizontal component, rock, Faeh's sensitivity to the model, 1 Hz.

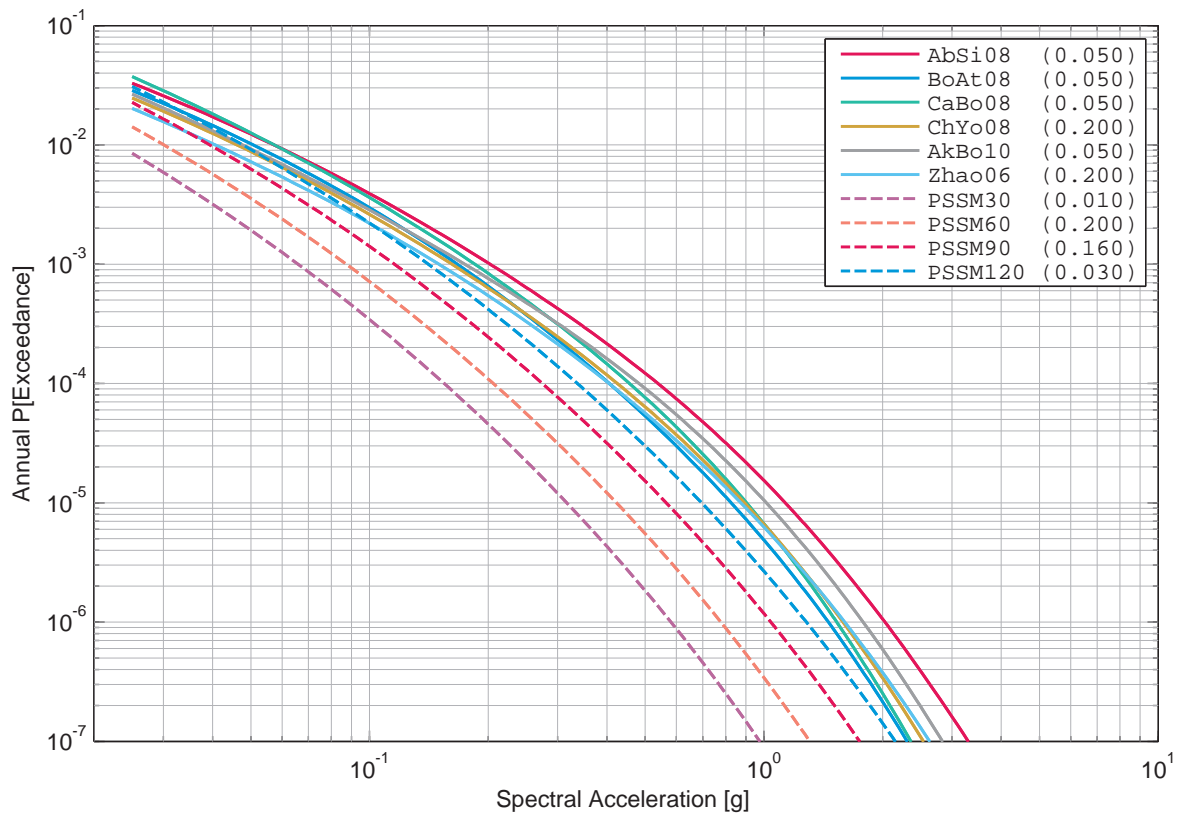


Figure 3.8.30: Gösgen, horizontal component, rock, Faeh's sensitivity to the model, 5 Hz.

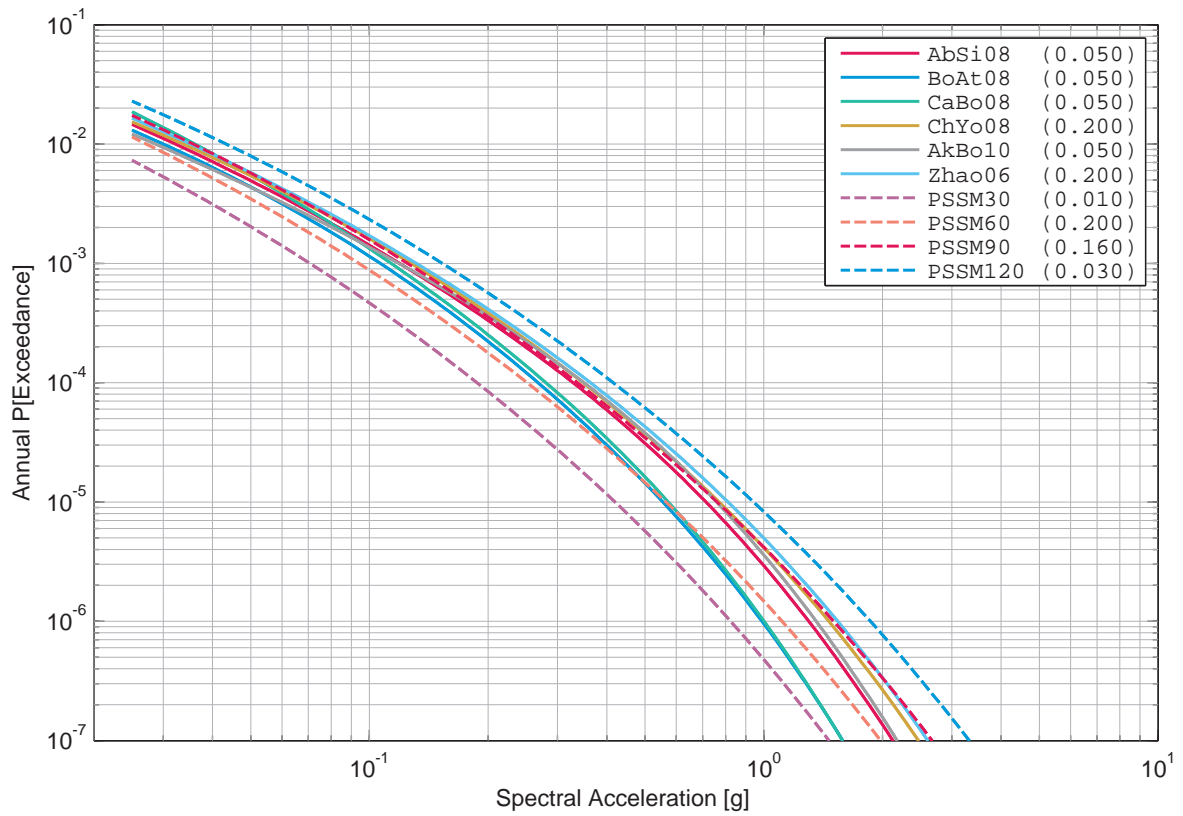


Figure 3.8.31: Gösgen, horizontal component, rock, Faeh’s sensitivity to the model, 33 Hz.

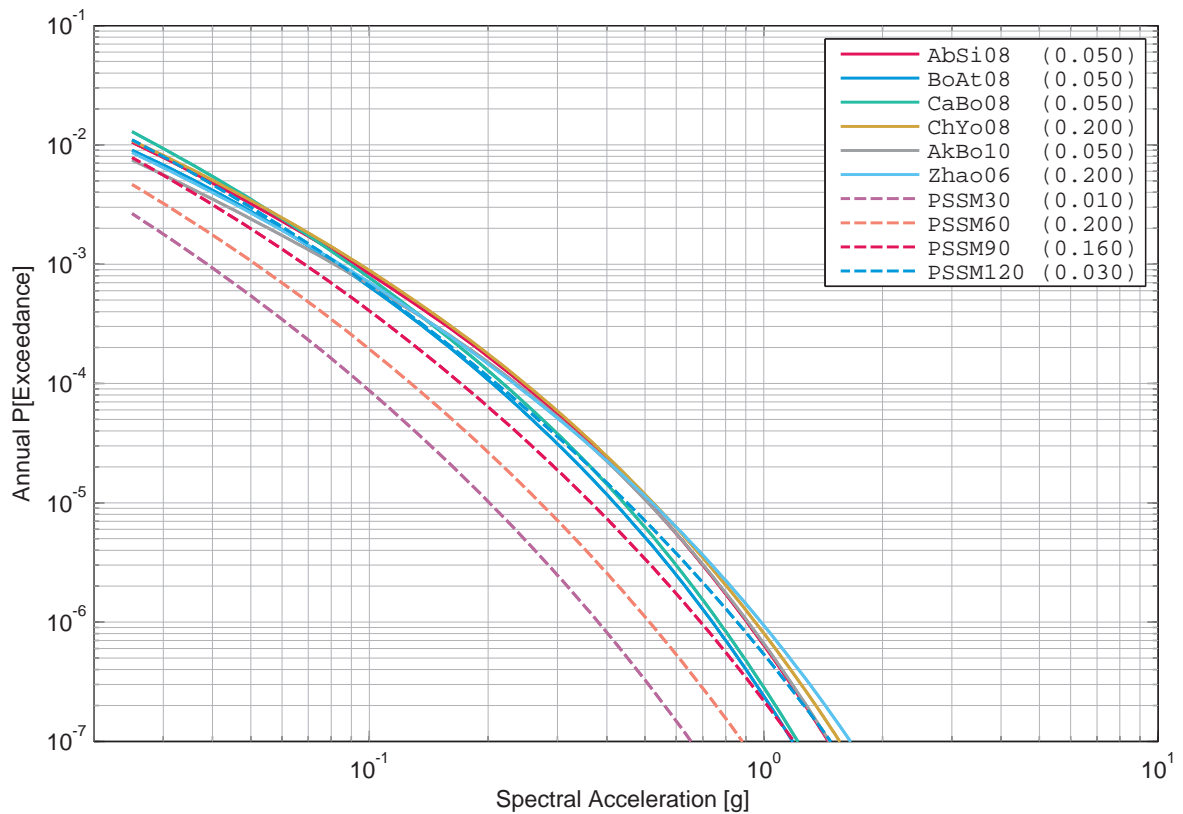


Figure 3.8.32: Gösgen, horizontal component, rock, Faeh’s sensitivity to the model, 100 Hz.

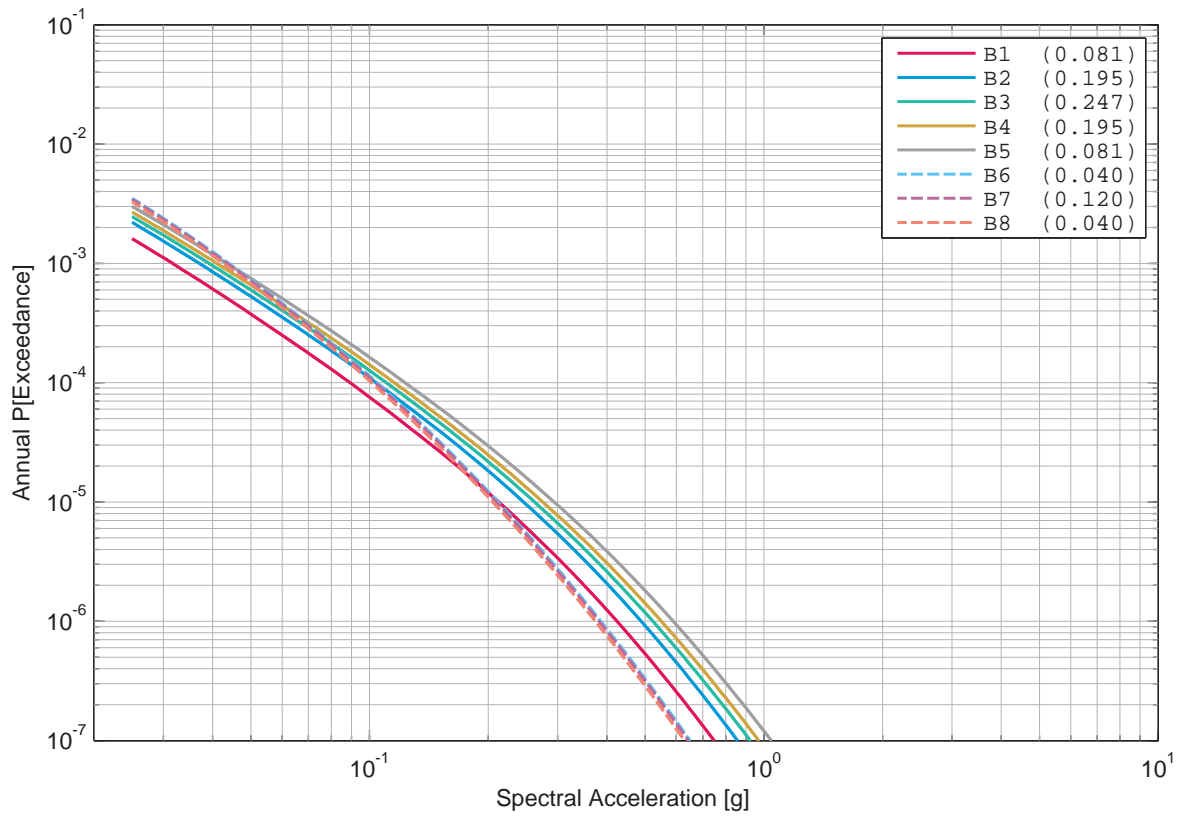


Figure 3.8.33: Gösgen, horizontal component, rock, Bungum's sensitivity to the Vs-kappa correction, 1 Hz.

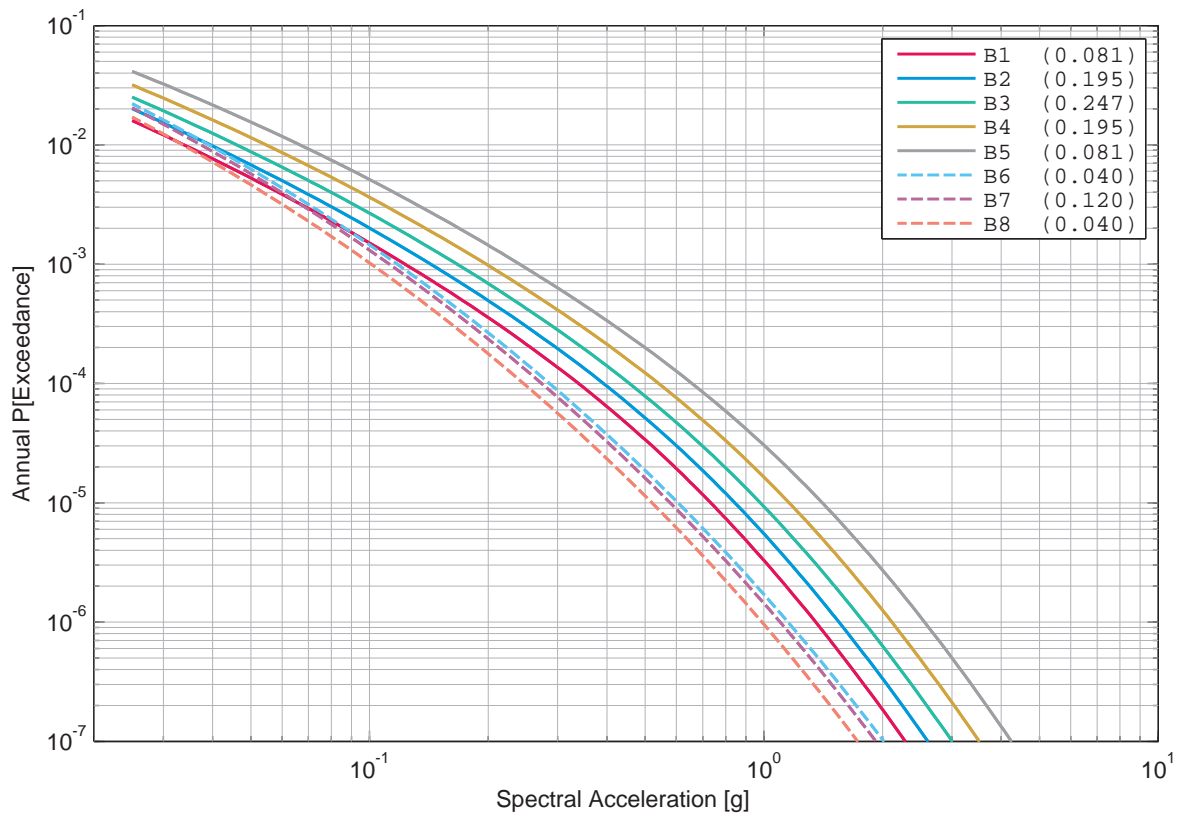


Figure 3.8.34: Gösgen, horizontal component, rock, Bungum's sensitivity to the Vs-kappa correction, 5 Hz.

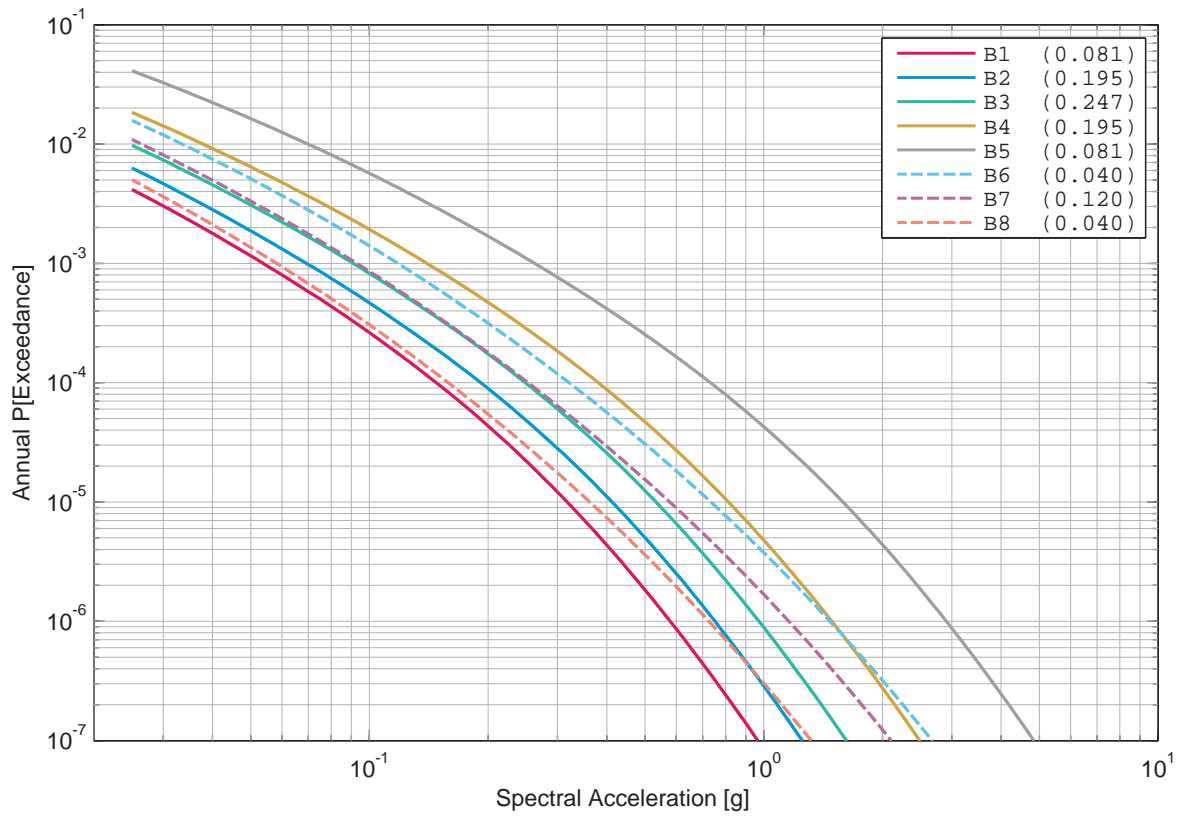


Figure 3.8.35: Gösgen, horizontal component, rock, Bungum’s sensitivity to the Vs-kappa correction, 33 Hz.

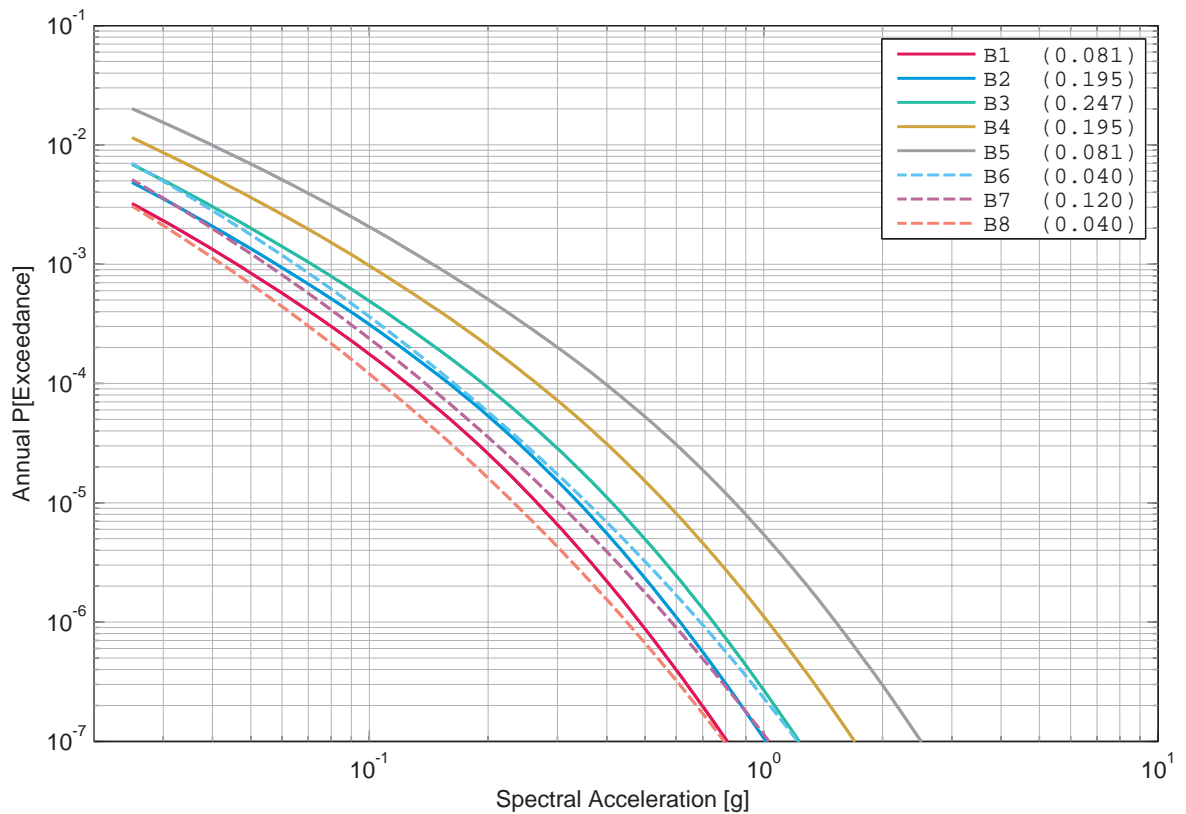


Figure 3.8.36: Gösgen, horizontal component, rock, Bungum’s sensitivity to the Vs-kappa correction, 100 Hz.

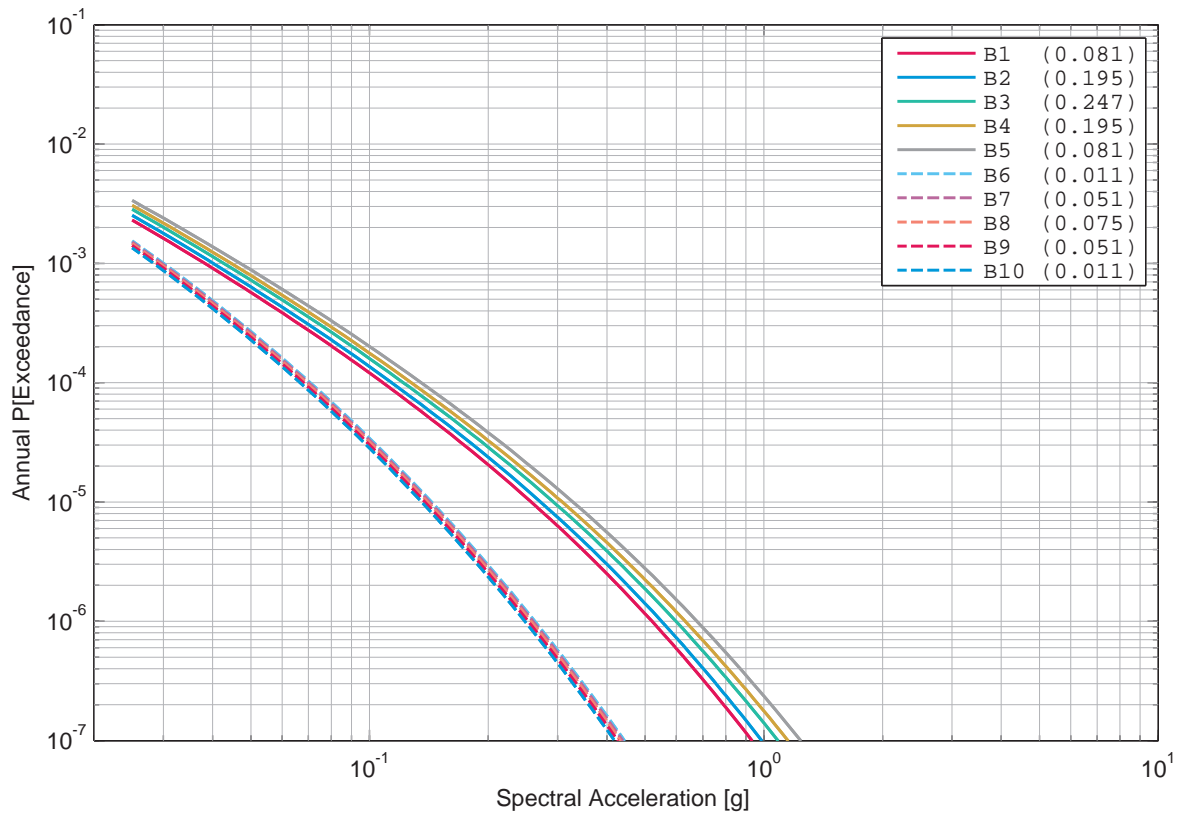


Figure 3.8.37: Gösgen, horizontal component, rock, Campbell's sensitivity to the Vs-kappa correction, 1 Hz.

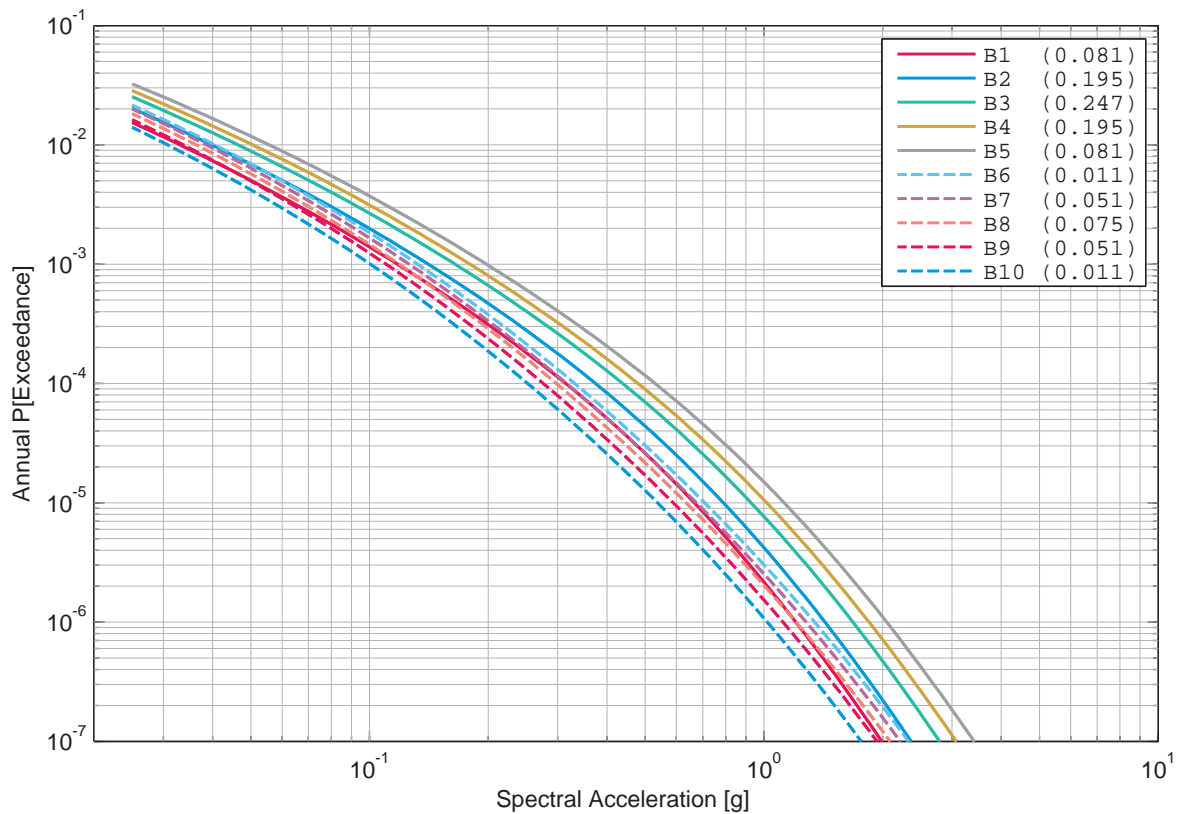


Figure 3.8.38: Gösgen, horizontal component, rock, Campbell's sensitivity to the Vs-kappa correction, 5 Hz.

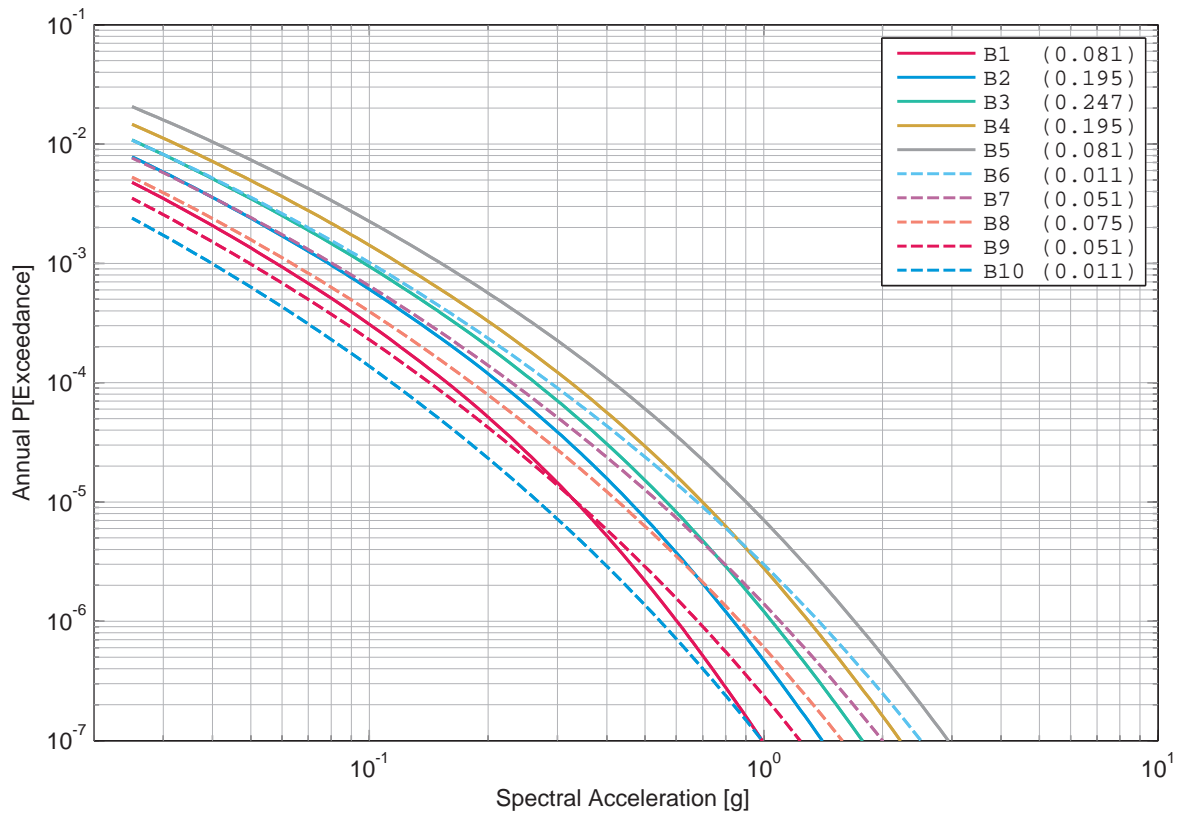


Figure 3.8.39: Gösgen, horizontal component, rock, Campbell’s sensitivity to the Vs-kappa correction, 33 Hz.

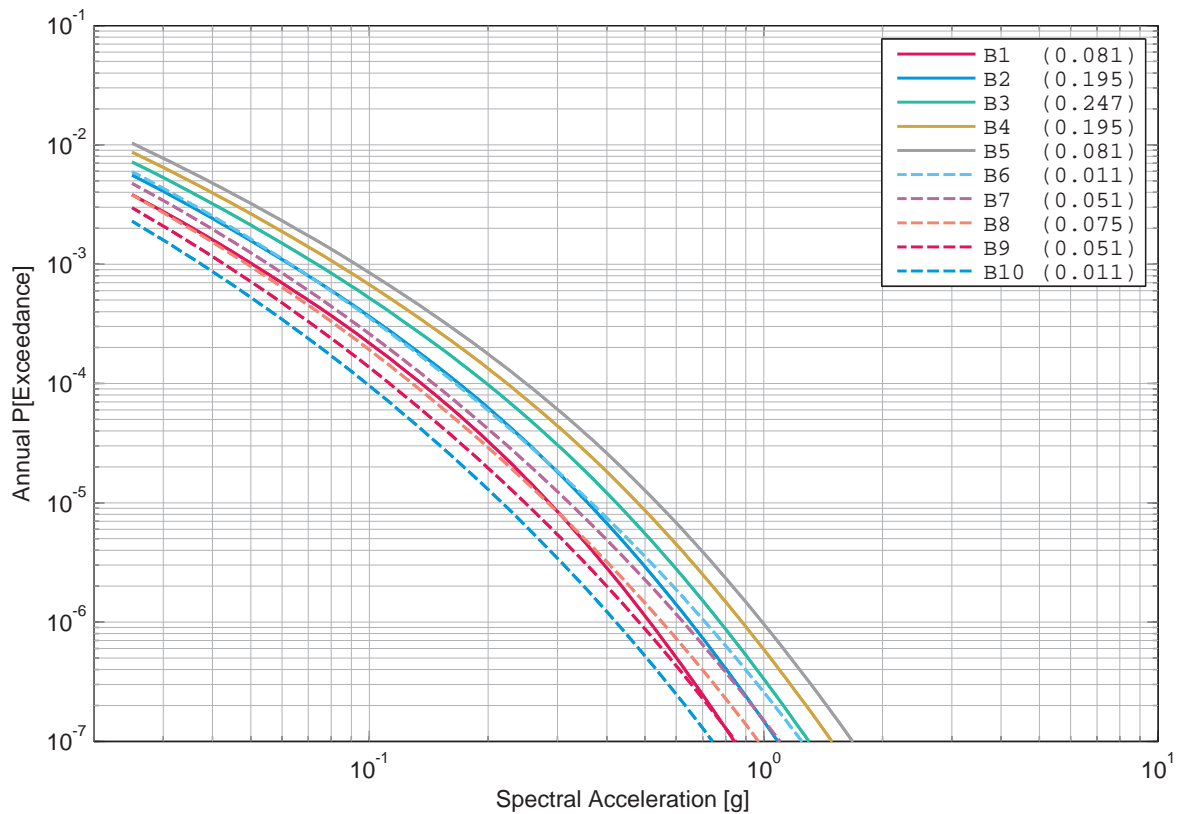


Figure 3.8.40: Gösgen, horizontal component, rock, Campbell’s sensitivity to the Vs-kappa correction, 100 Hz.

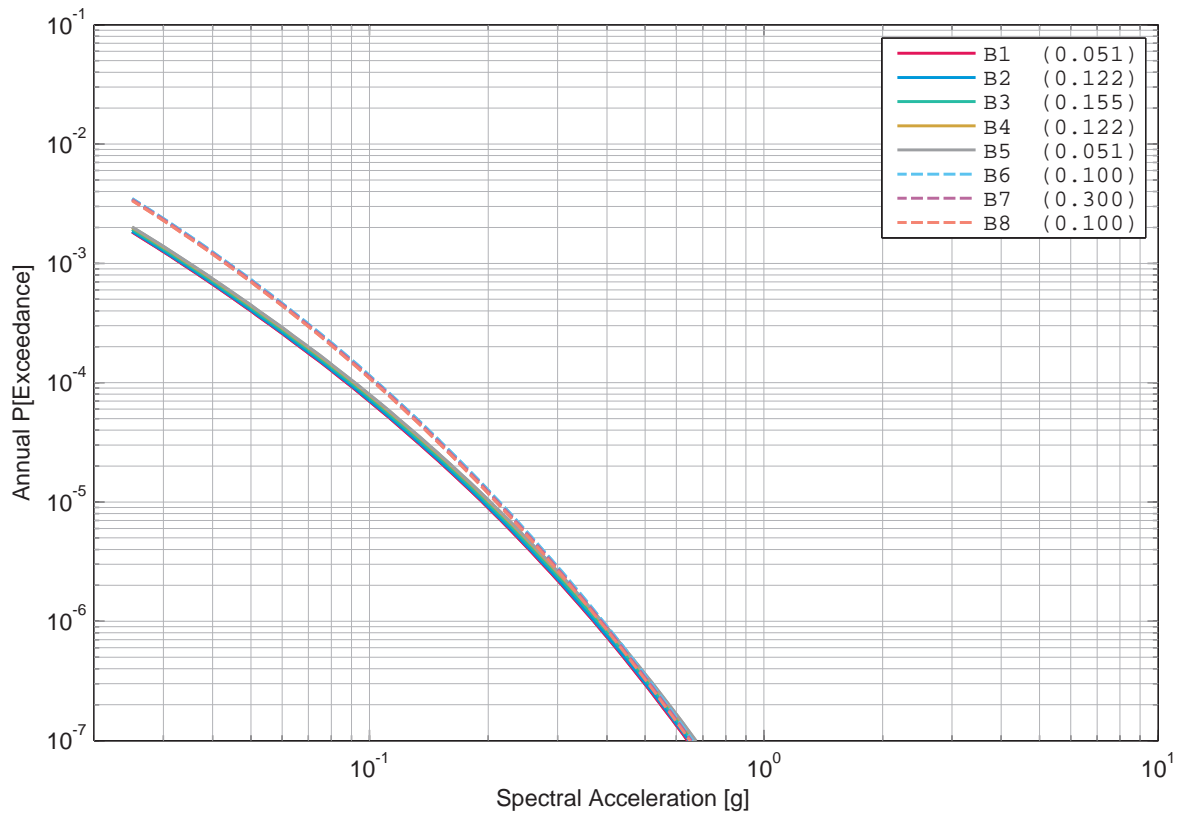


Figure 3.8.41: Gösgen, horizontal component, rock, Cotton's sensitivity to the Vs-kappa correction, 1 Hz.

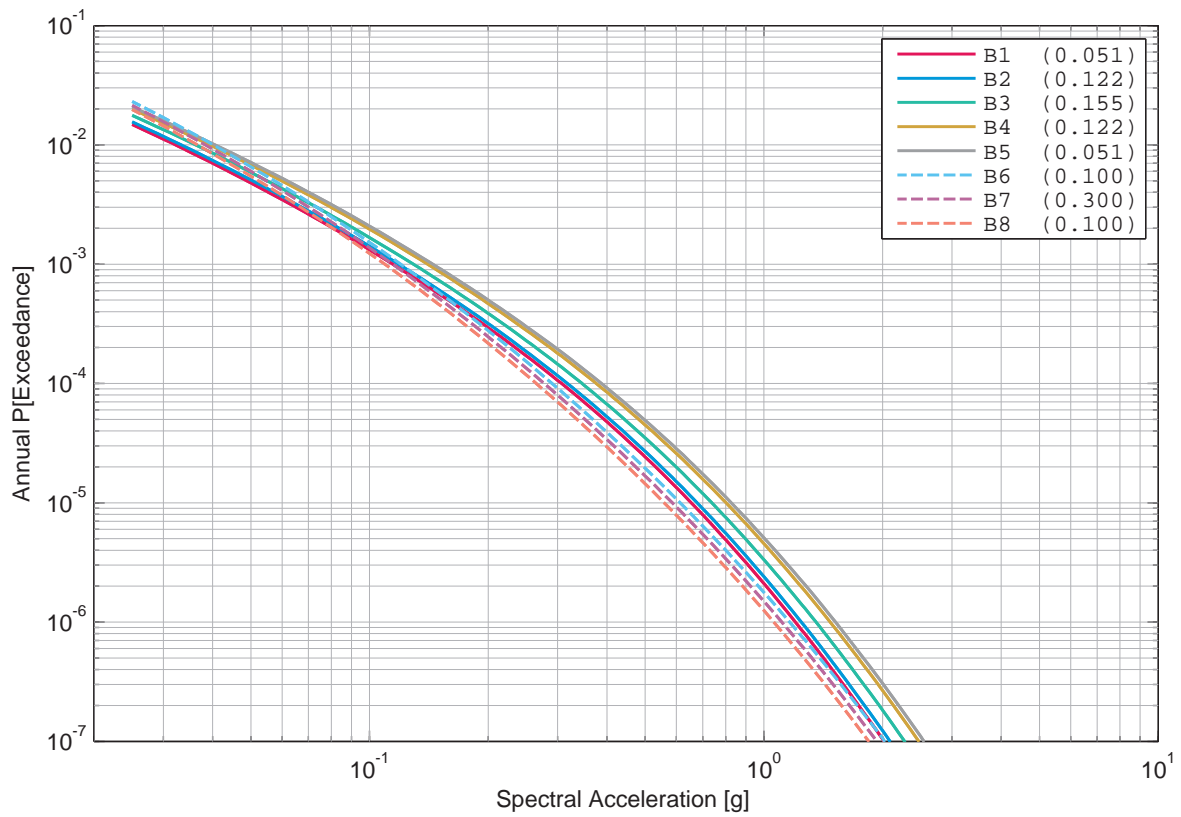


Figure 3.8.42: Gösgen, horizontal component, rock, Cotton's sensitivity to the Vs-kappa correction, 5 Hz.

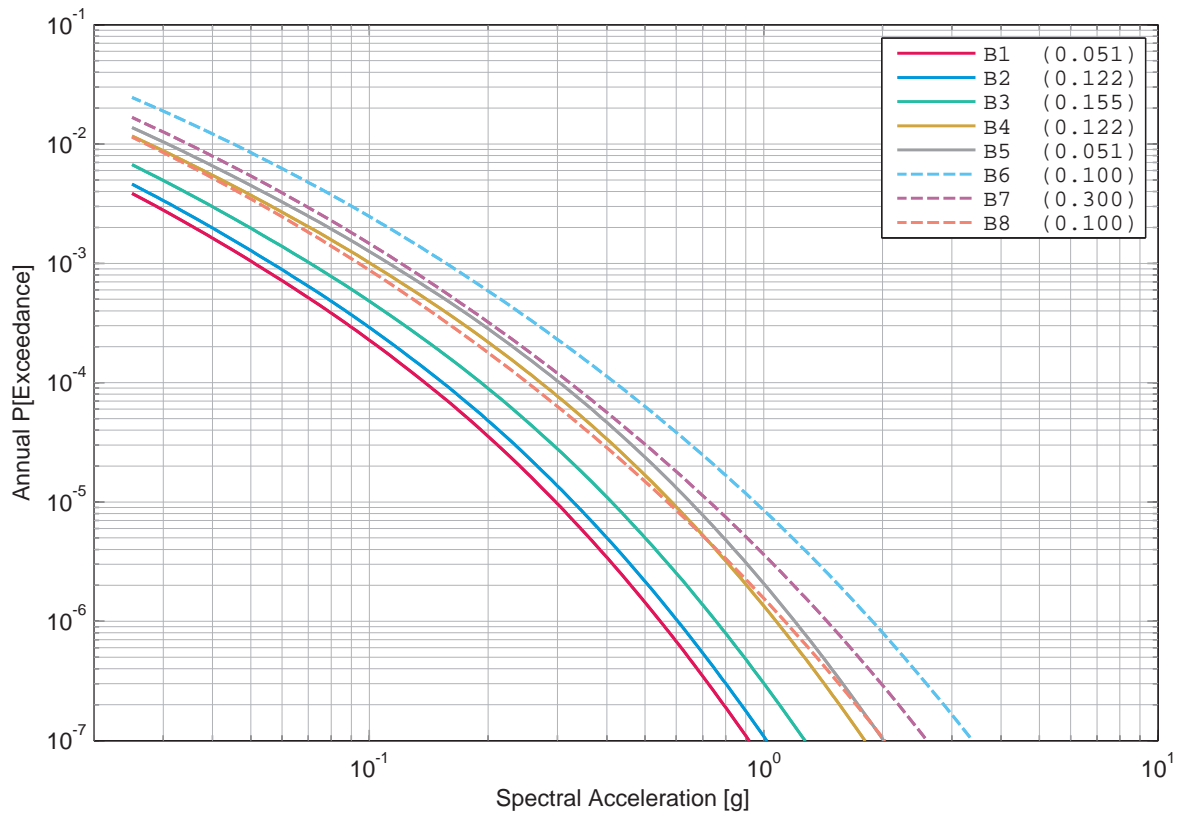


Figure 3.8.43: Gösgen, horizontal component, rock, Cotton's sensitivity to the Vs-kappa correction, 33 Hz.

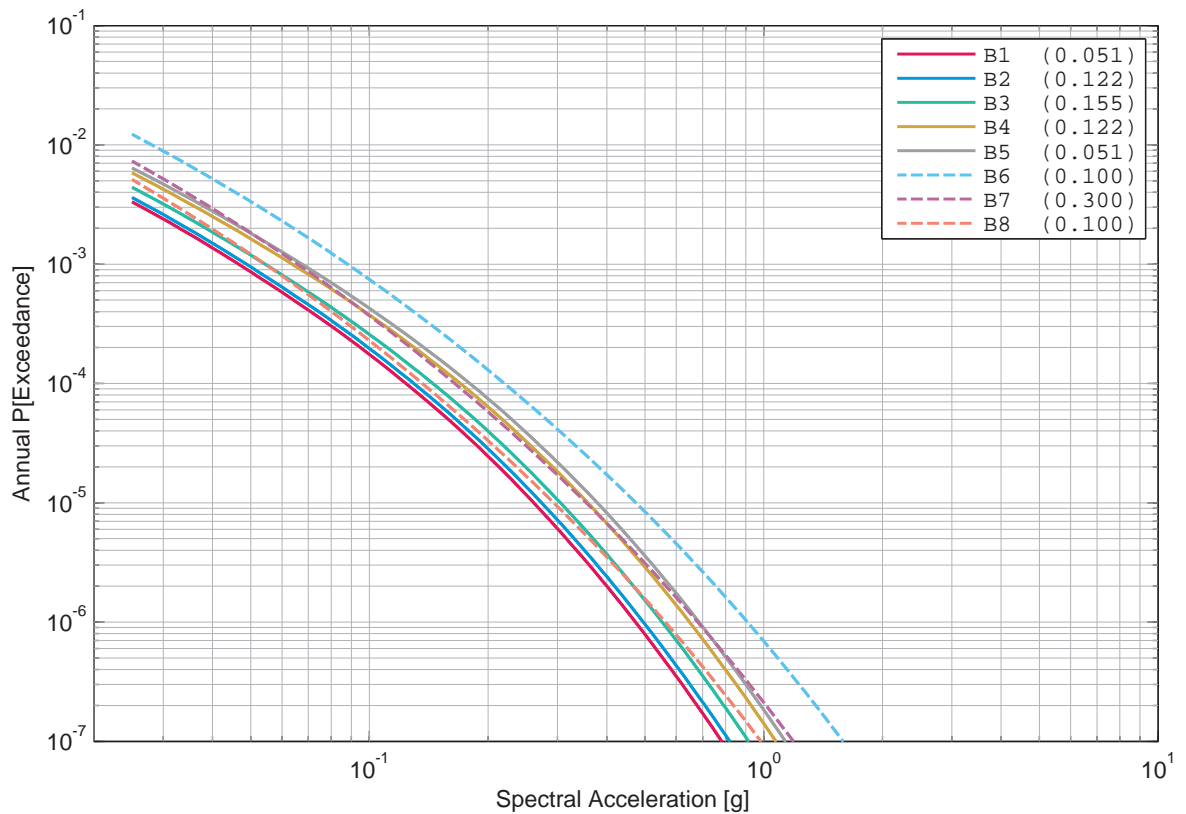


Figure 3.8.44: Gösgen, horizontal component, rock, Cotton's sensitivity to the Vs-kappa correction, 100 Hz.

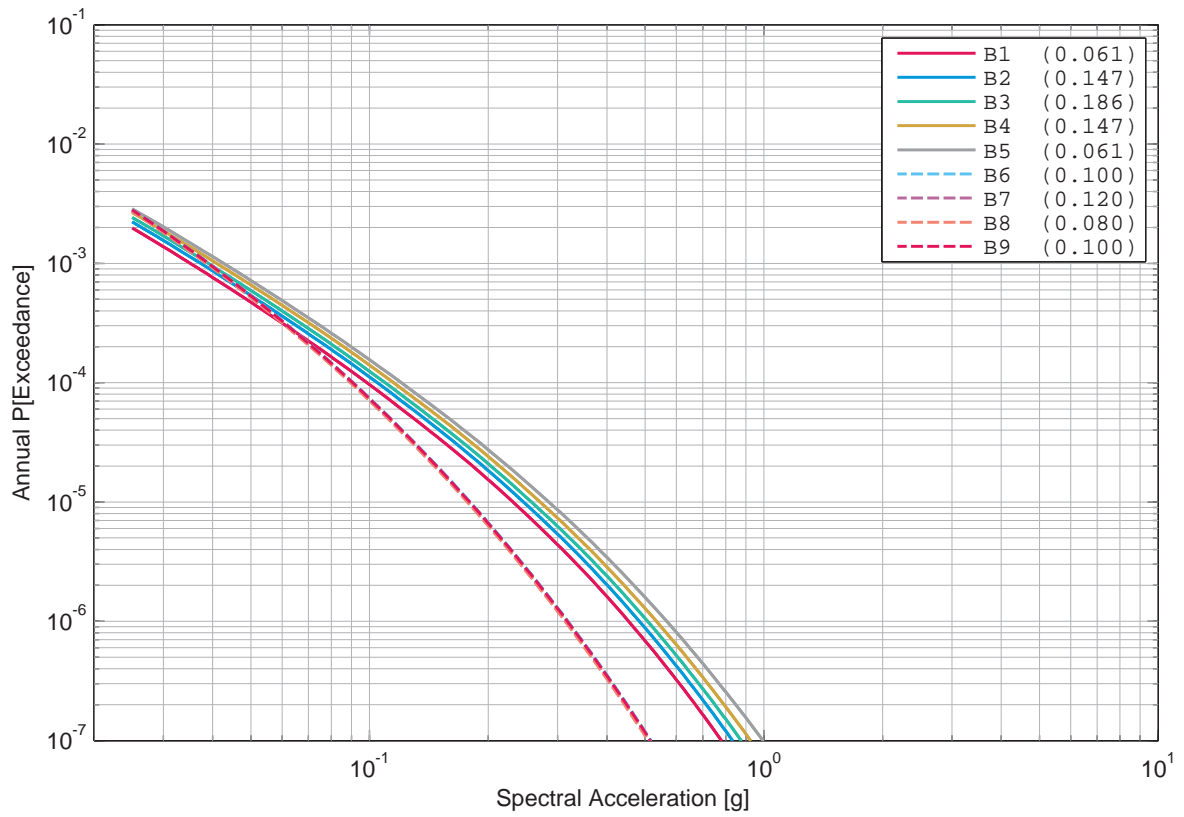


Figure 3.8.45: Gösgen, horizontal component, rock, Faeh's sensitivity to the Vs-kappa correction, 1 Hz.

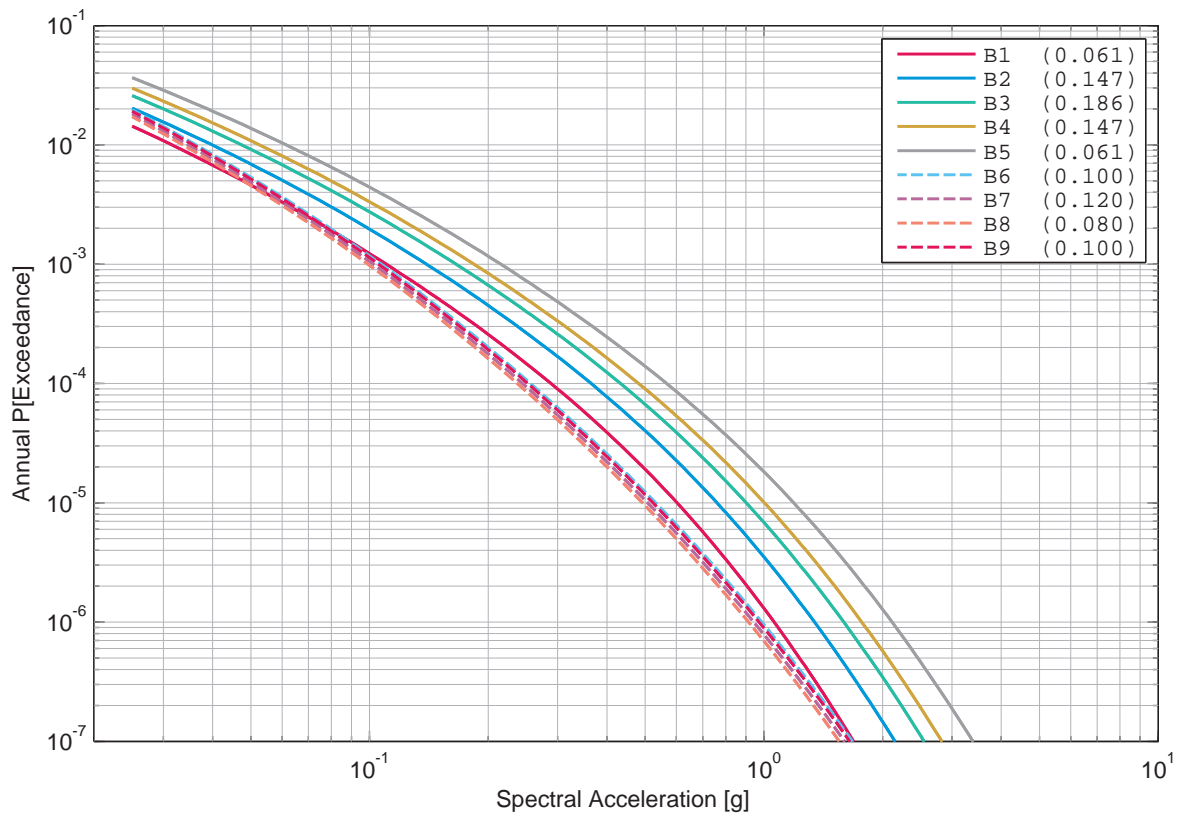


Figure 3.8.46: Gösgen, horizontal component, rock, Faeh's sensitivity to the Vs-kappa correction, 5 Hz.

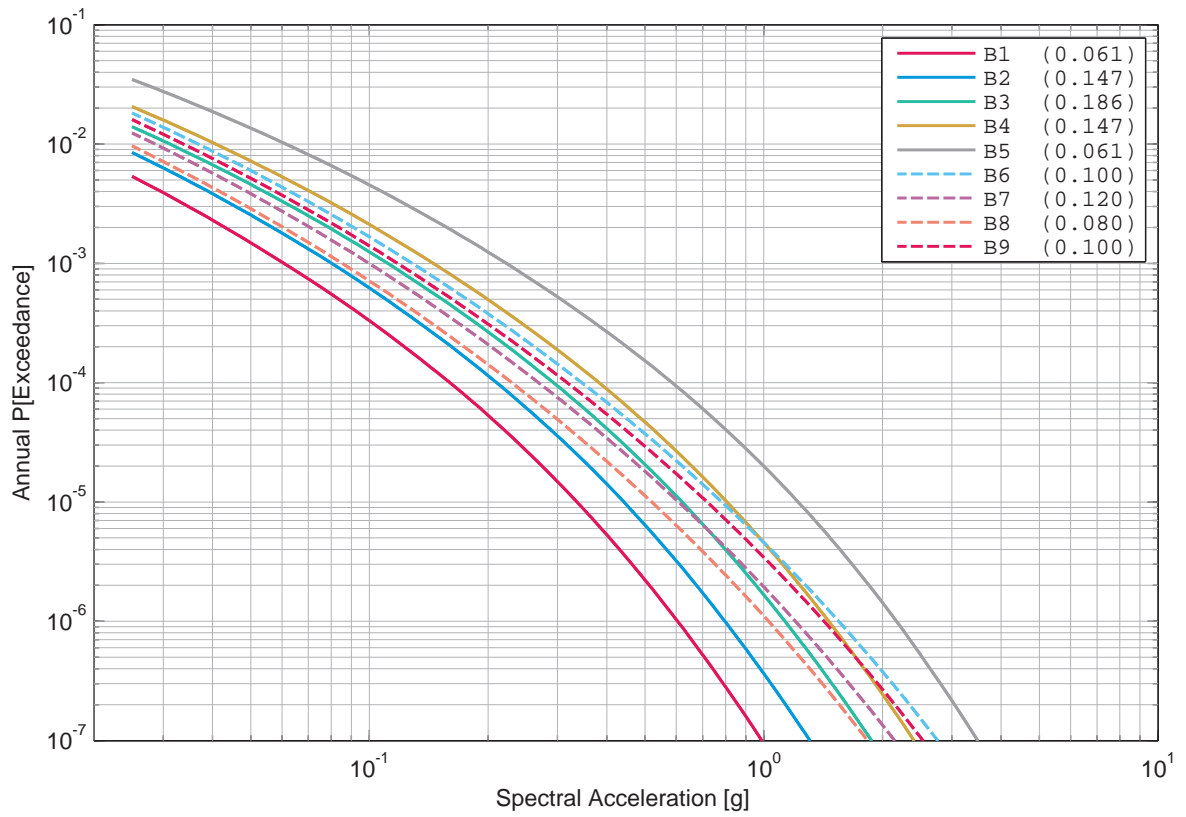


Figure 3.8.47: Gösgen, horizontal component, rock, Faeh’s sensitivity to the Vs-kappa correction, 33 Hz.

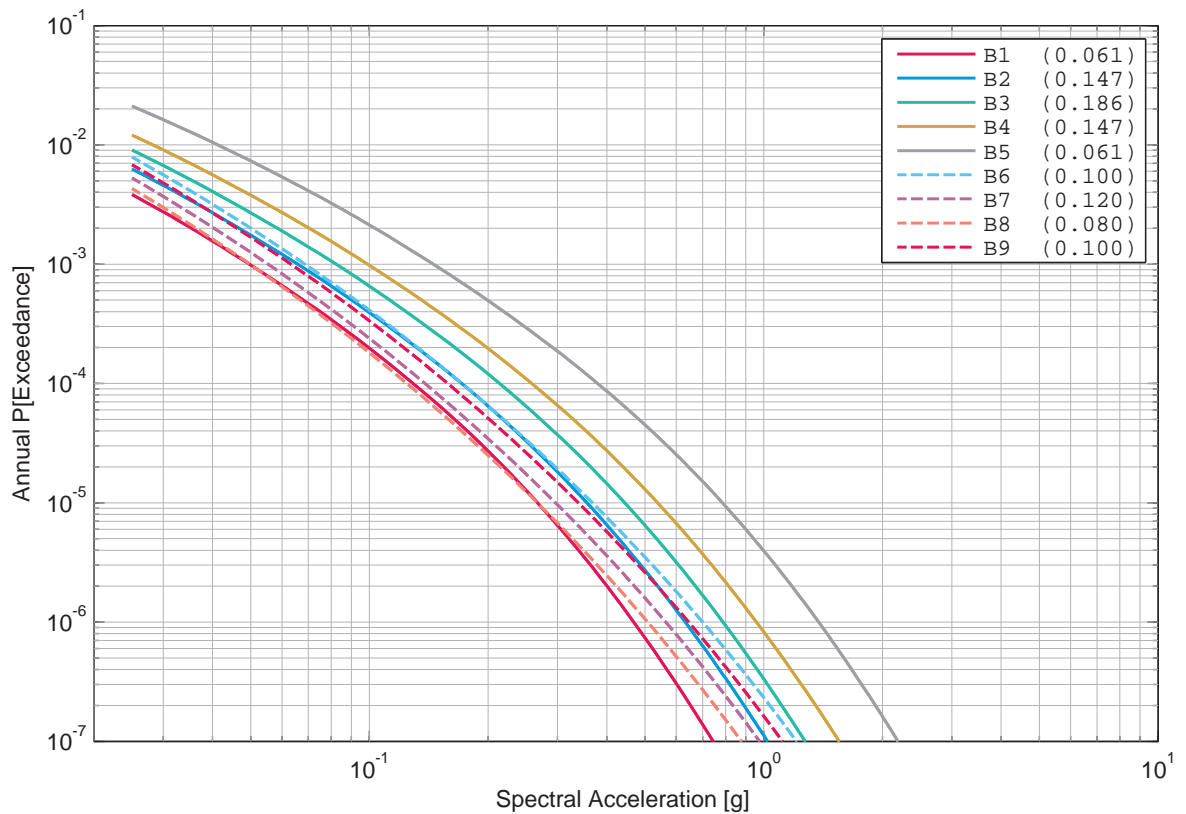


Figure 3.8.48: Gösgen, horizontal component, rock, Faeh’s sensitivity to the Vs-kappa correction, 100 Hz.

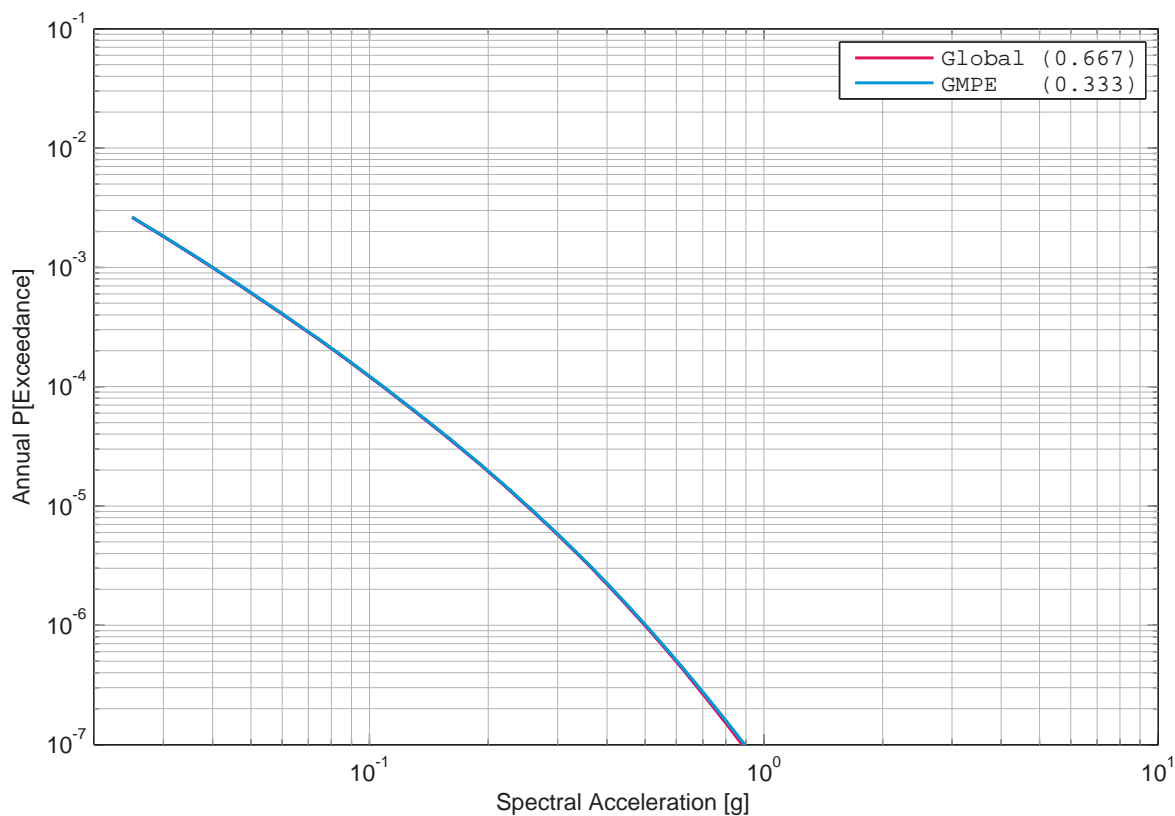


Figure 3.8.49: Gösgen, horizontal component, rock, Bungum's sensitivity to tau, 1 Hz.

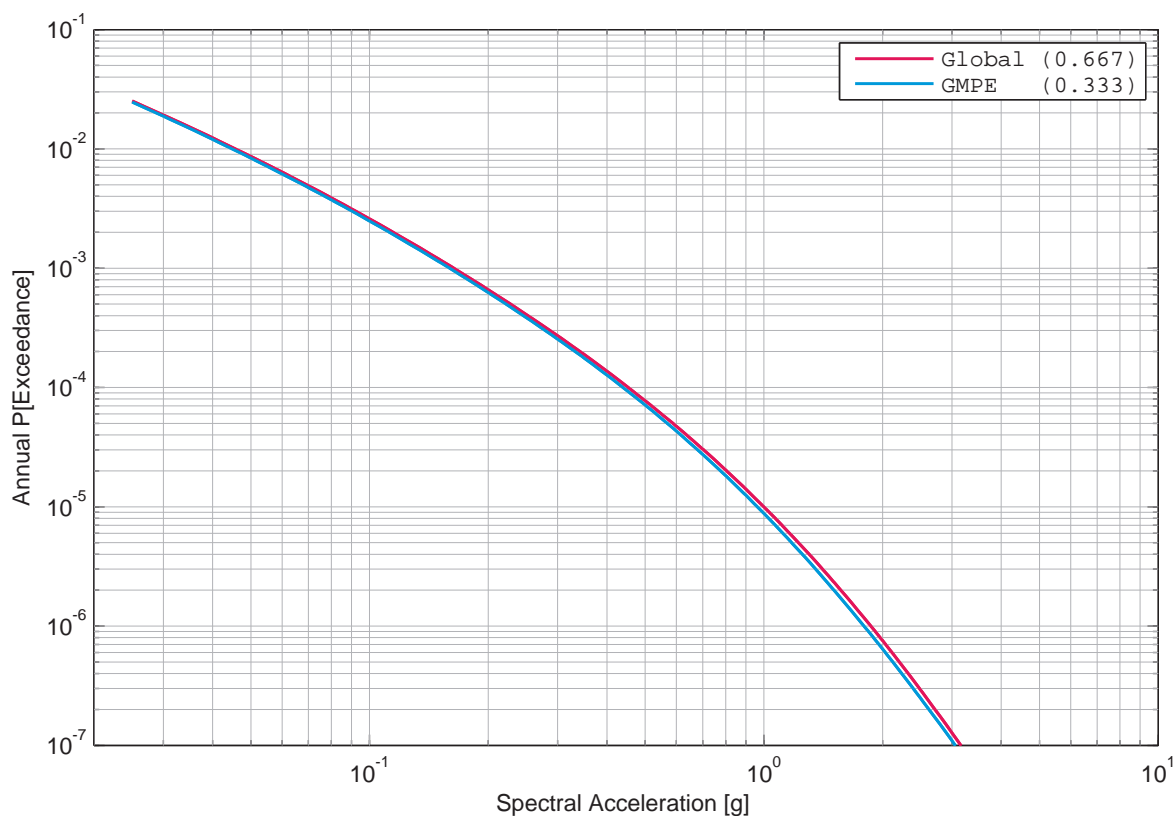


Figure 3.8.50: Gösgen, horizontal component, rock, Bungum's sensitivity to tau, 5 Hz.

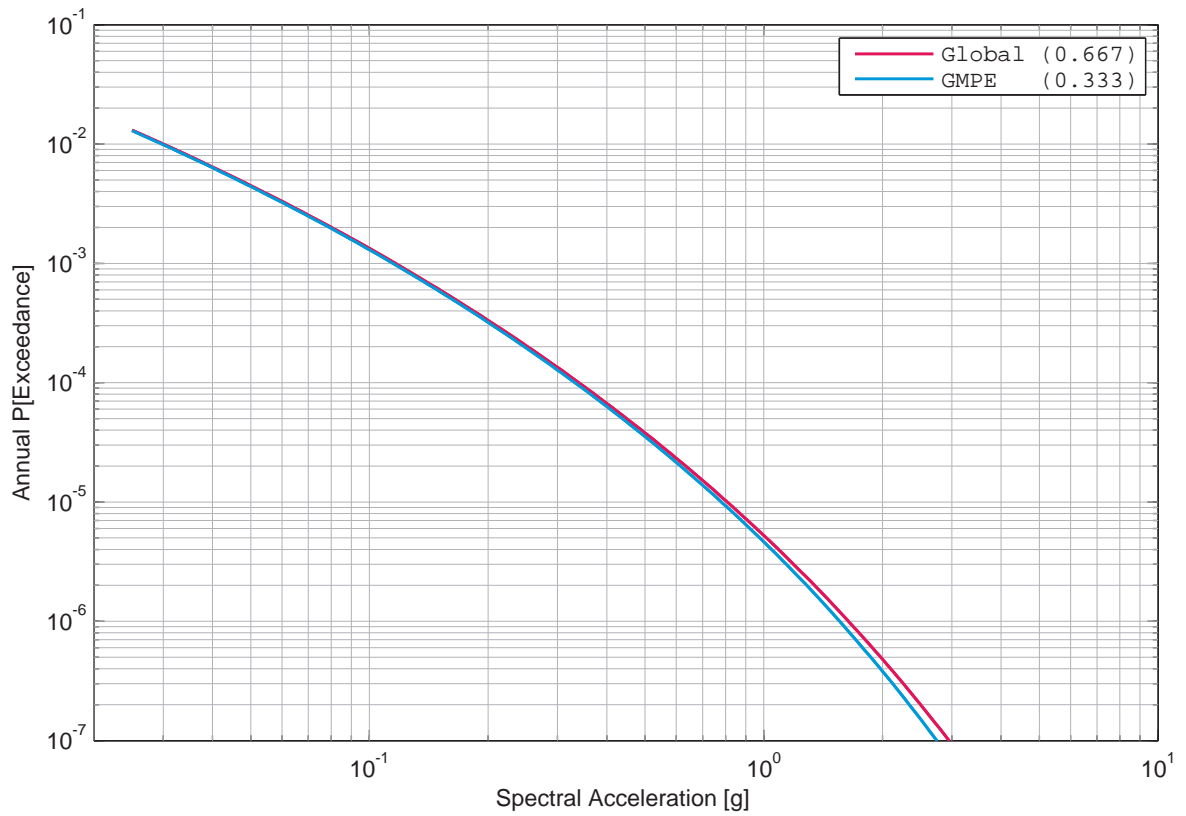


Figure 3.8.51: Gösgen, horizontal component, rock, Bungum’s sensitivity to tau, 33 Hz.

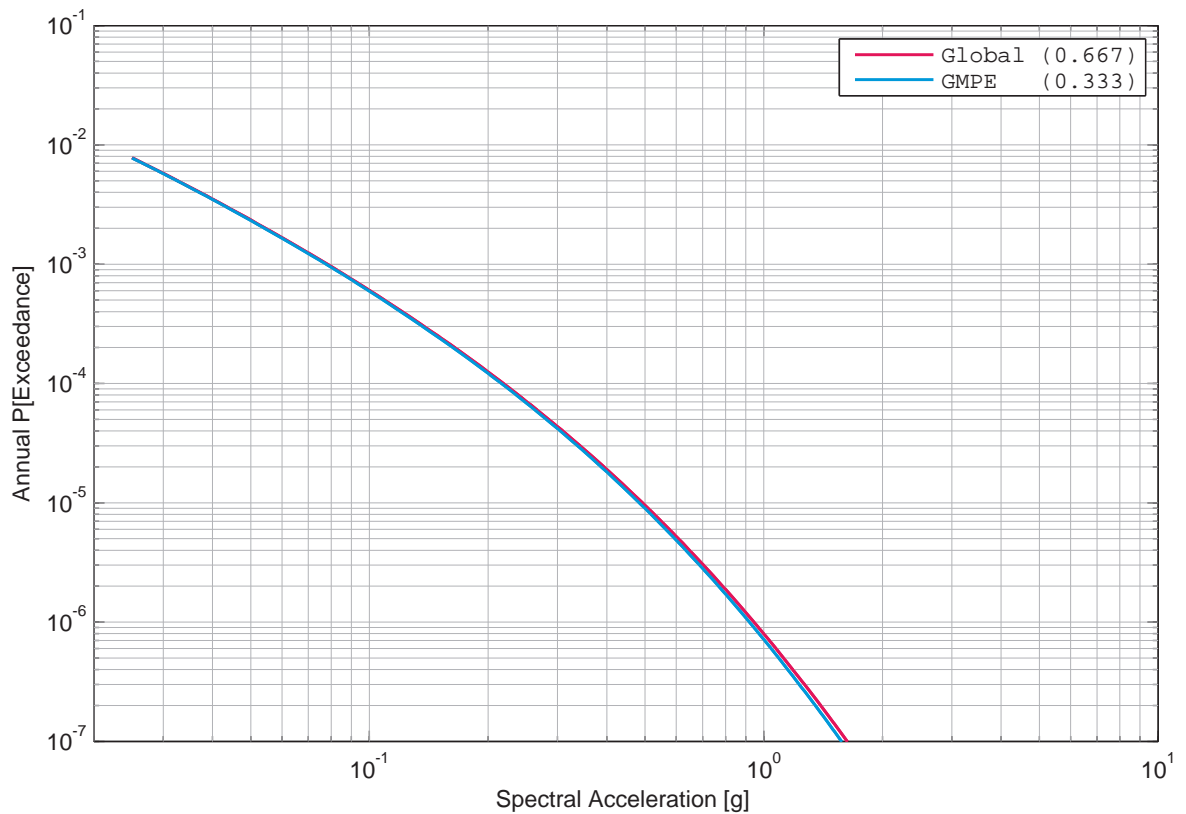


Figure 3.8.52: Gösgen, horizontal component, rock, Bungum’s sensitivity to tau, 100 Hz.

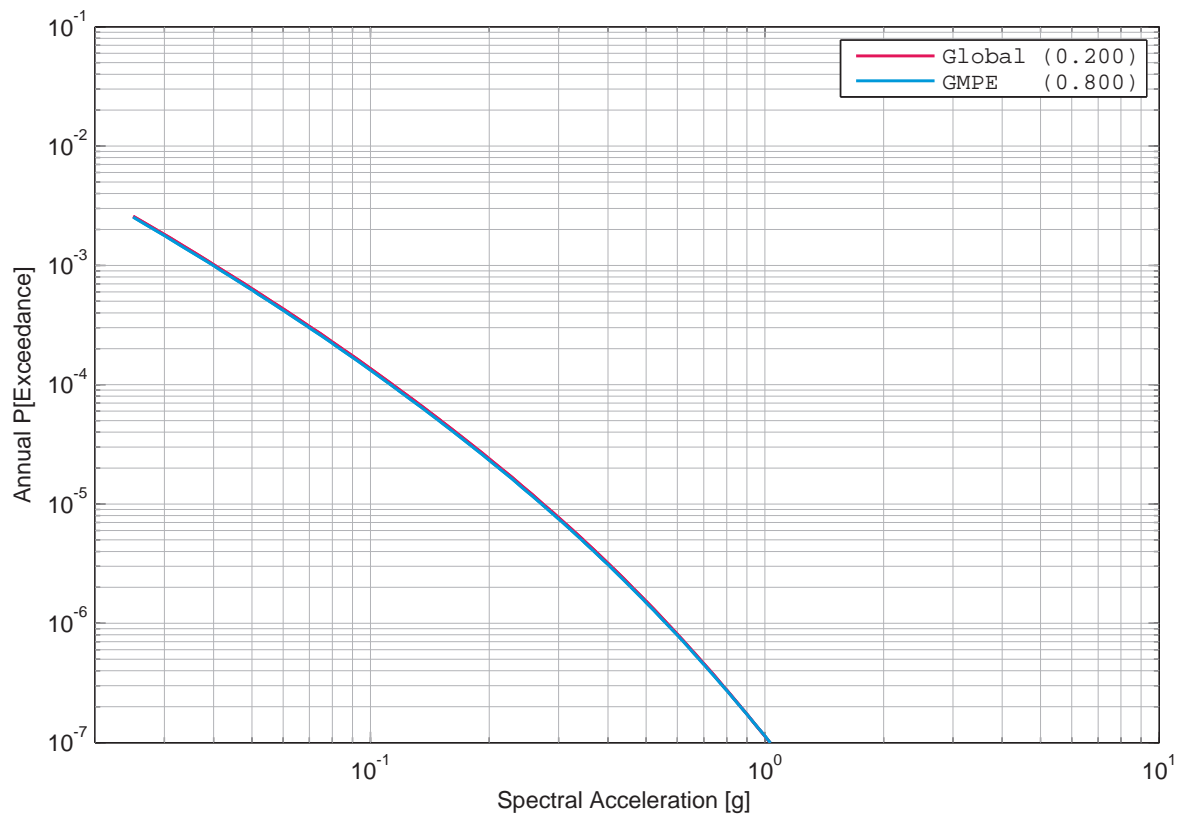


Figure 3.8.53: Gösgen, horizontal component, rock, Campbell's sensitivity to tau, 1 Hz.

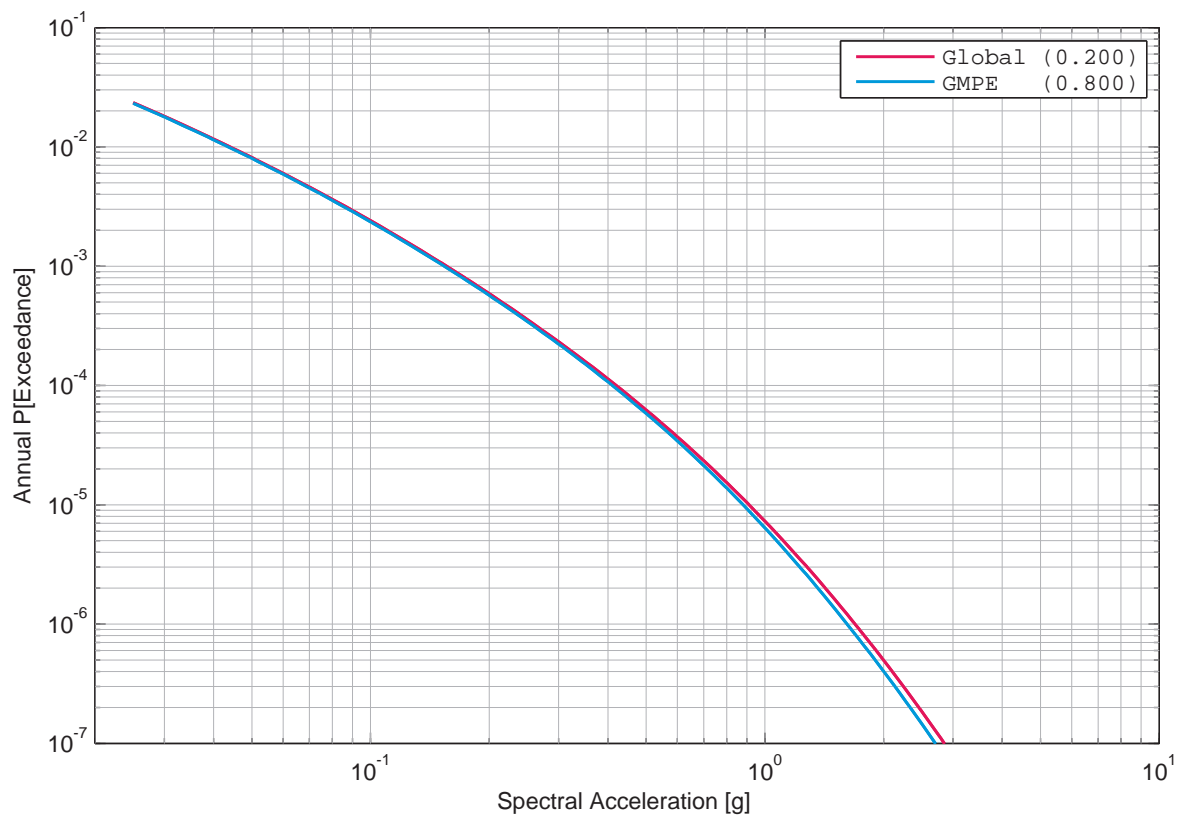


Figure 3.8.54: Gösgen, horizontal component, rock, Campbell's sensitivity to tau, 5 Hz.

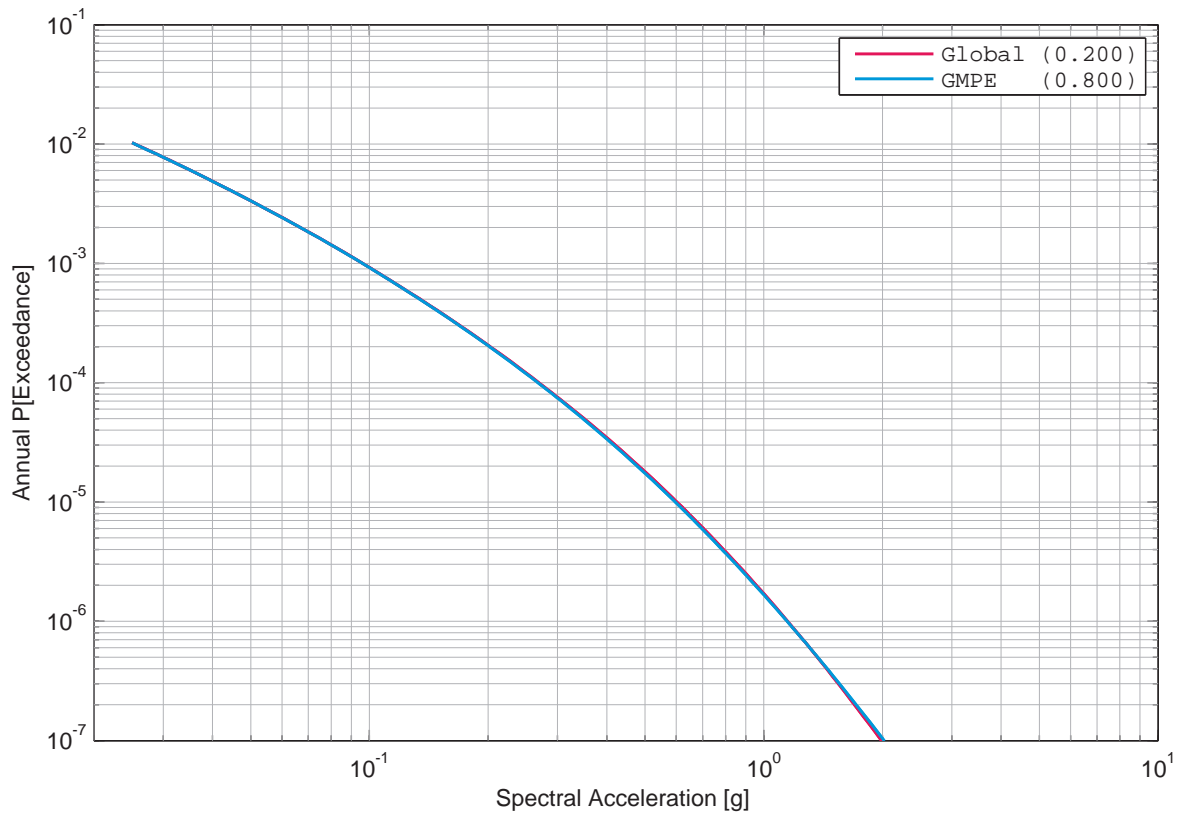


Figure 3.8.55: Gösgen, horizontal component, rock, Campbell’s sensitivity to tau, 33 Hz.

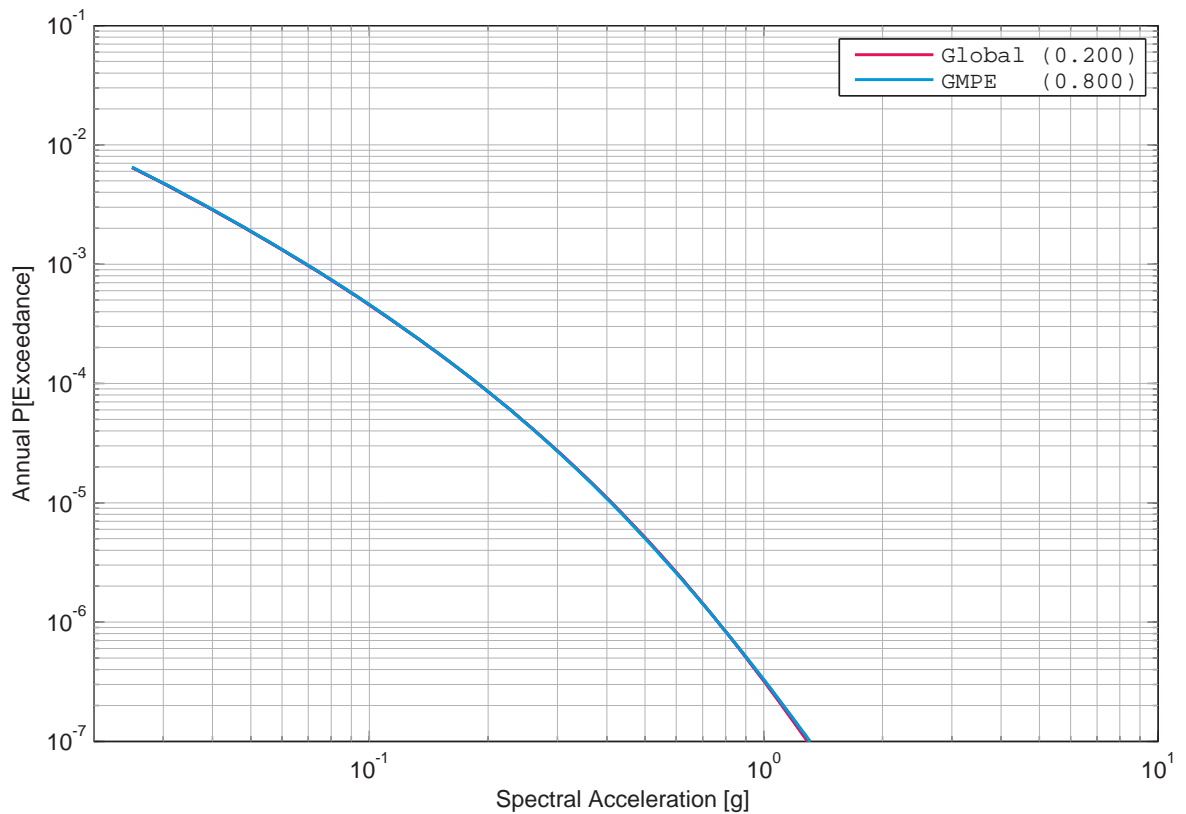


Figure 3.8.56: Gösgen, horizontal component, rock, Campbell’s sensitivity to tau, 100 Hz.

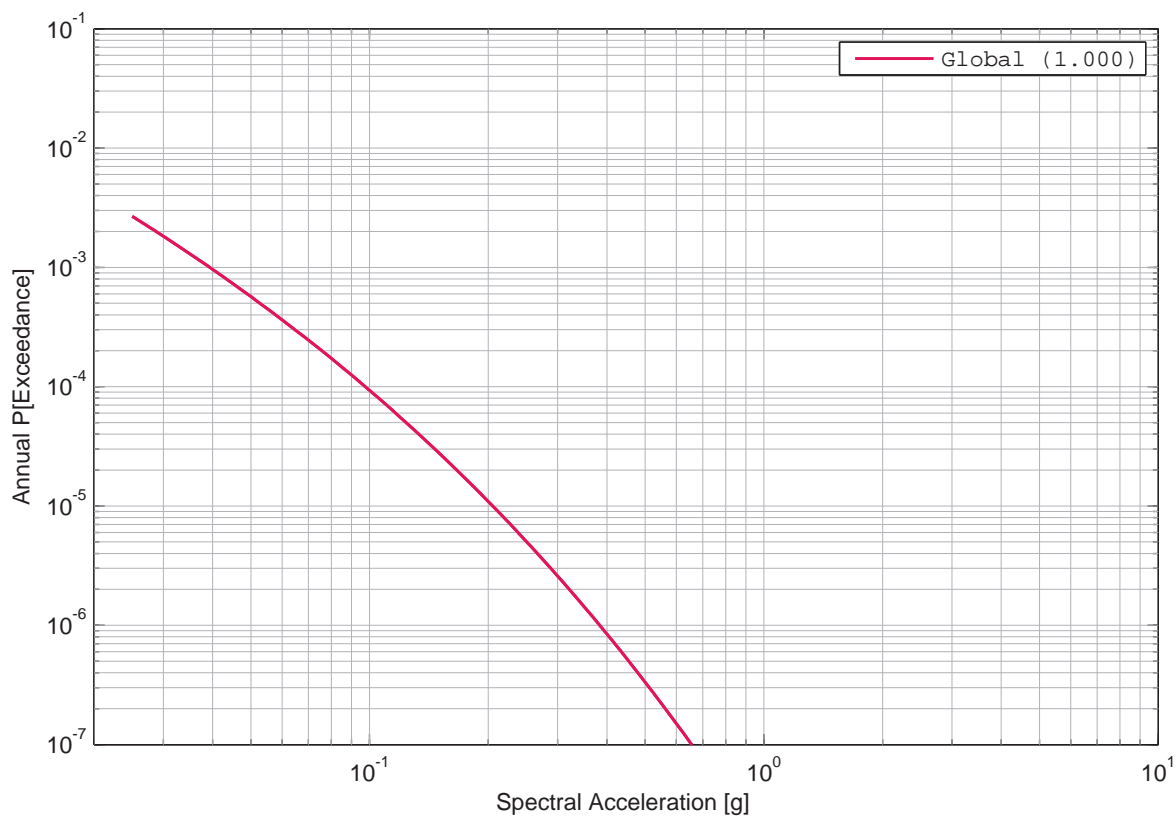


Figure 3.8.57: Gösgen, horizontal component, rock, Cotton’s sensitivity to tau, 1 Hz.

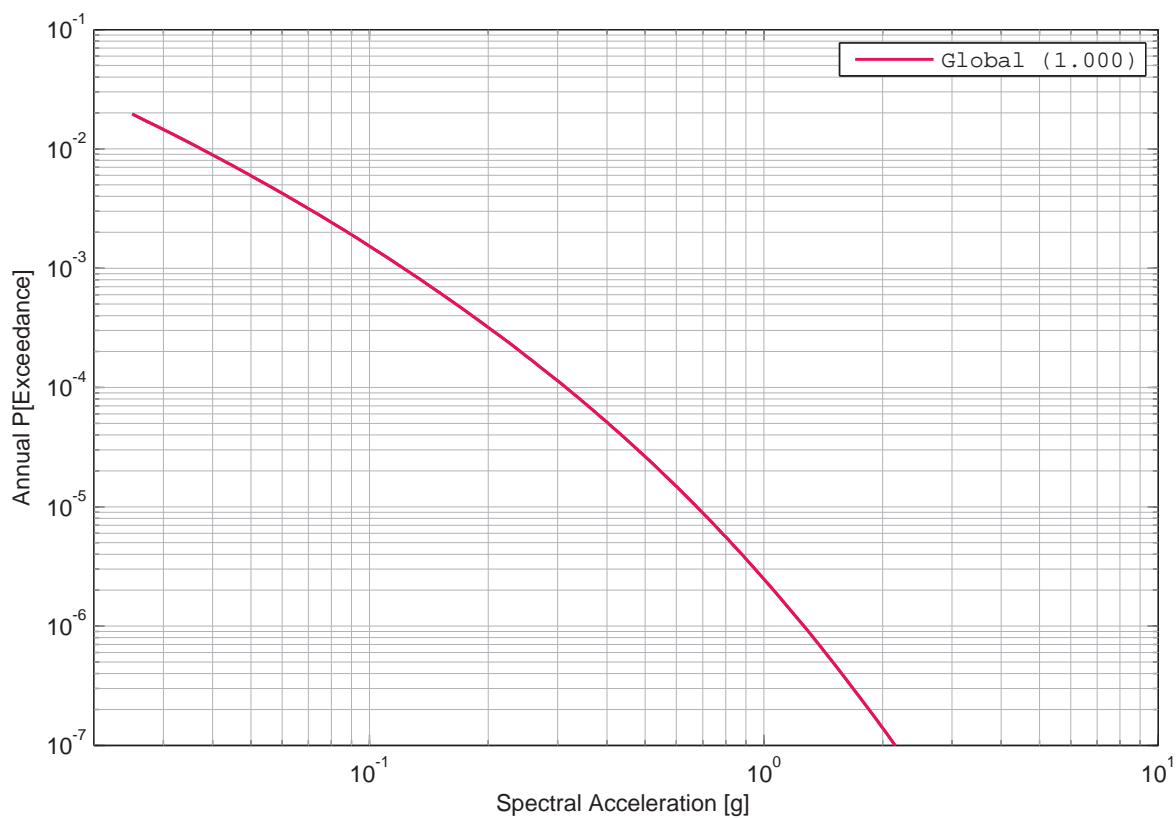


Figure 3.8.58: Gösgen, horizontal component, rock, Cotton’s sensitivity to tau, 5 Hz.

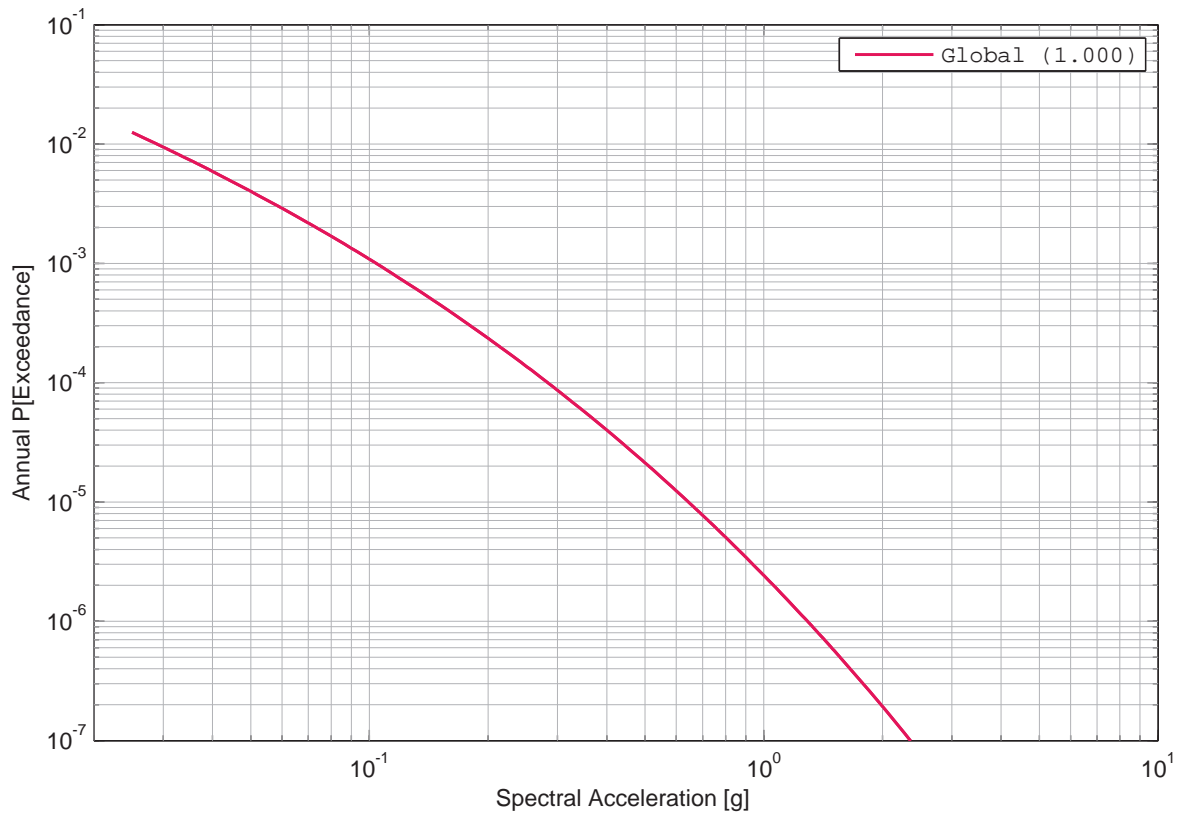


Figure 3.8.59: Gösgen, horizontal component, rock, Cotton’s sensitivity to tau, 33 Hz.

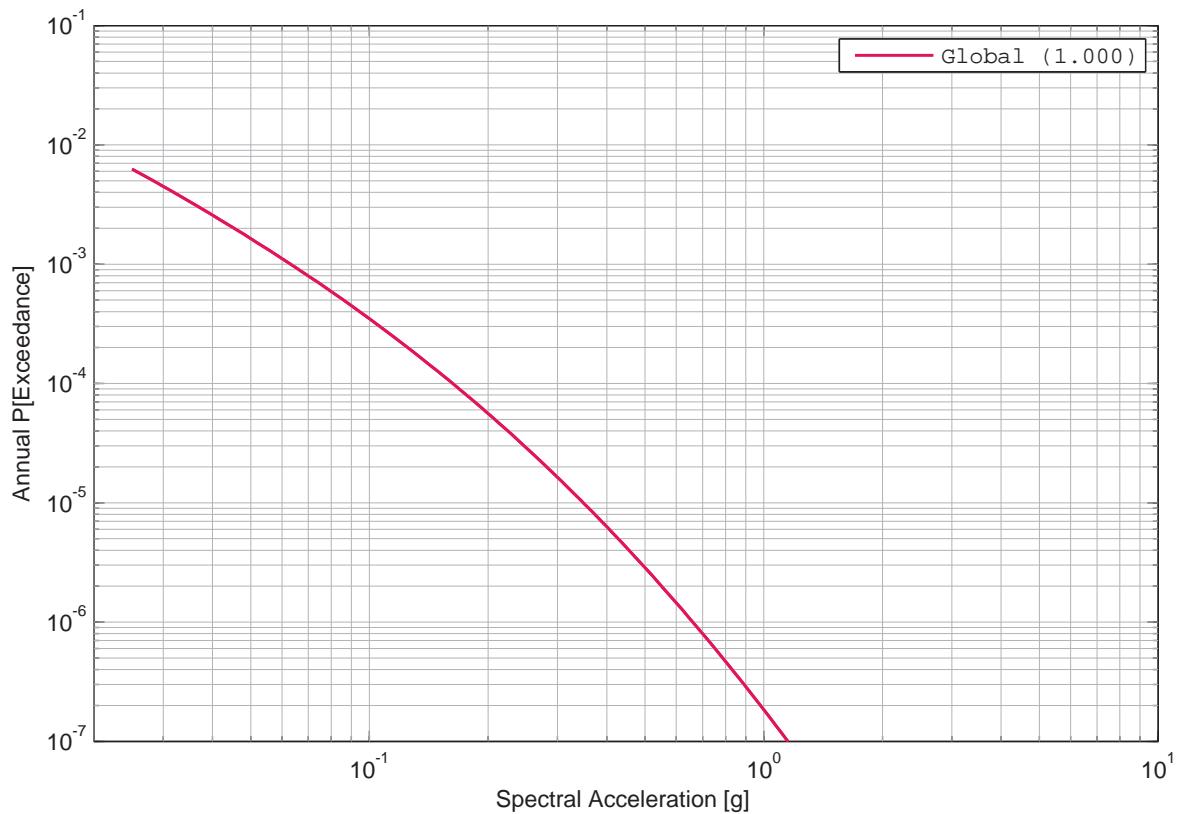


Figure 3.8.60: Gösgen, horizontal component, rock, Cotton’s sensitivity to tau, 100 Hz.

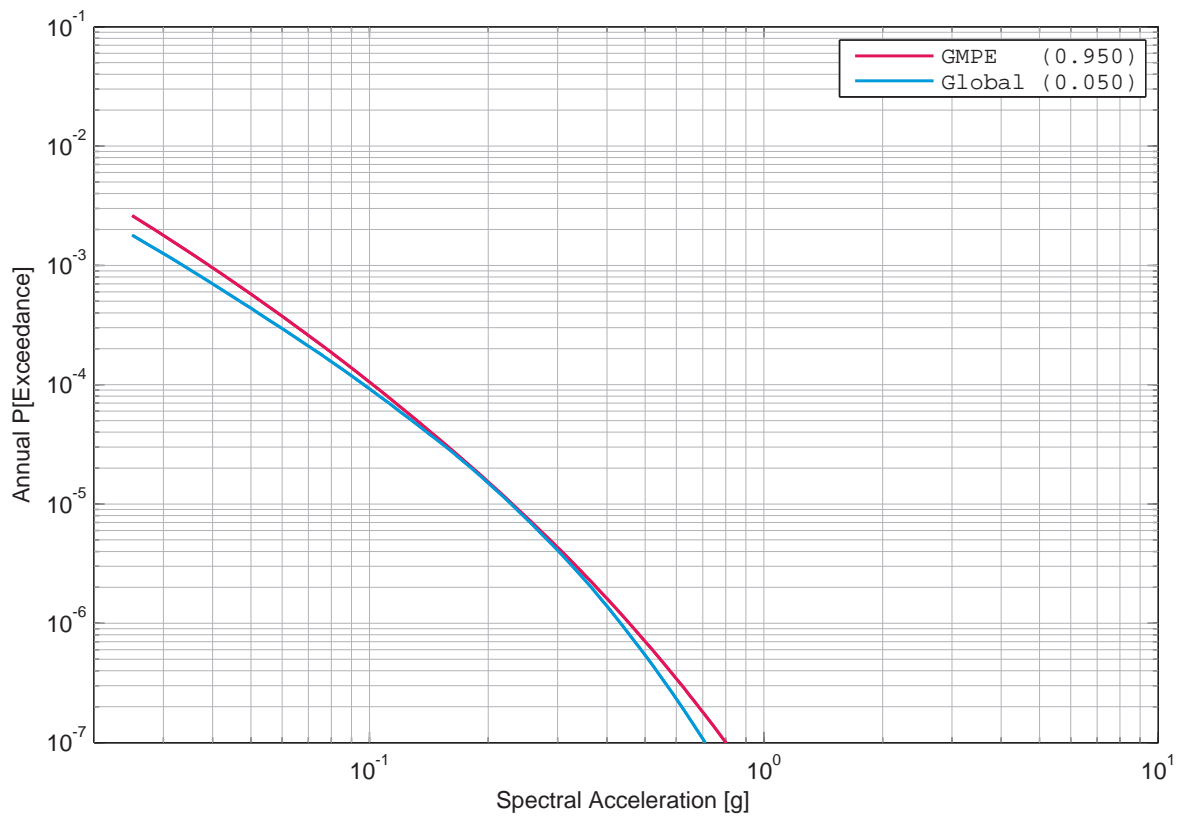


Figure 3.8.61: Gösgen, horizontal component, rock, Faeh's sensitivity to tau, 1 Hz.

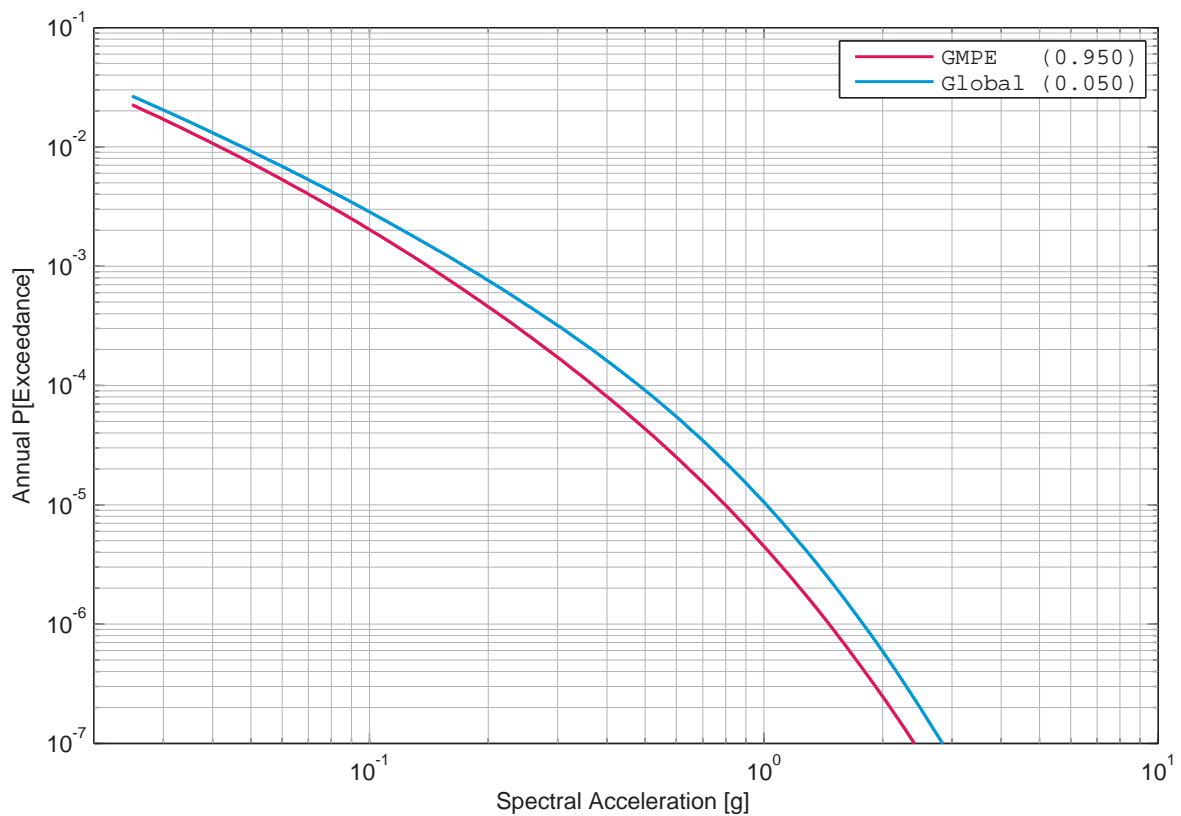


Figure 3.8.62: Gösgen, horizontal component, rock, Faeh's sensitivity to tau, 5 Hz.

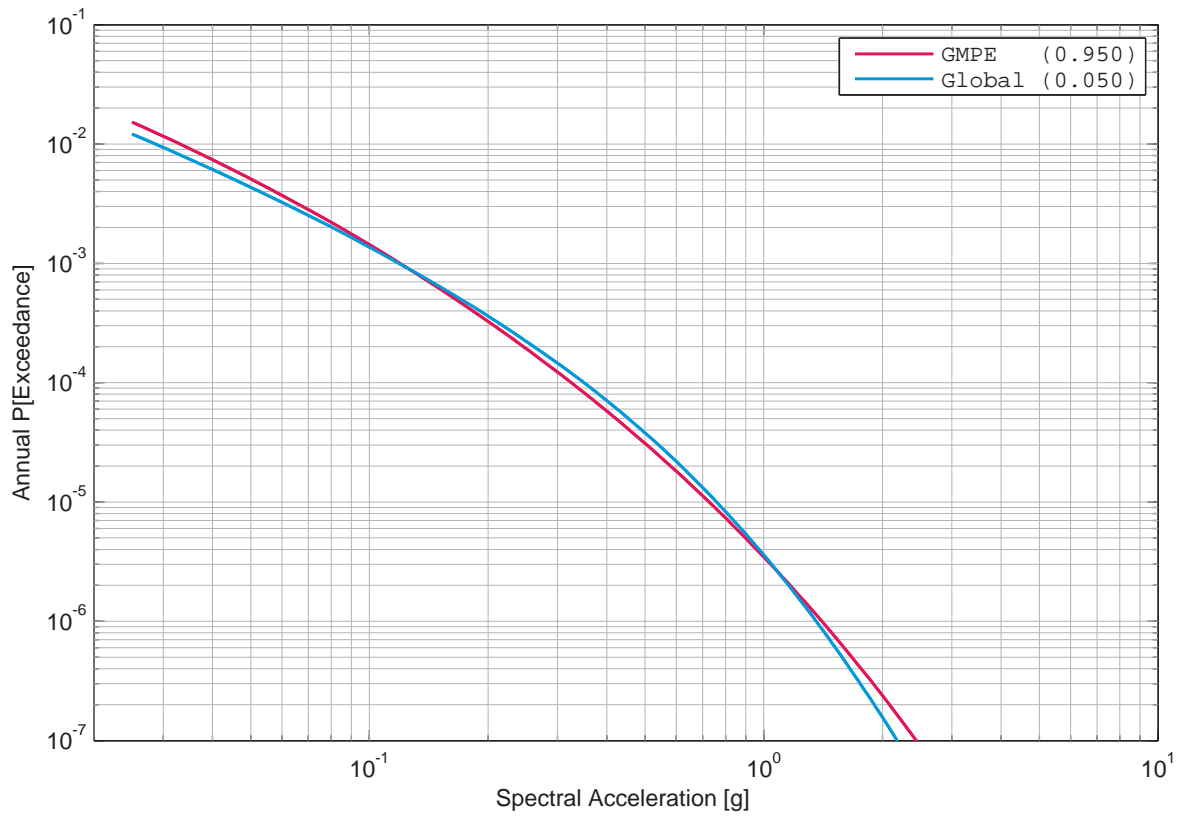


Figure 3.8.63: Gösgen, horizontal component, rock, Faeh's sensitivity to tau, 33 Hz.

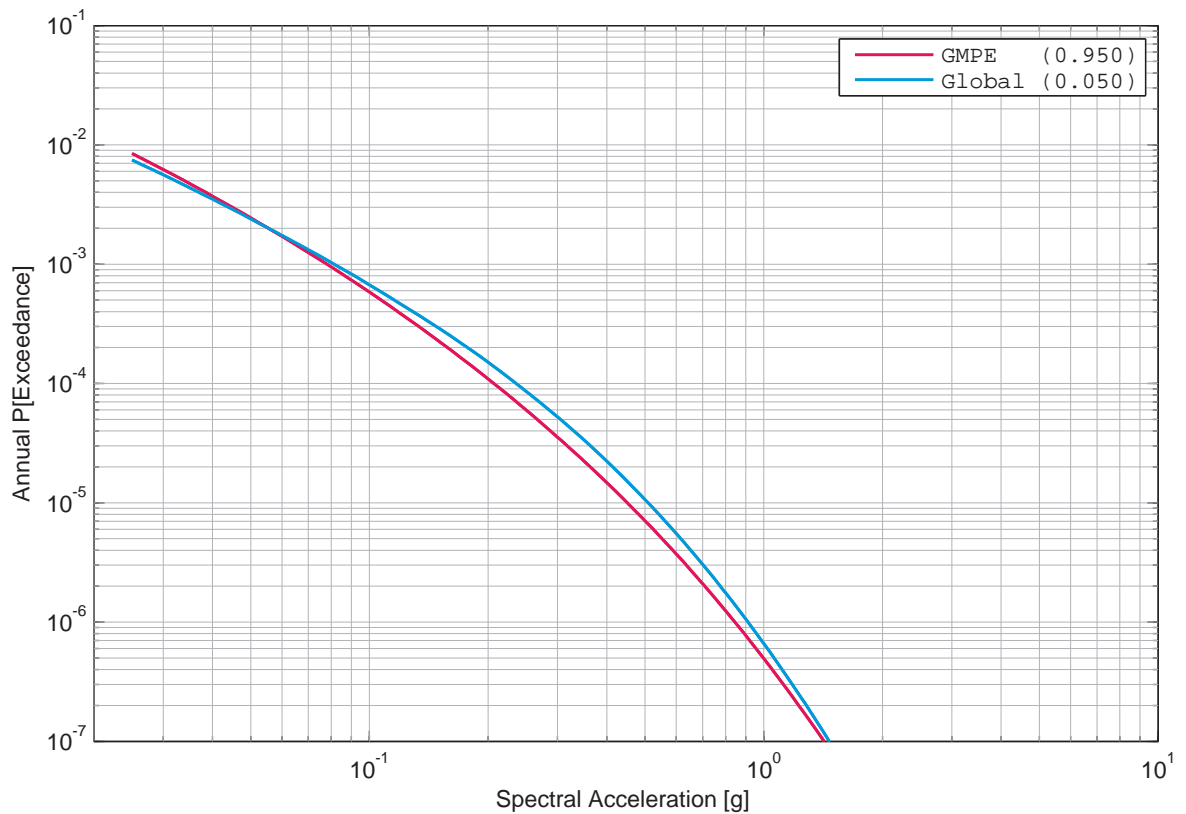


Figure 3.8.64: Gösgen, horizontal component, rock, Faeh's sensitivity to tau, 100 Hz.

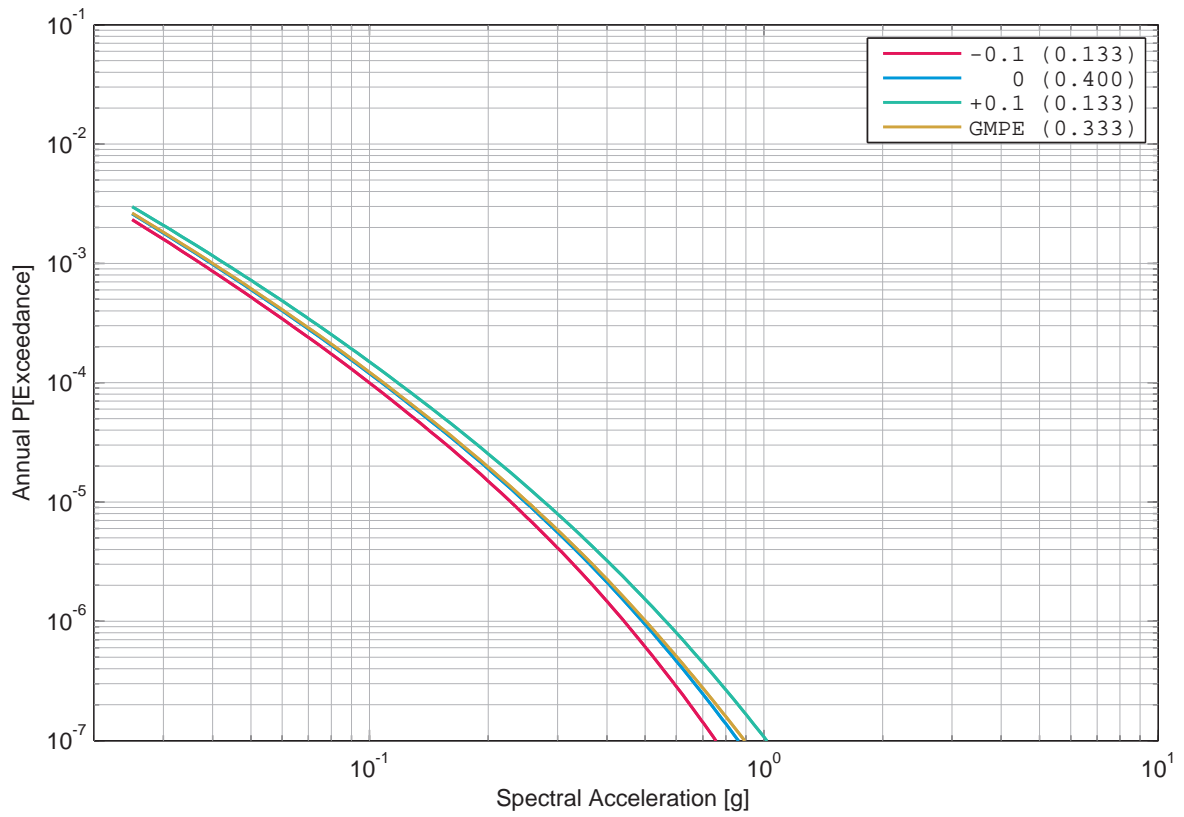


Figure 3.8.65: Gösgen, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 1 Hz.

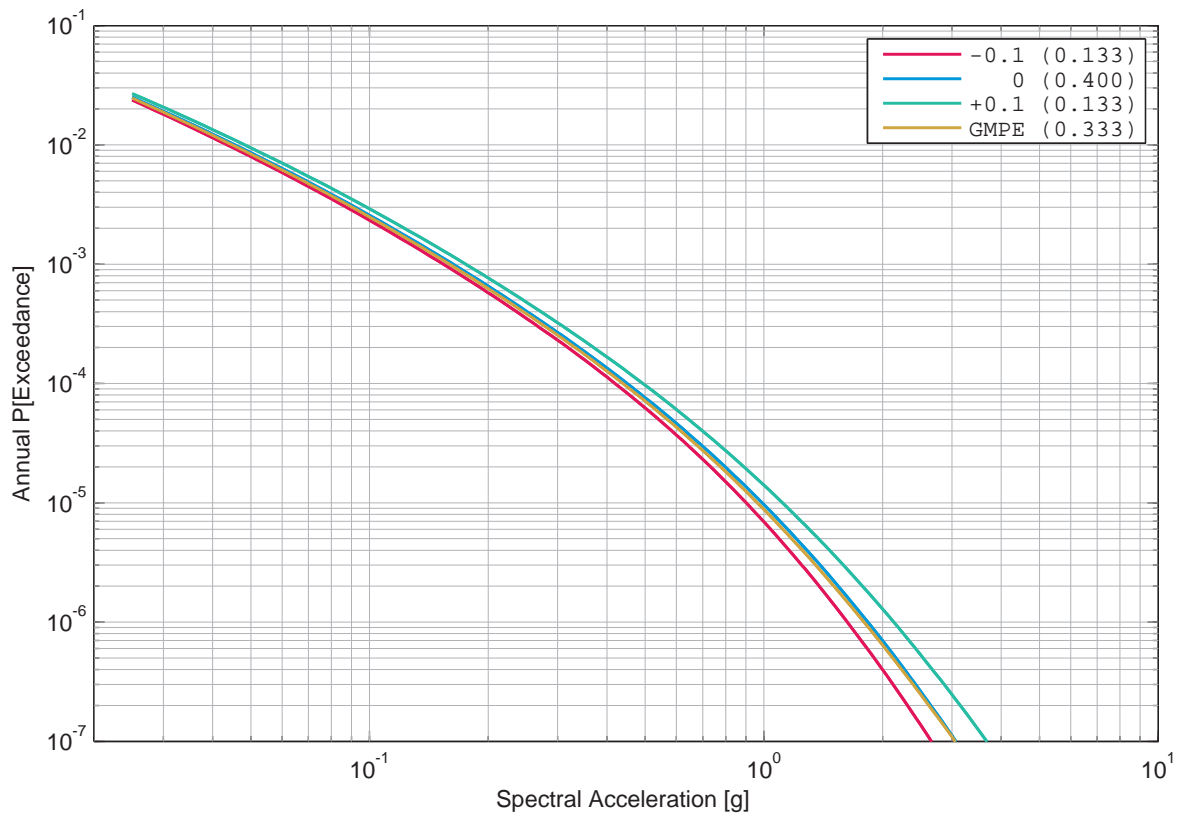


Figure 3.8.66: Gösgen, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 5 Hz.

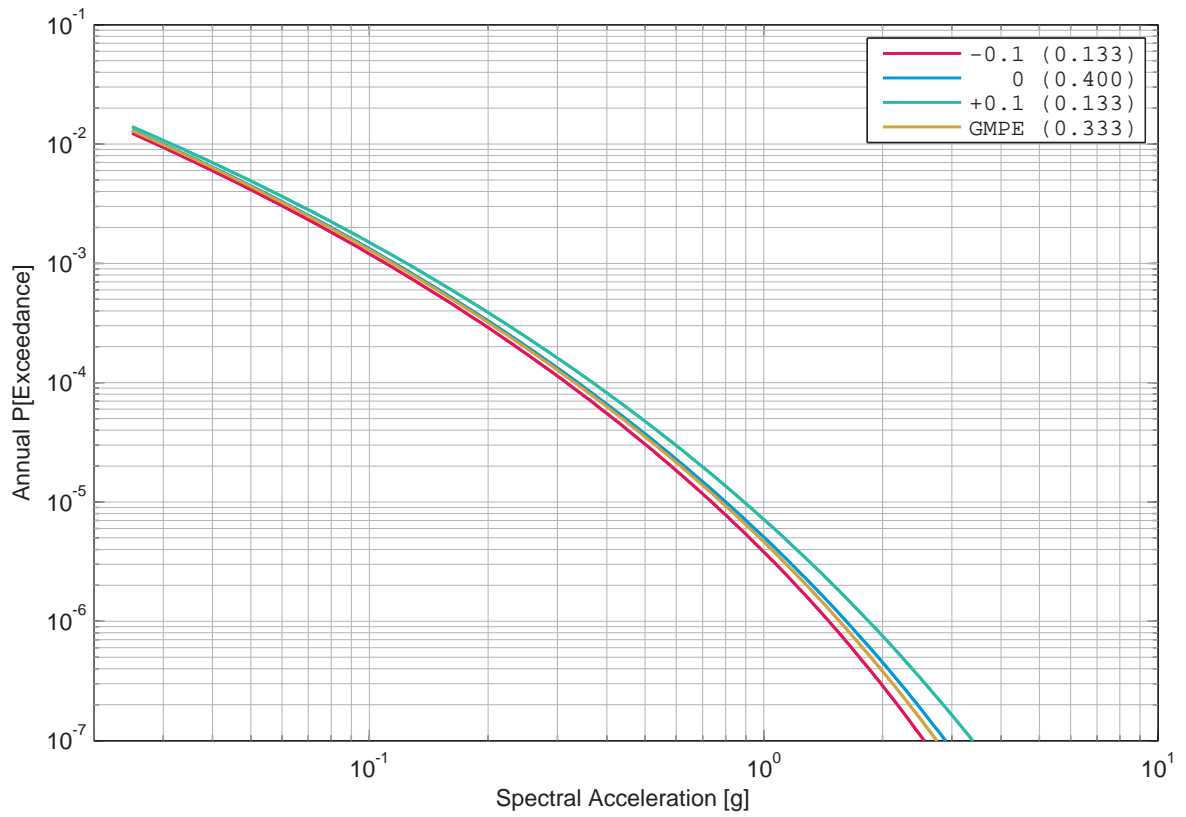


Figure 3.8.67: Gösgen, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 33 Hz.

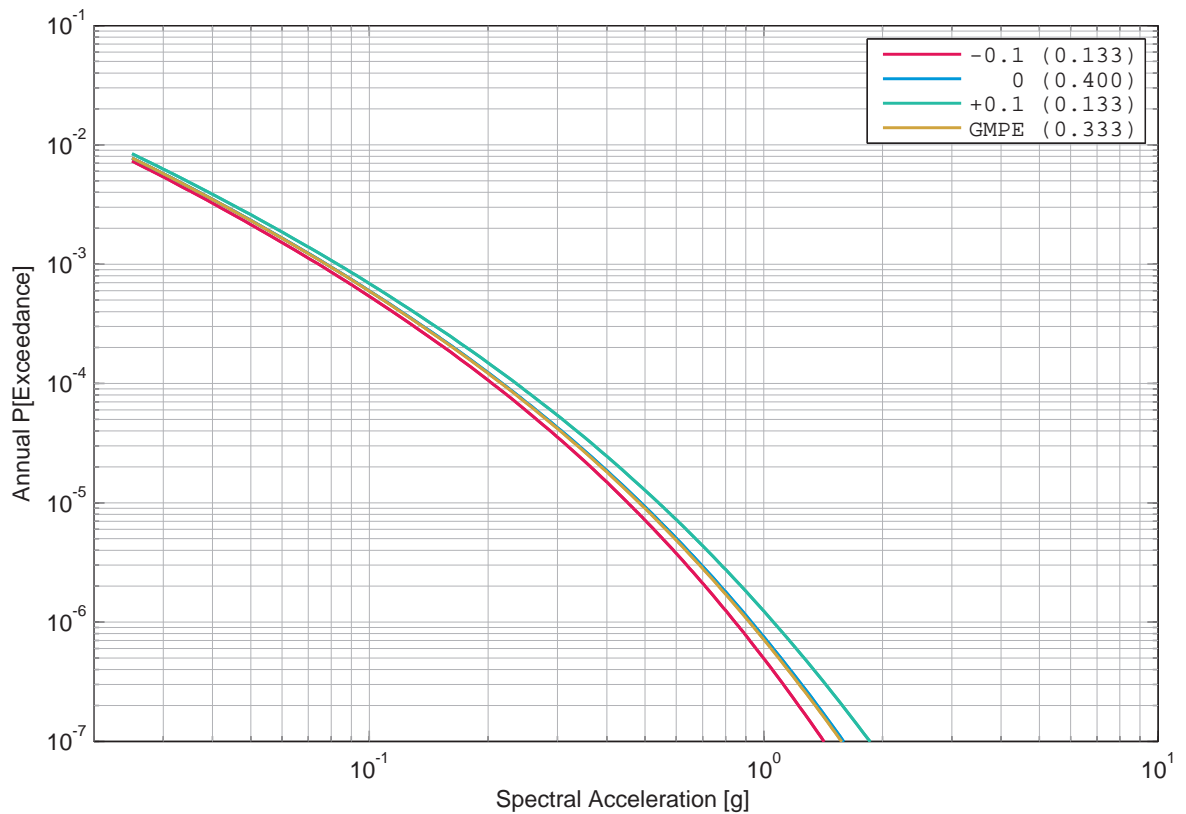


Figure 3.8.68: Gösgen, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 100 Hz.

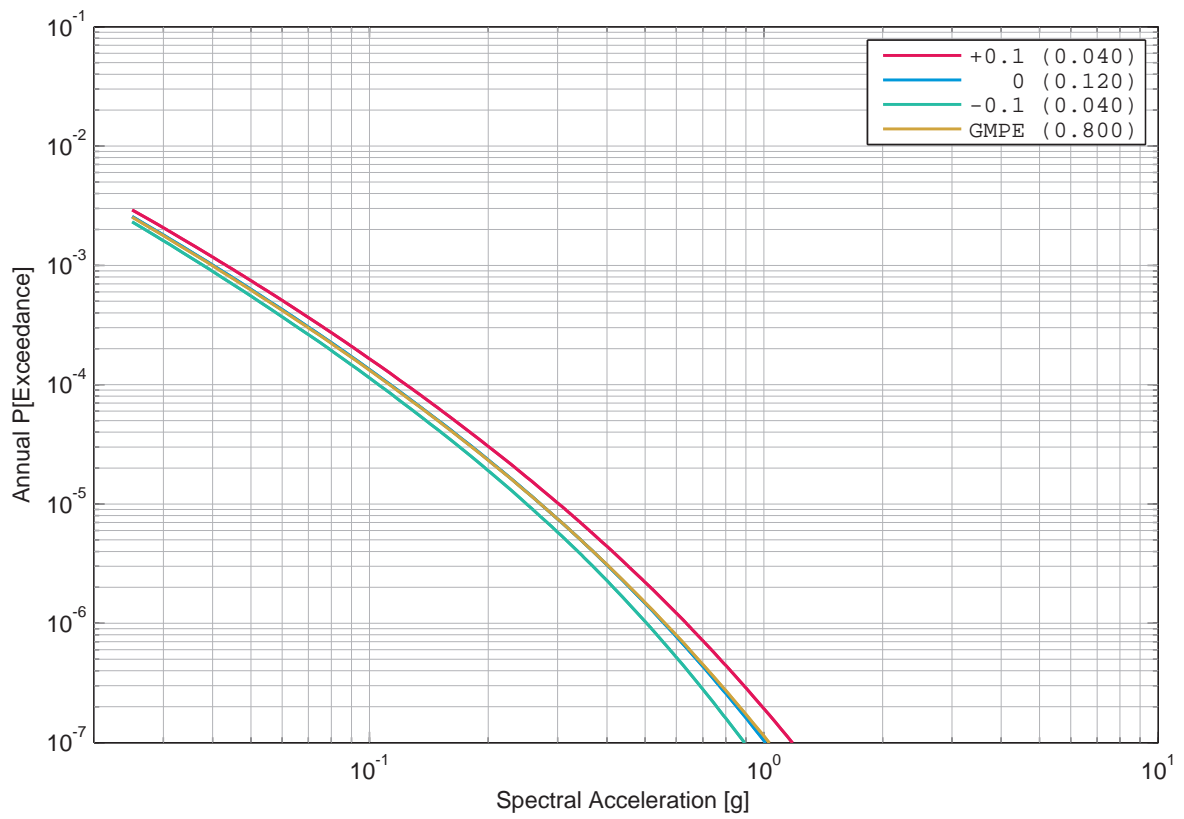


Figure 3.8.69: Gösgen, horizontal component, rock, Campbell's sensitivity to the tau uncertainty, 1 Hz.

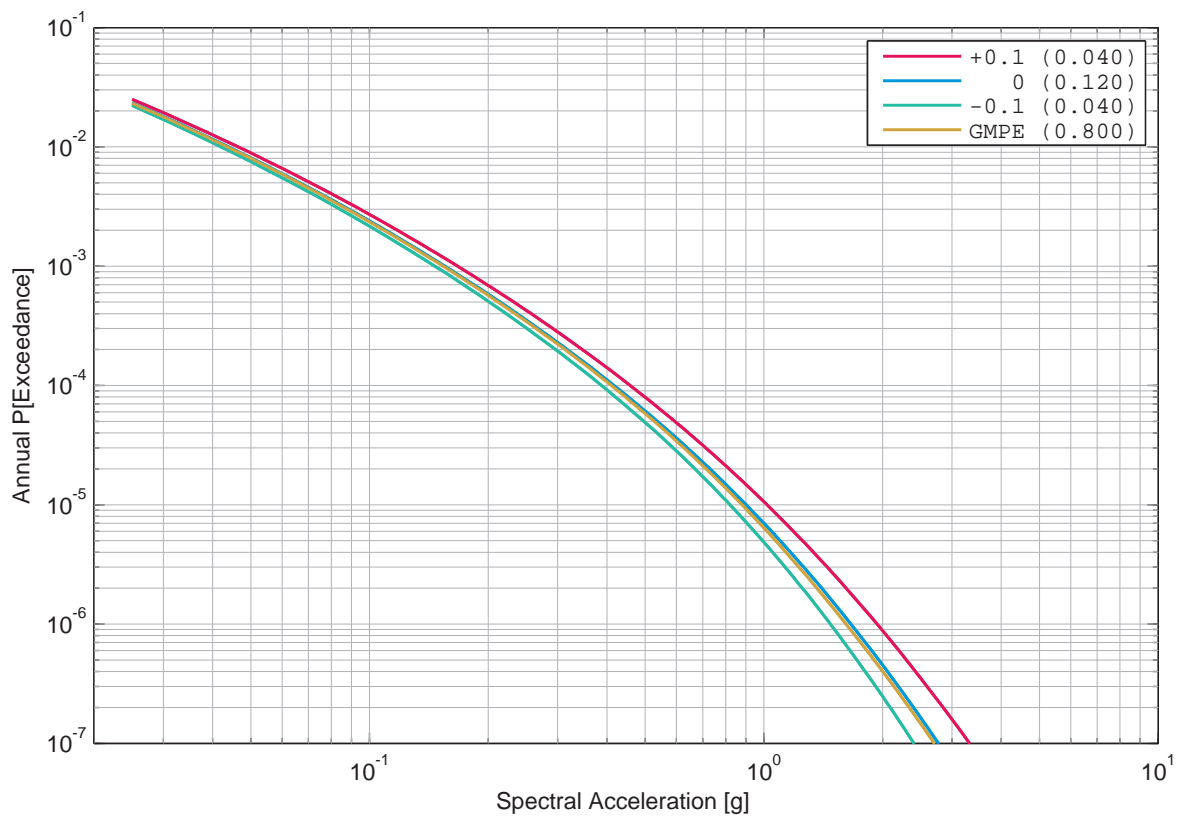


Figure 3.8.70: Gösgen, horizontal component, rock, Campbell's sensitivity to the tau uncertainty, 5 Hz.

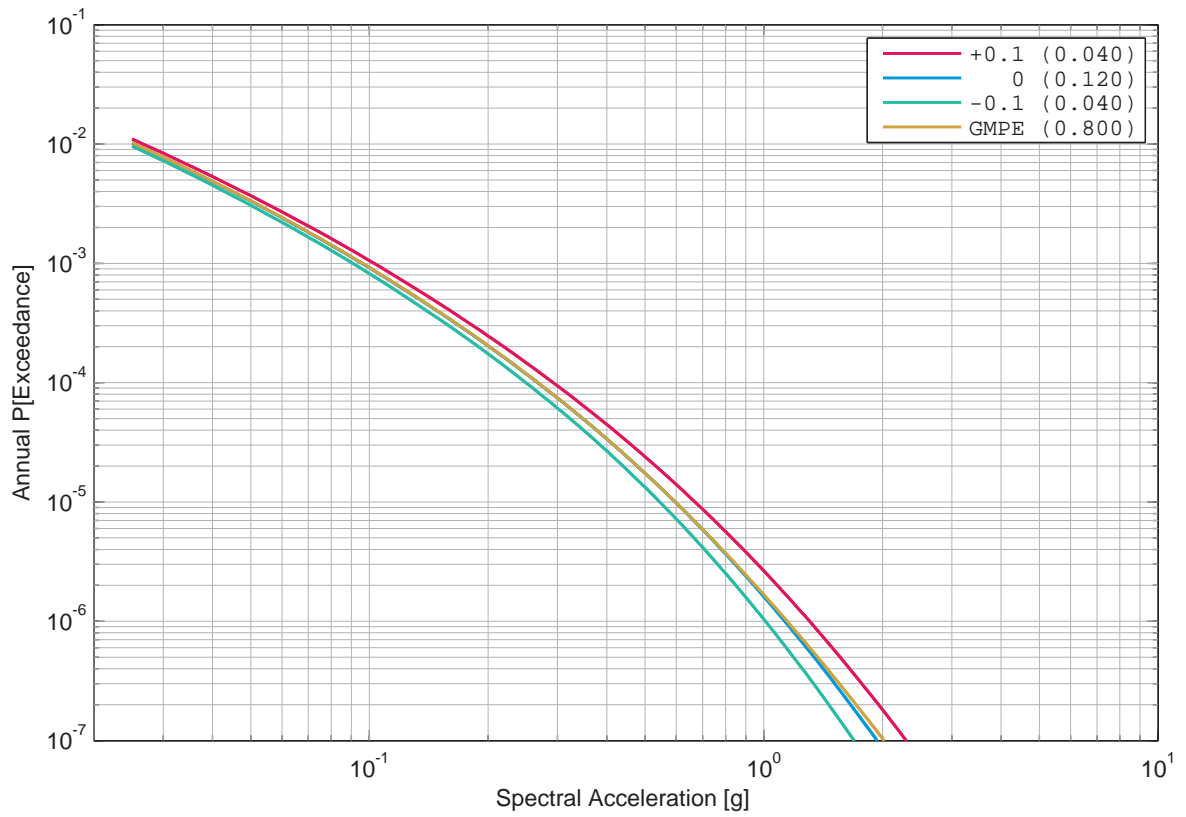


Figure 3.8.71: Gösgen, horizontal component, rock, Campbell’s sensitivity to the tau uncertainty, 33 Hz.

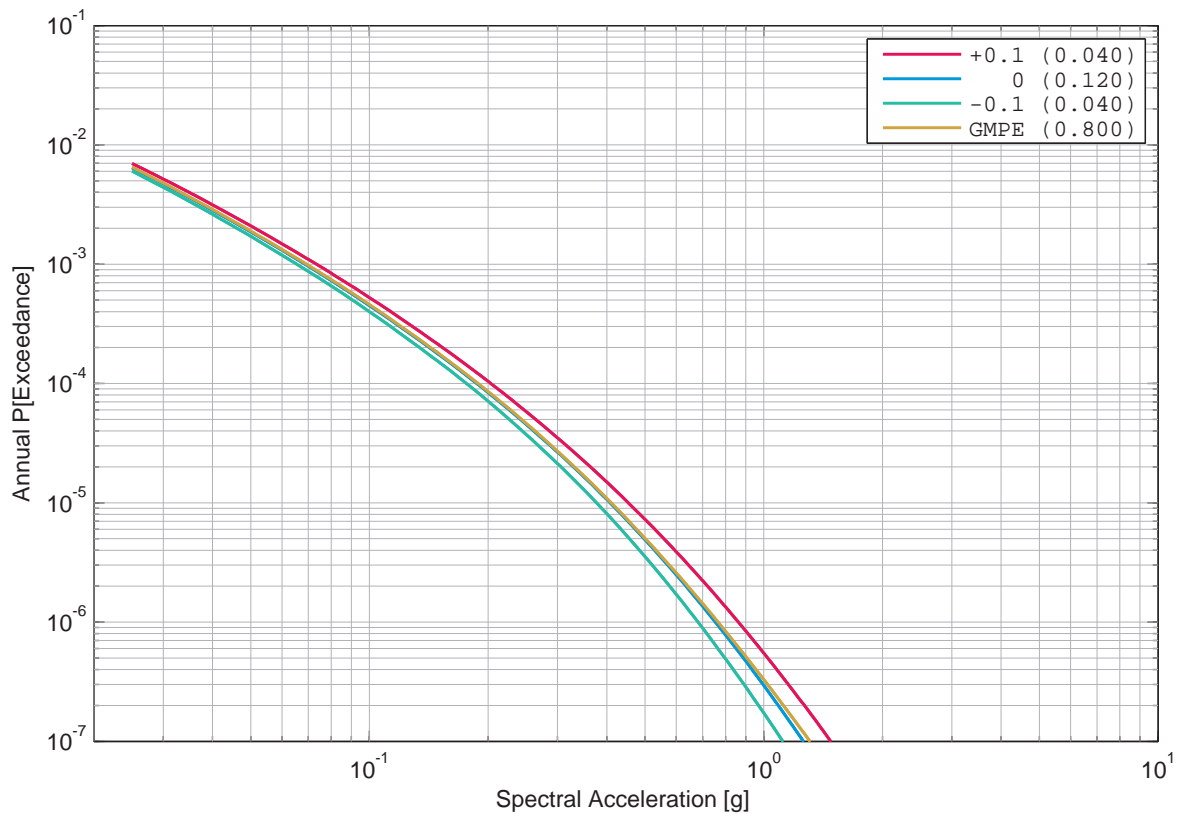


Figure 3.8.72: Gösgen, horizontal component, rock, Campbell’s sensitivity to the tau uncertainty, 100 Hz.

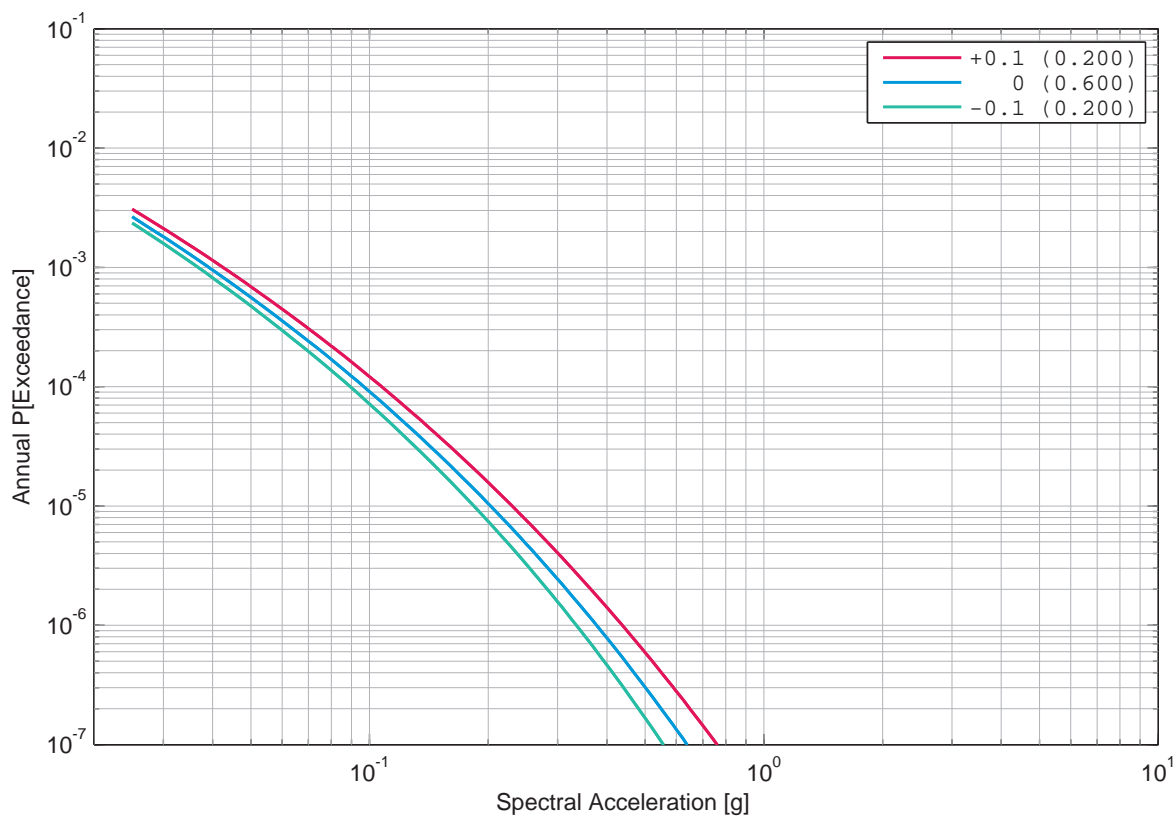


Figure 3.8.73: Gösgen, horizontal component, rock, Cotton’s sensitivity to the tau uncertainty, 1 Hz.

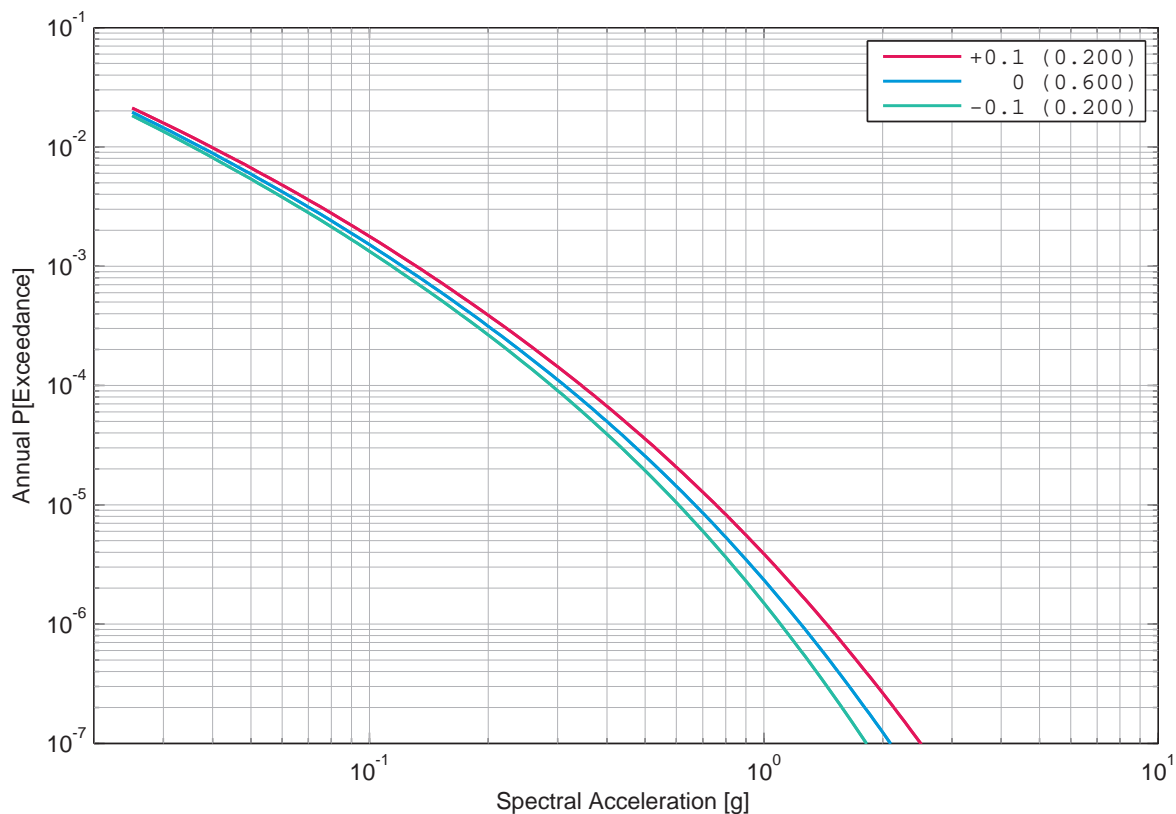


Figure 3.8.74: Gösgen, horizontal component, rock, Cotton’s sensitivity to the tau uncertainty, 5 Hz.

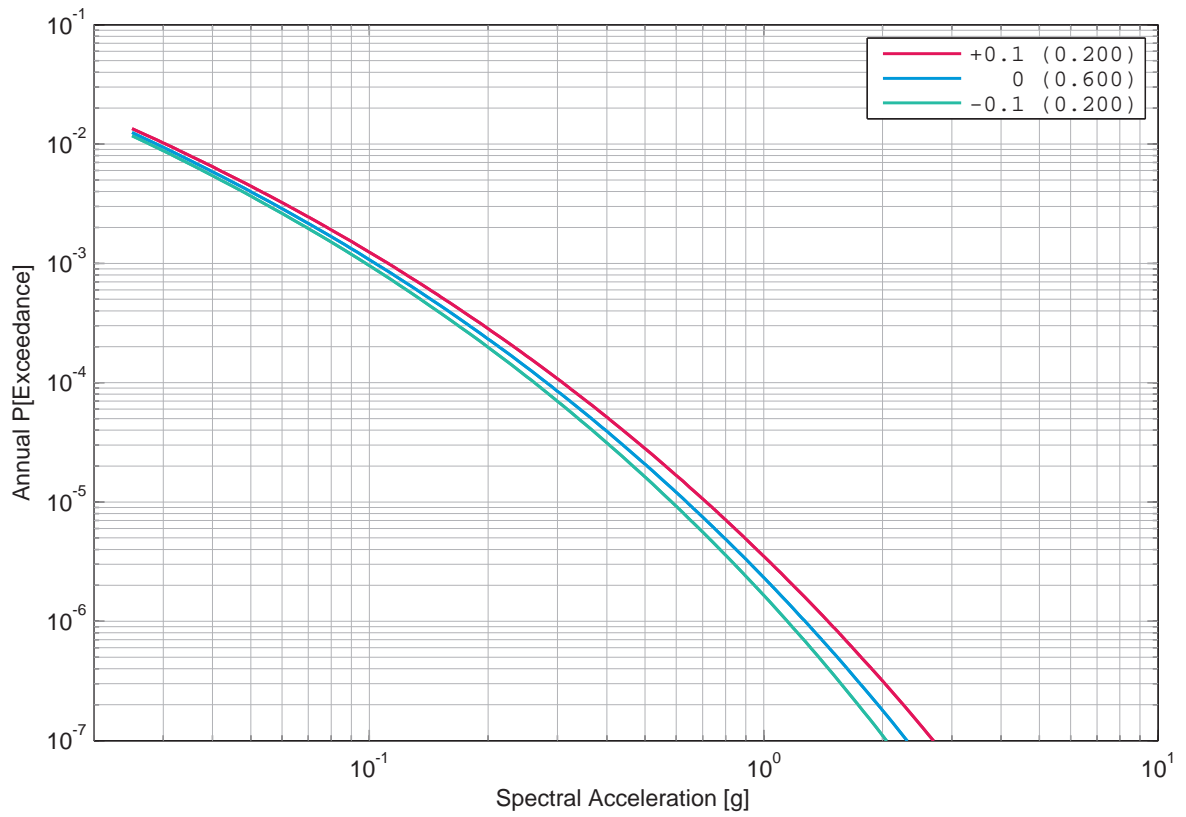


Figure 3.8.75: Gösgen, horizontal component, rock, Cotton’s sensitivity to the tau uncertainty, 33 Hz.

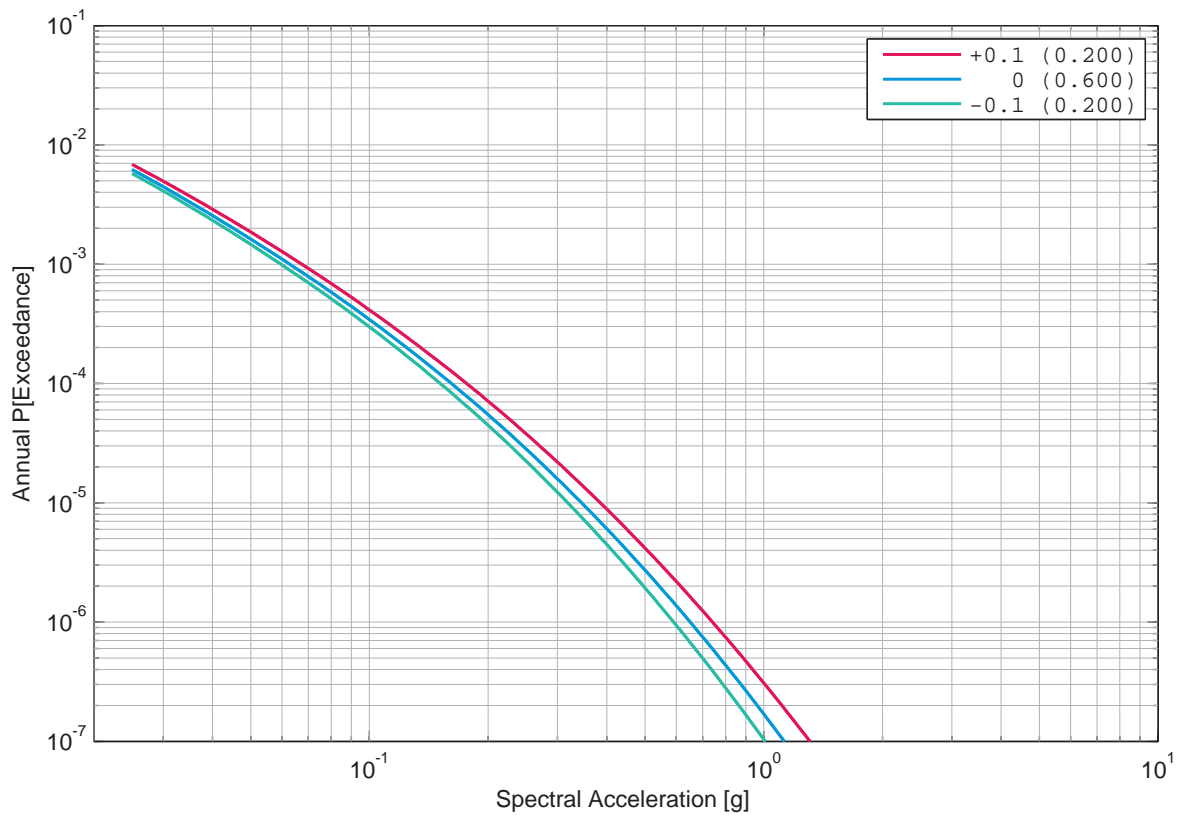


Figure 3.8.76: Gösgen, horizontal component, rock, Cotton’s sensitivity to the tau uncertainty, 100 Hz.

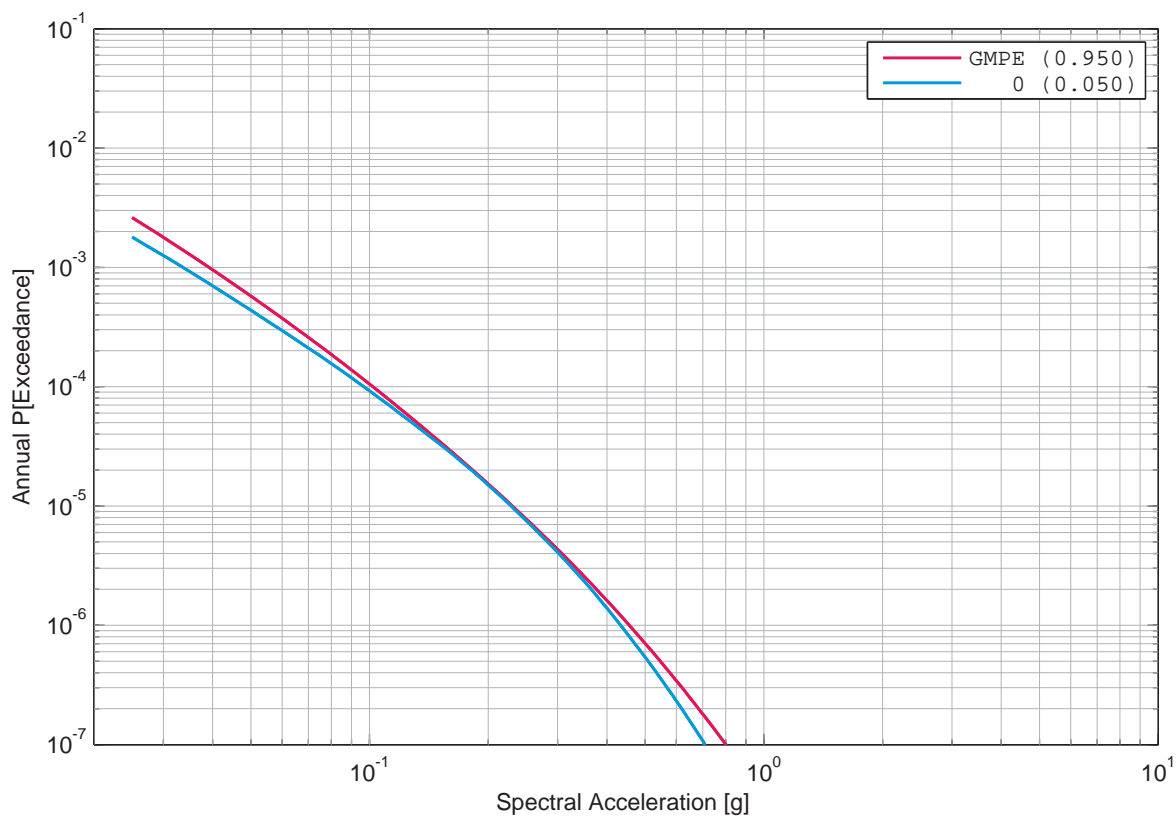


Figure 3.8.77: Gösgen, horizontal component, rock, Faeh's sensitivity to the tau uncertainty, 1 Hz.

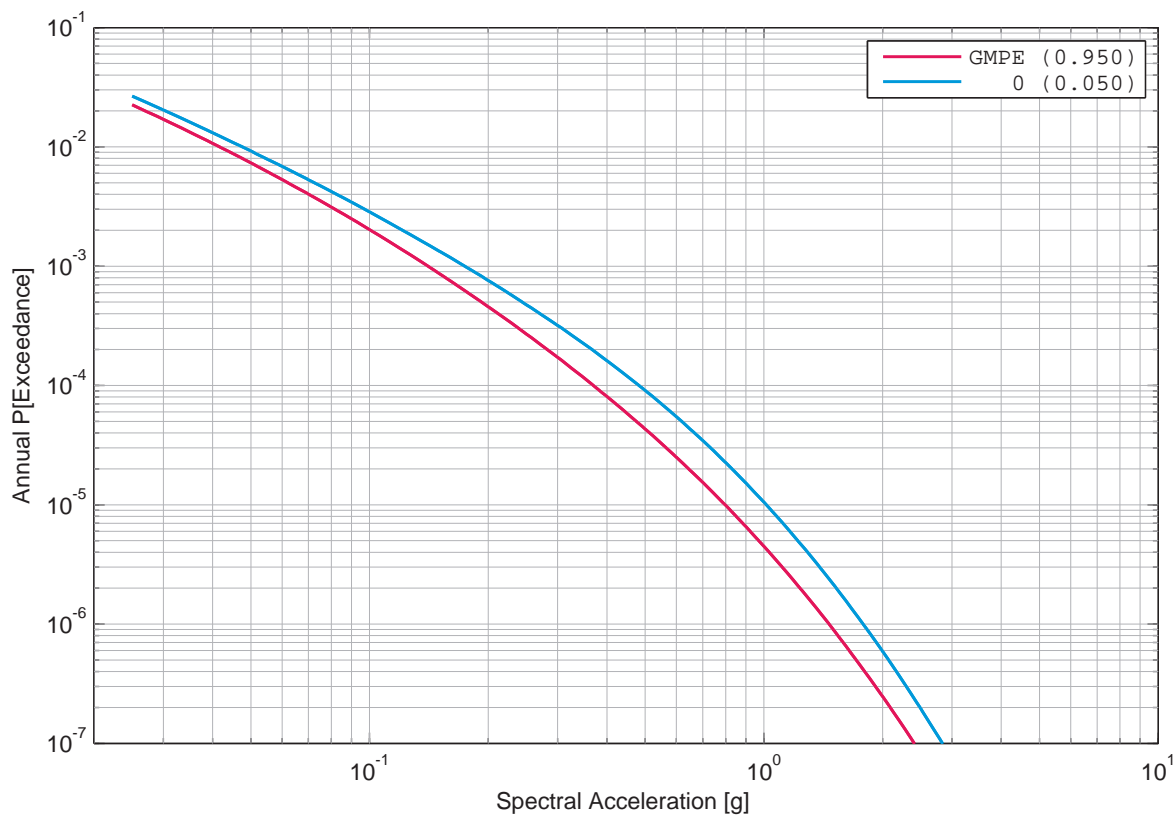


Figure 3.8.78: Gösgen, horizontal component, rock, Faeh's sensitivity to the tau uncertainty, 5 Hz.

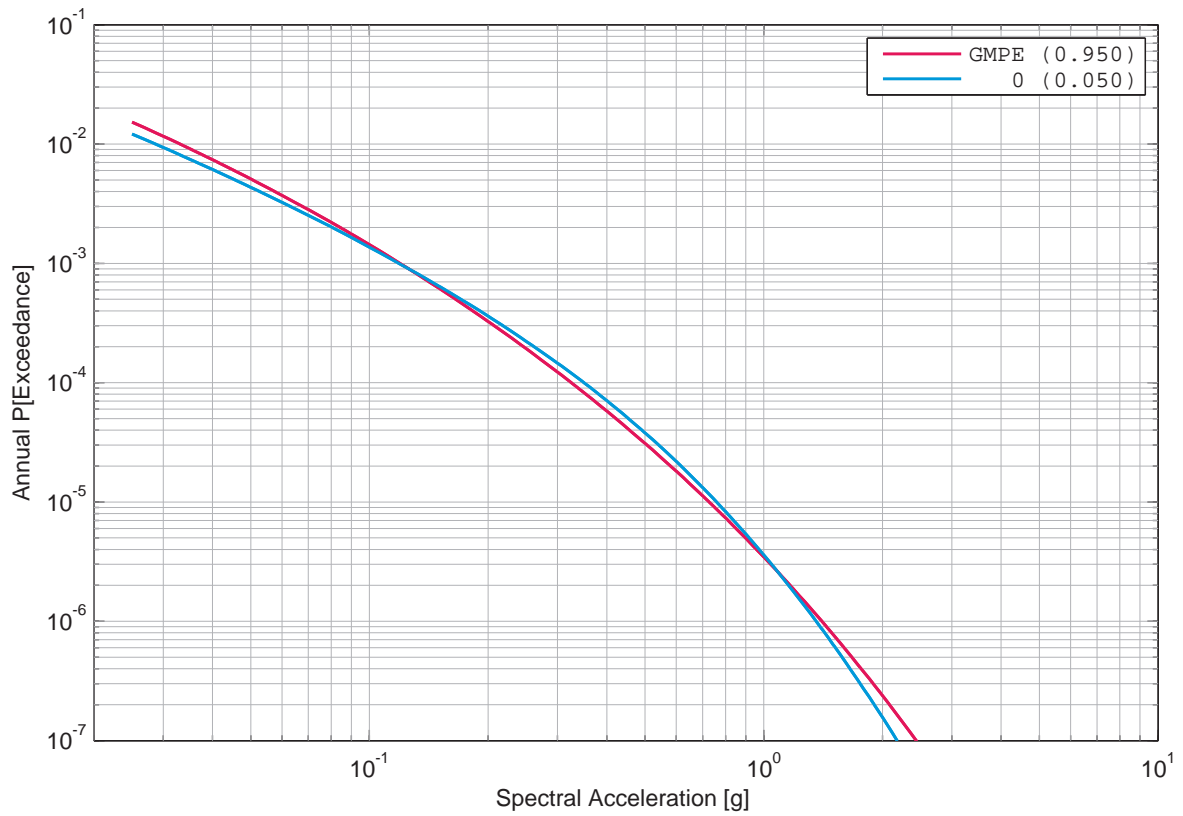


Figure 3.8.79: Gösgen, horizontal component, rock, Faeh’s sensitivity to the tau uncertainty, 33 Hz.

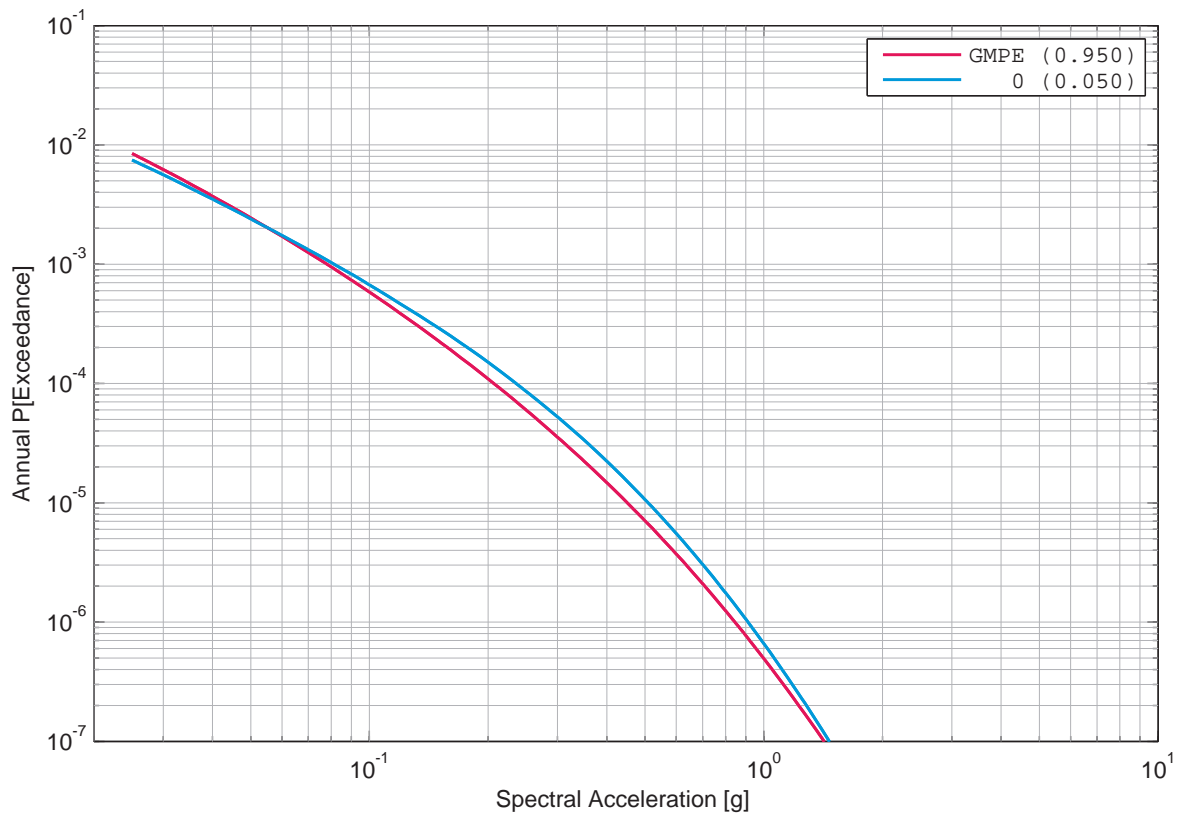


Figure 3.8.80: Gösgen, horizontal component, rock, Faeh’s sensitivity to the tau uncertainty, 100 Hz.

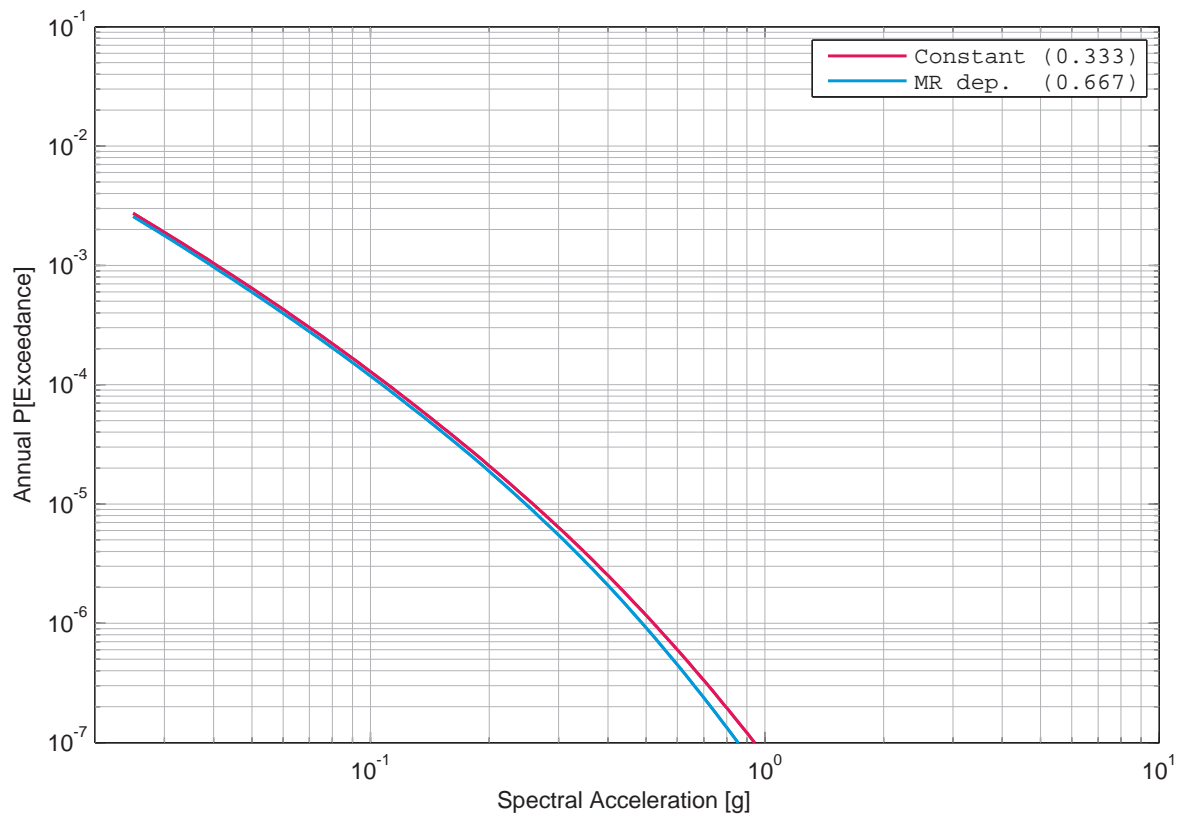


Figure 3.8.81: Gösgen, horizontal component, rock, Bungum's sensitivity to phi, 1 Hz.

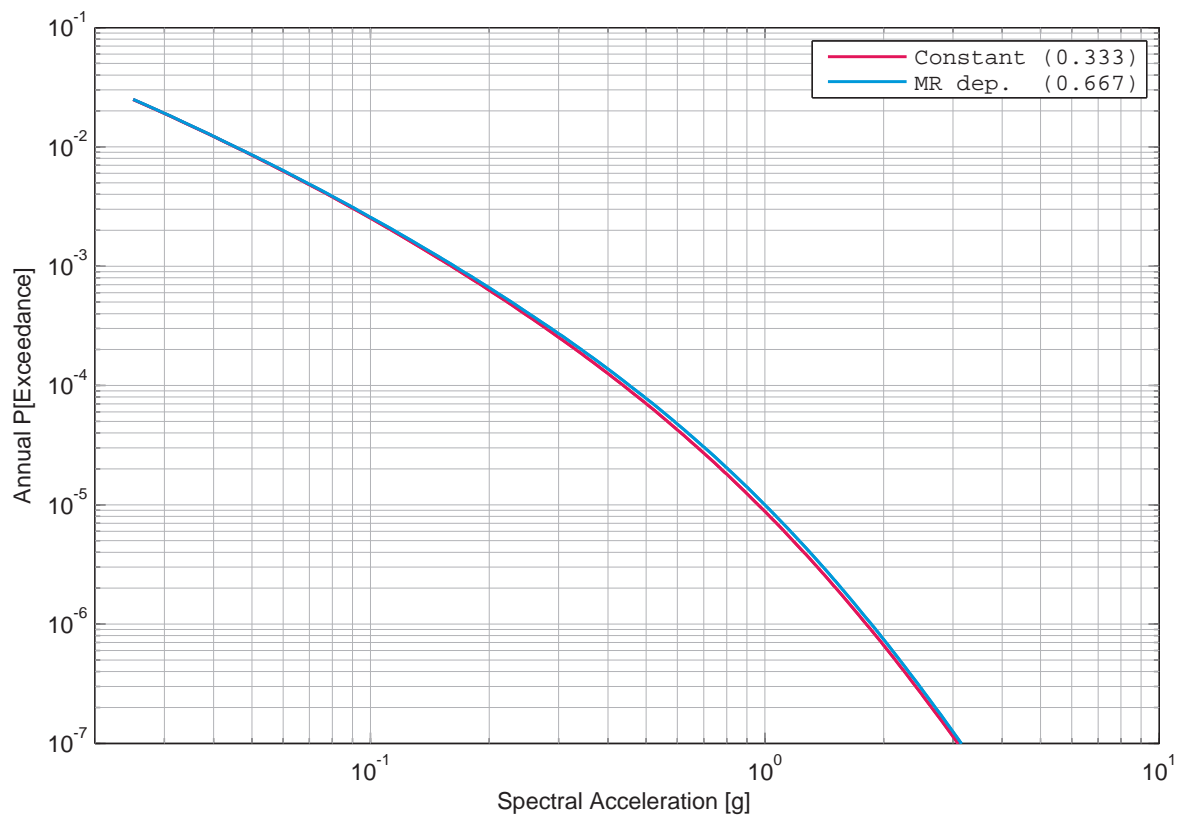


Figure 3.8.82: Gösgen, horizontal component, rock, Bungum's sensitivity to phi, 5 Hz.

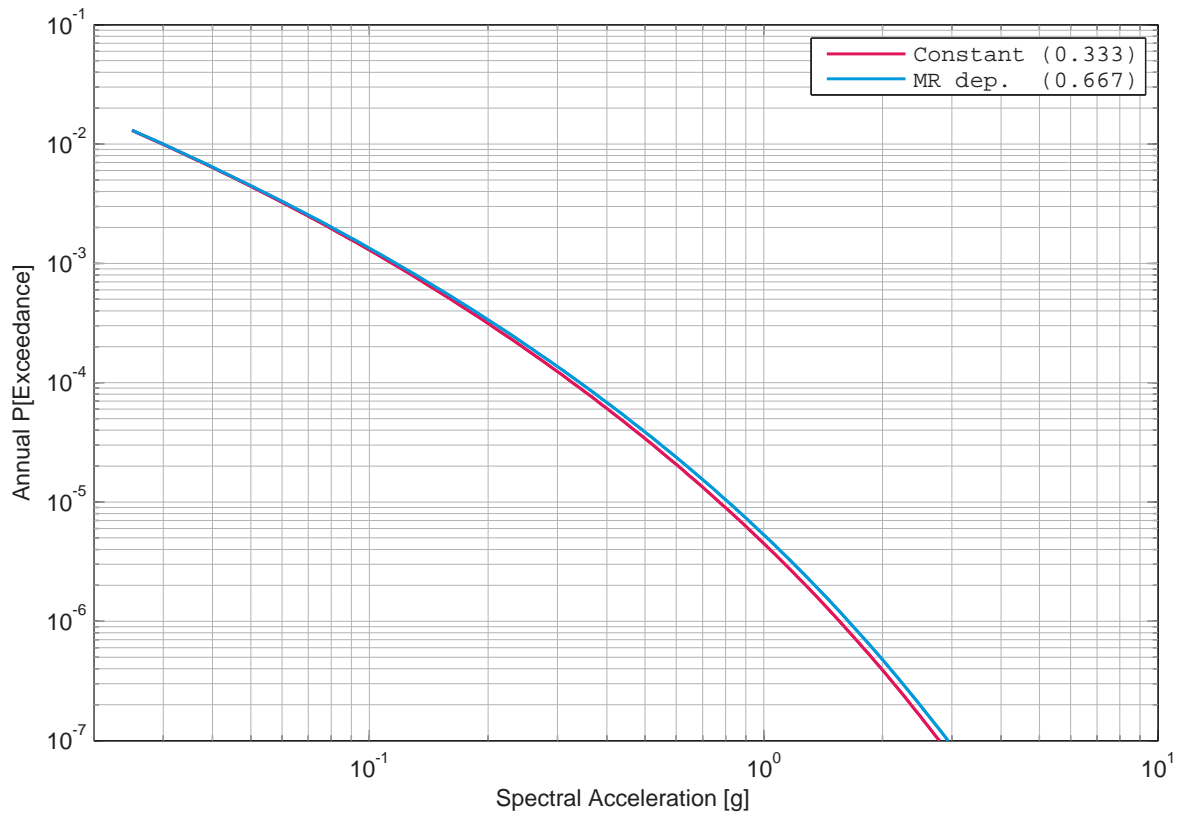


Figure 3.8.83: Gösgen, horizontal component, rock, Bungum’s sensitivity to phi, 33 Hz.

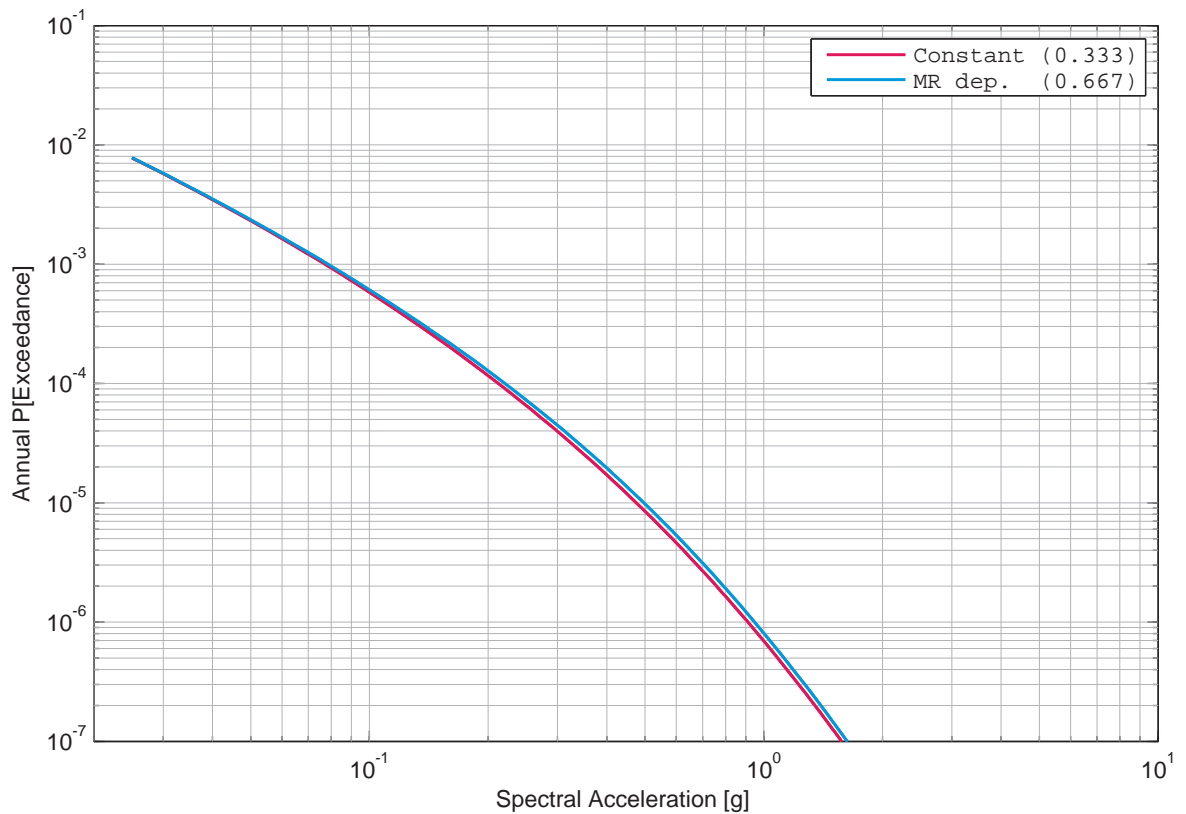


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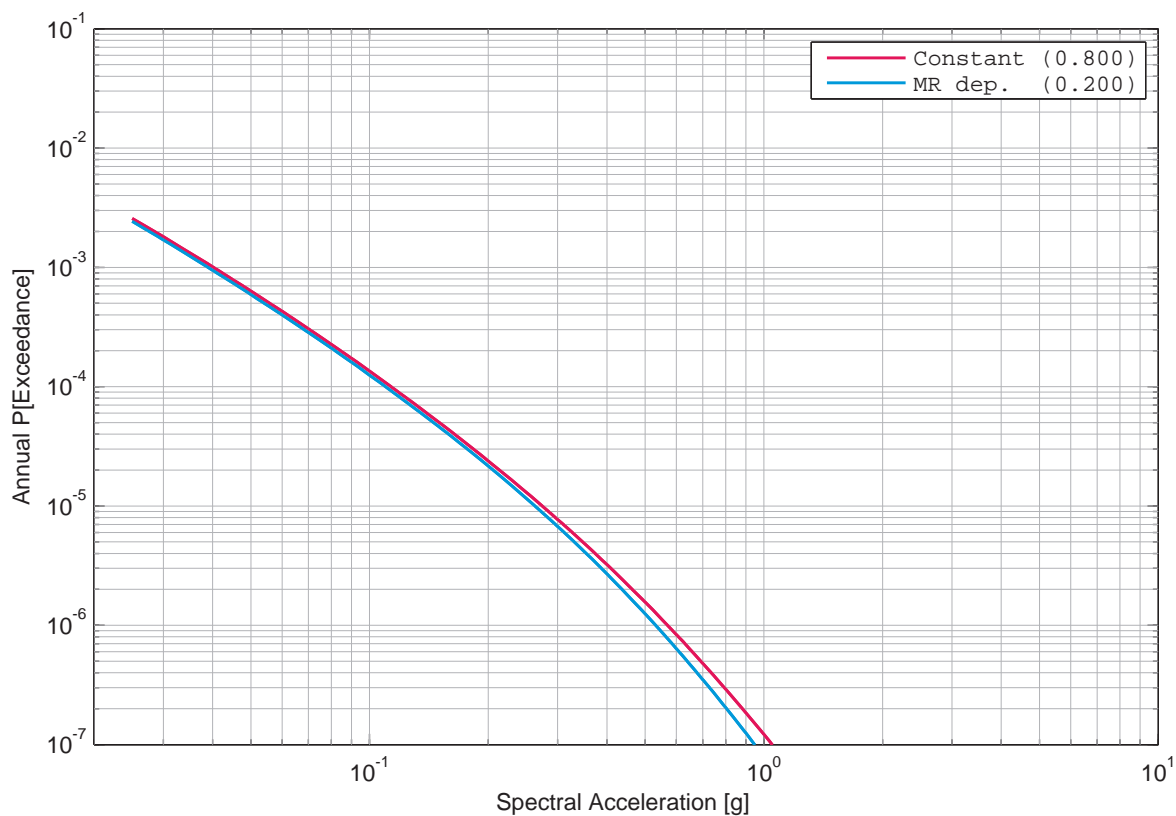


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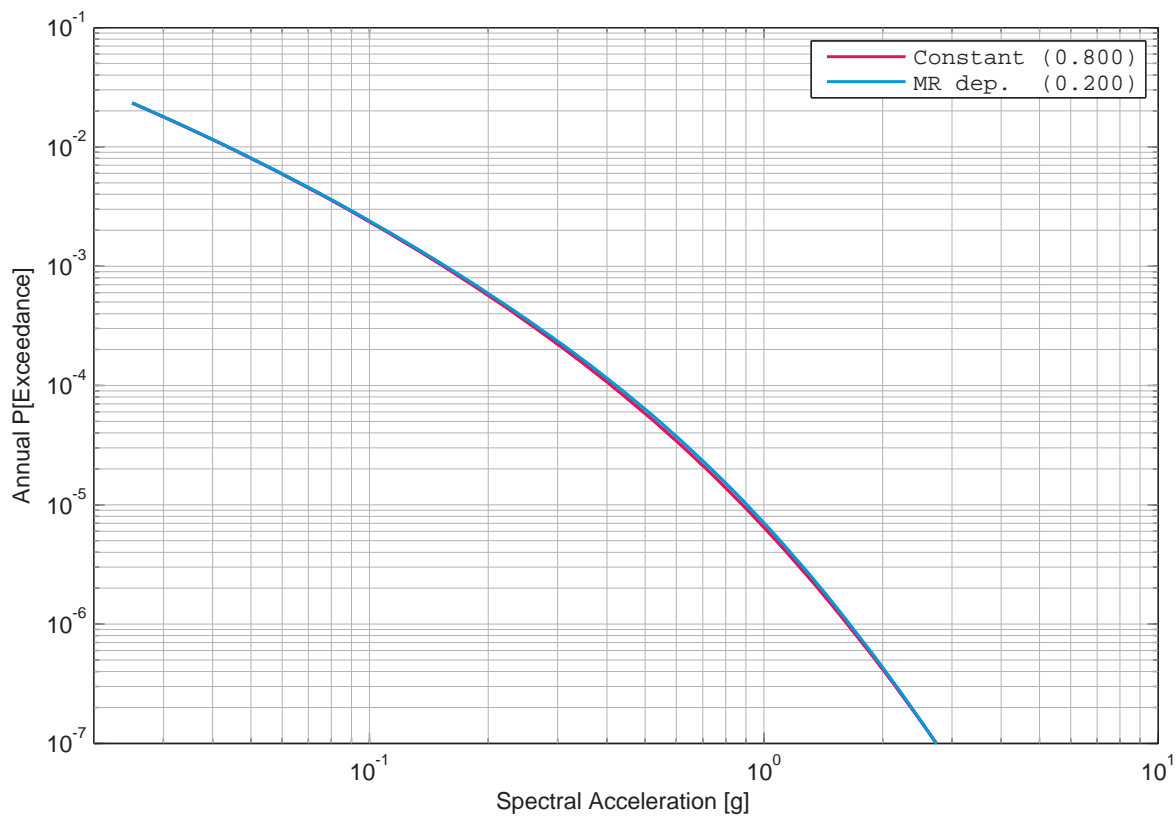


Figure 3.8.86: Gösgen, horizontal component, rock, Campbell's sensitivity to phi, 5 Hz.

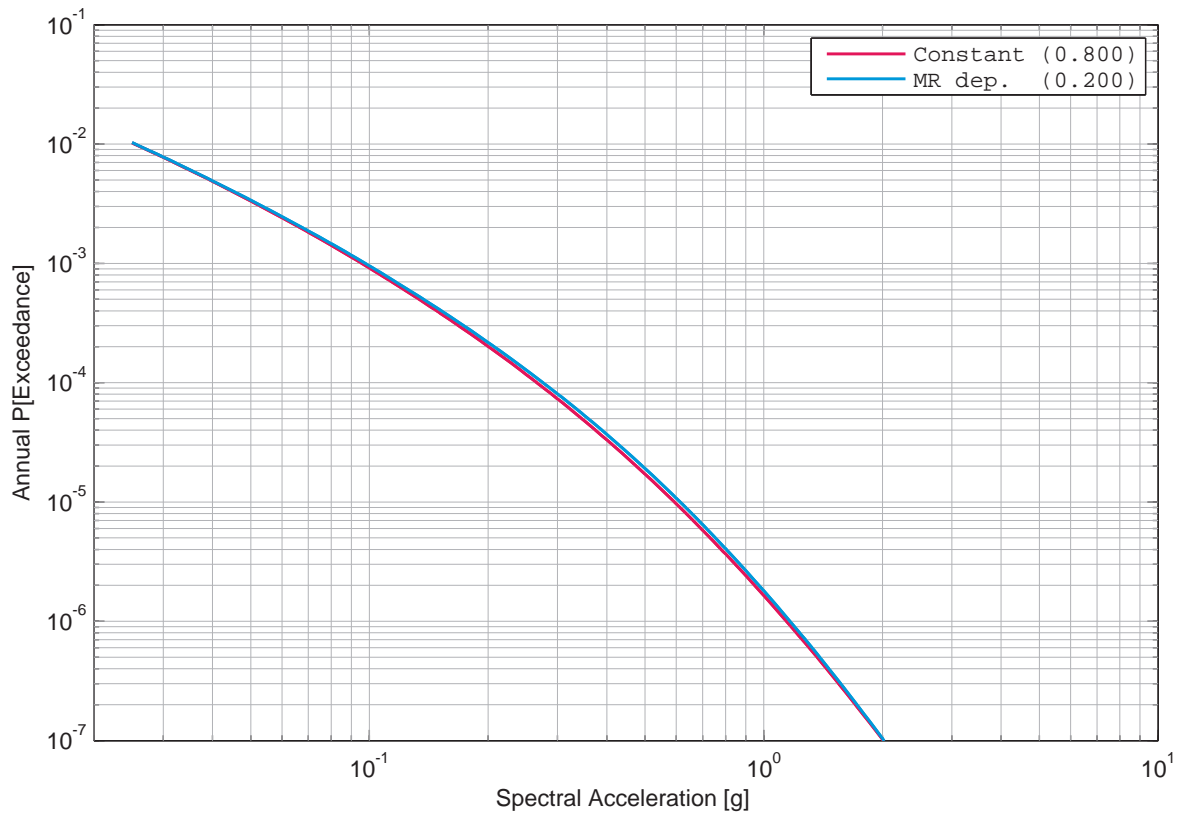


Figure 3.8.87: Gösgen, horizontal component, rock, Campbell's sensitivity to phi, 33 Hz.

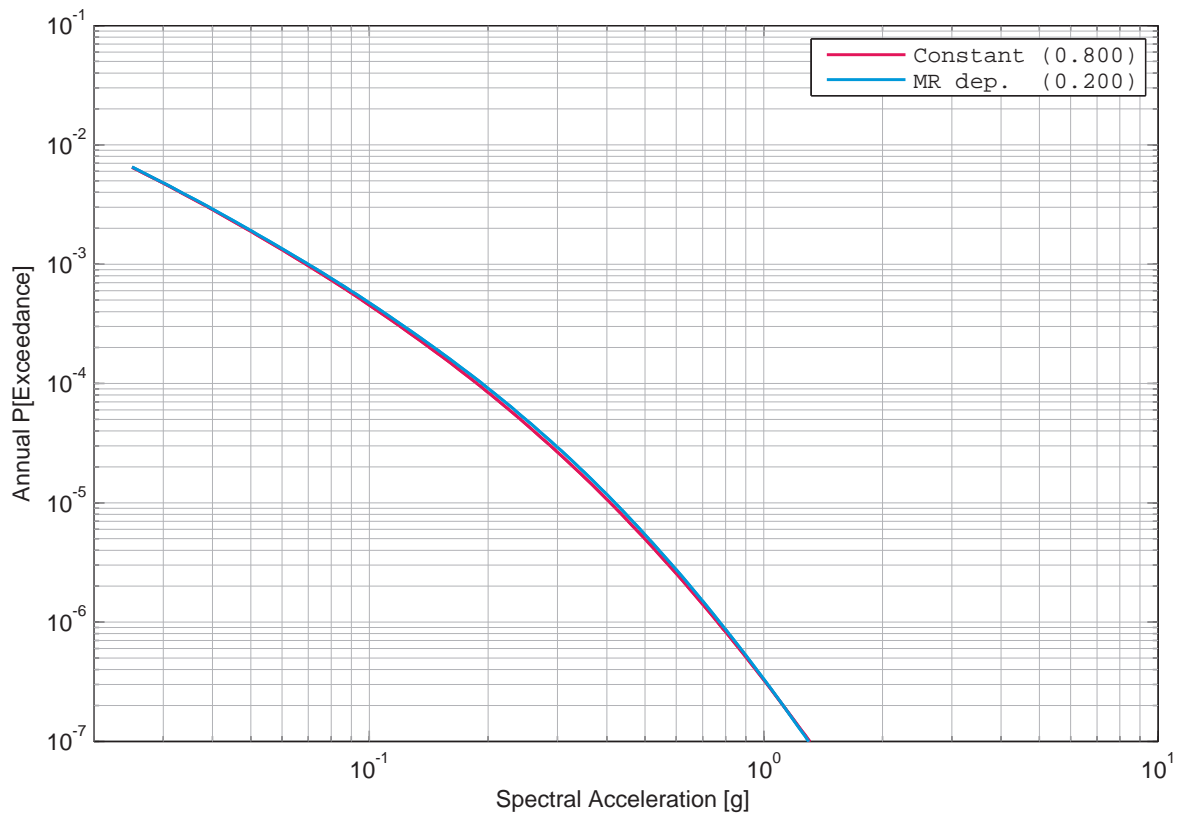


Figure 3.8.88: Gösgen, horizontal component, rock, Campbell's sensitivity to phi, 100 Hz.

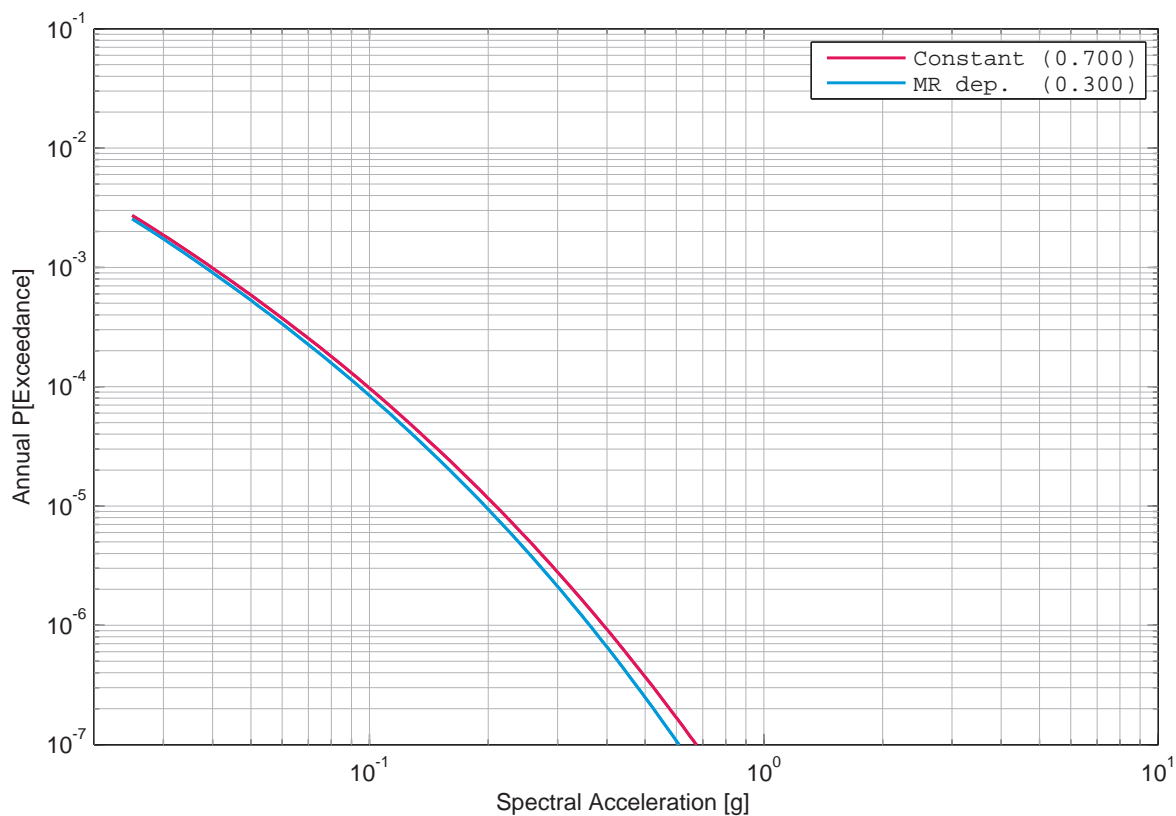


Figure 3.8.89: Gösgen, horizontal component, rock, Cotton's sensitivity to phi, 1 Hz.

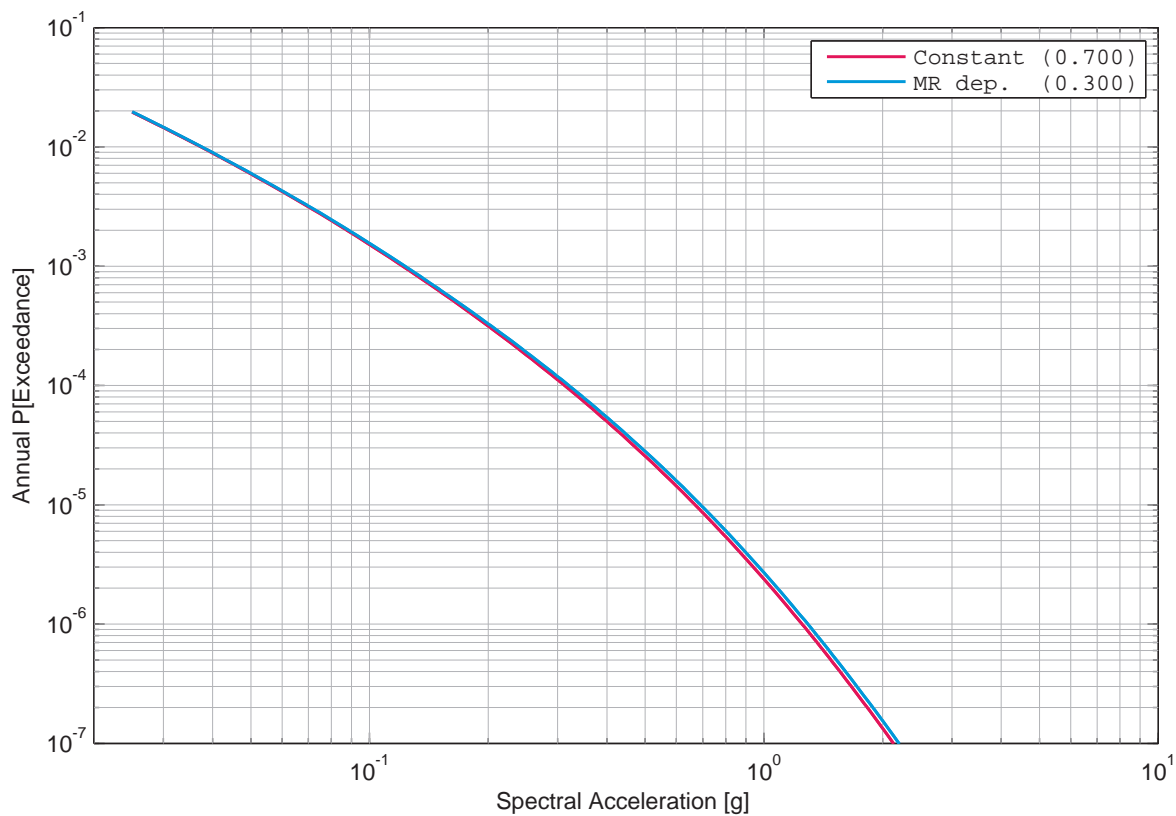


Figure 3.8.90: Gösgen, horizontal component, rock, Cotton's sensitivity to phi, 5 Hz.

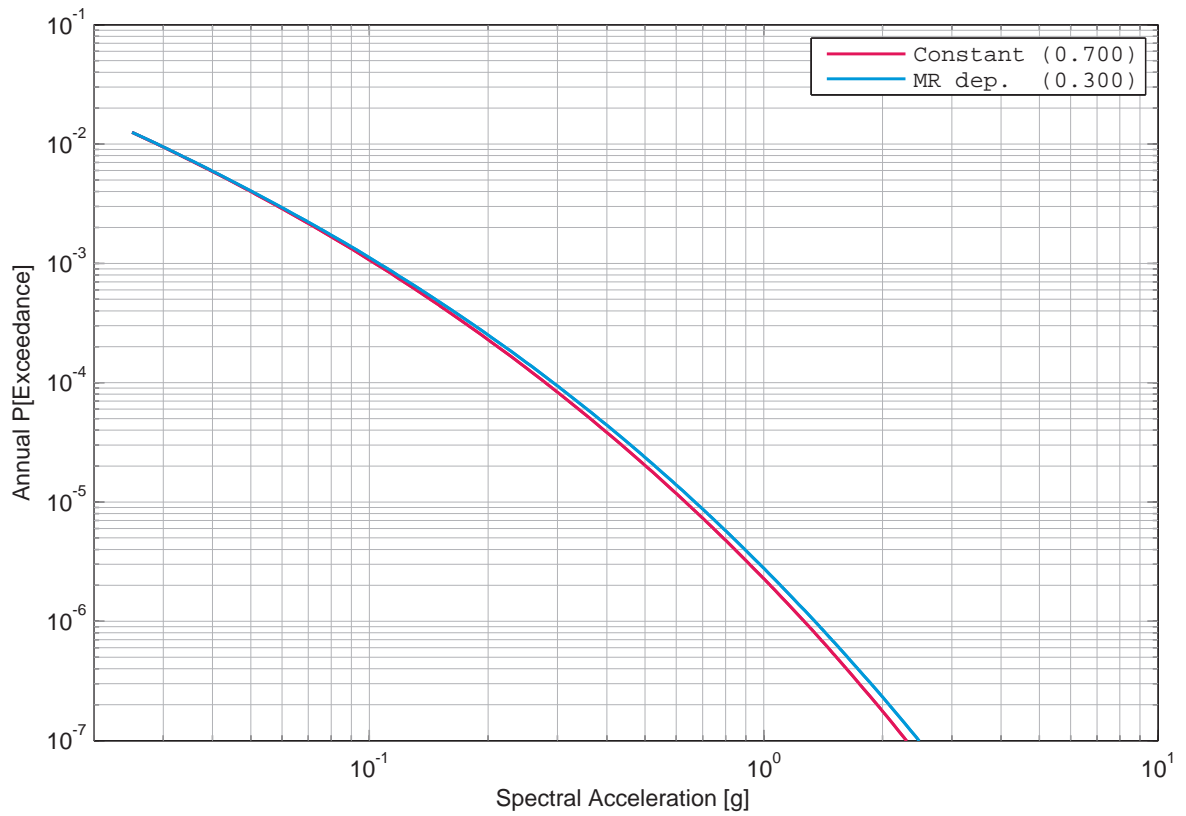


Figure 3.8.91: Gösgen, horizontal component, rock, Cotton’s sensitivity to phi, 33 Hz.

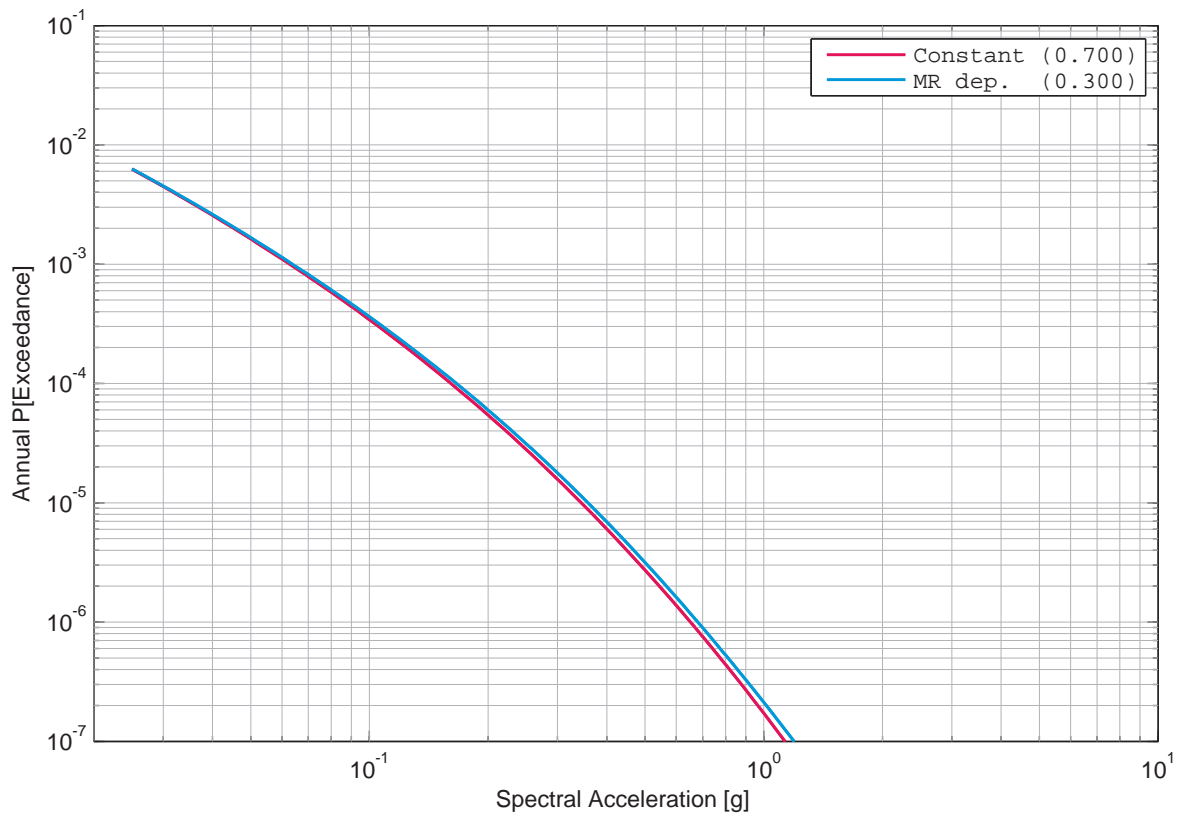


Figure 3.8.92: Gösgen, horizontal component, rock, Cotton’s sensitivity to phi, 100 Hz.

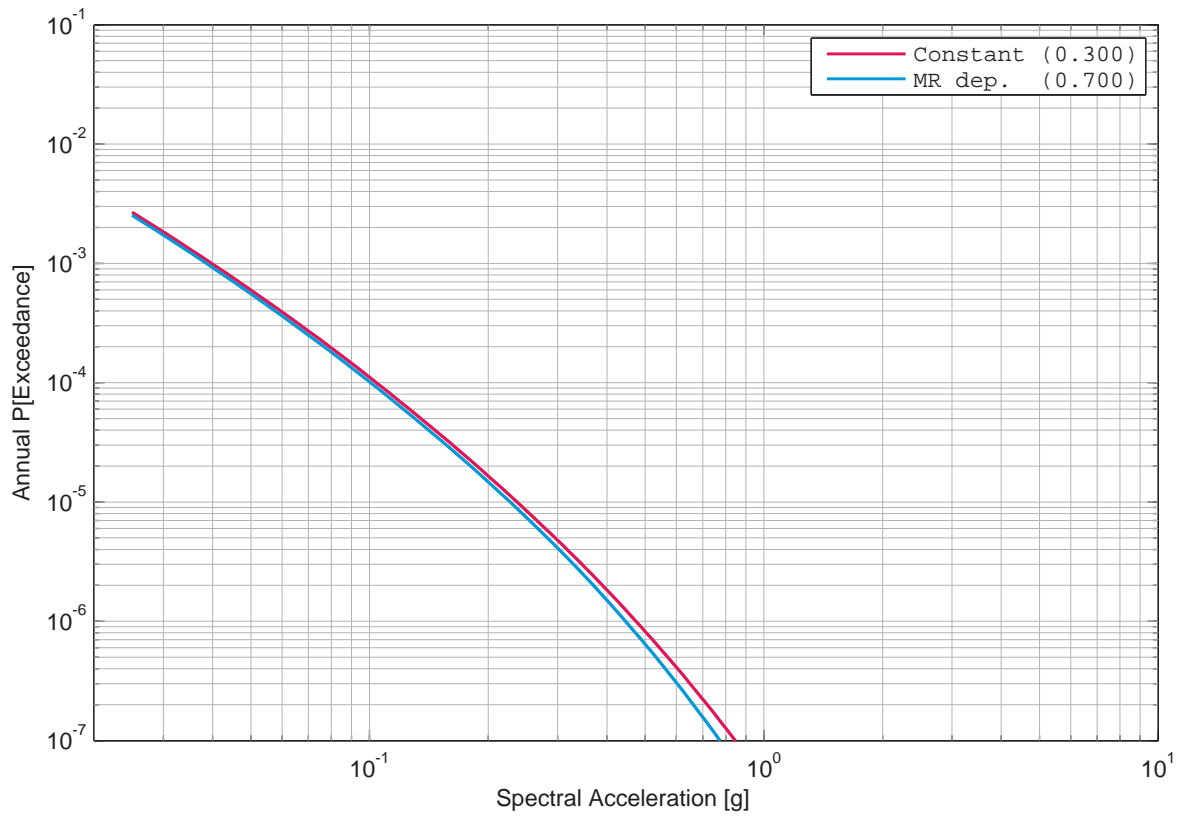


Figure 3.8.93: Gösgen, horizontal component, rock, Faeh's sensitivity to phi, 1 Hz.

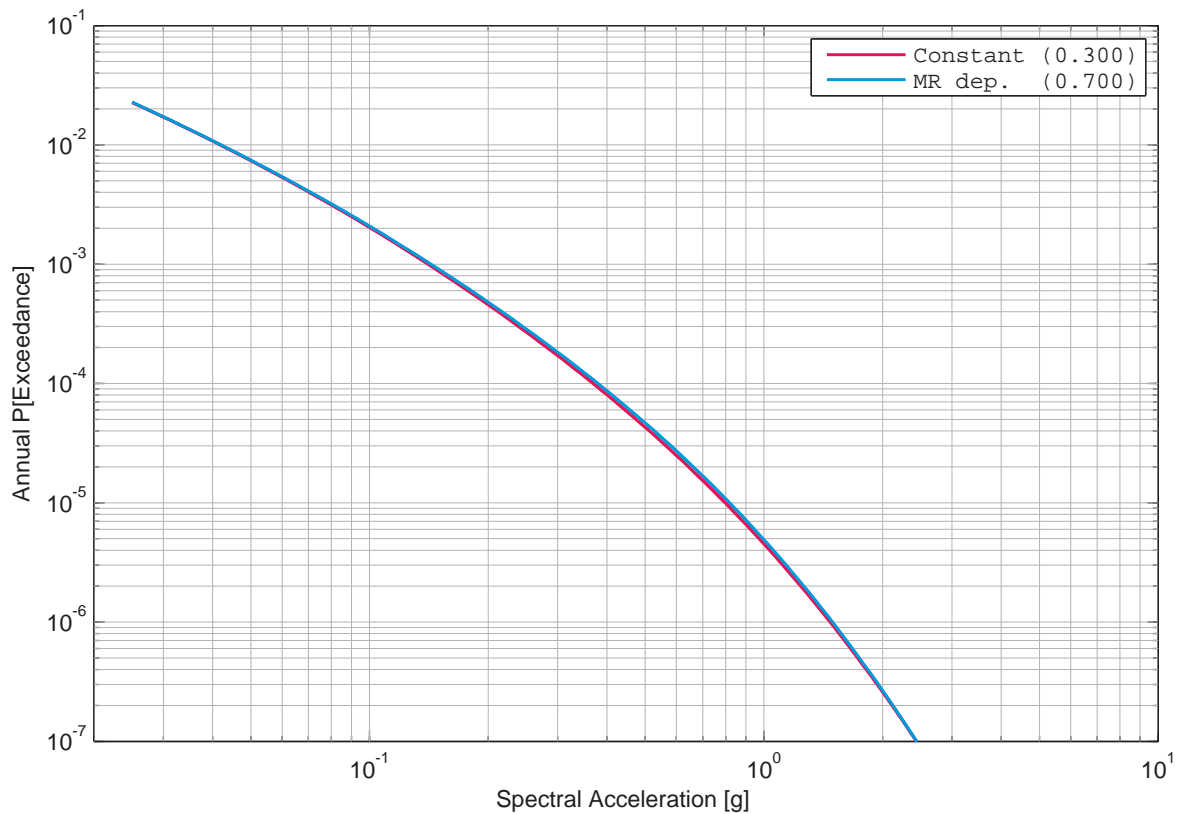


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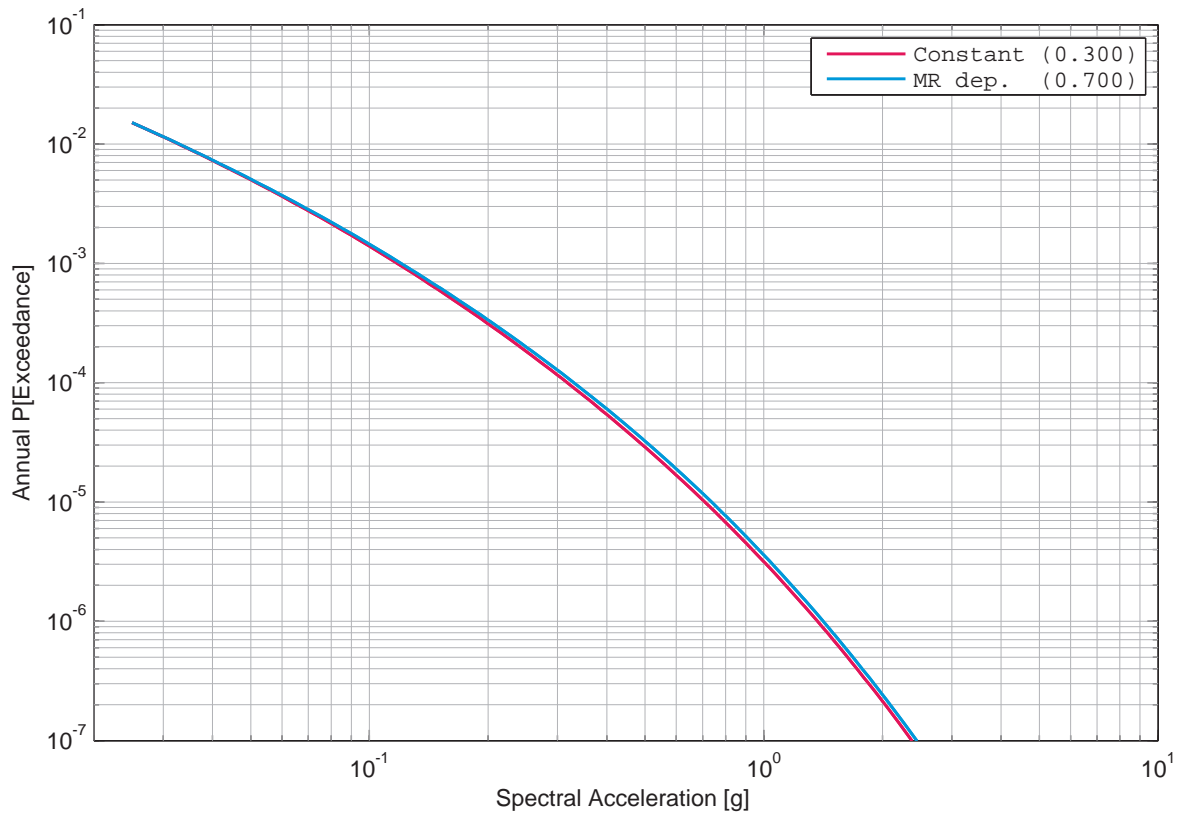


Figure 3.8.95: Gösgen, horizontal component, rock, Faeh’s sensitivity to phi, 33 Hz.

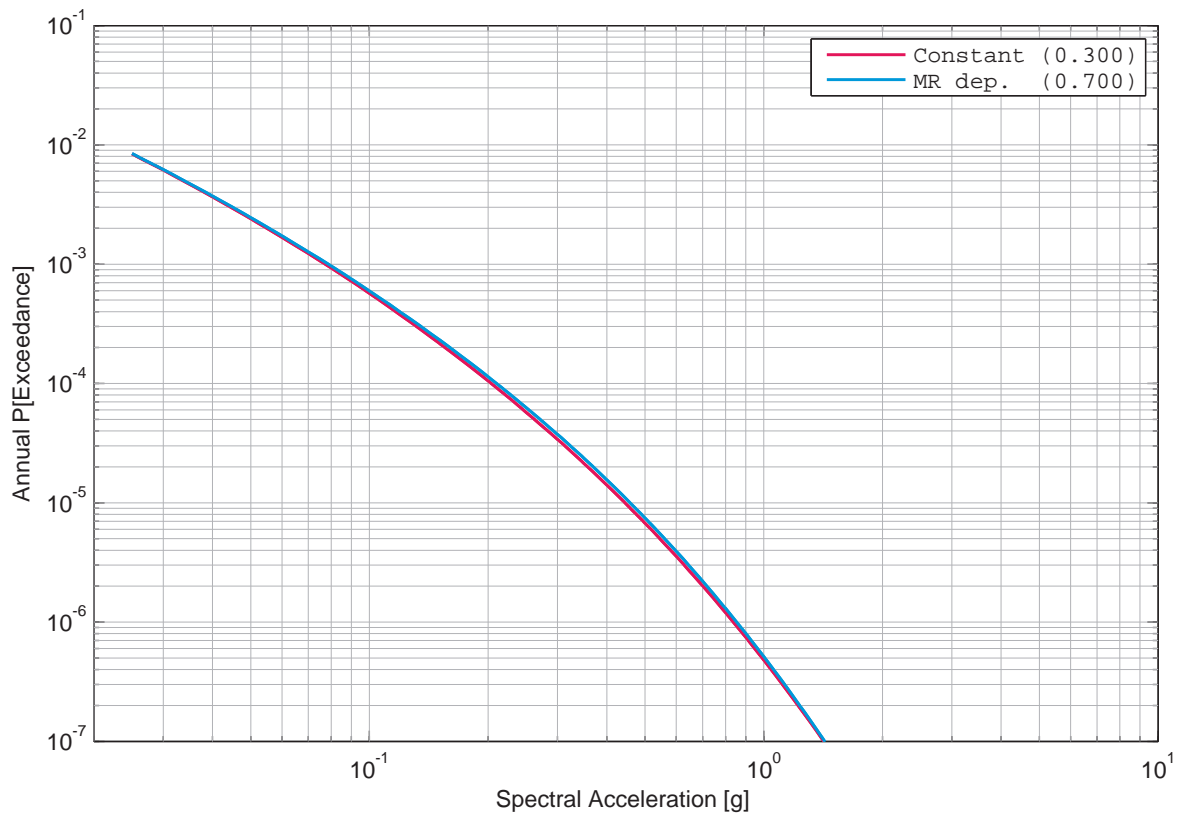


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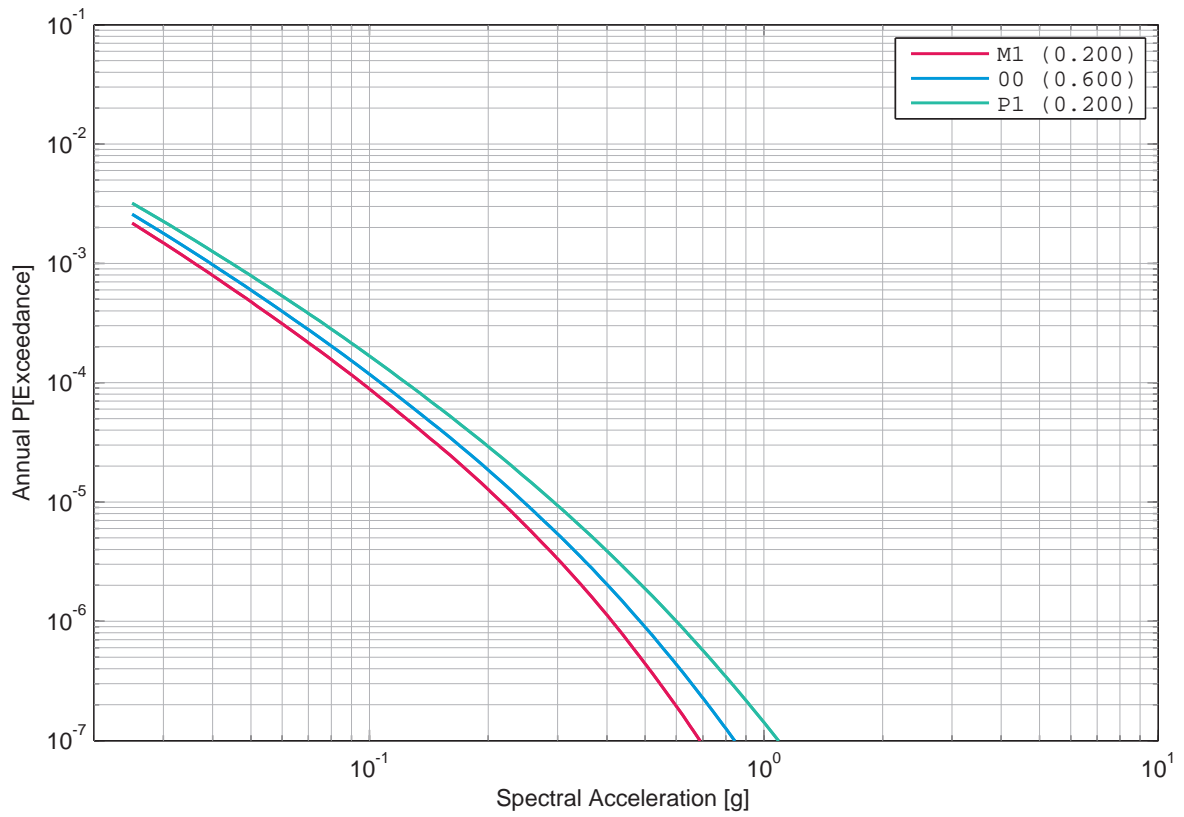


Figure 3.8.97: Gösgen, horizontal component, rock, Bungum’s sensitivity to the phi uncertainty, 1 Hz.

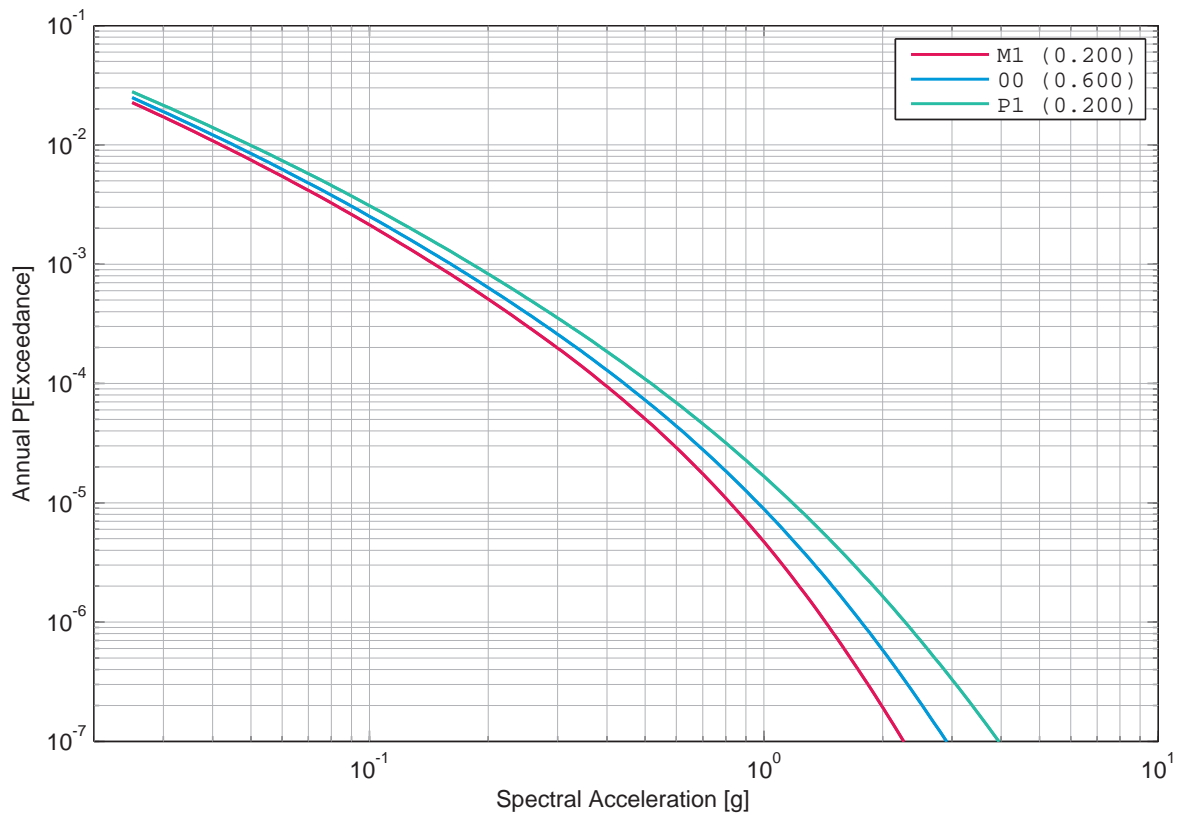


Figure 3.8.98: Gösgen, horizontal component, rock, Bungum’s sensitivity to the phi uncertainty, 5 Hz.

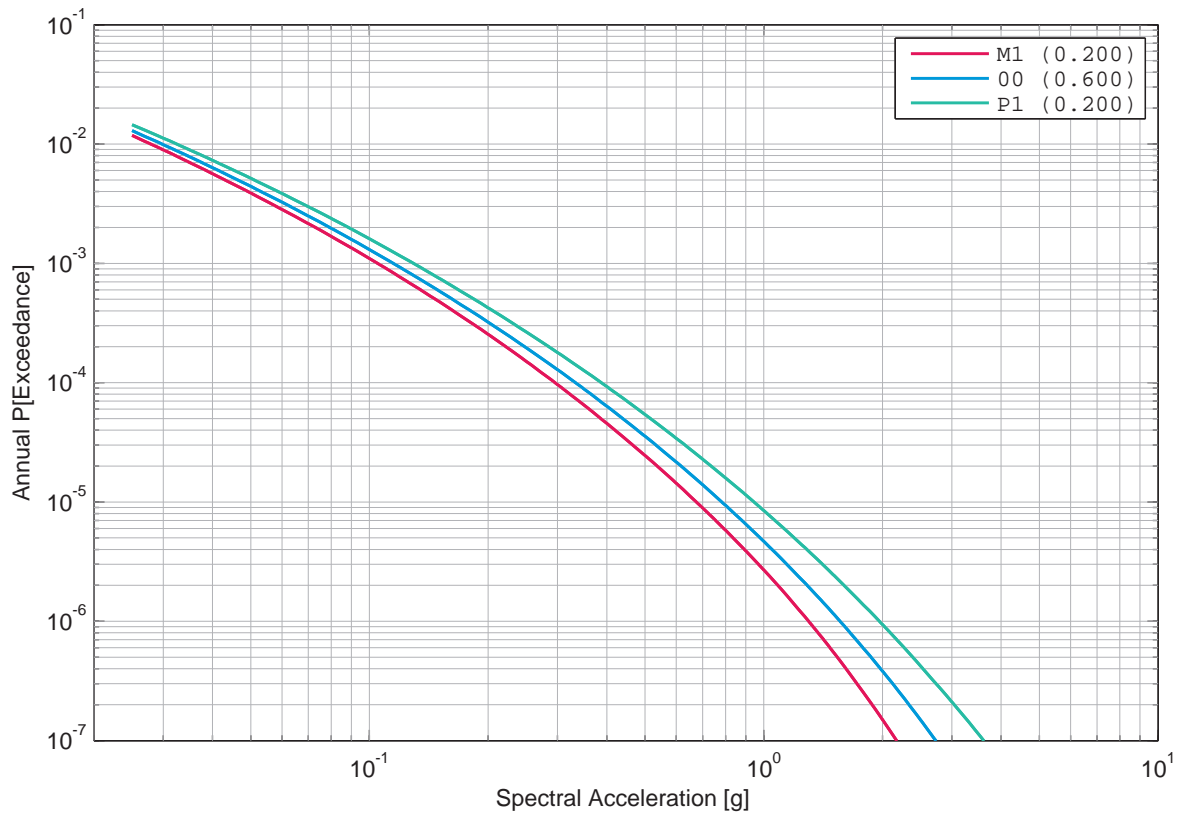


Figure 3.8.99: Gösgen, horizontal component, rock, Bungum’s sensitivity to the phi uncertainty, 33 Hz.

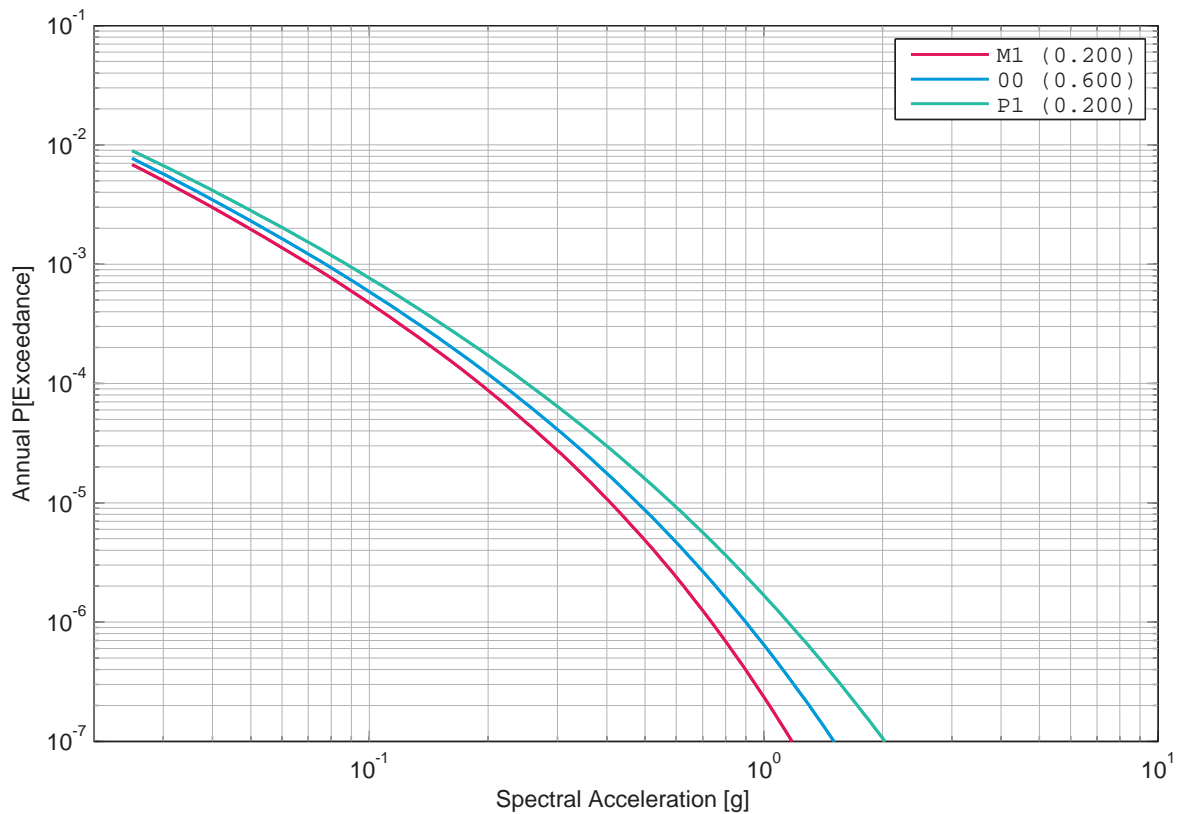


Figure 3.8.100: Gösgen, horizontal component, rock, Bungum’s sensitivity to the phi uncertainty, 100 Hz.

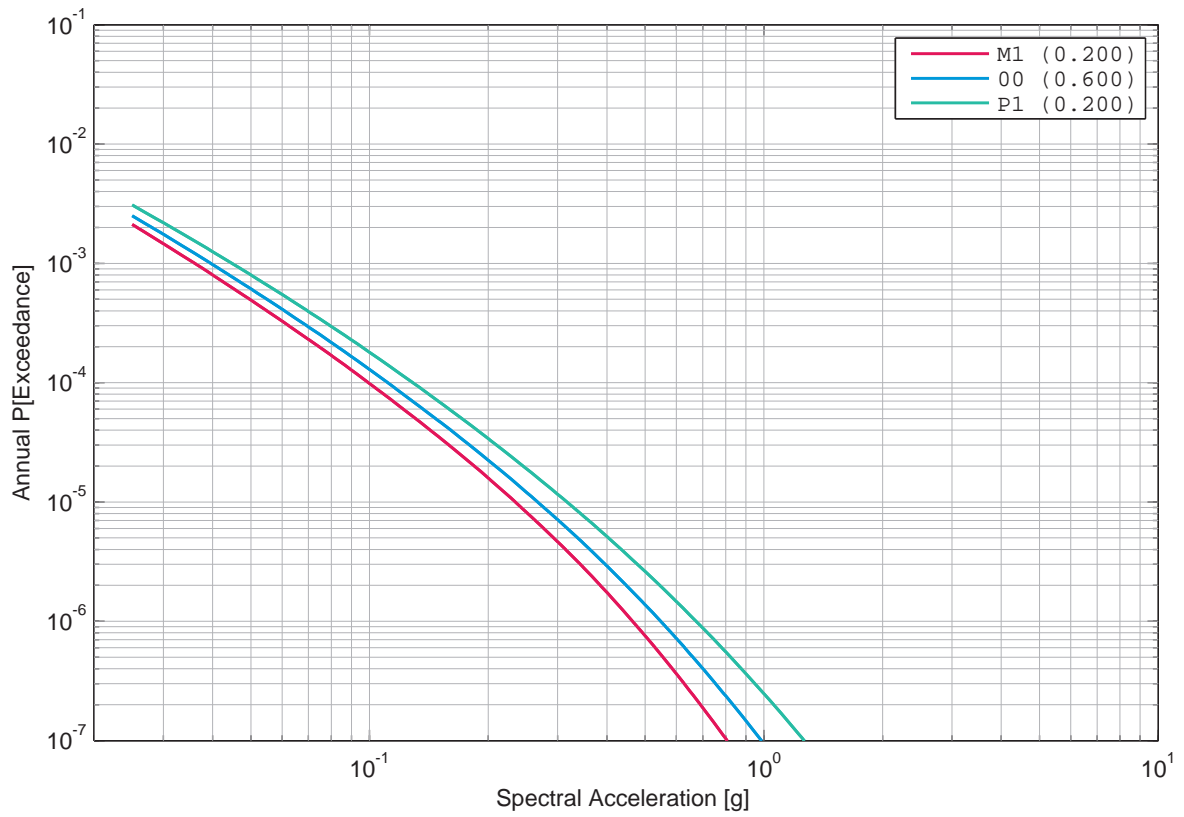


Figure 3.8.101: Gösgen, horizontal component, rock, Campbell's sensitivity to the phi uncertainty, 1 Hz.

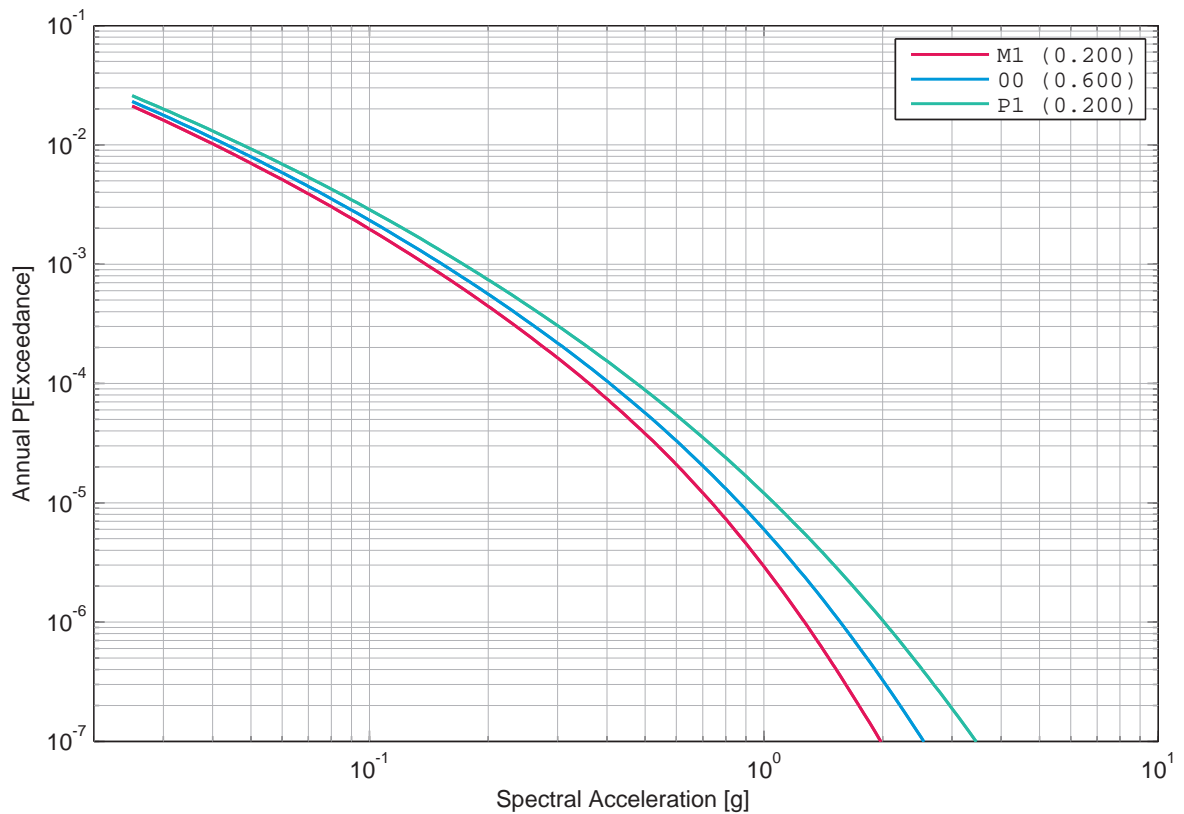


Figure 3.8.102: Gösgen, horizontal component, rock, Campbell's sensitivity to the phi uncertainty, 5 Hz.

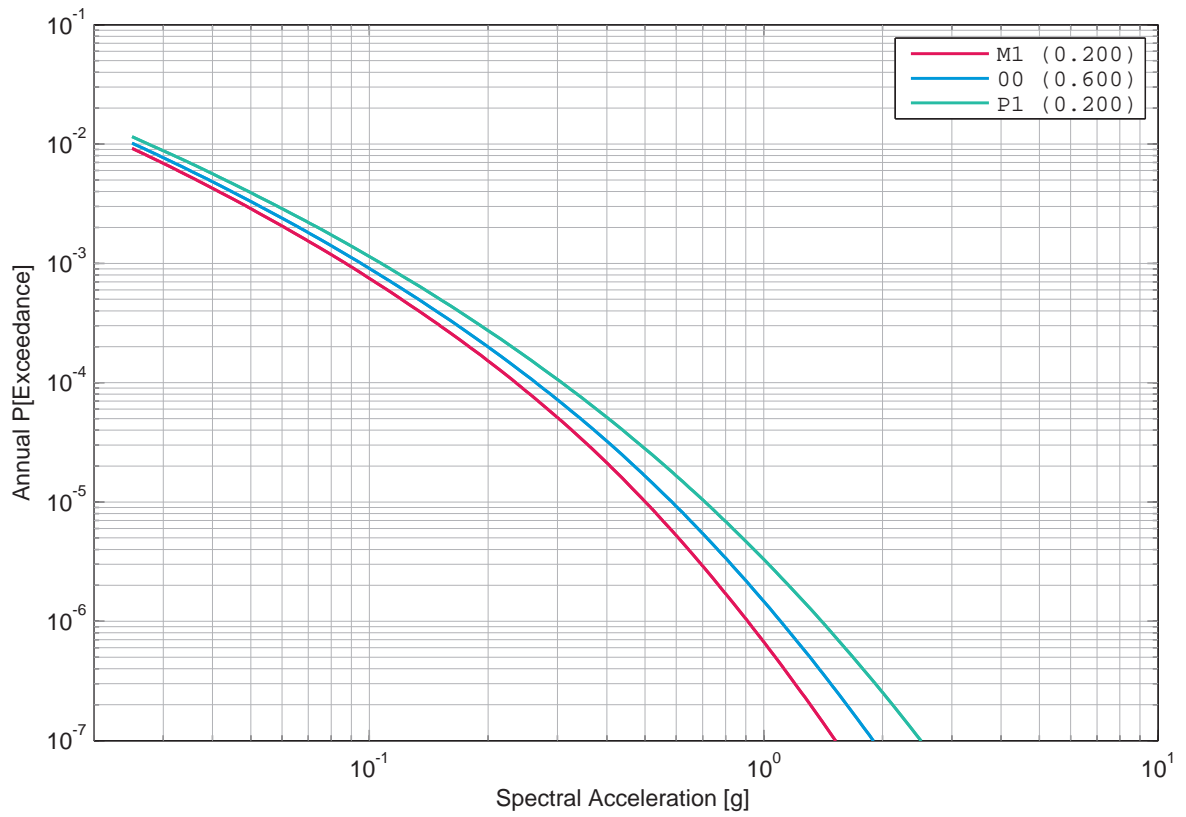


Figure 3.8.103: Gösgen, horizontal component, rock, Campbell’s sensitivity to the phi uncertainty, 33 Hz.

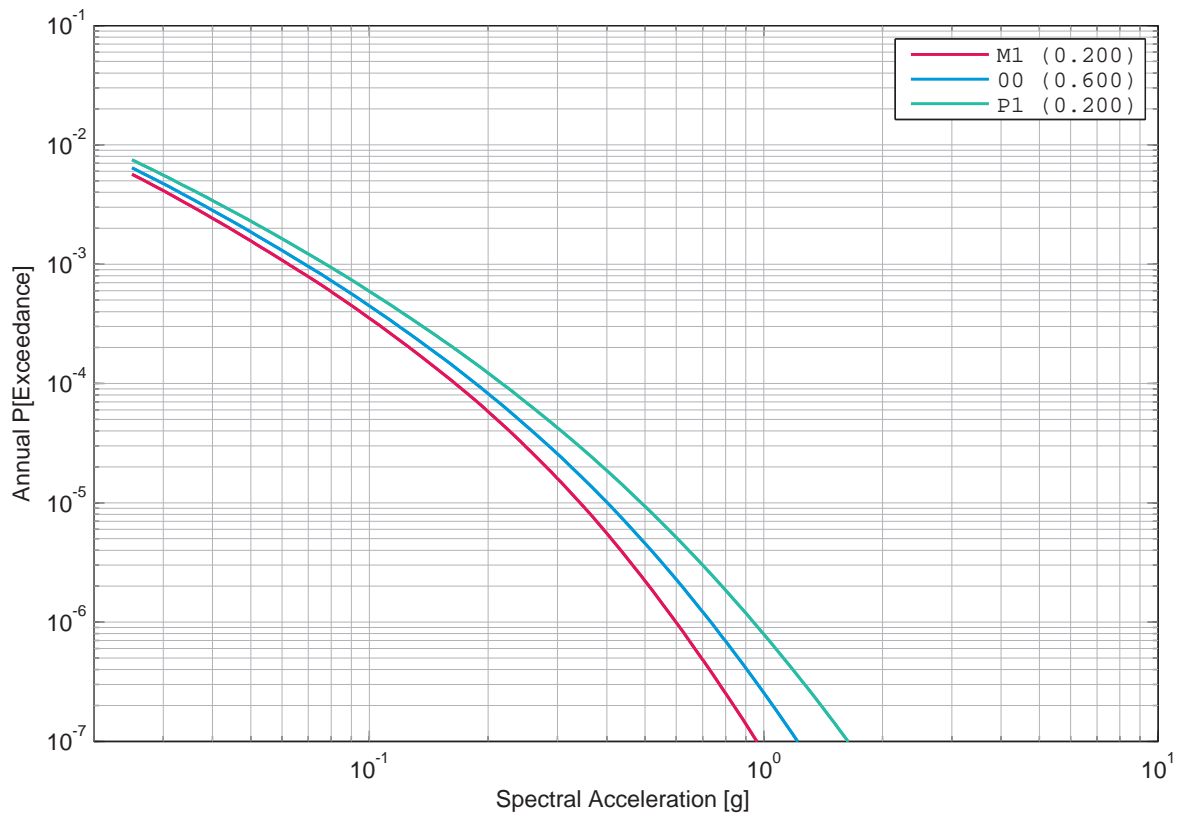


Figure 3.8.104: Gösgen, horizontal component, rock, Campbell’s sensitivity to the phi uncertainty, 100 Hz.

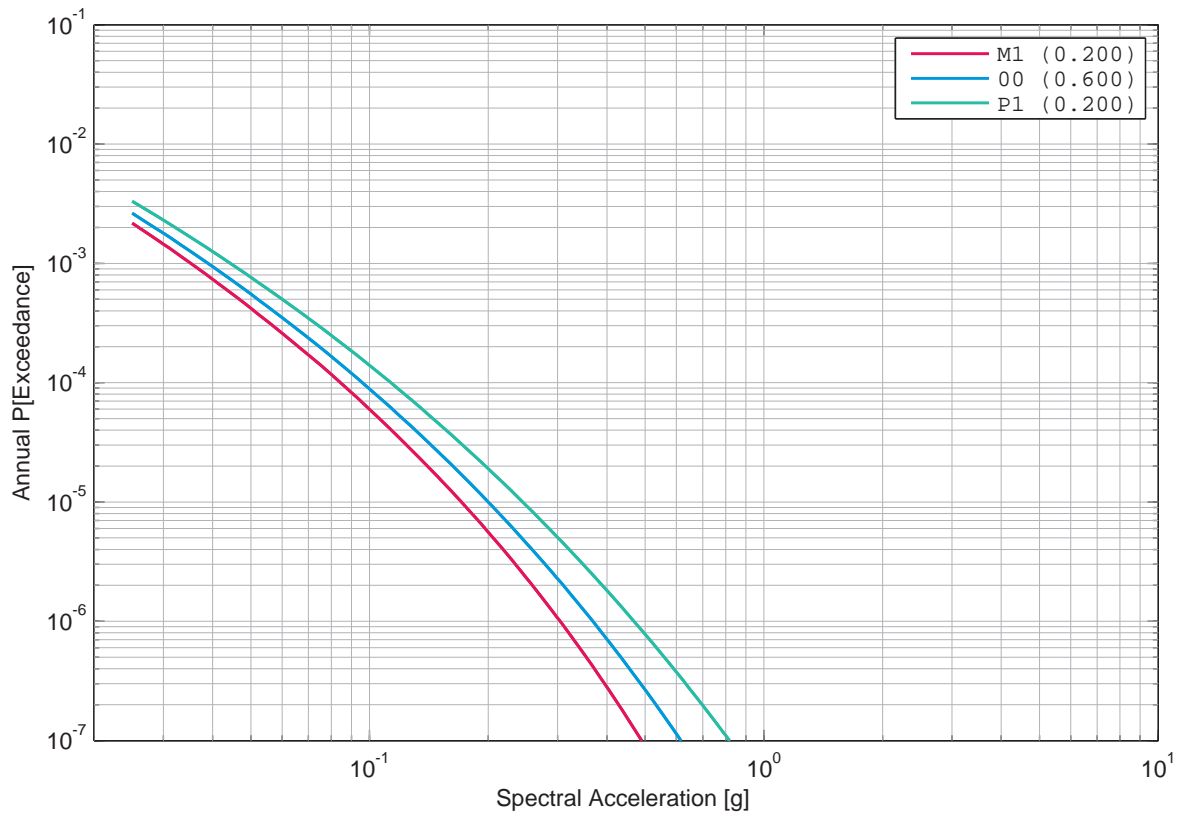


Figure 3.8.105: Gösgen, horizontal component, rock, Cotton's sensitivity to the phi uncertainty, 1 Hz.

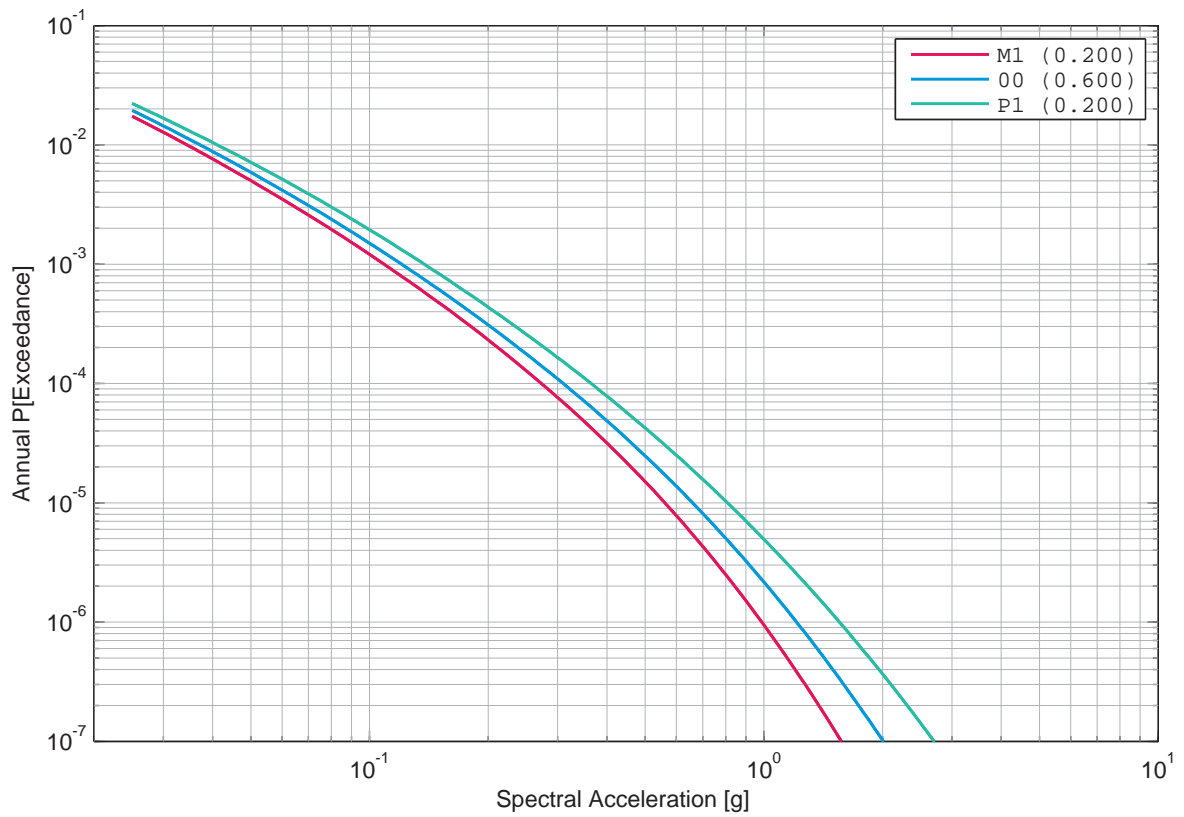


Figure 3.8.106: Gösgen, horizontal component, rock, Cotton's sensitivity to the phi uncertainty, 5 Hz.

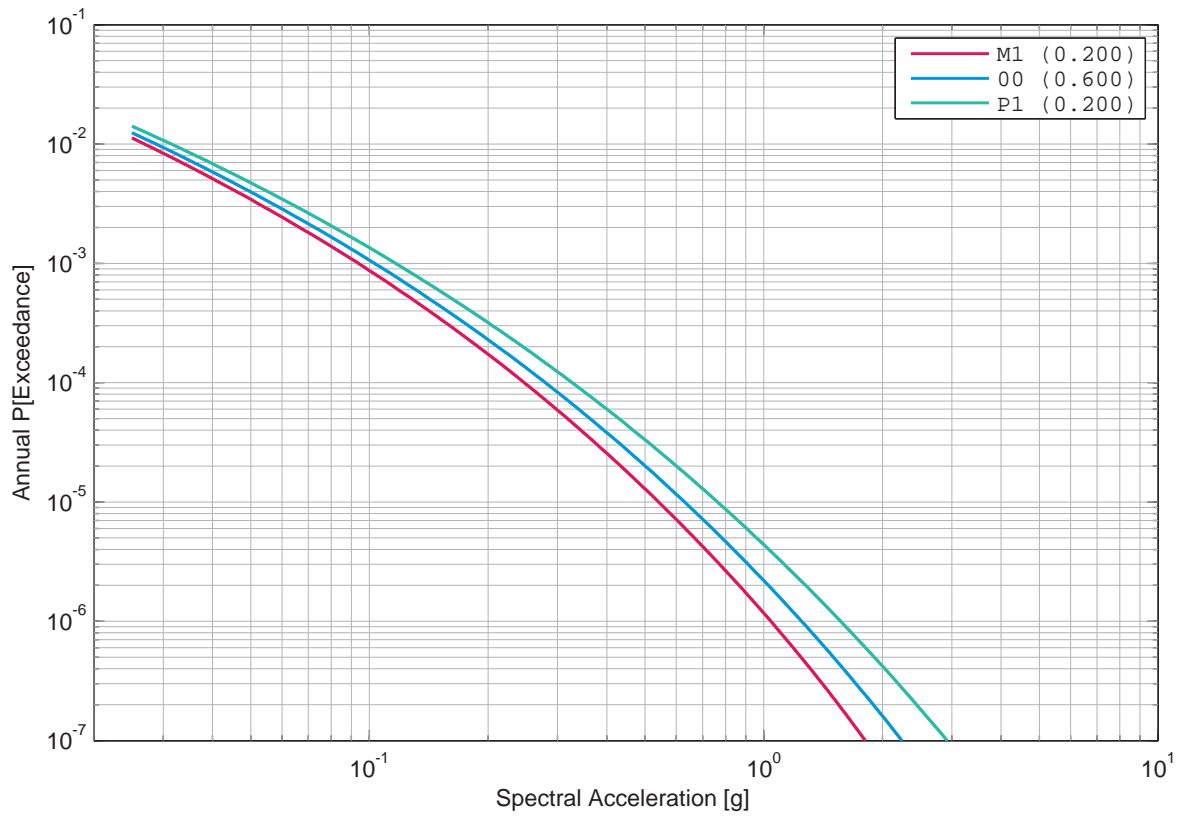


Figure 3.8.107: Gösgen, horizontal component, rock, Cotton’s sensitivity to the phi uncertainty, 33 Hz.

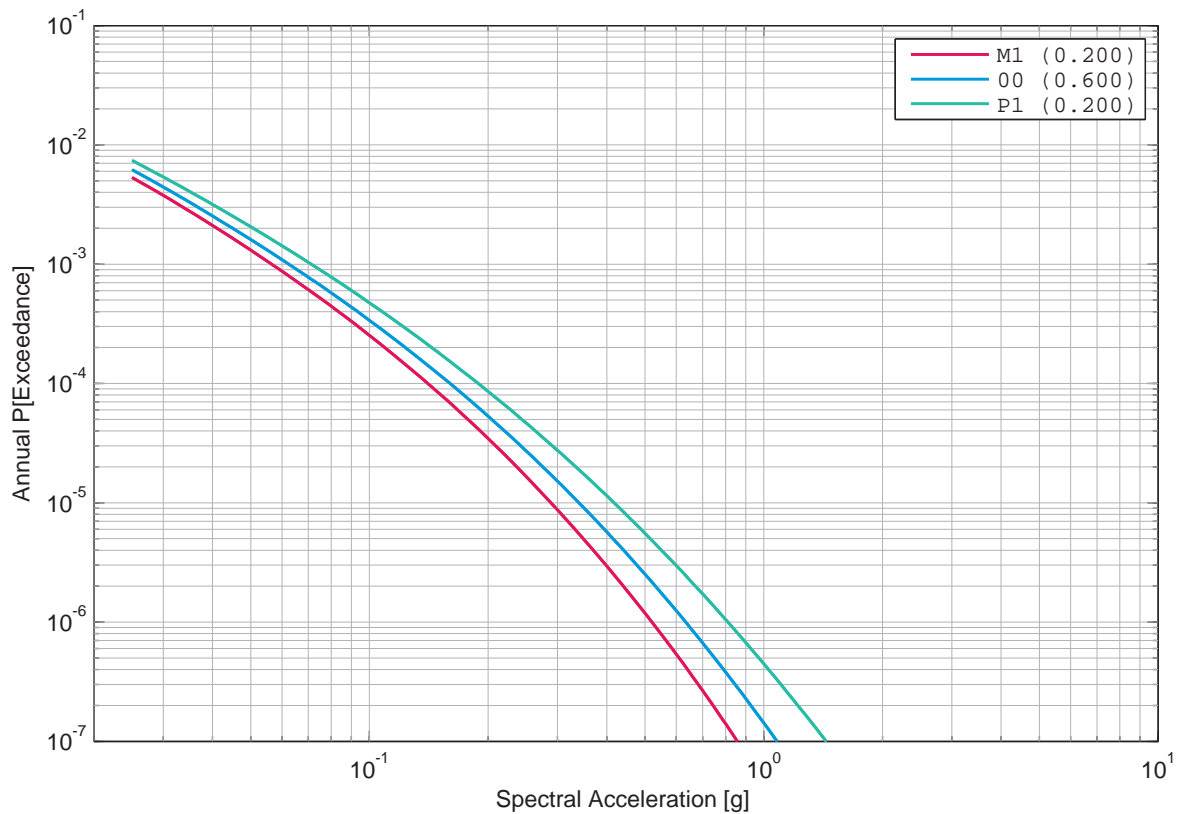


Figure 3.8.108: Gösgen, horizontal component, rock, Cotton’s sensitivity to the phi uncertainty, 100 Hz.

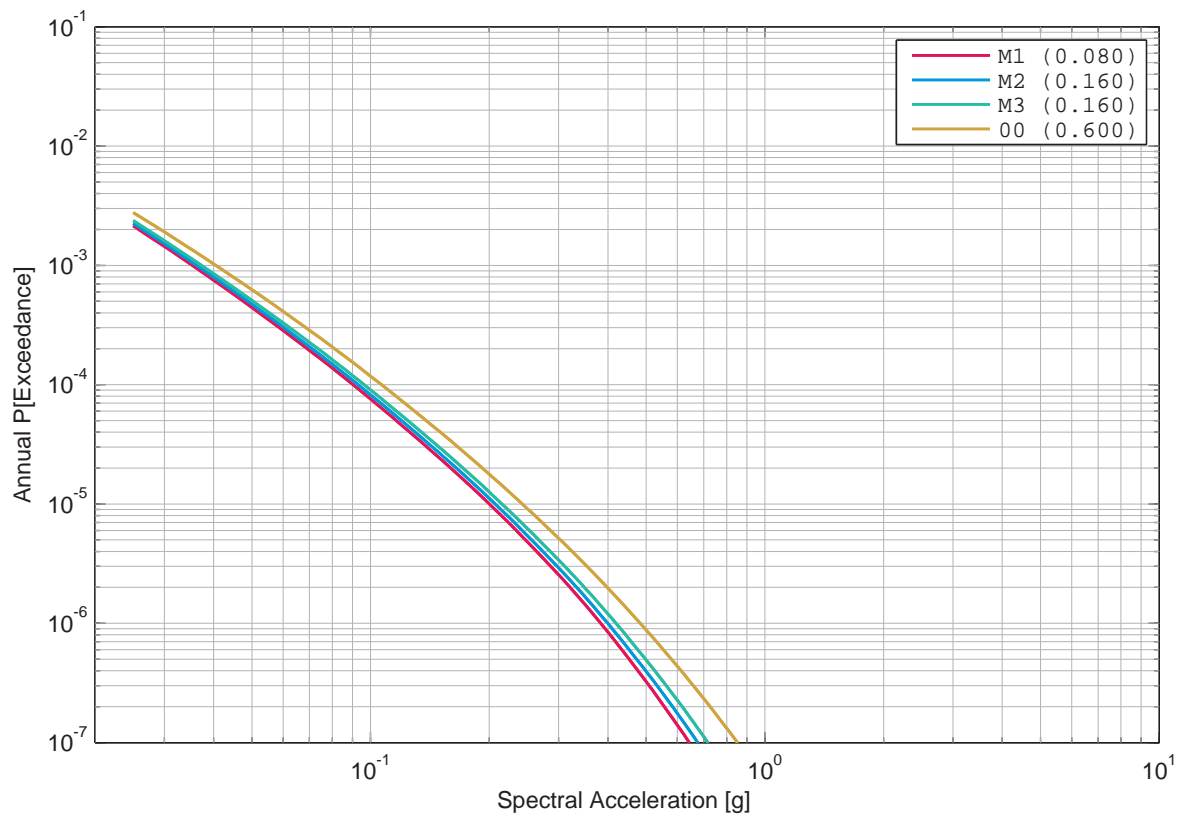


Figure 3.8.109: Gösgen, horizontal component, rock, Faeh’s sensitivity to the phi uncertainty, 1 Hz.

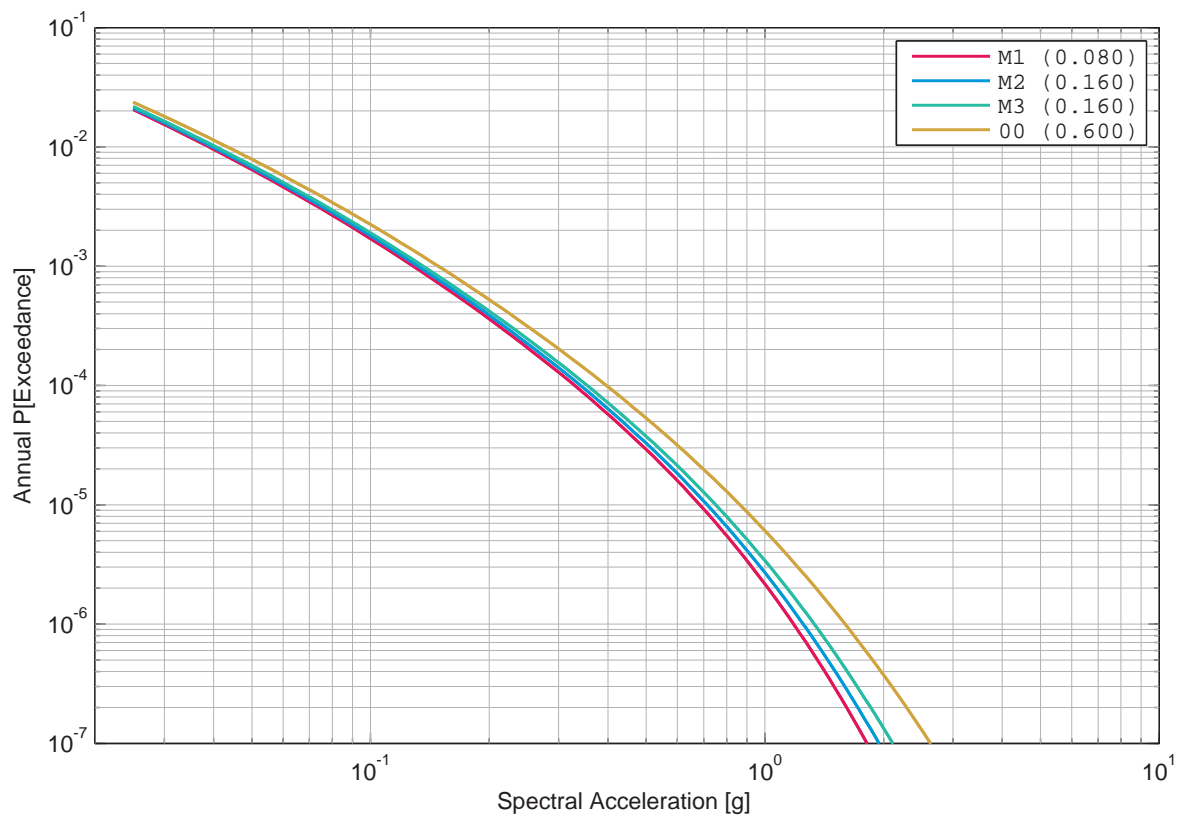


Figure 3.8.110: Gösgen, horizontal component, rock, Faeh’s sensitivity to the phi uncertainty, 5 Hz.

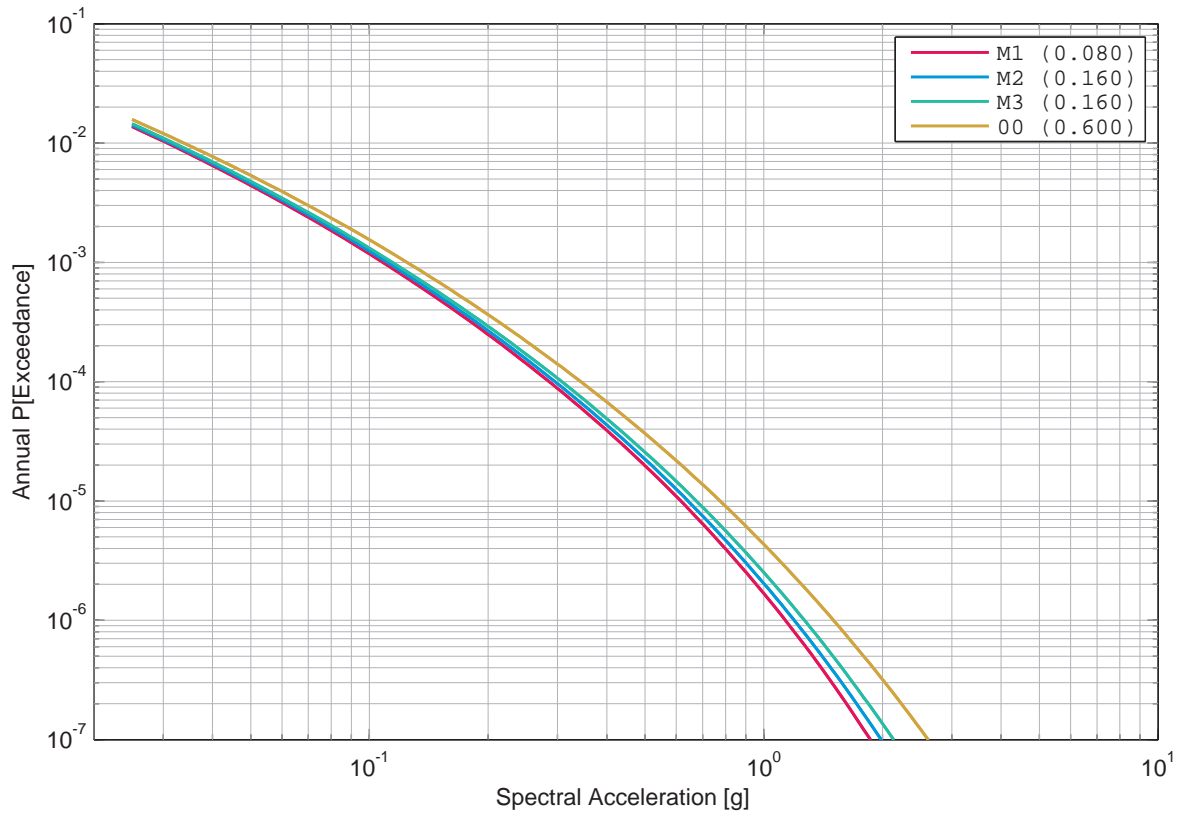


Figure 3.8.111: Gösgen, horizontal component, rock, Faeh’s sensitivity to the phi uncertainty, 33 Hz.

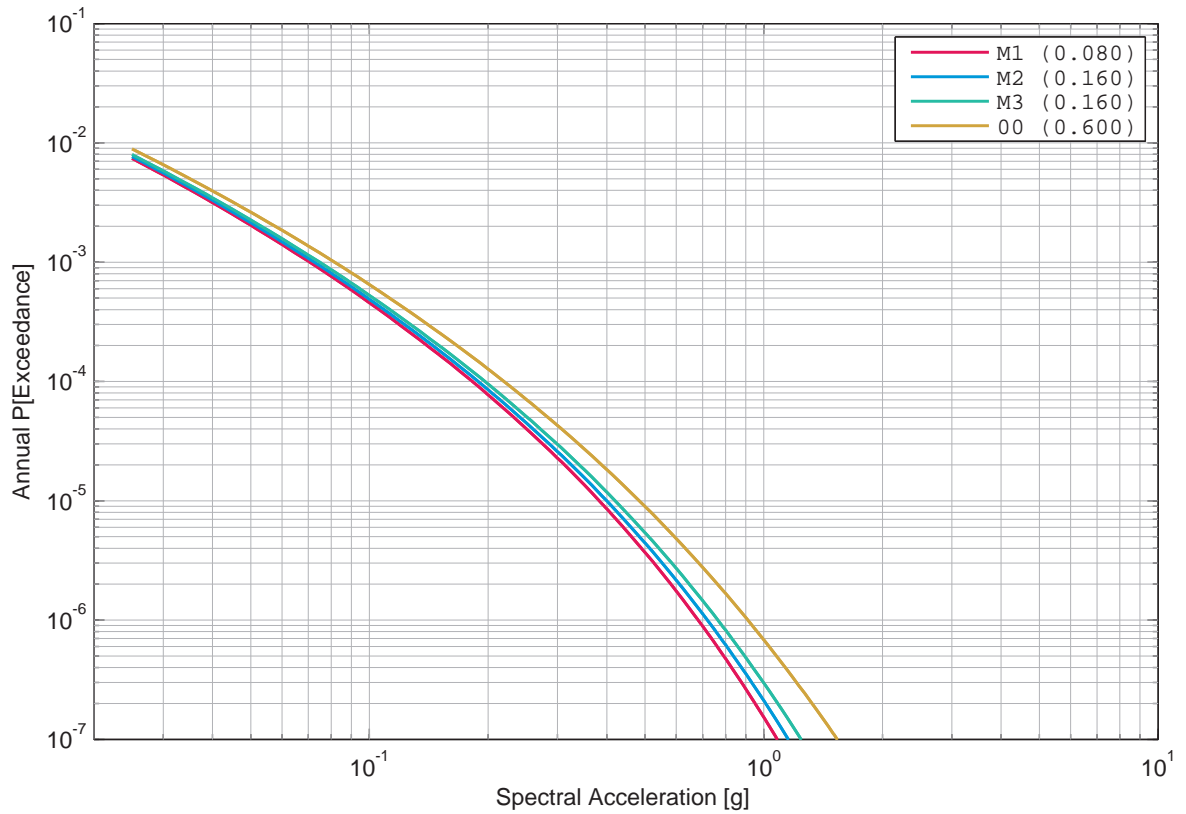


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3.9 Gösgen, Horizontal Component, Soil, Sensitivity to Depth Level

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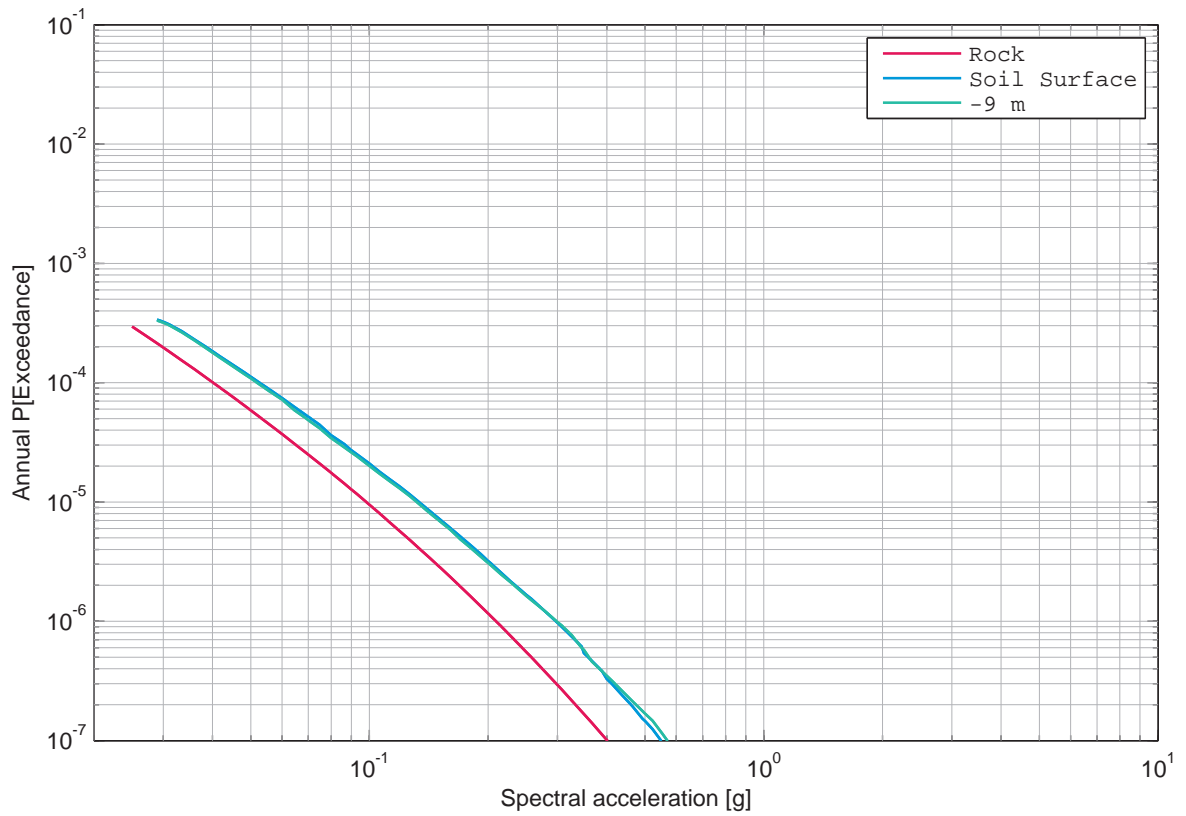


Figure 3.9.1: Gösgen, horizontal component, soil, mean hazard at the different depth levels, 0.5 Hz.

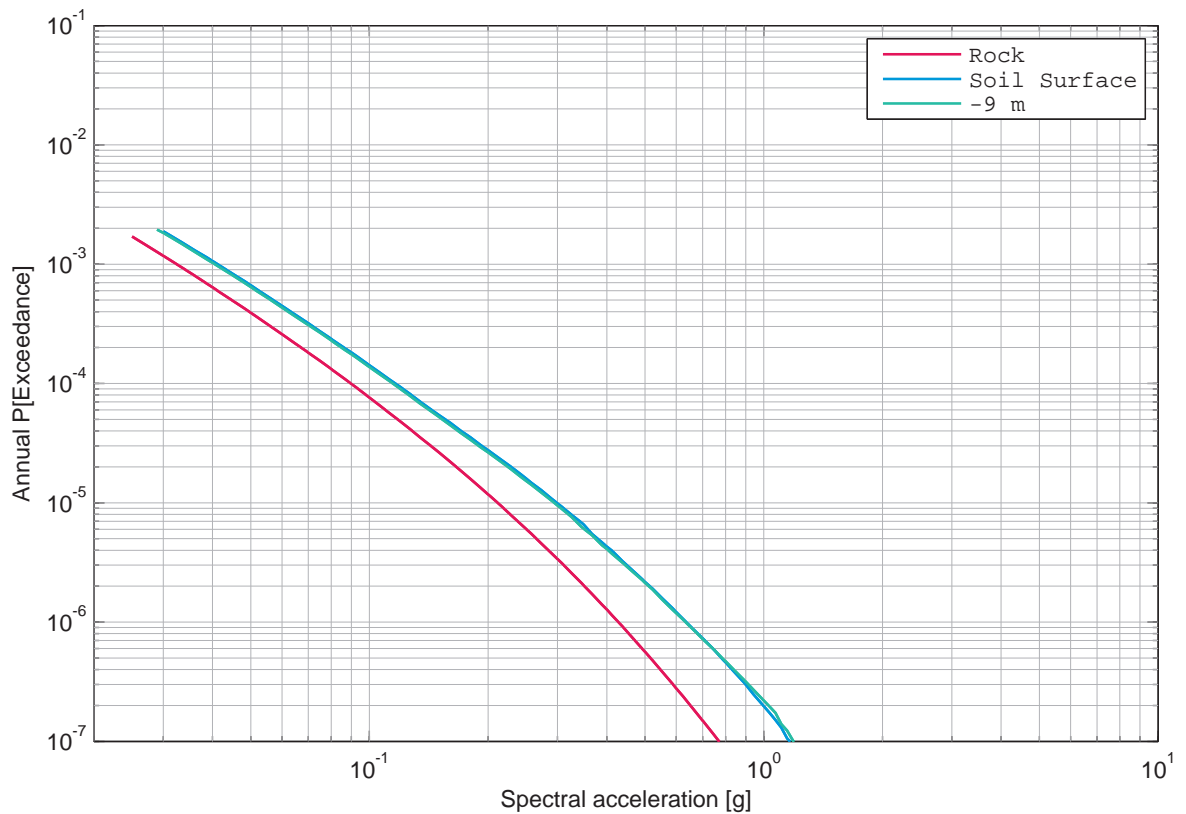


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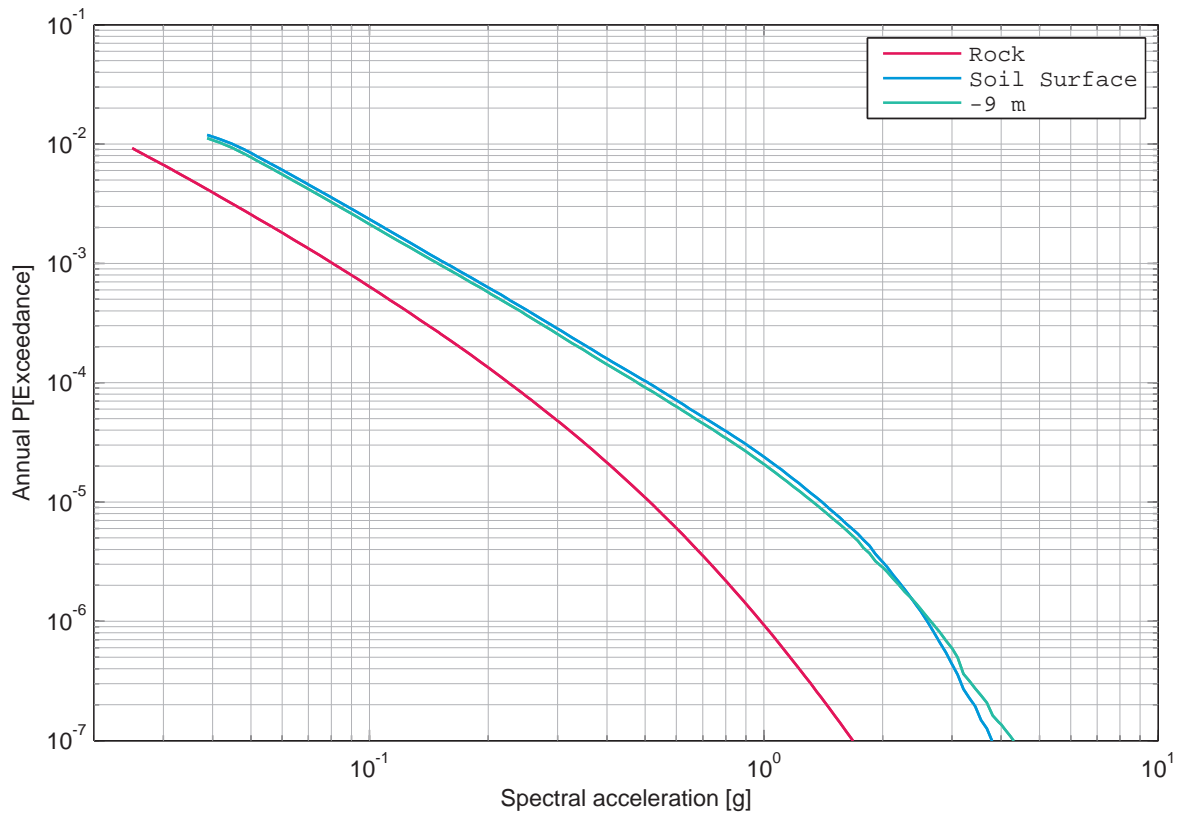


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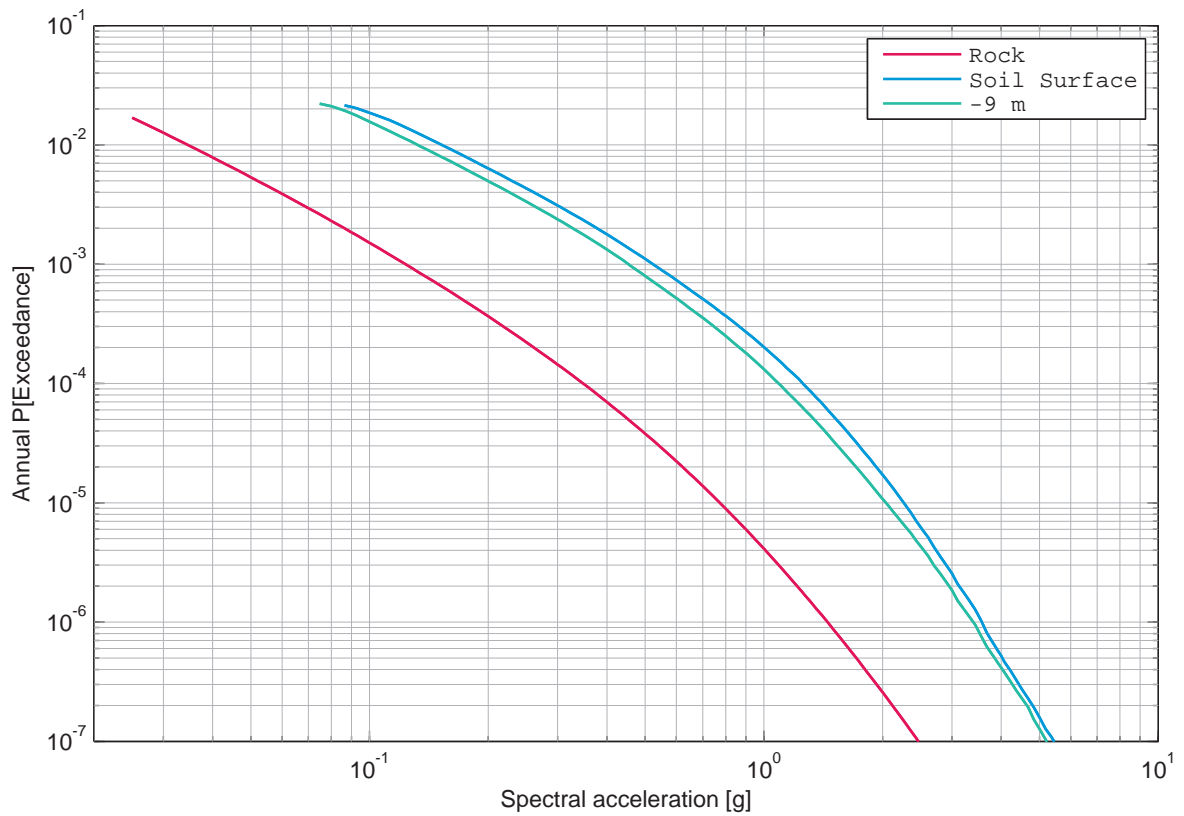


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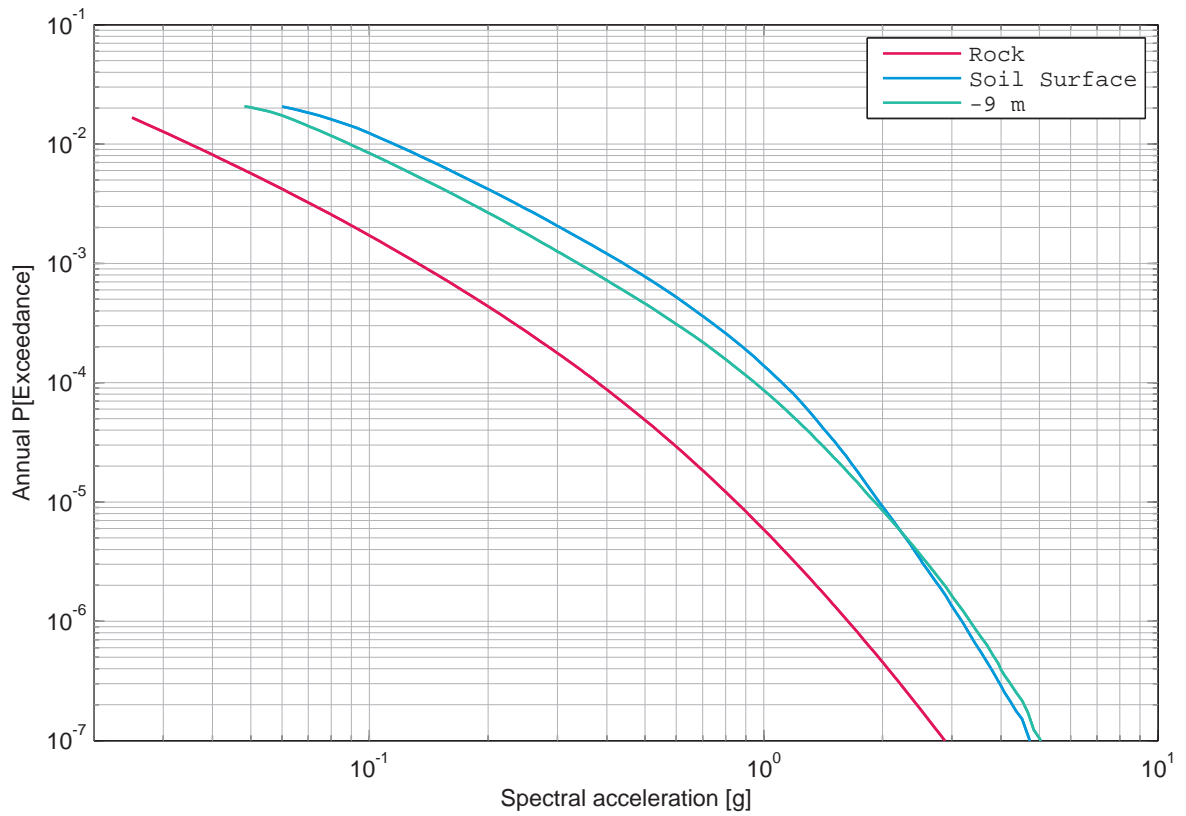


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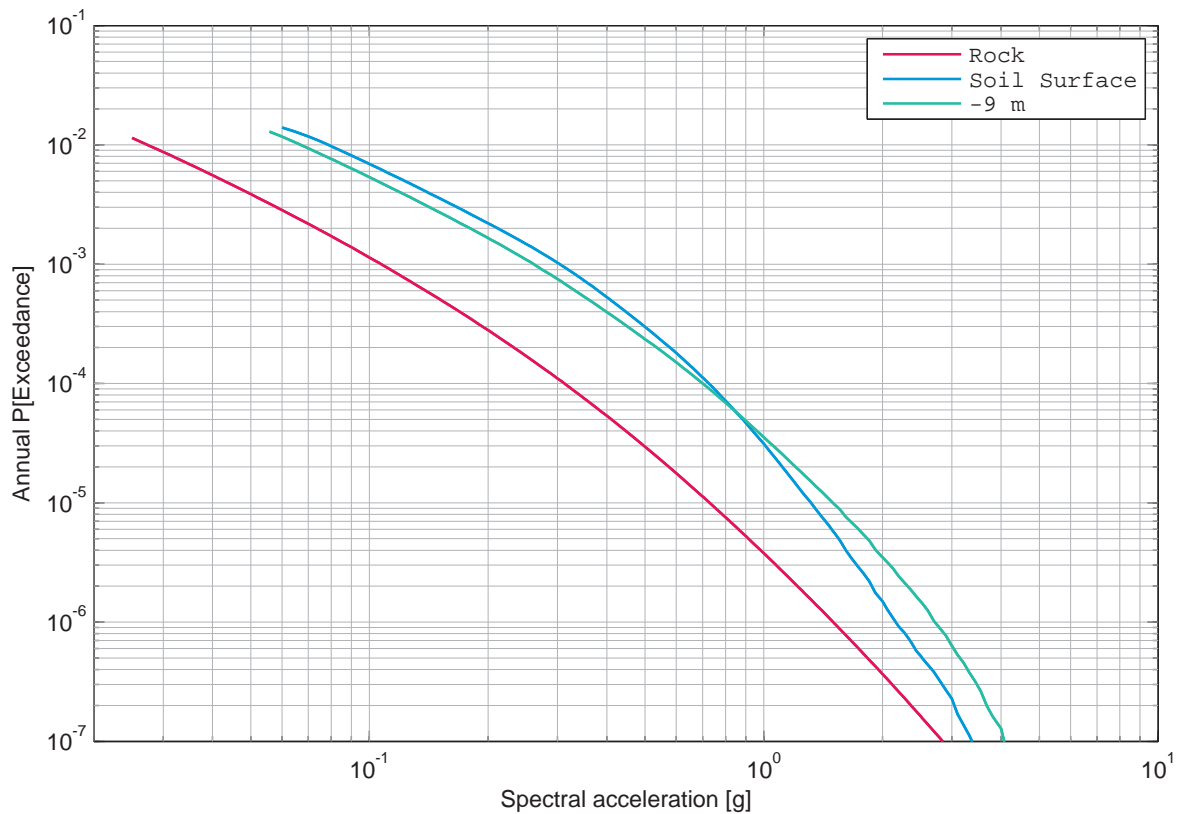


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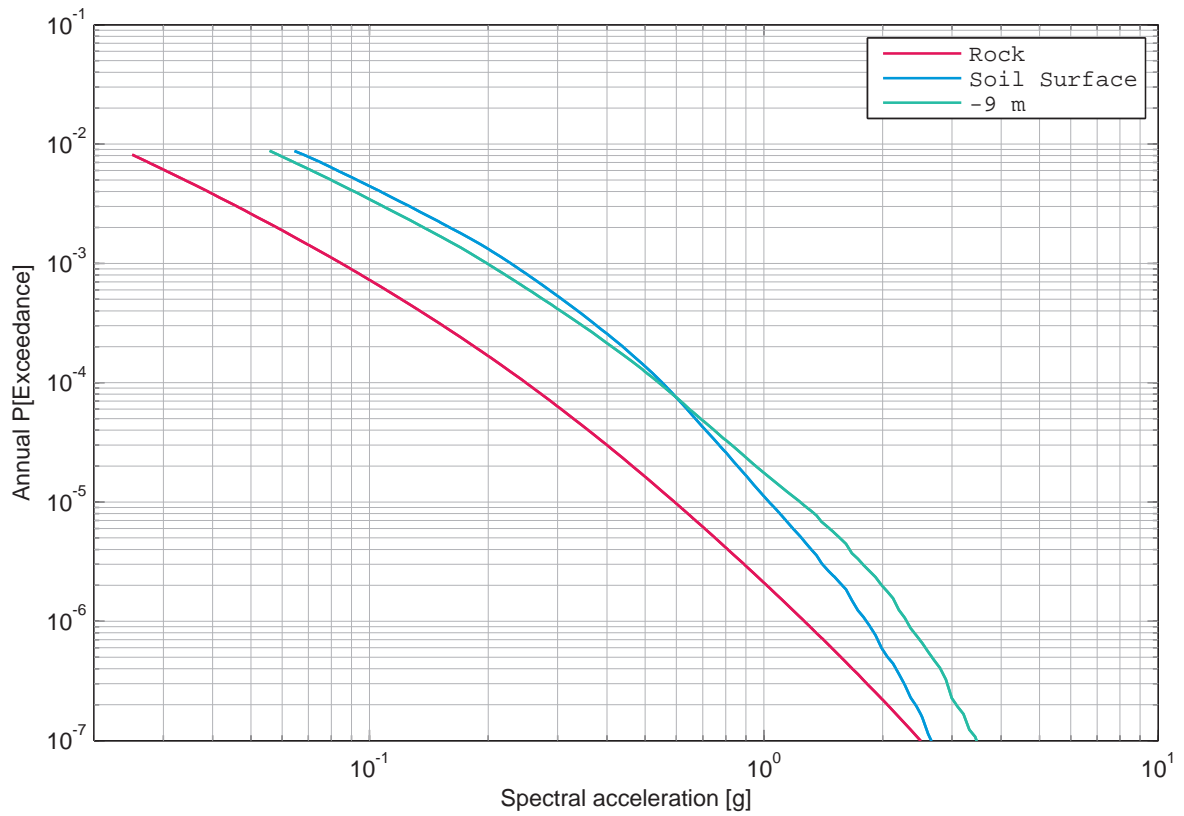


Figure 3.9.7: Gösgen, horizontal component, soil, mean hazard at the different depth levels, 33 Hz.

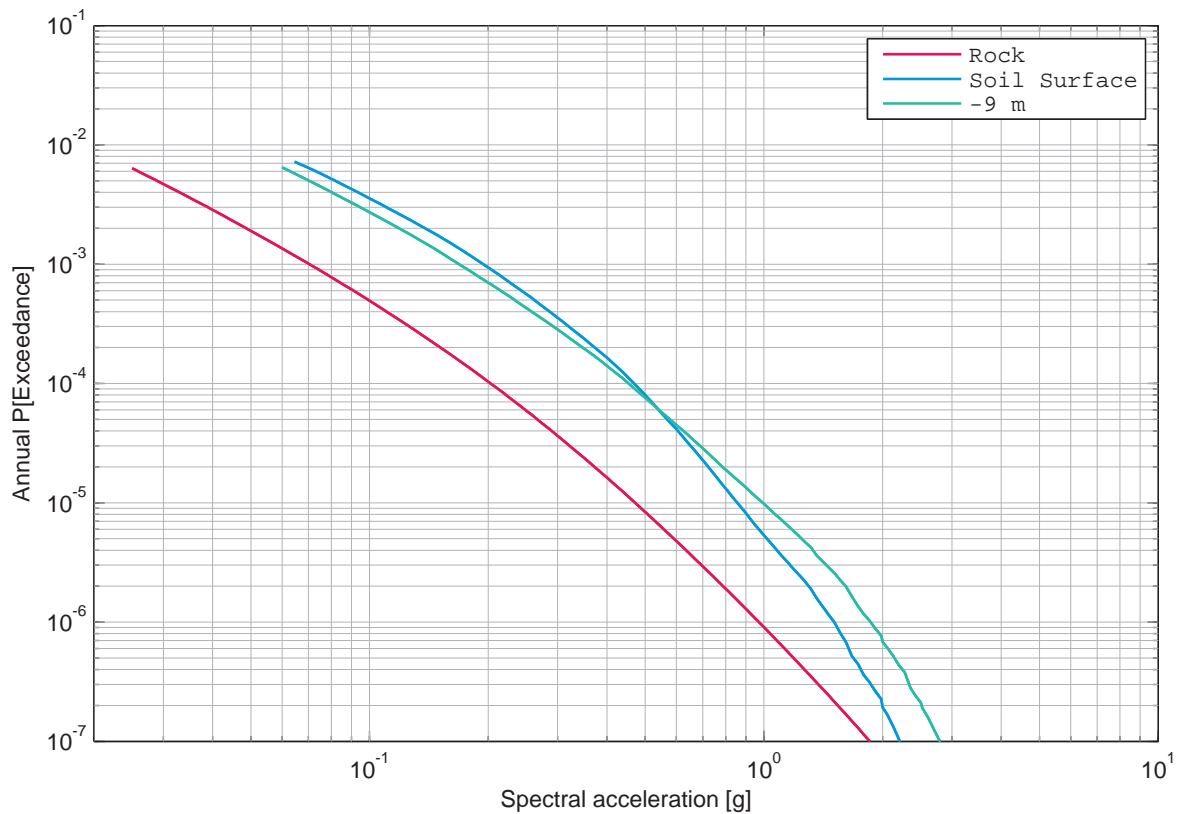


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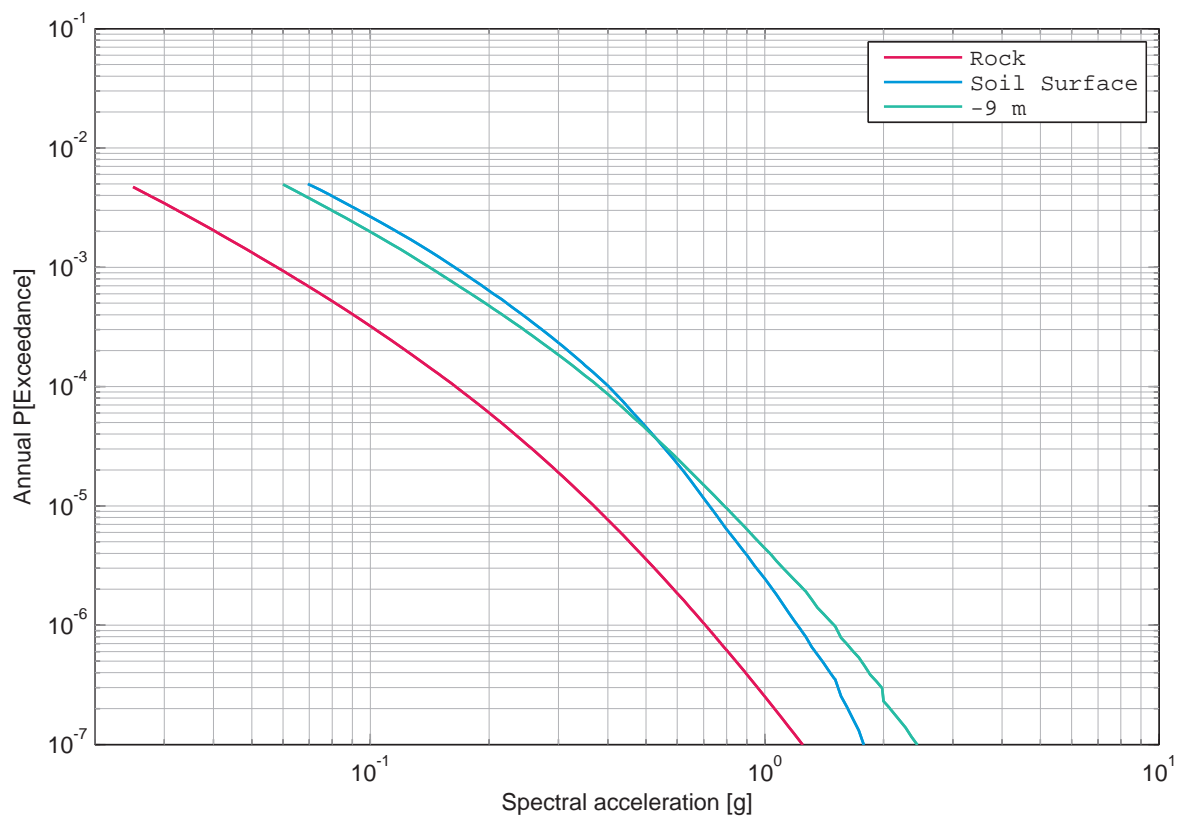


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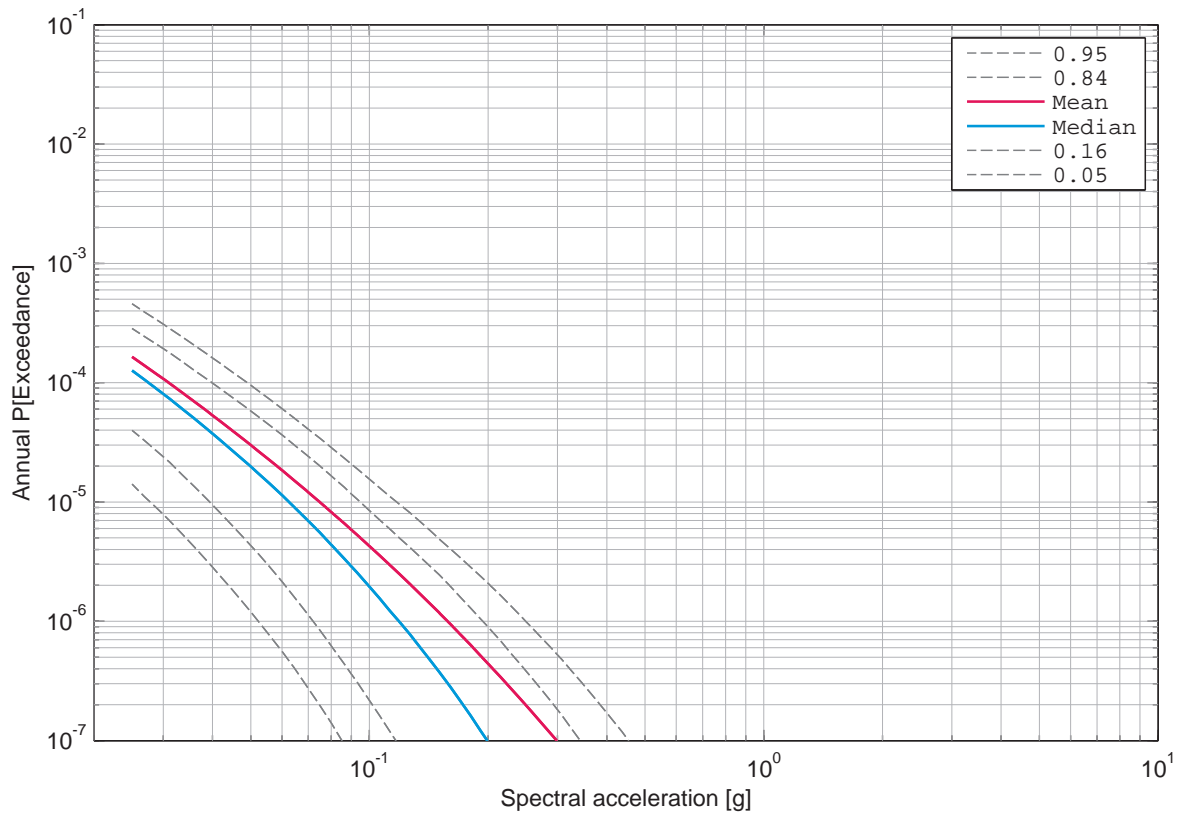


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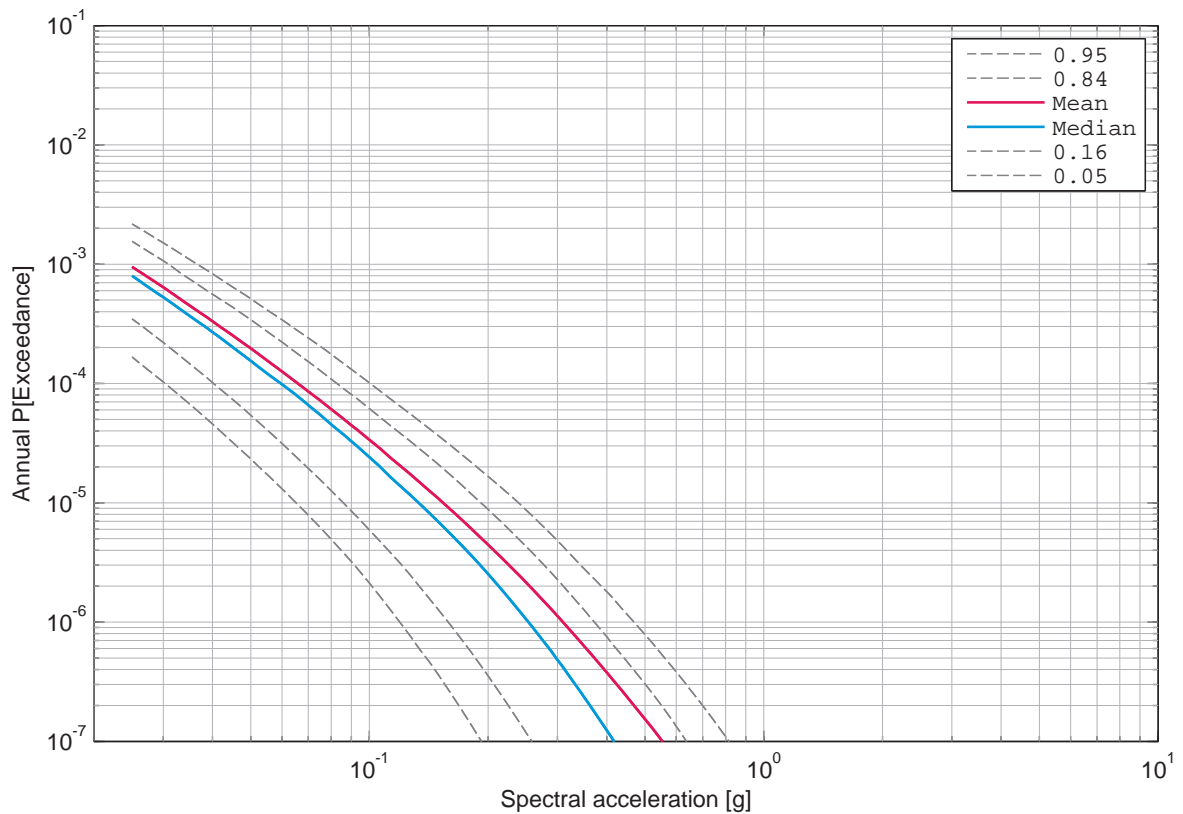


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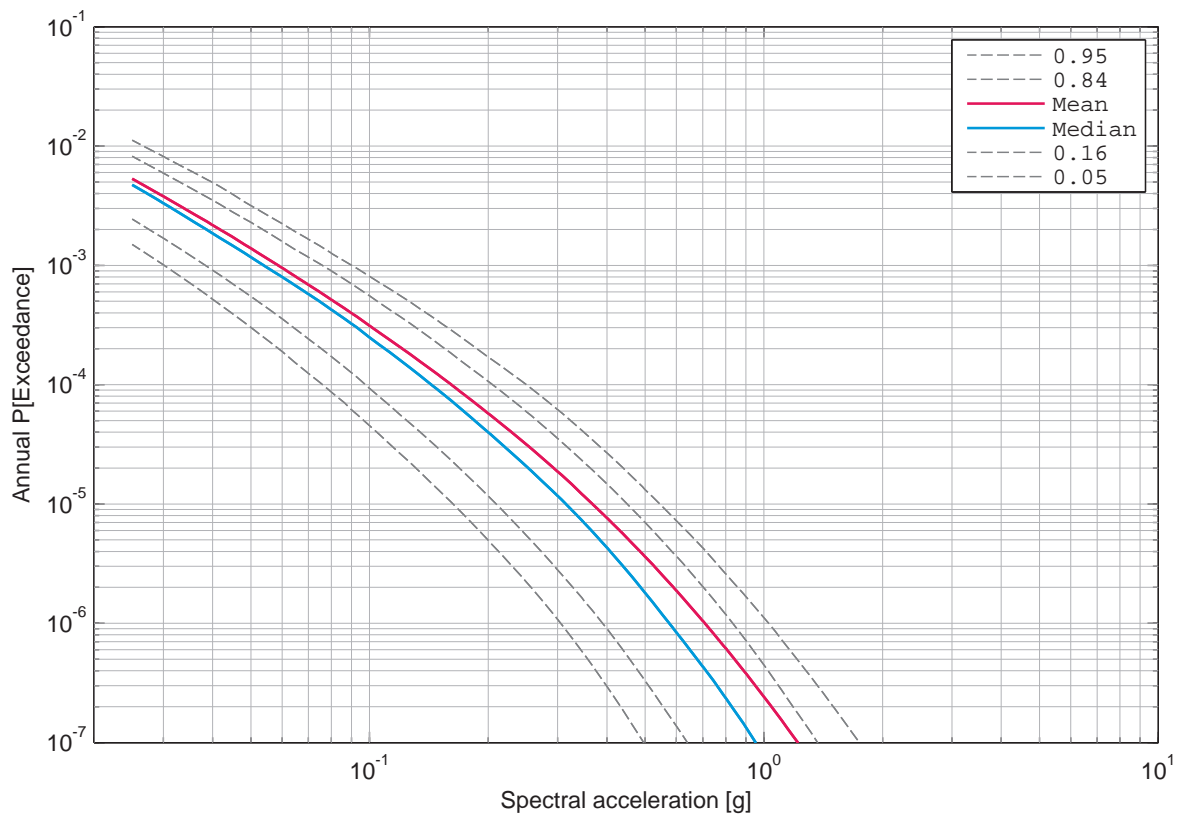


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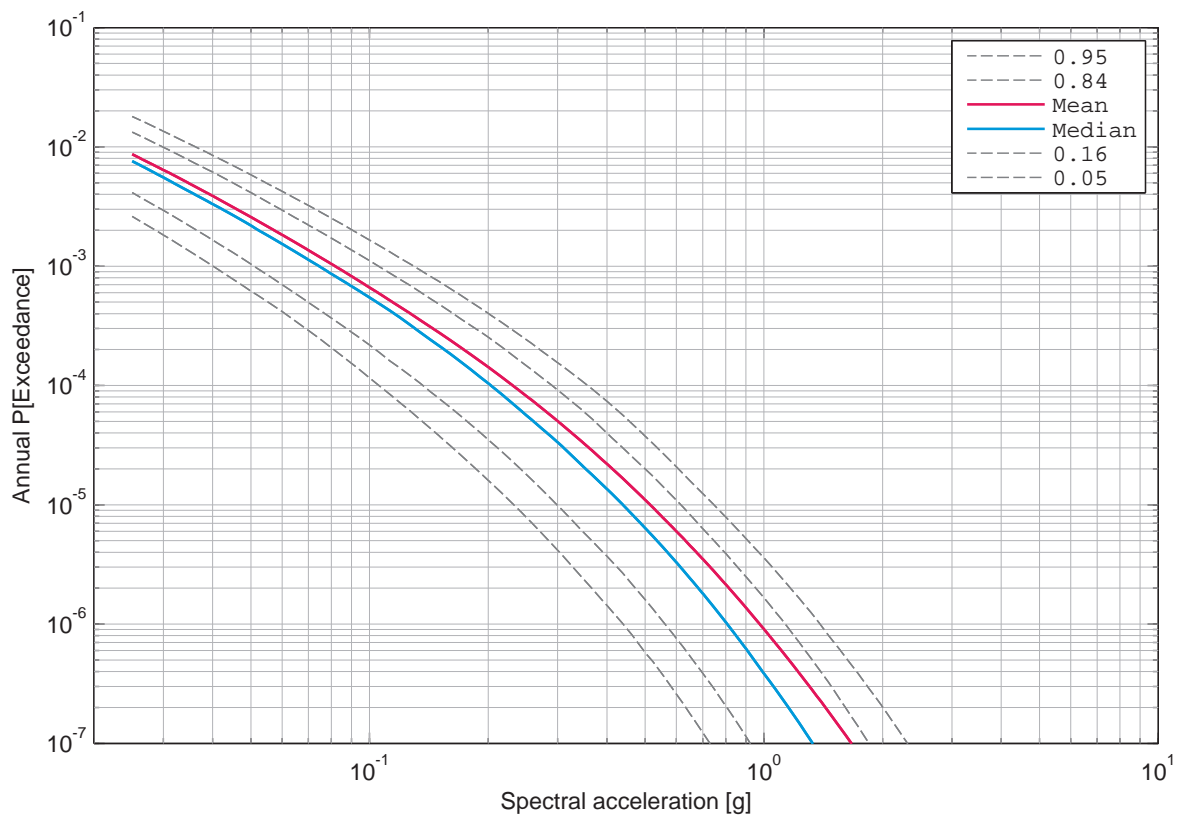


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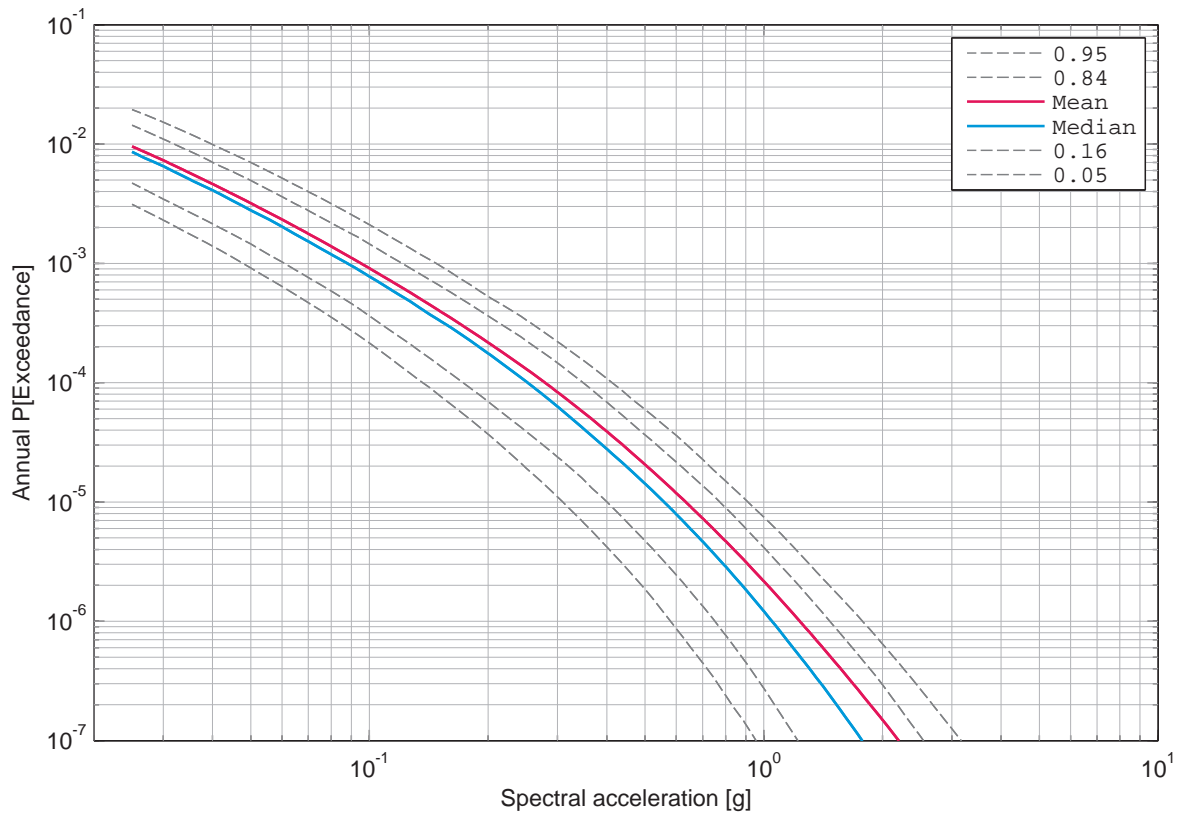


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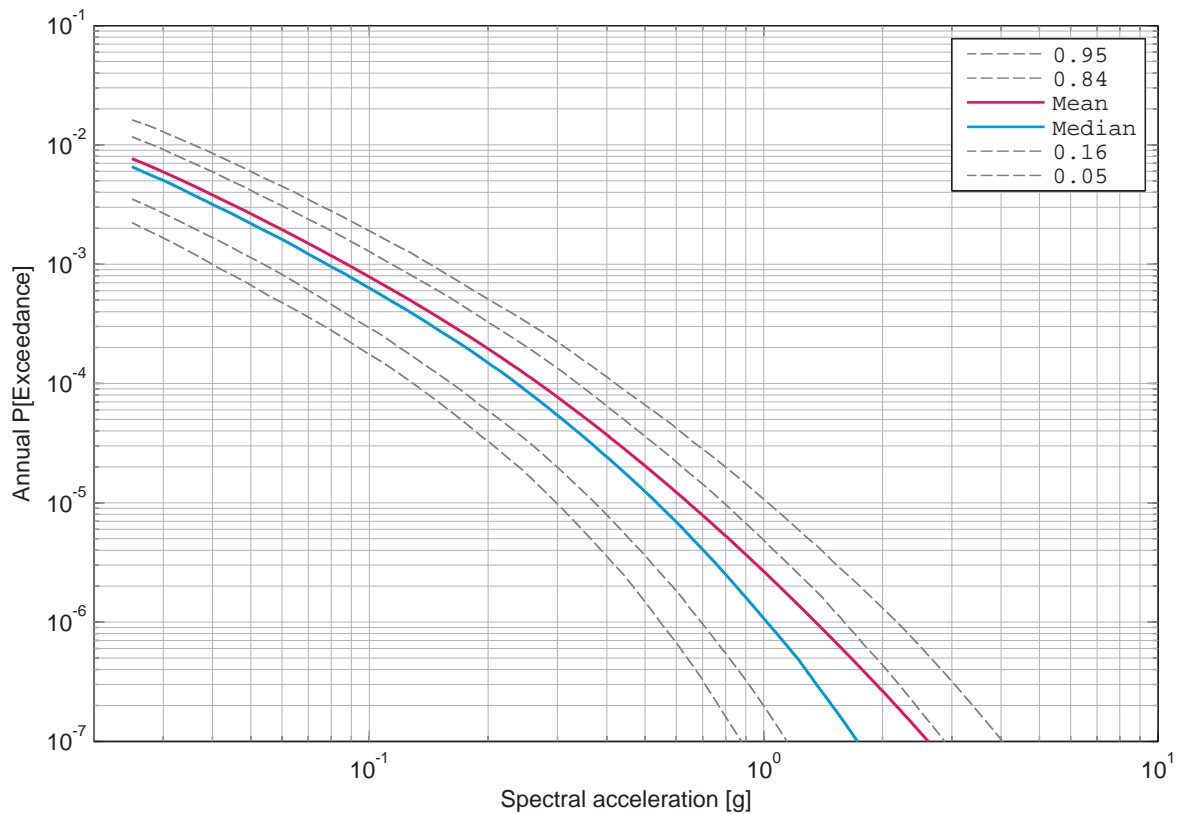


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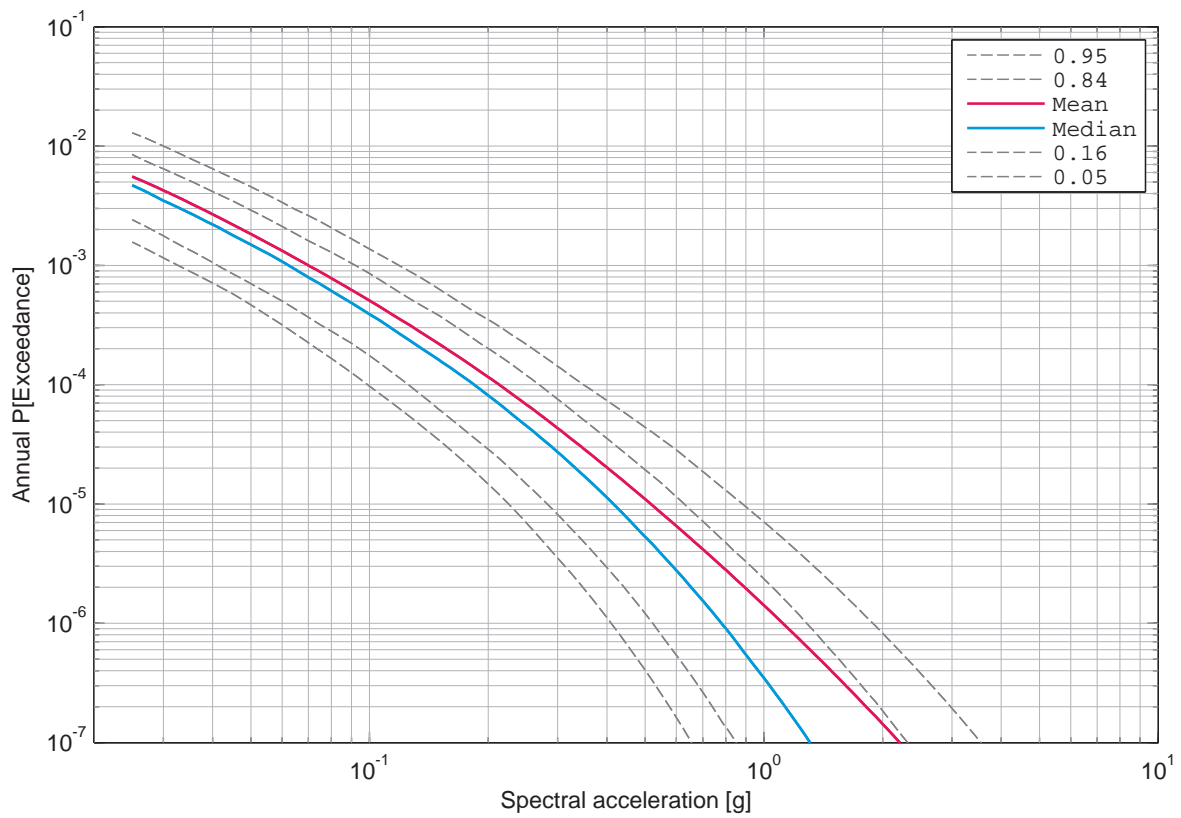


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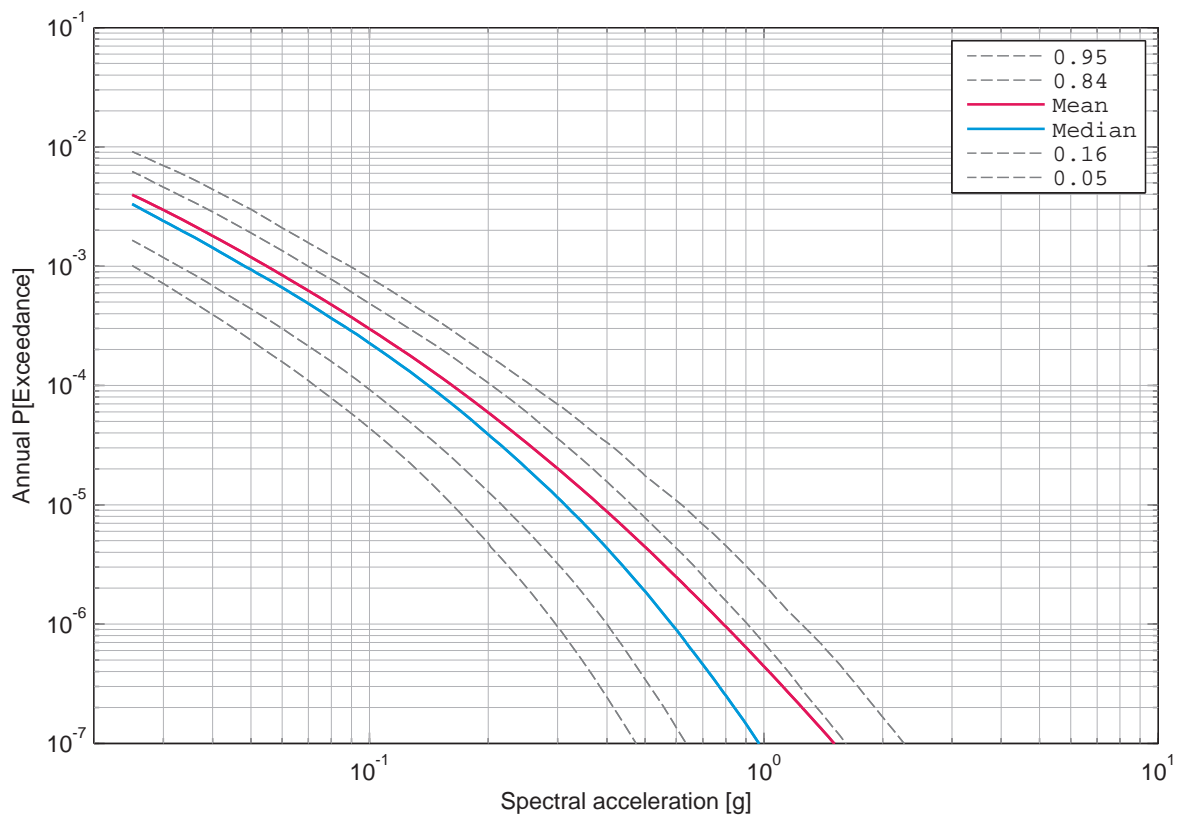


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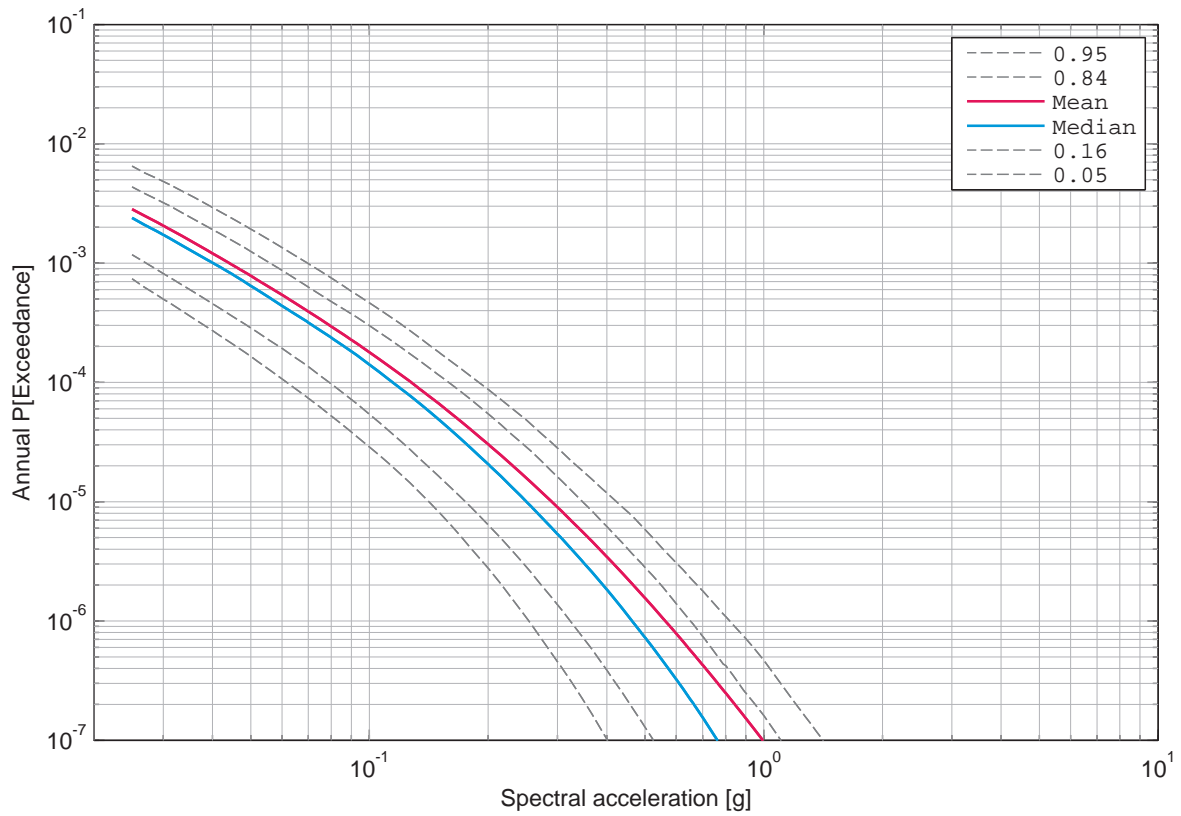


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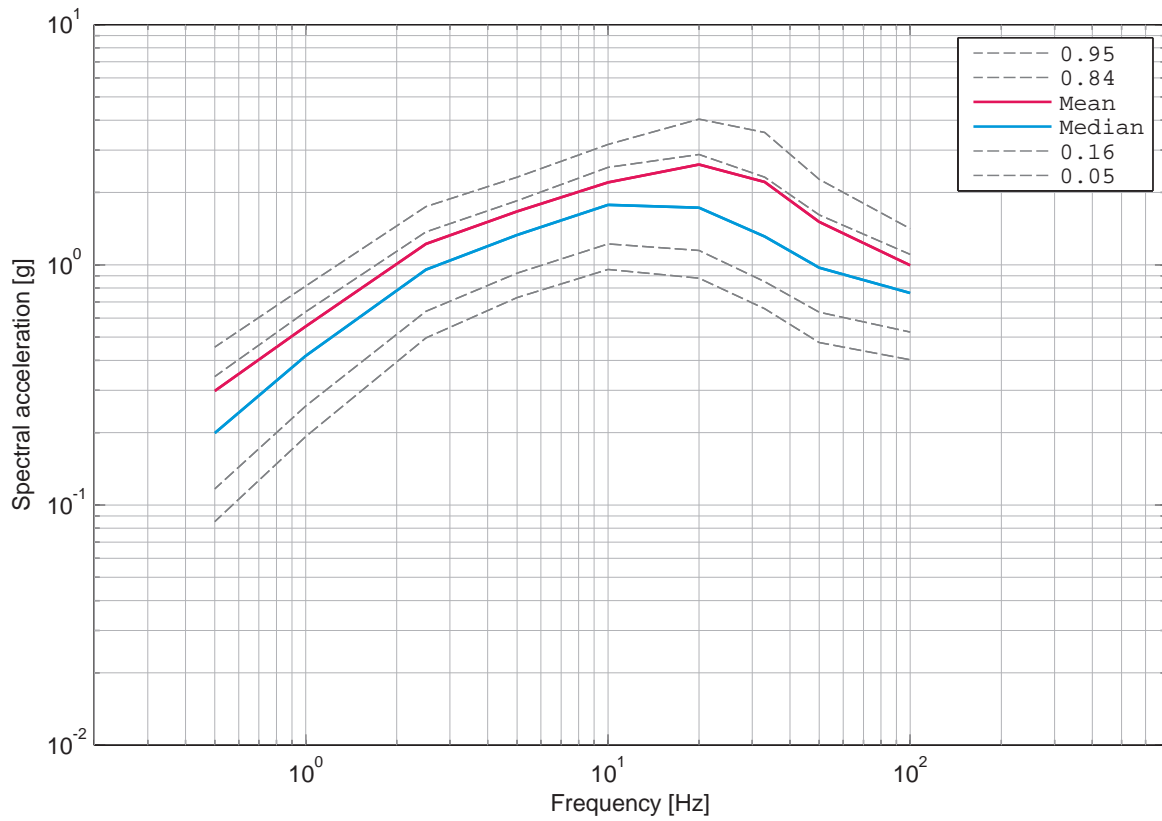


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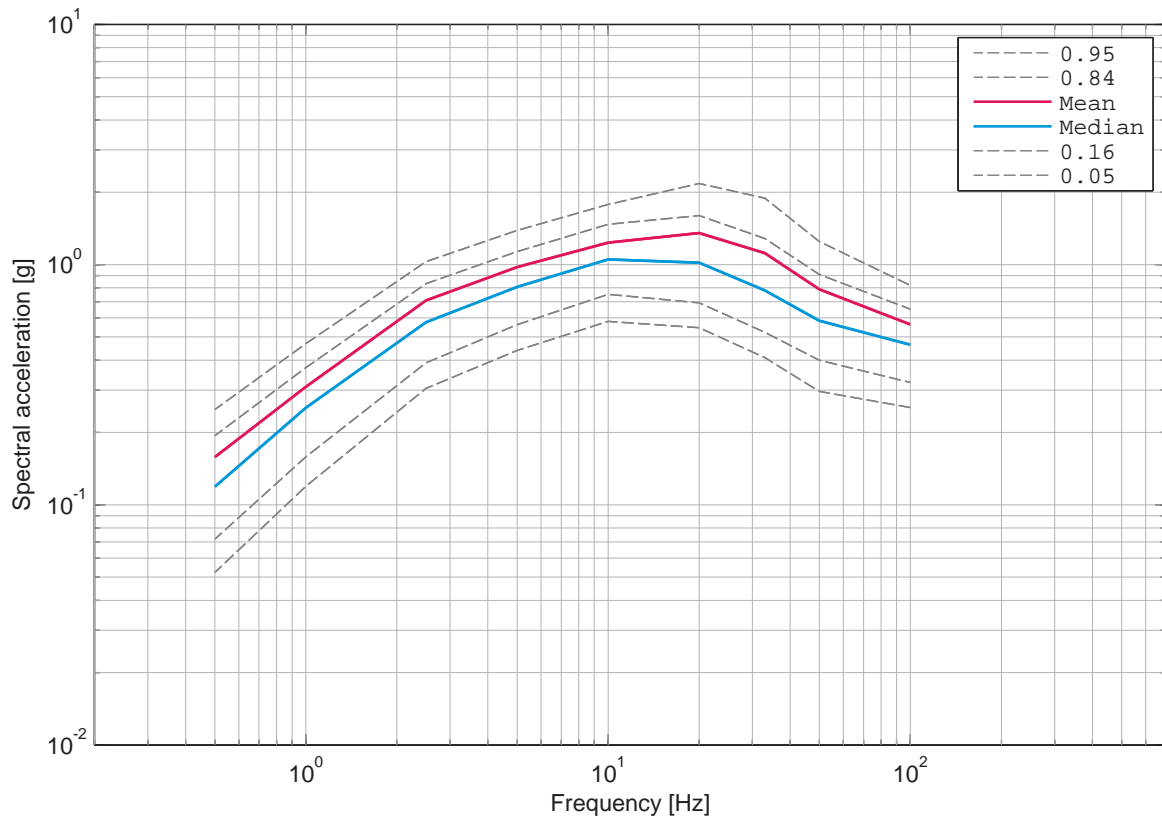


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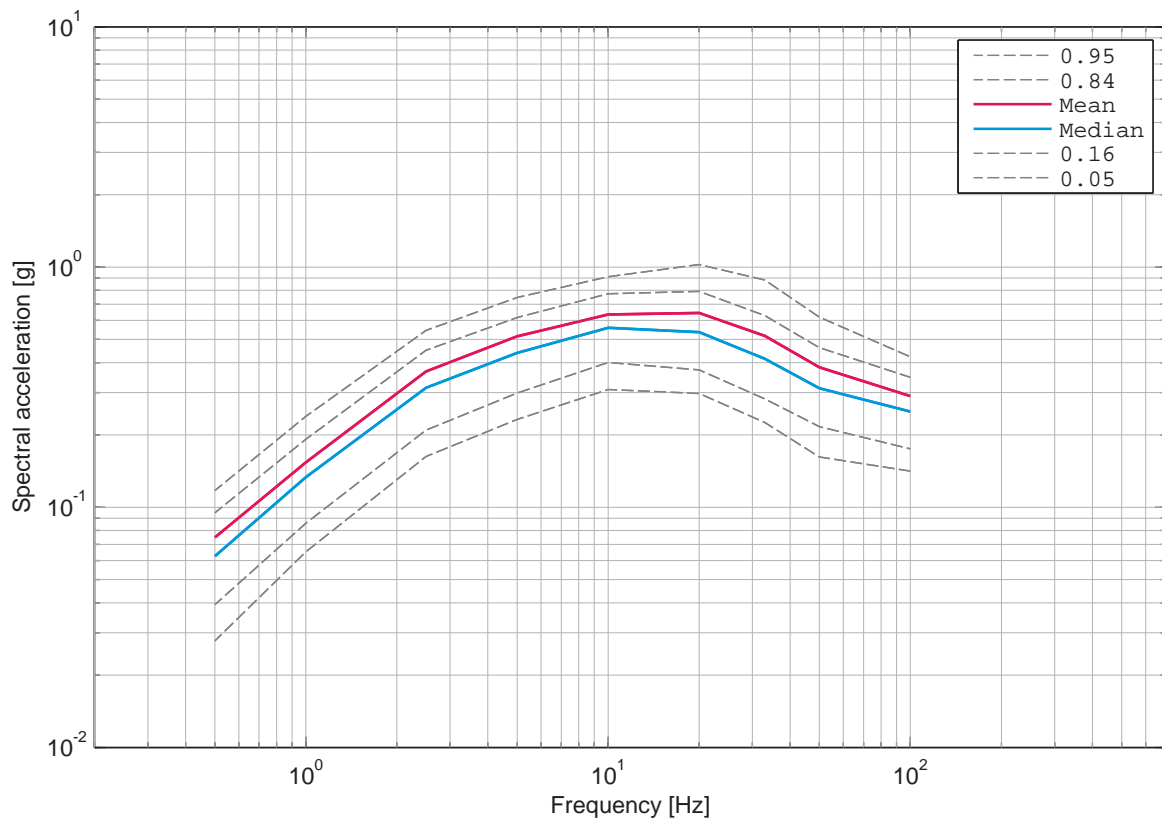


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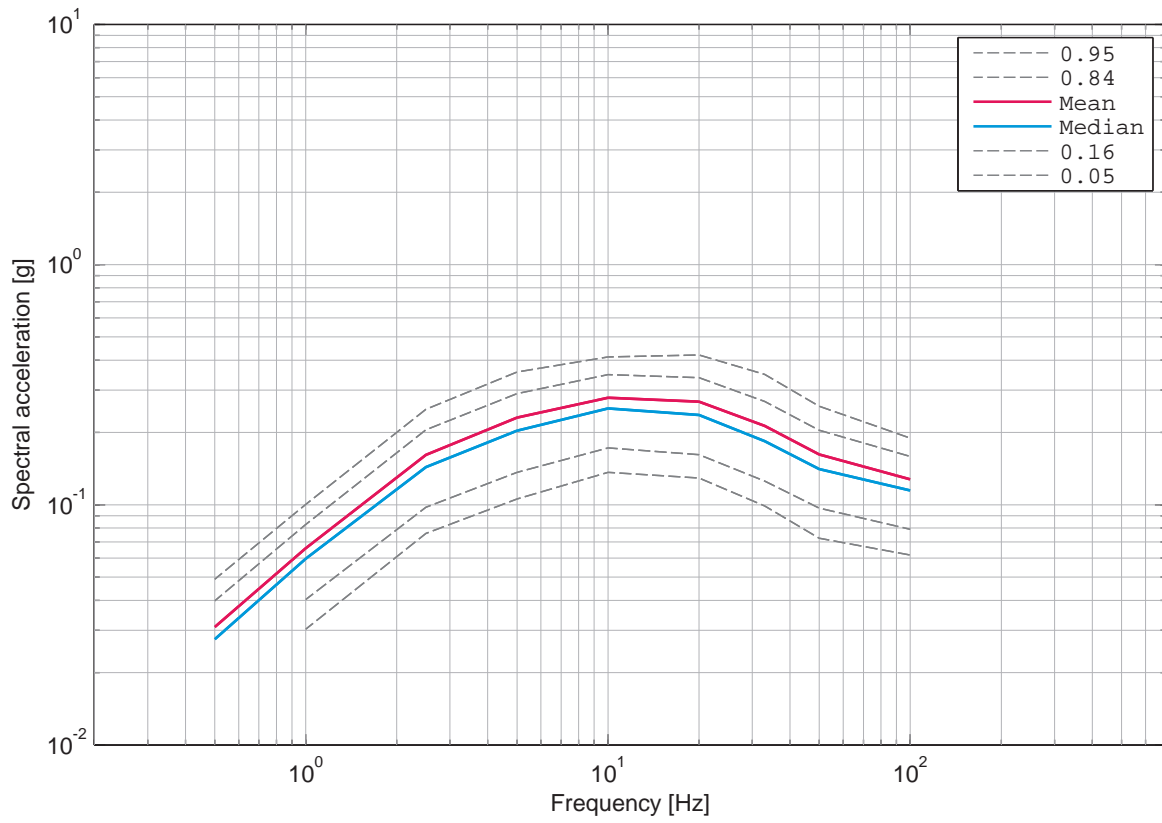


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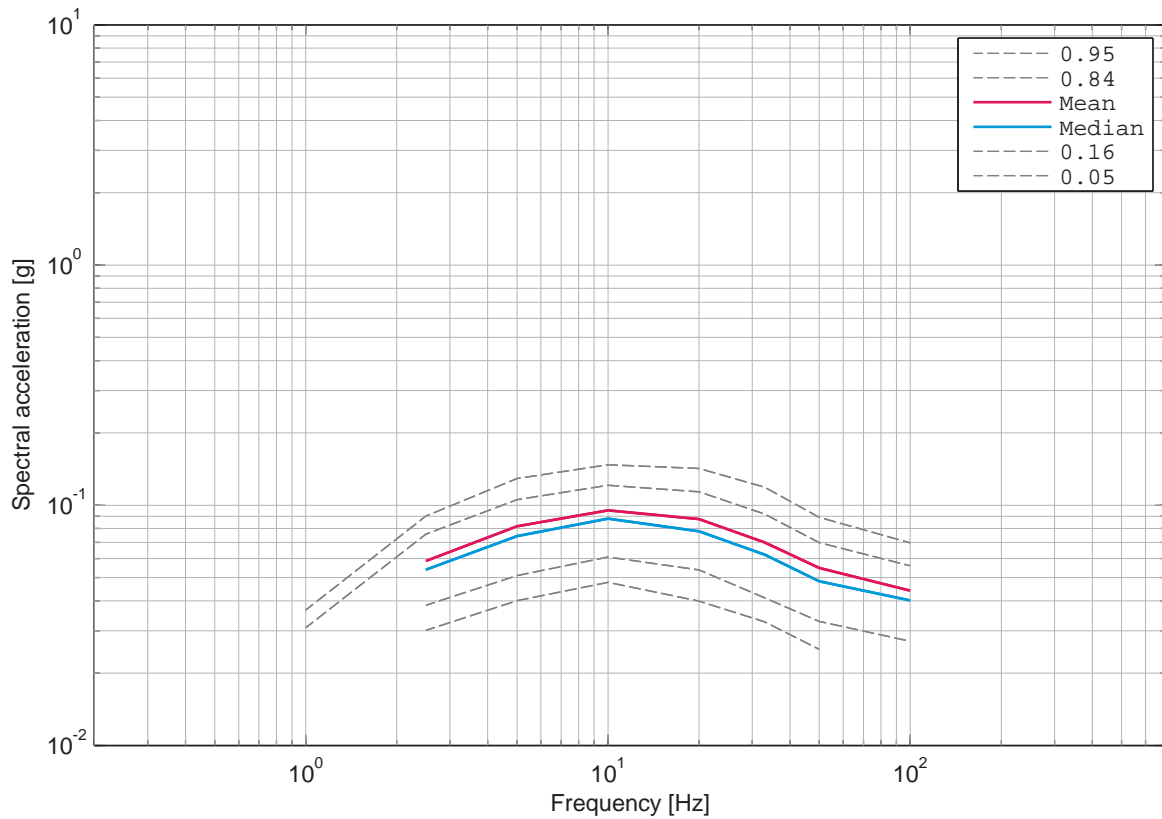


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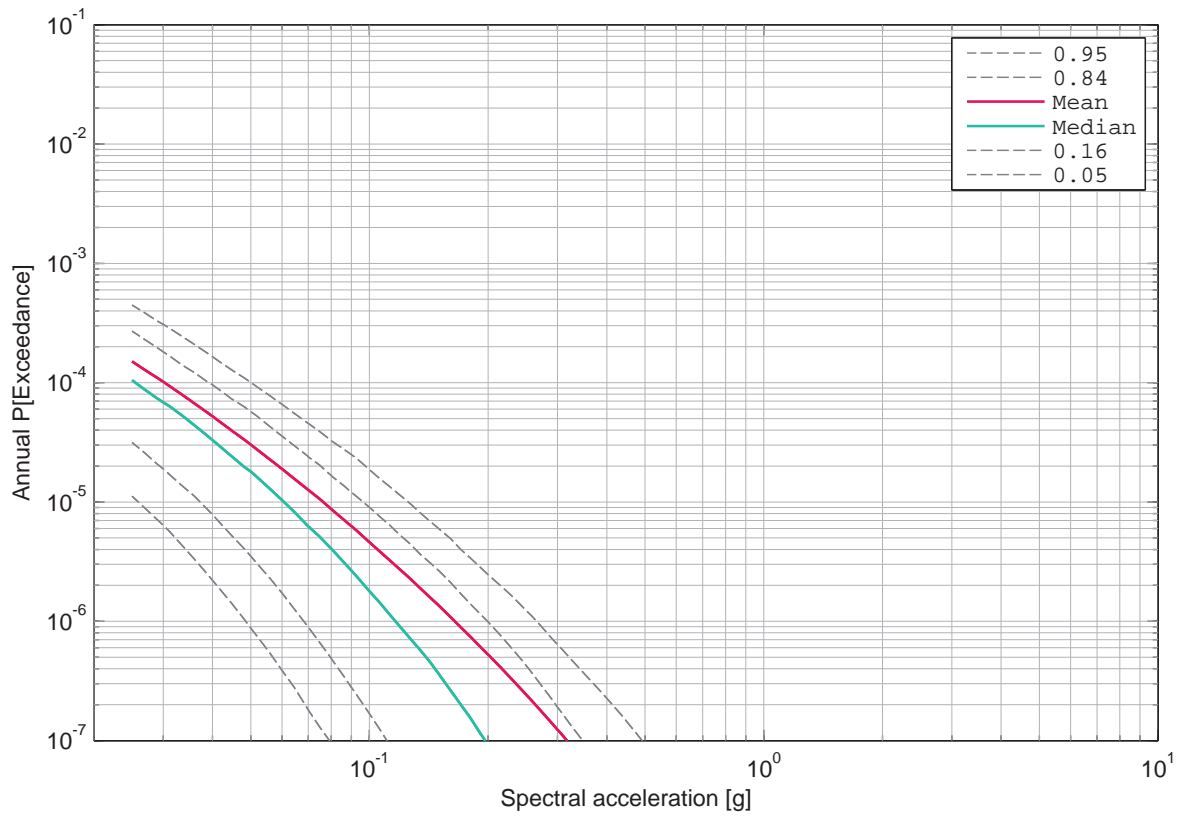


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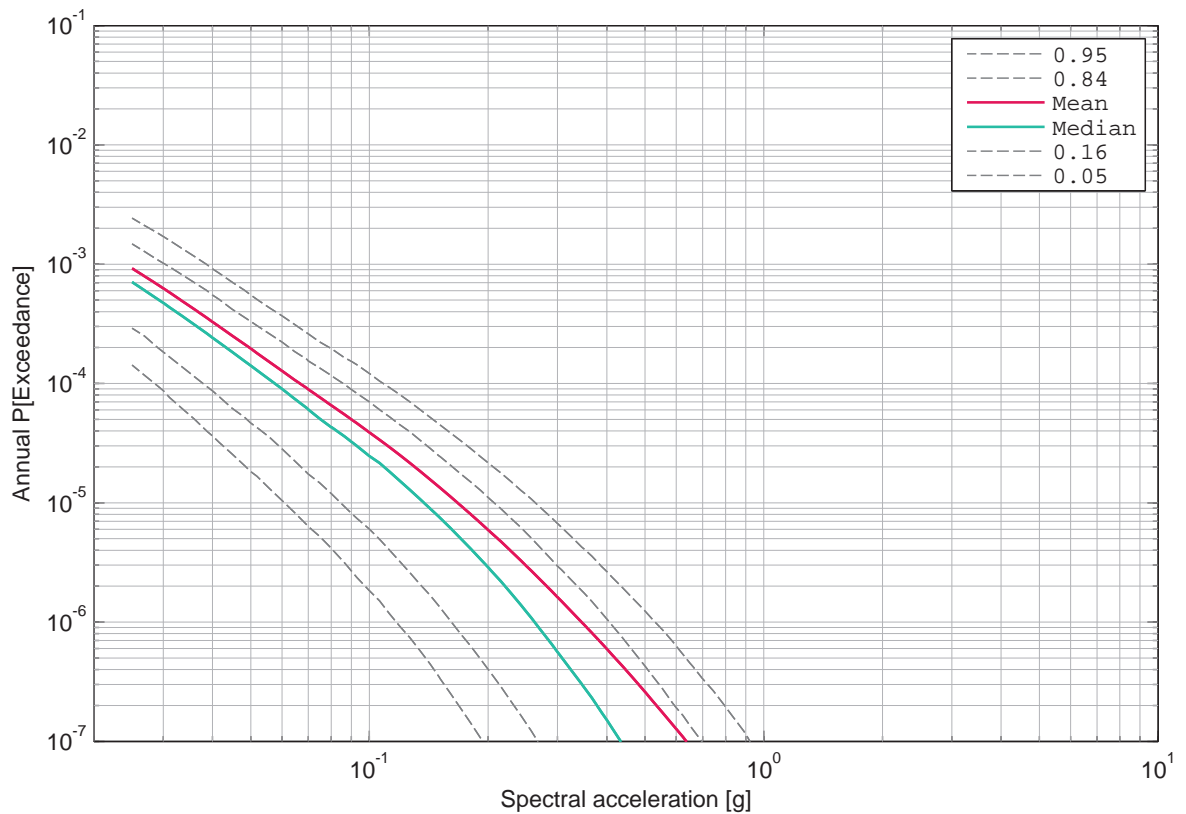


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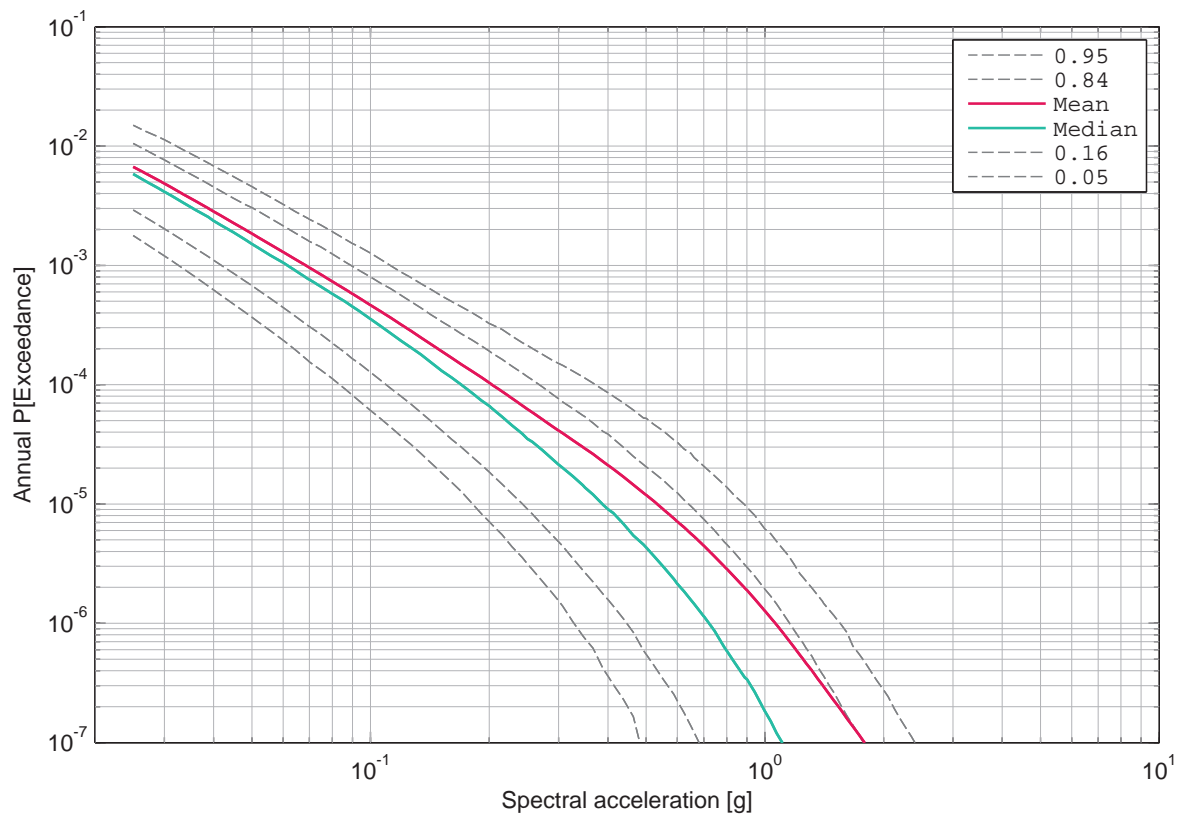


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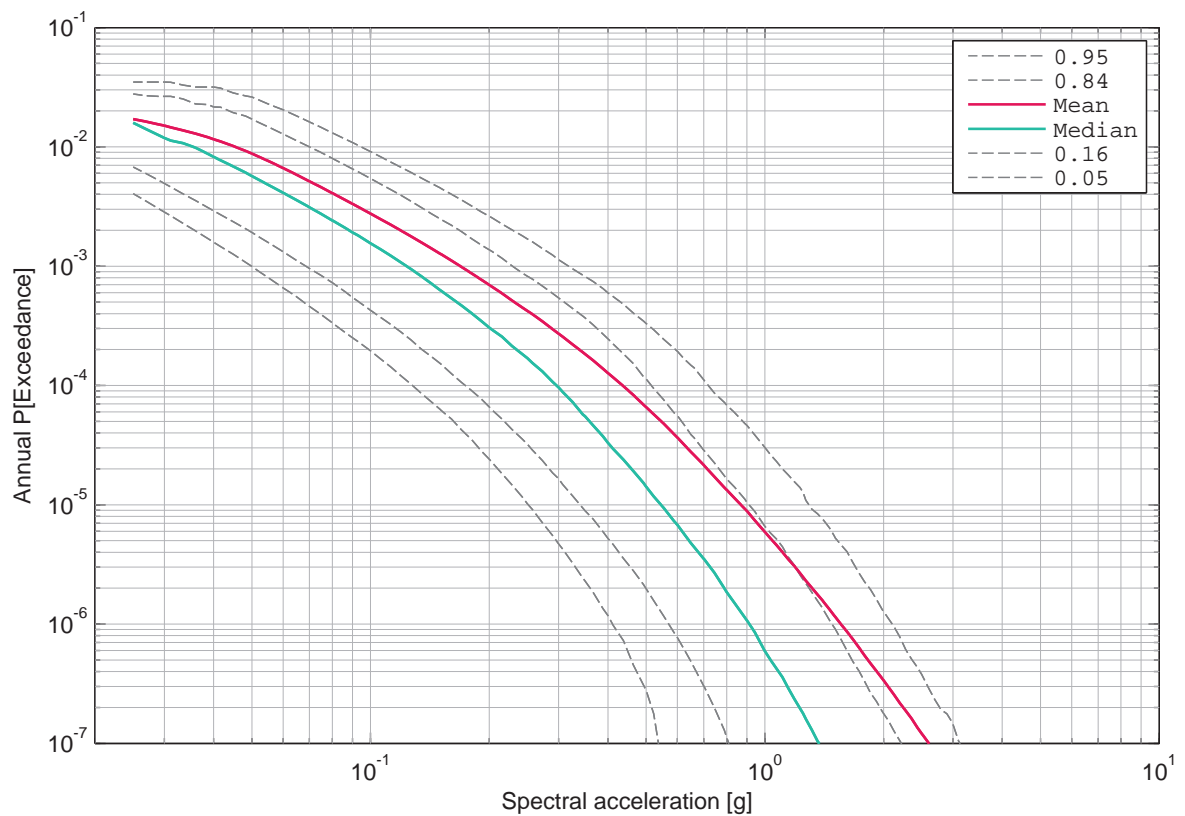


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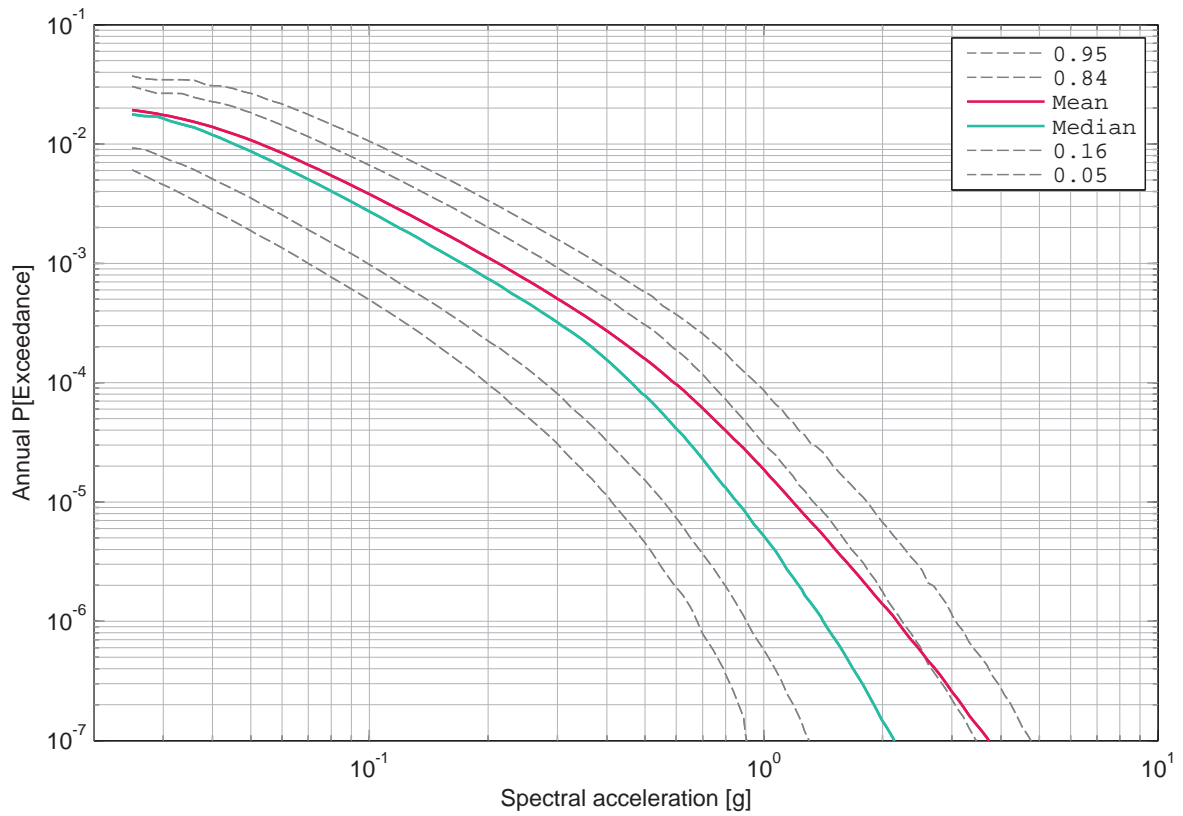


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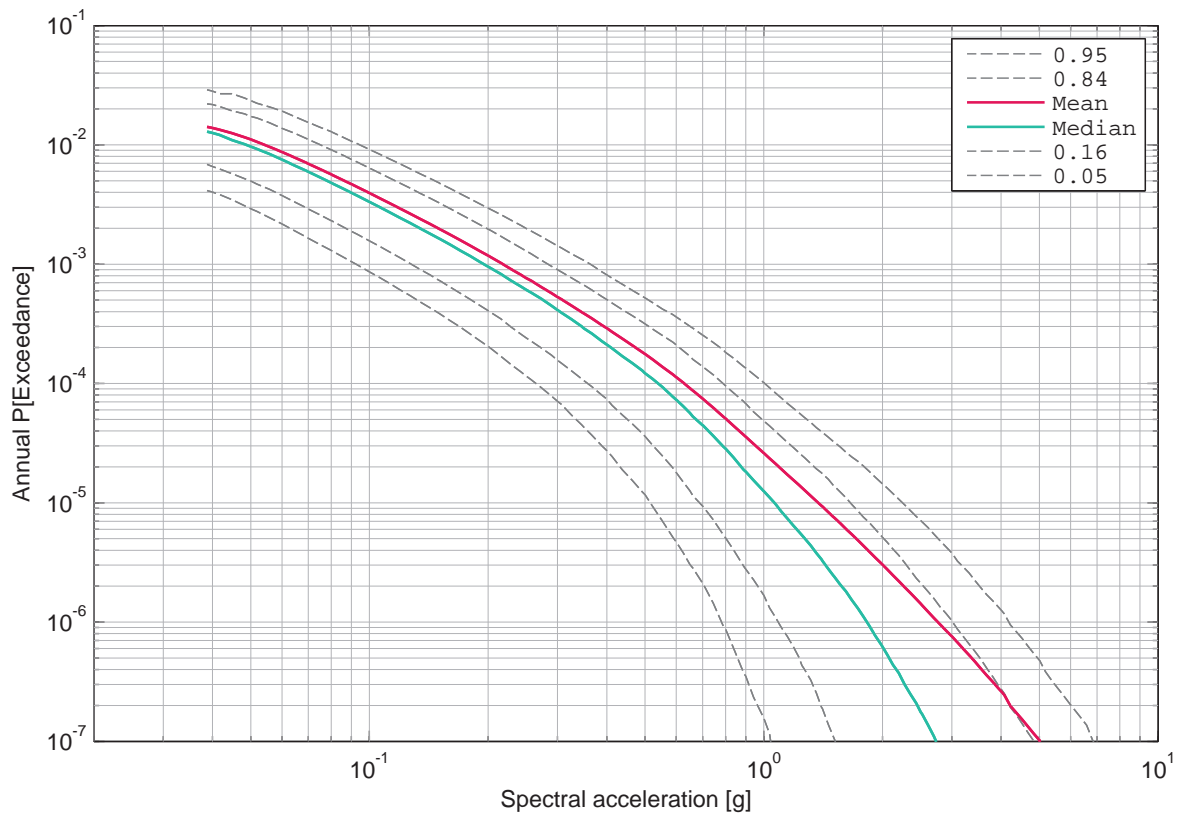


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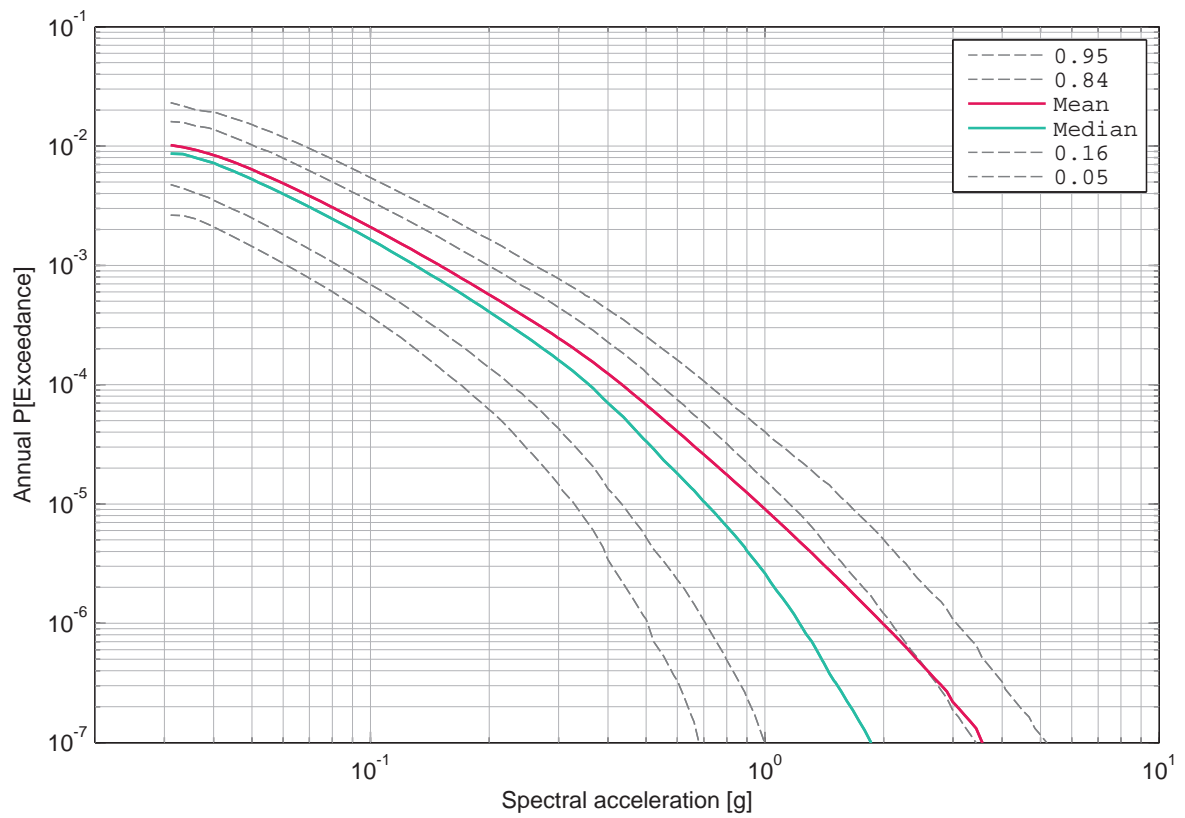


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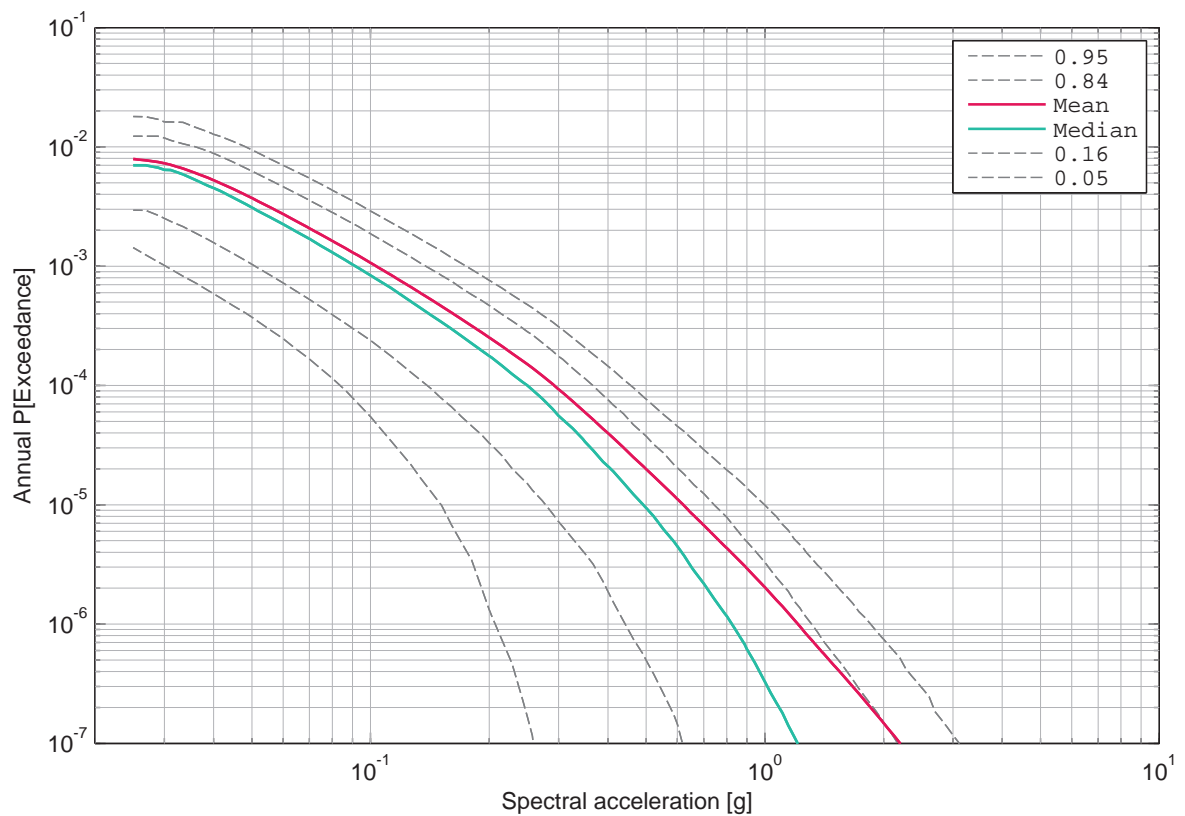


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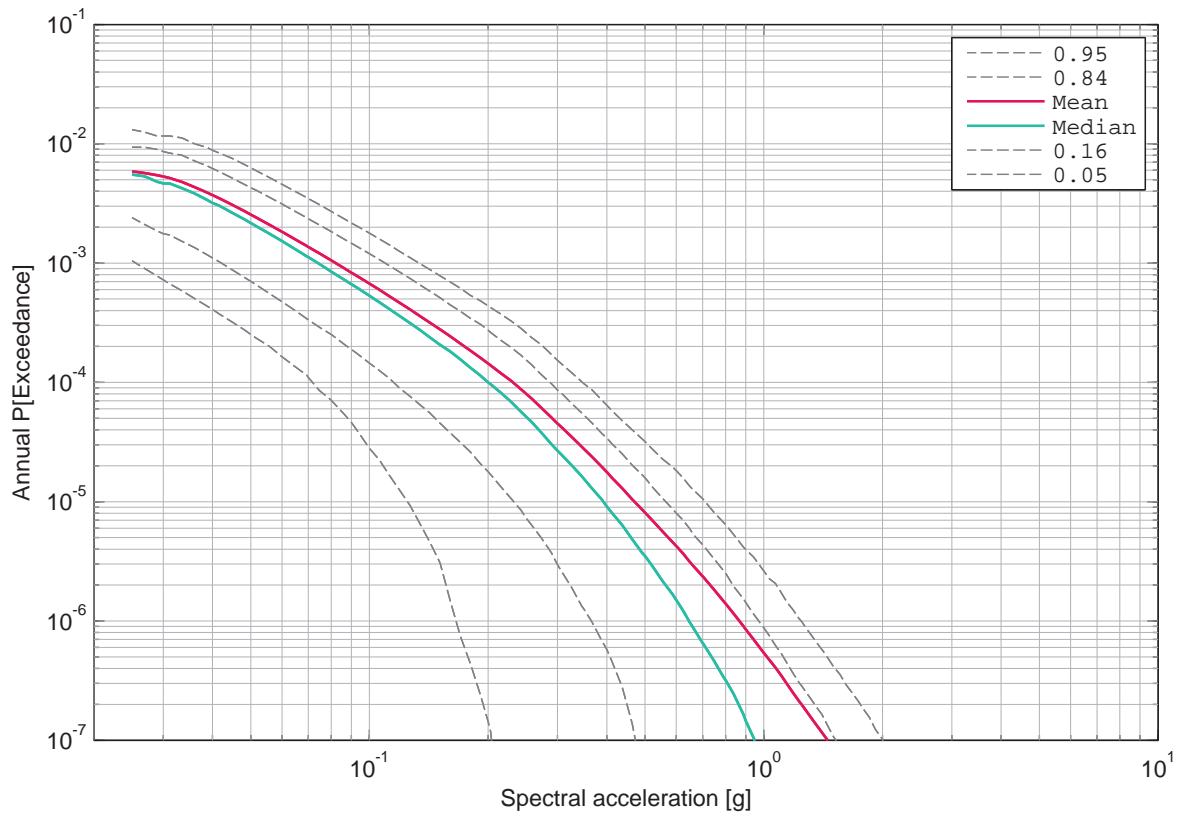


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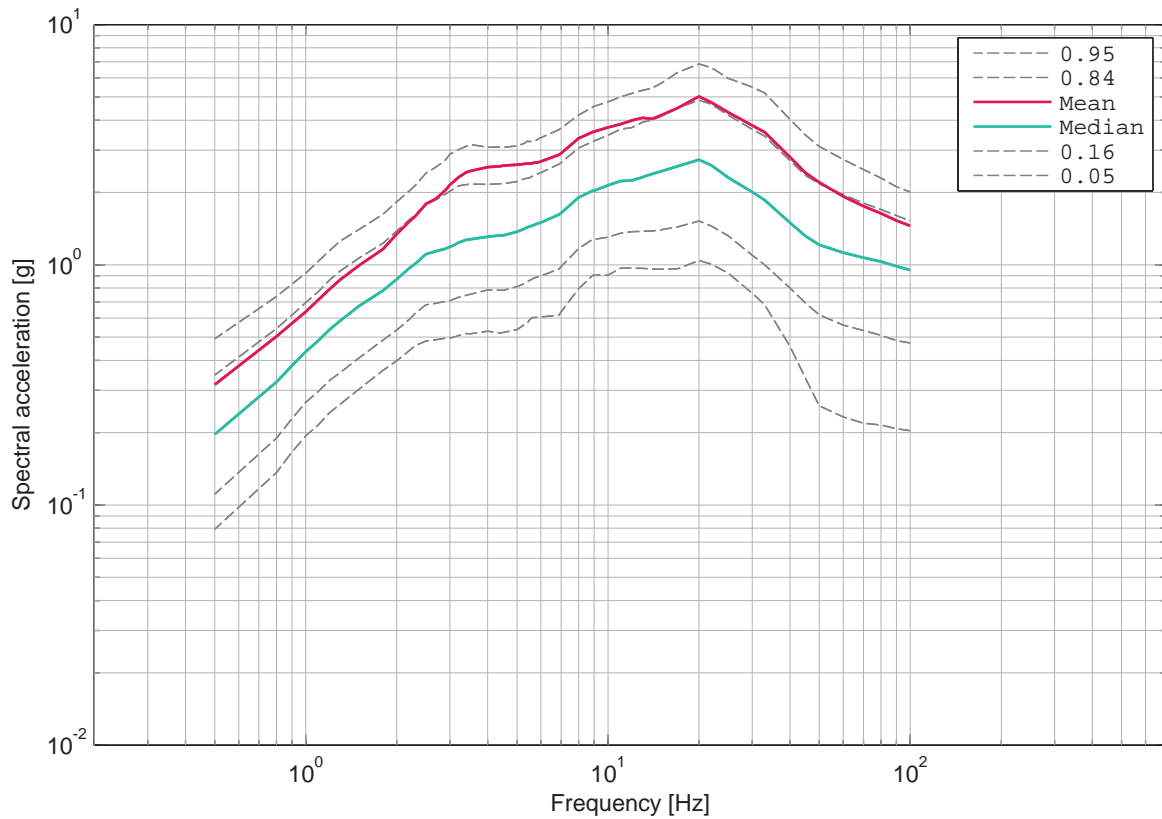


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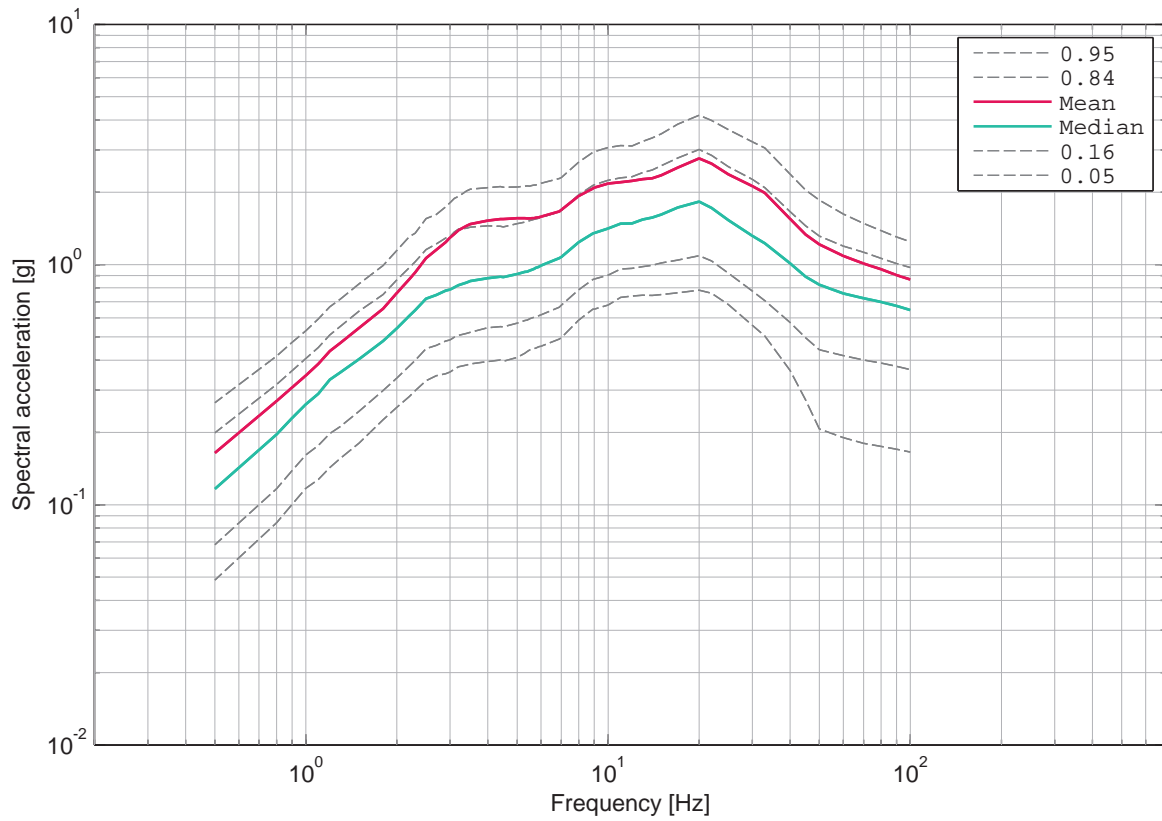


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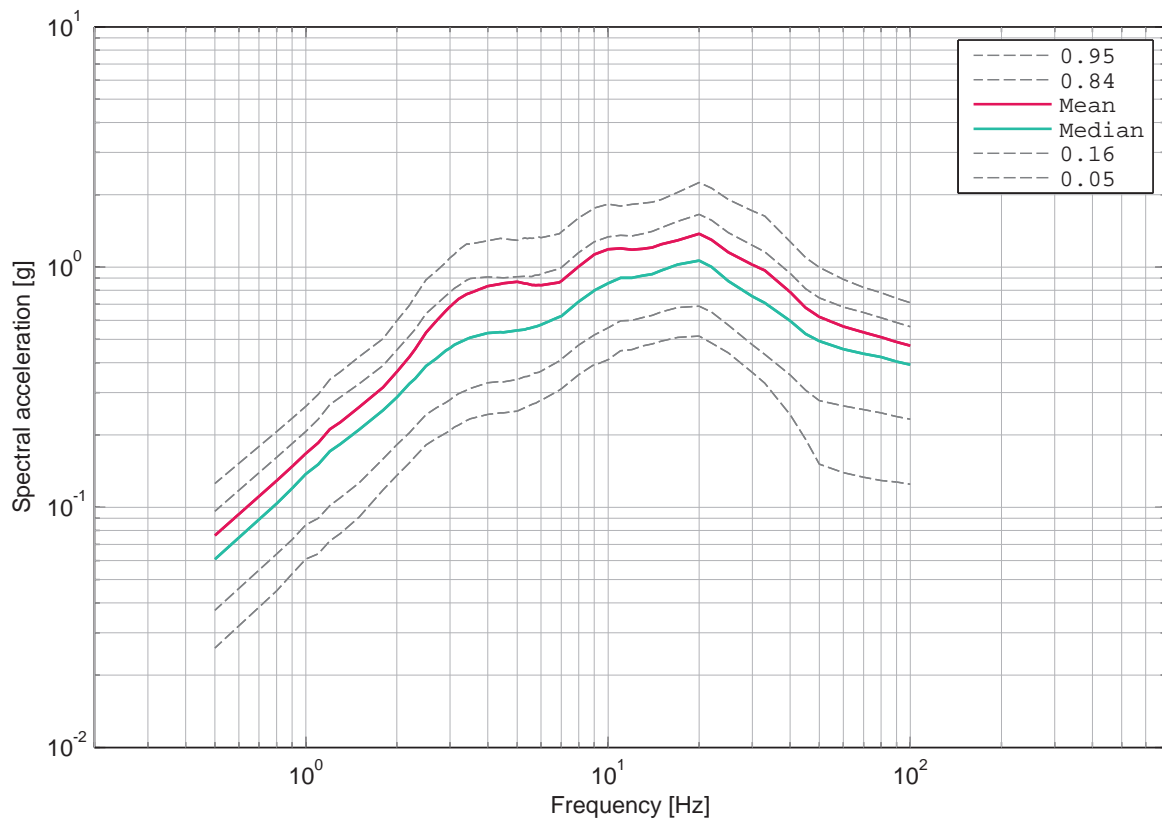


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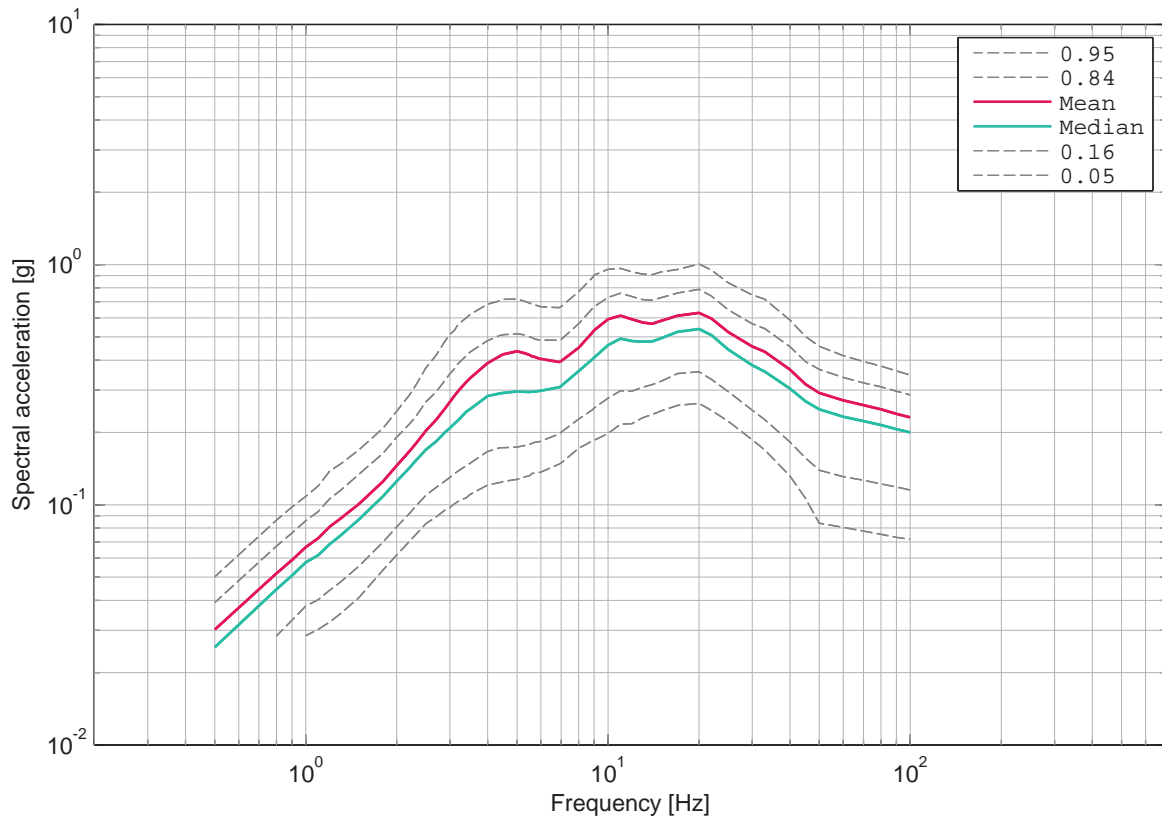


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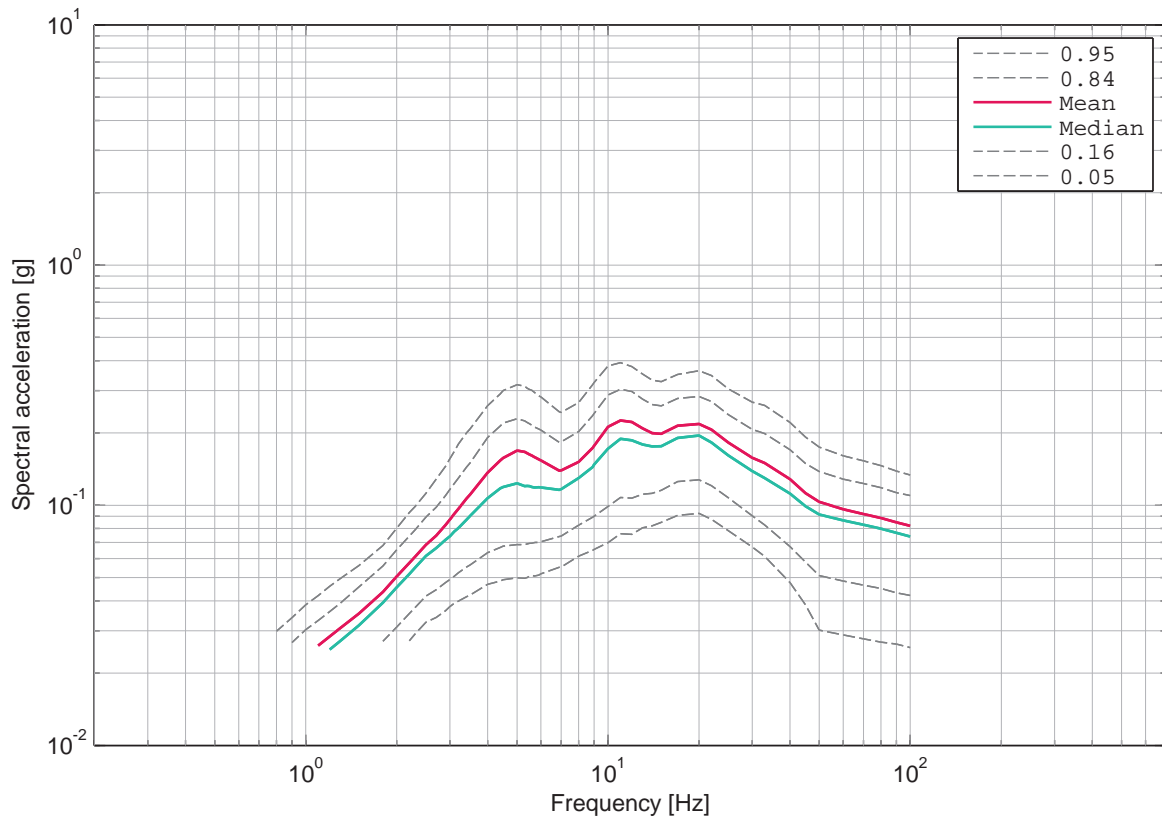


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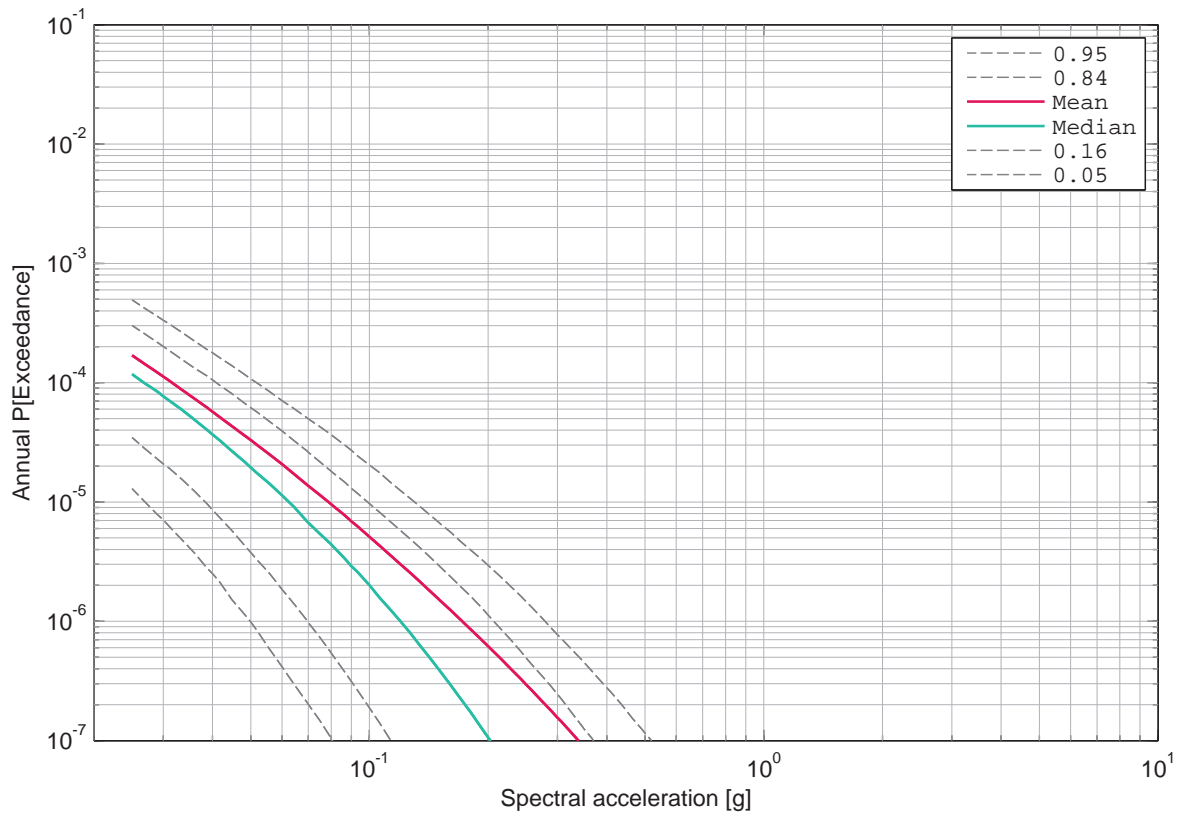


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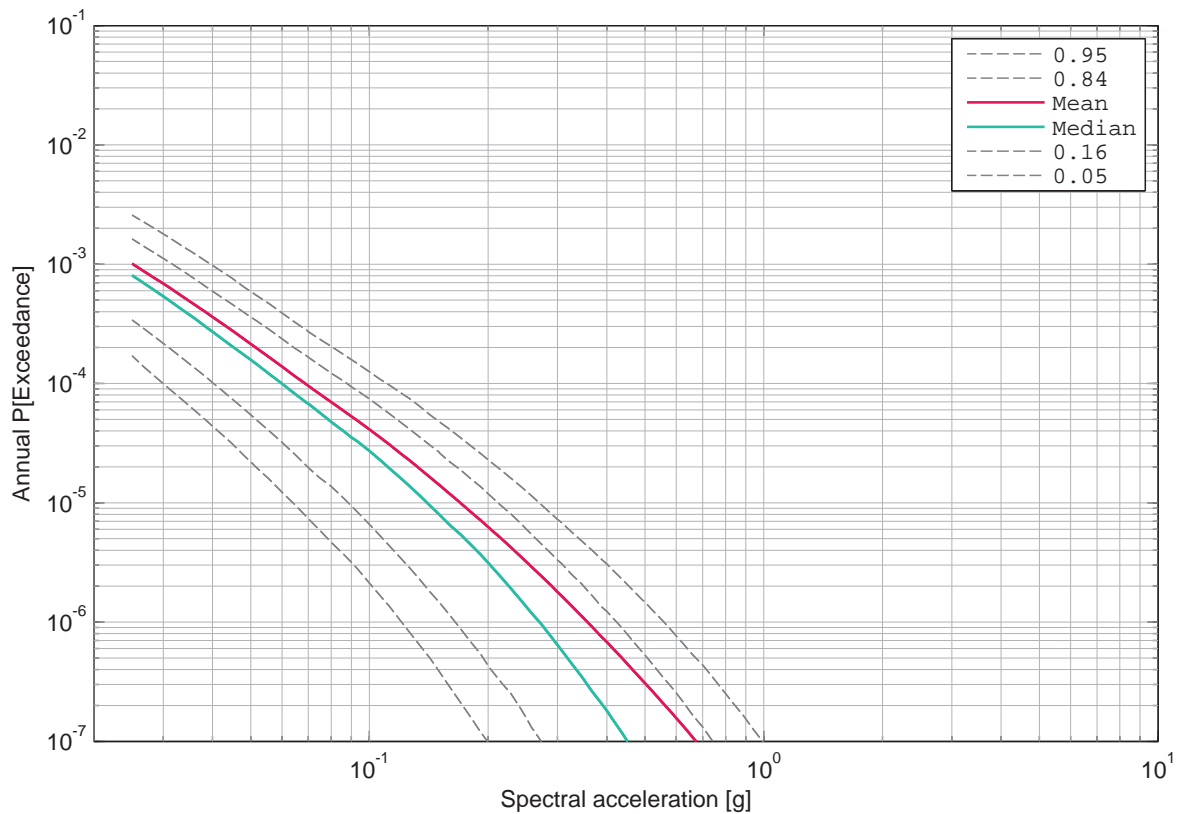


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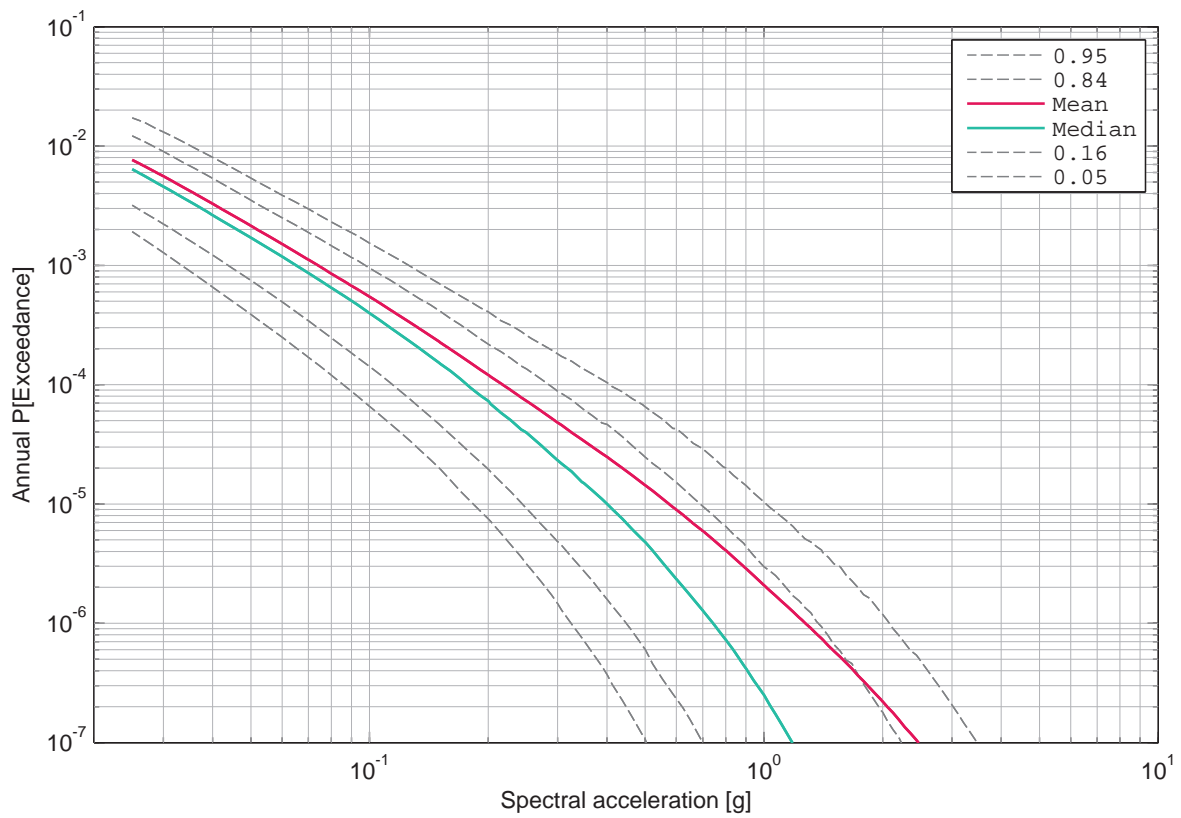


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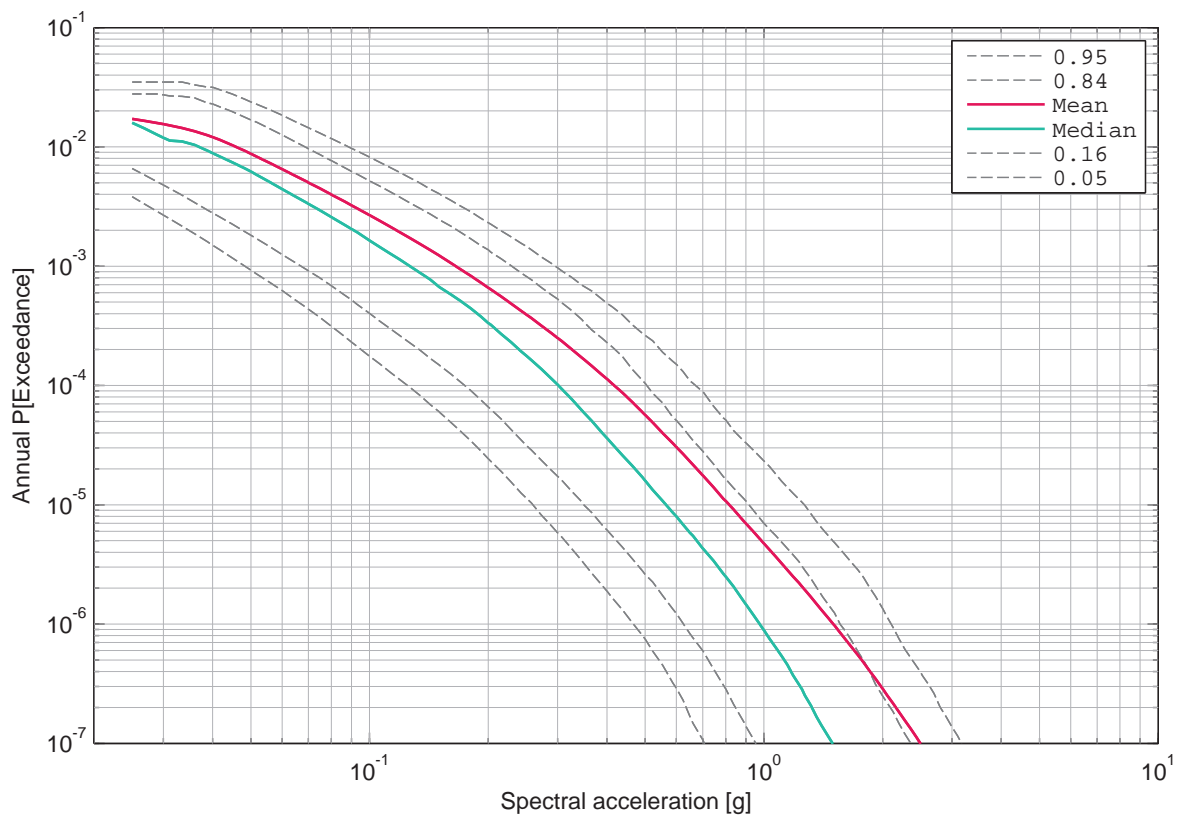


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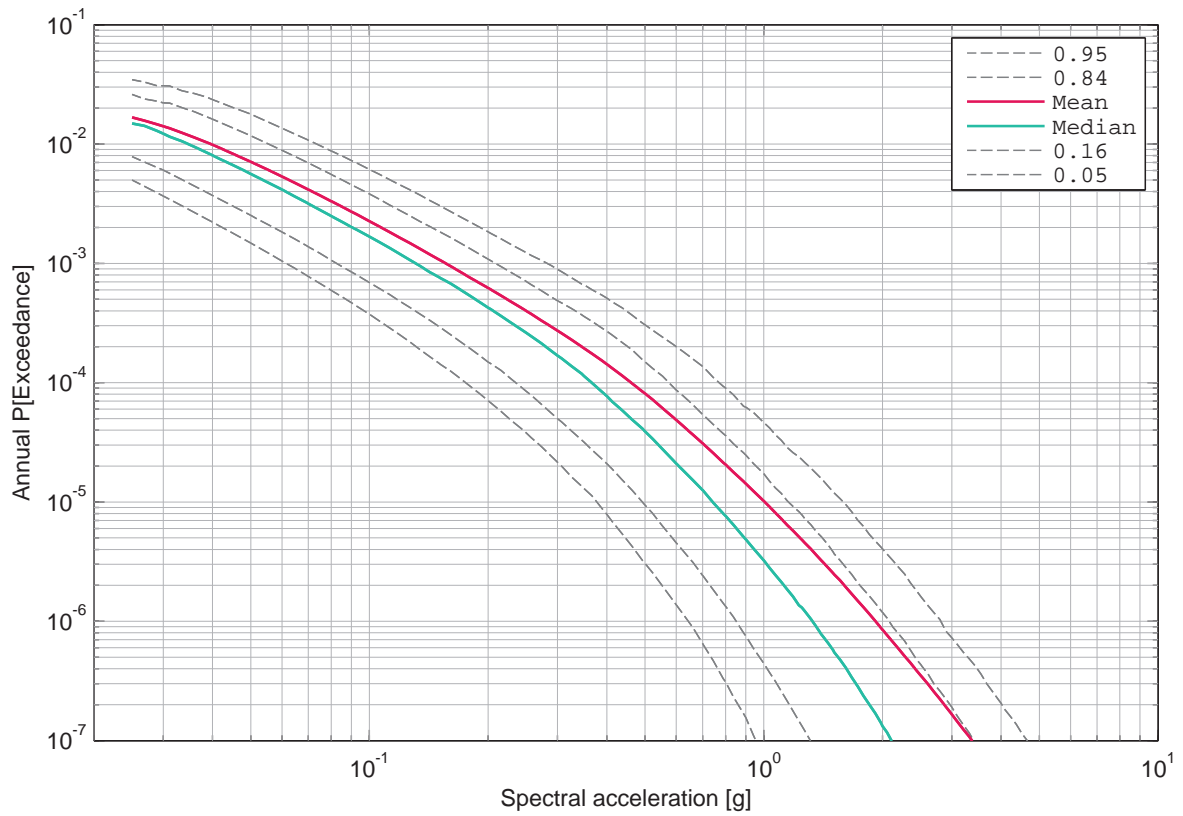


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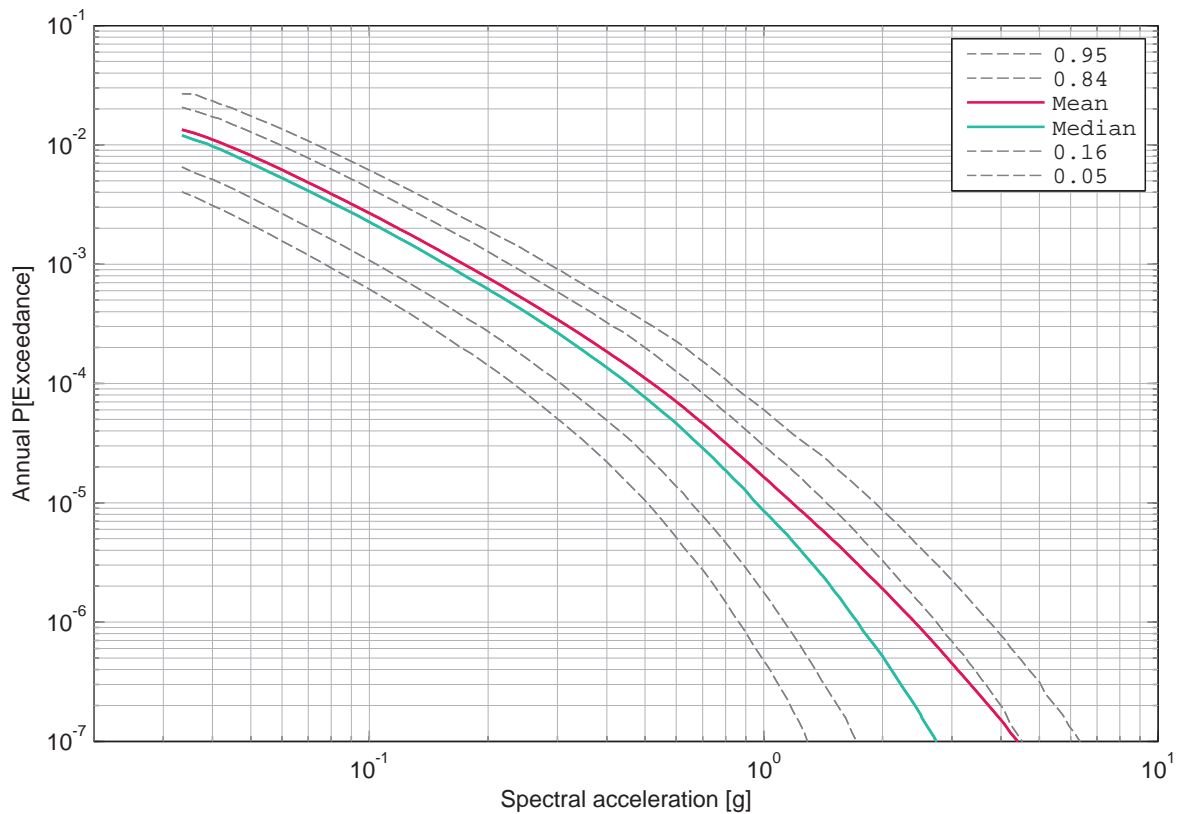


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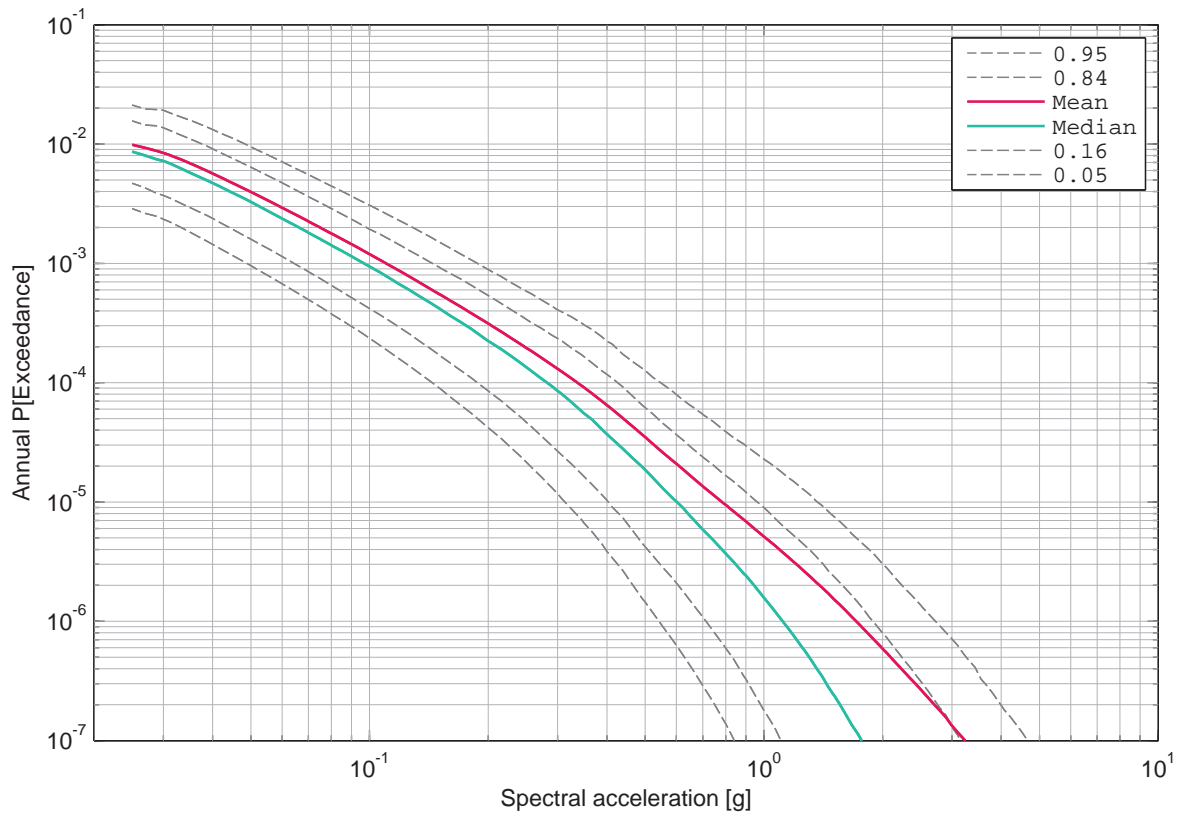


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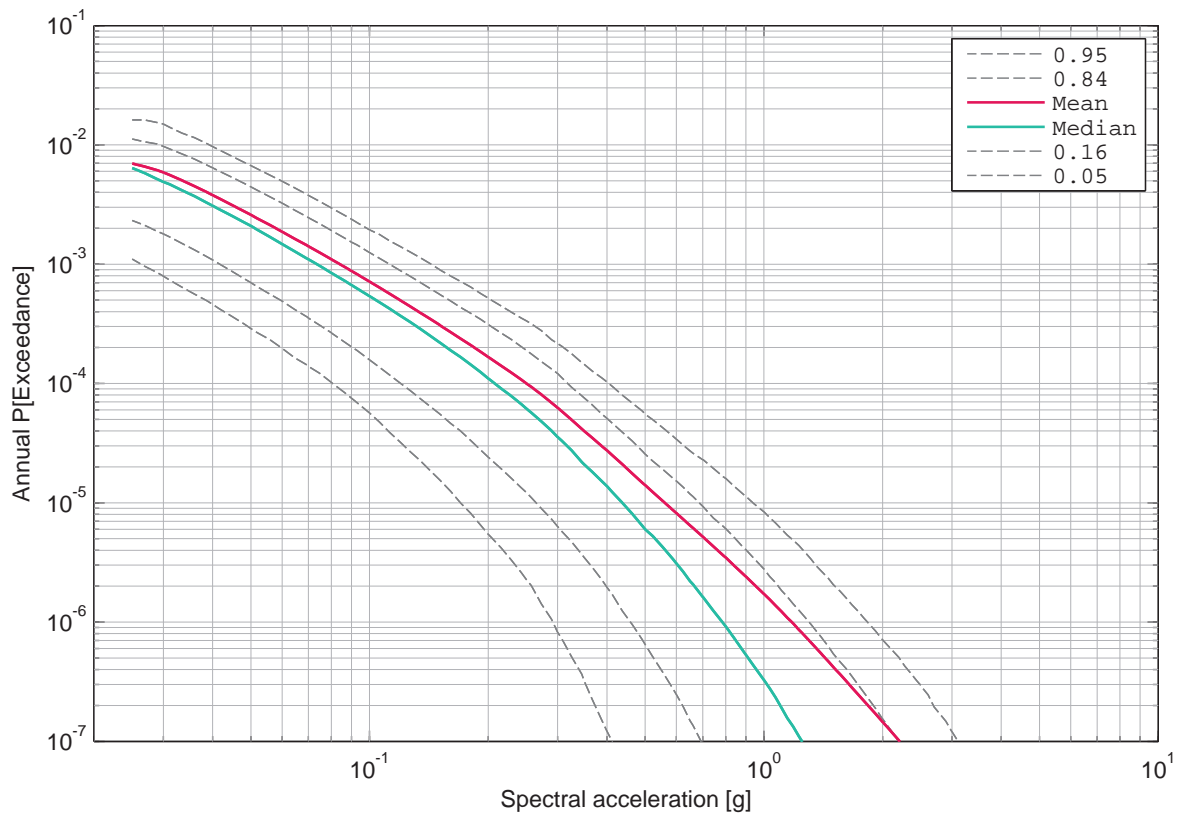


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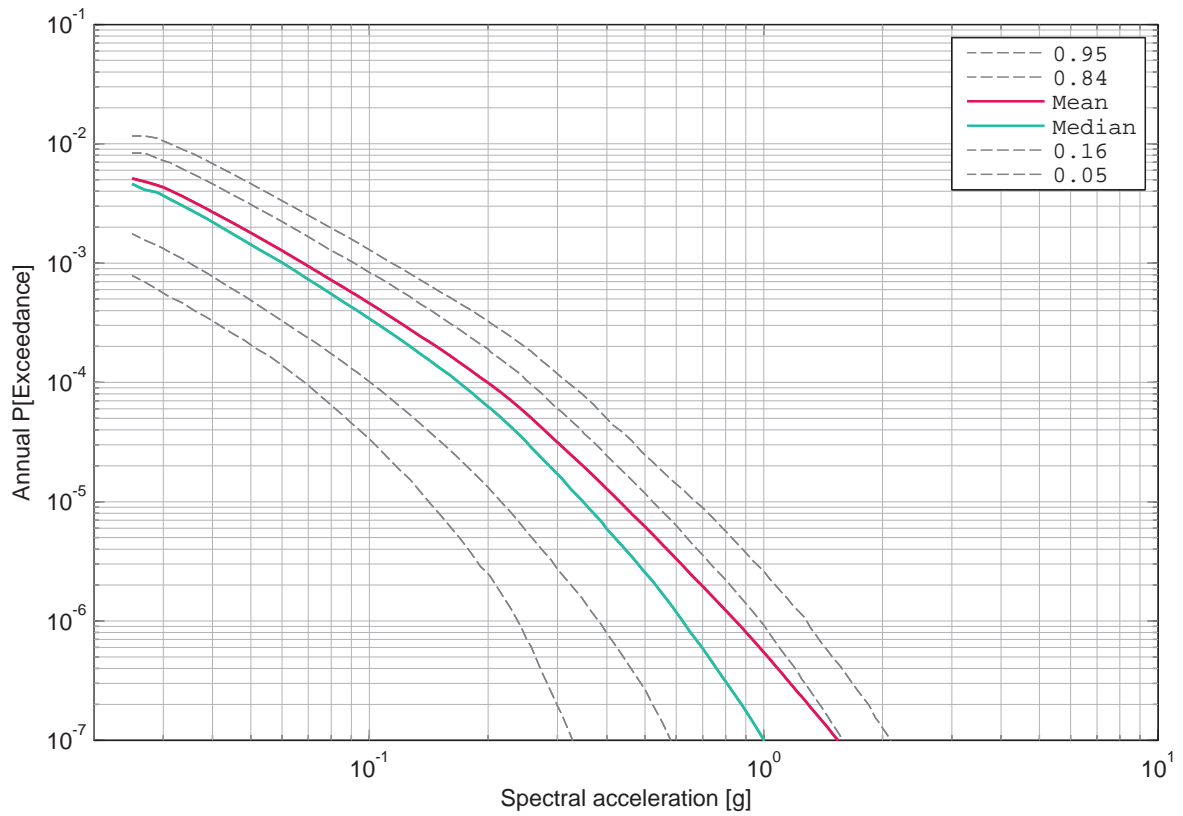


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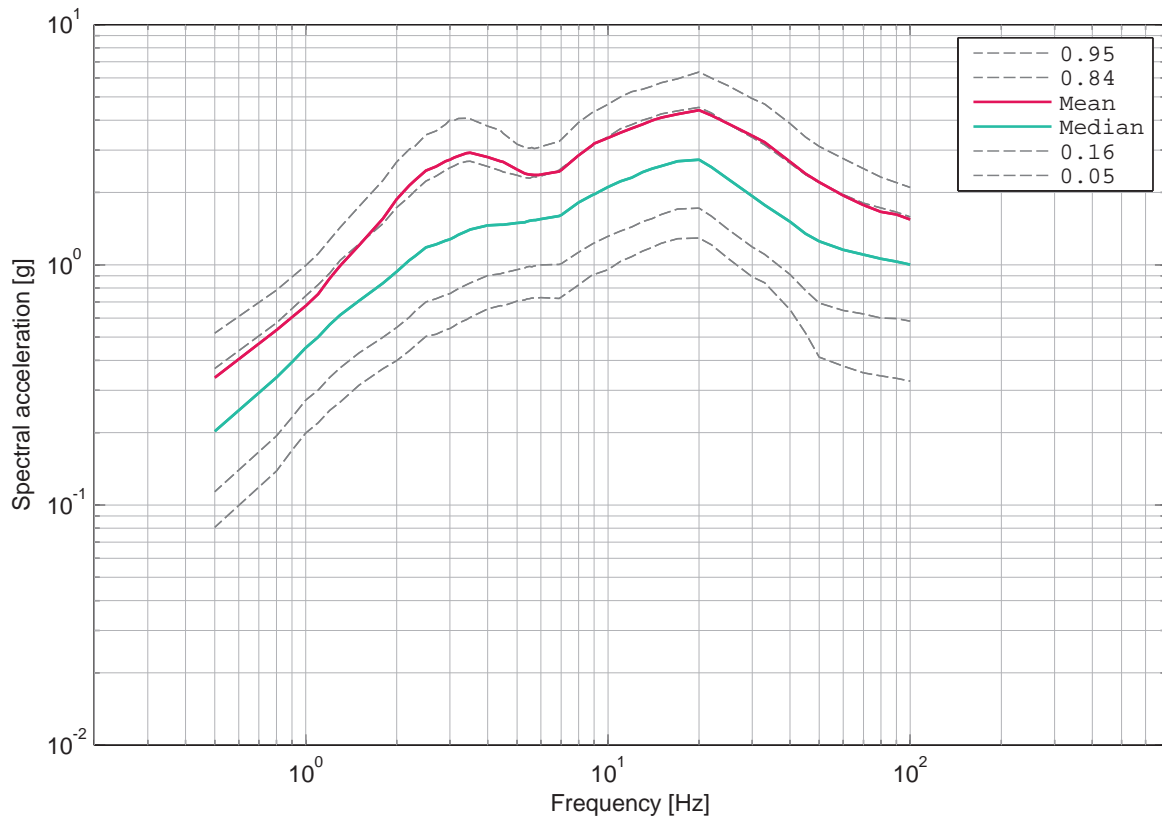


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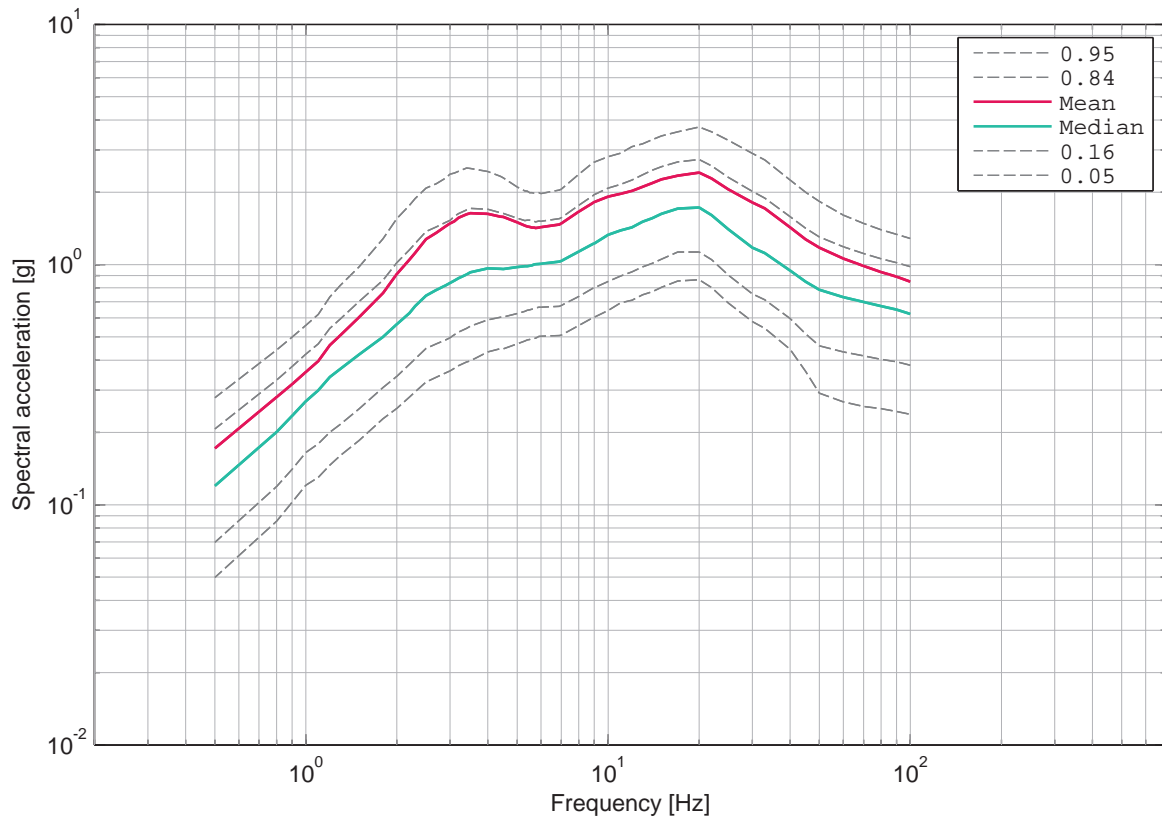


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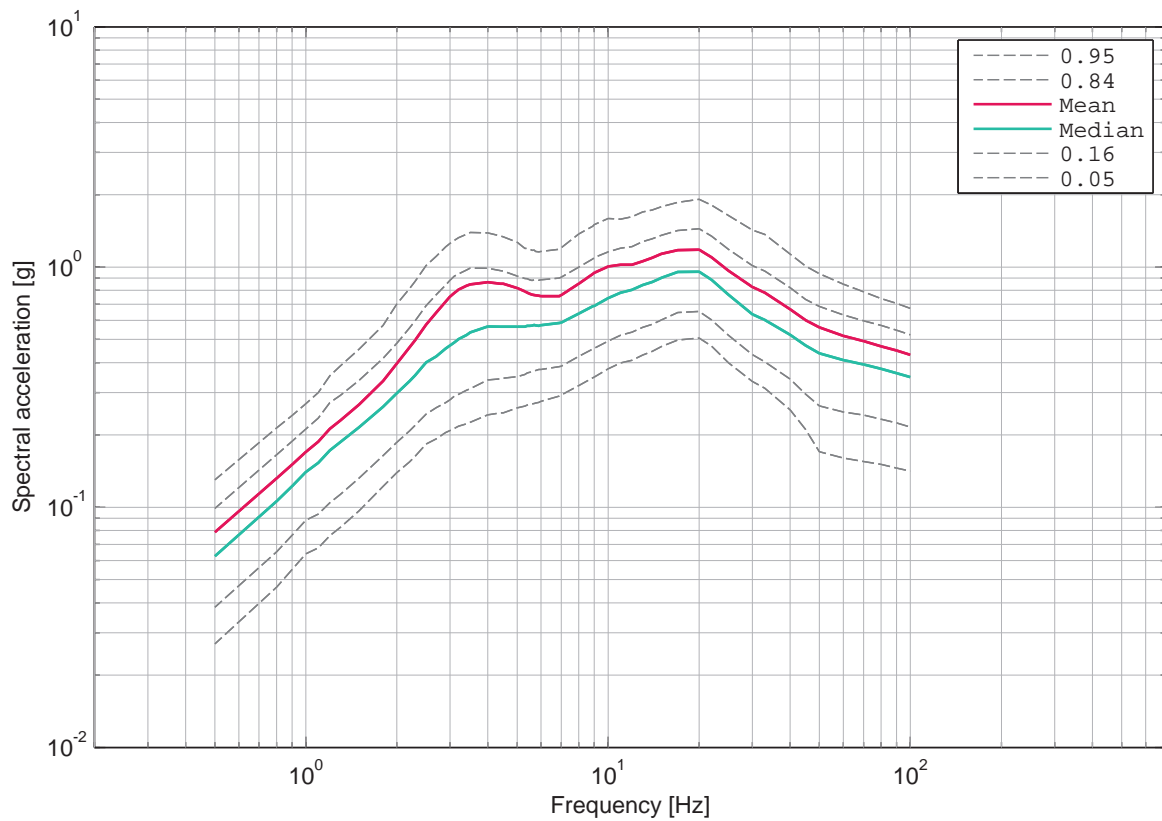


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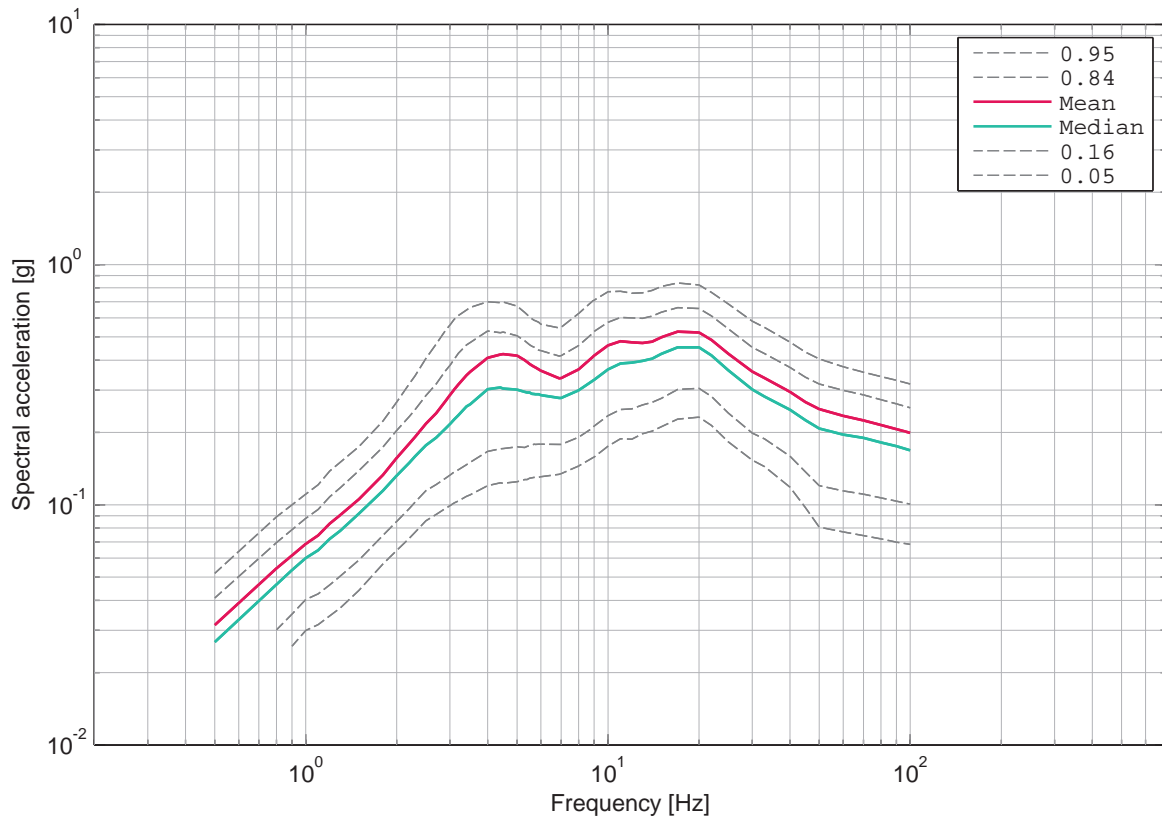


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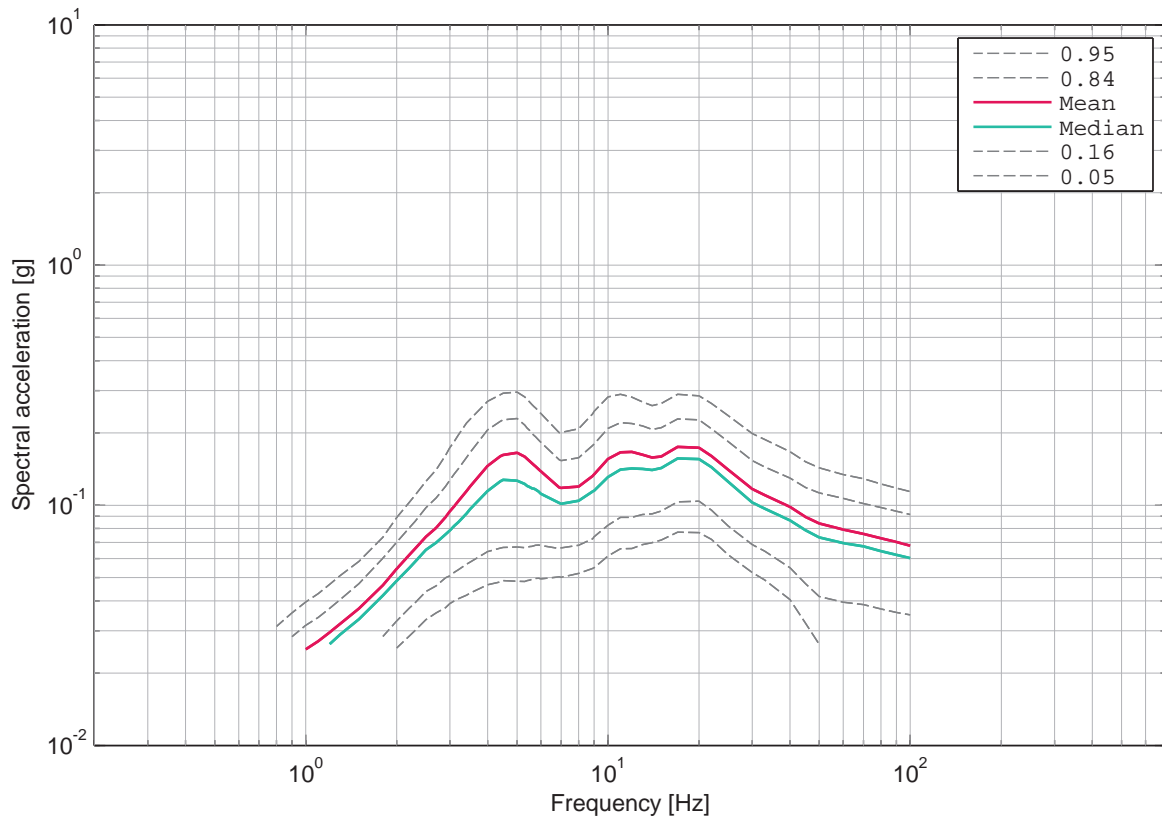


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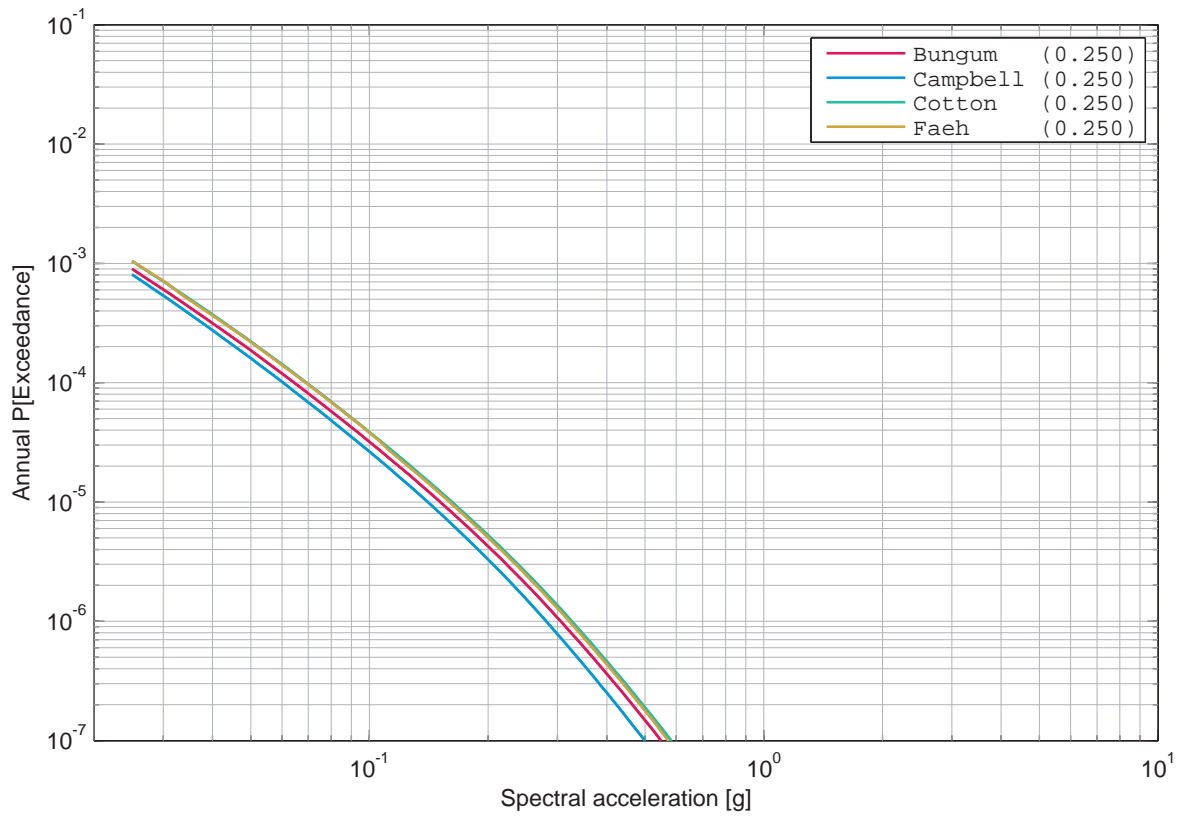


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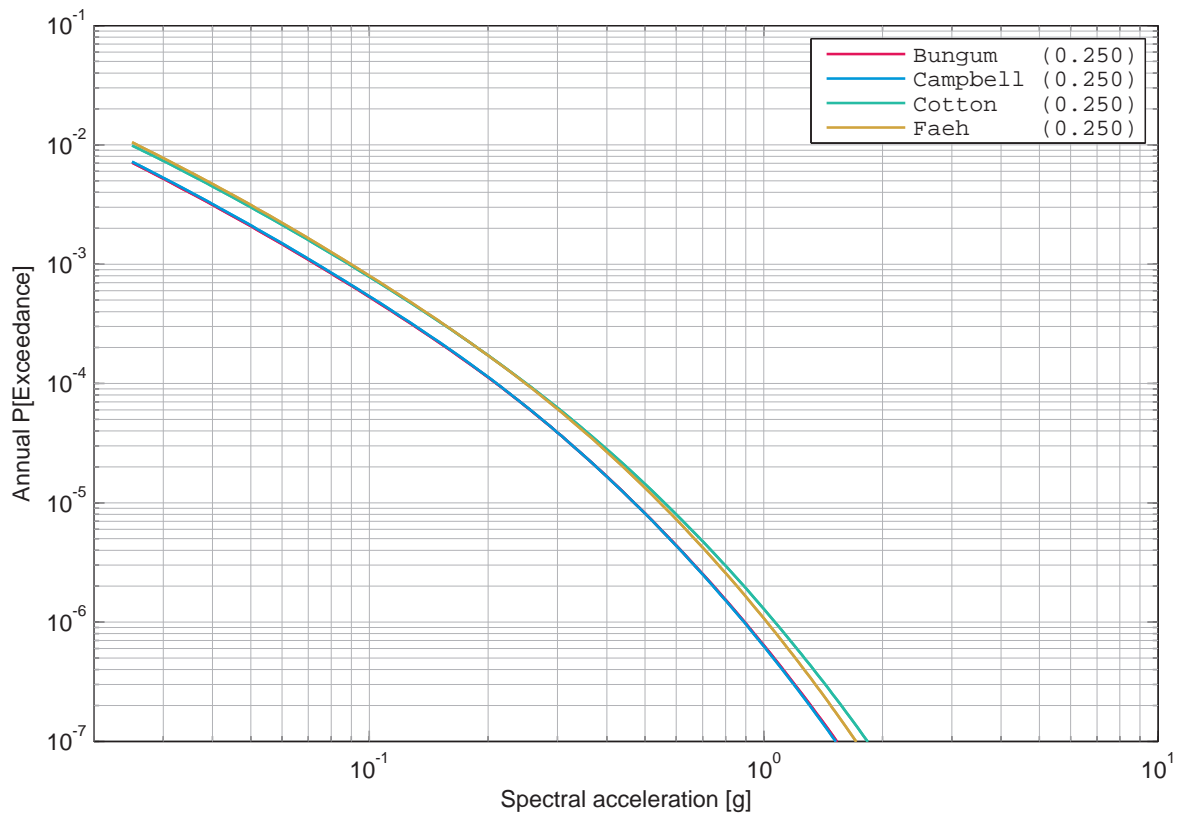


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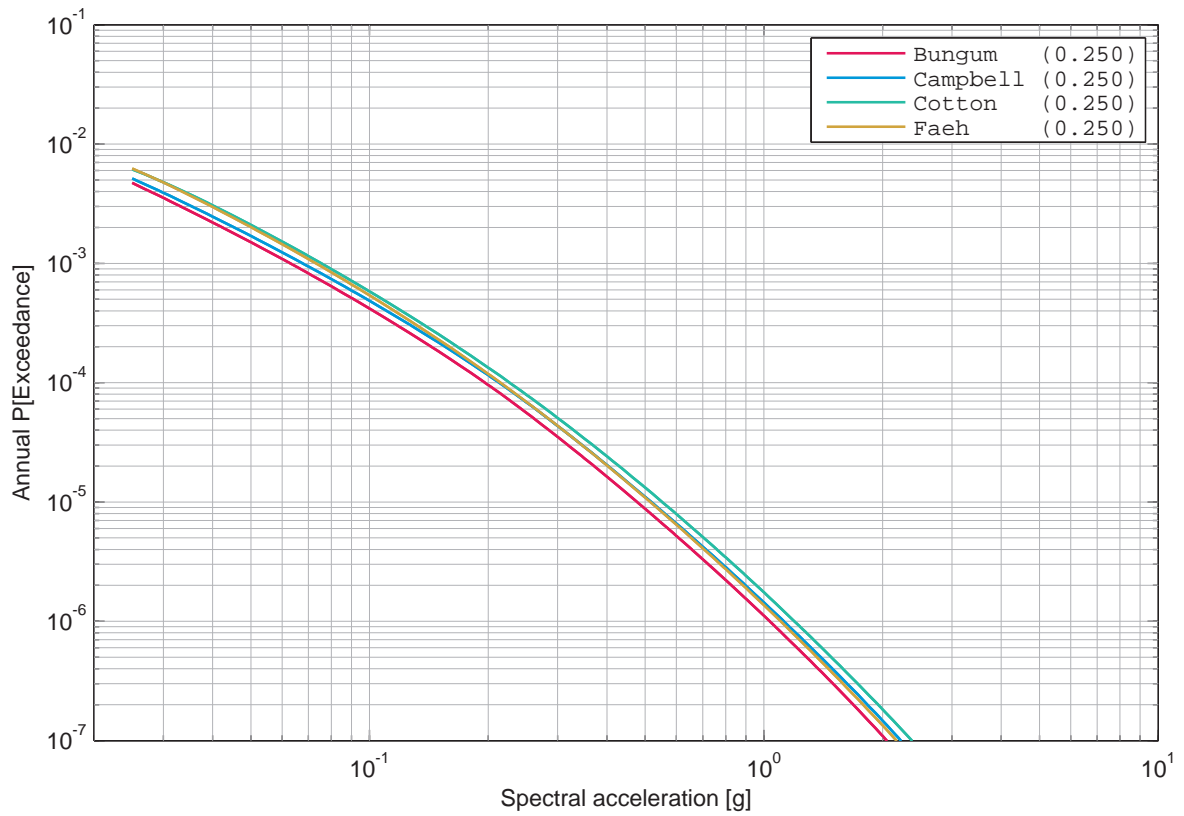


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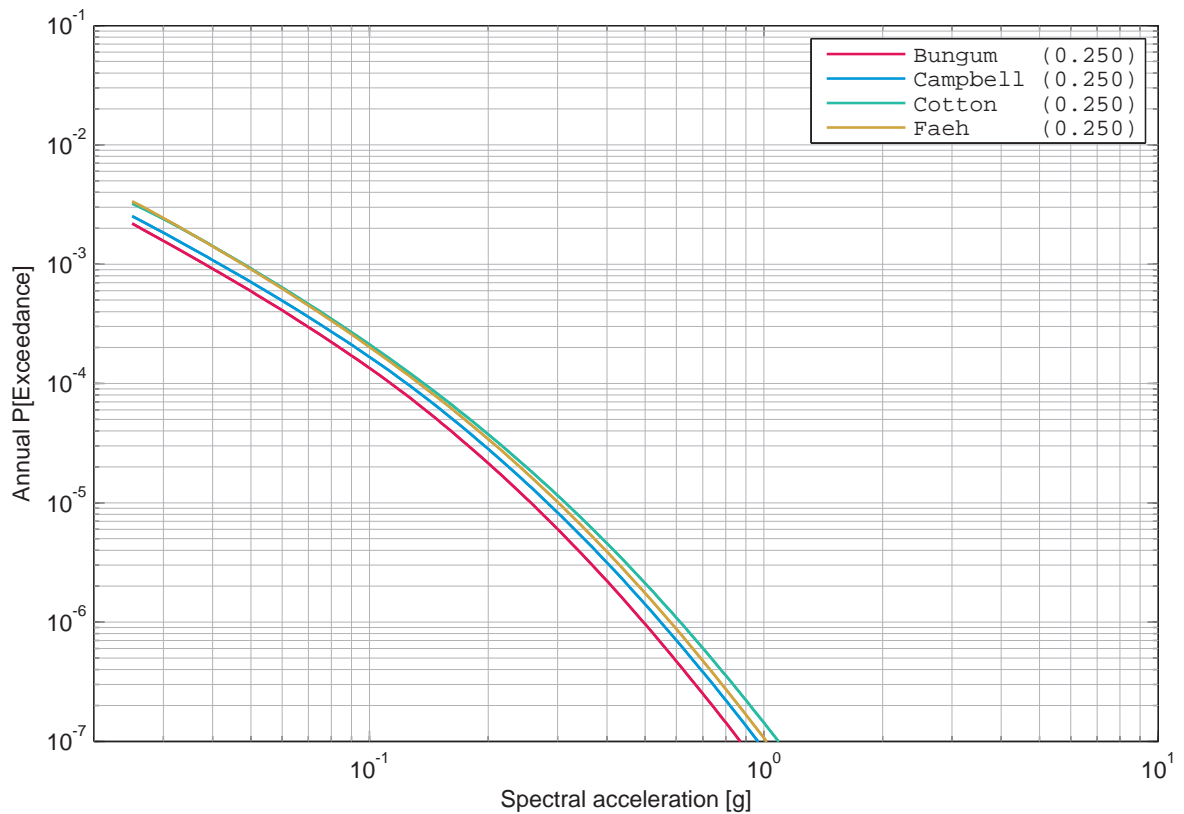


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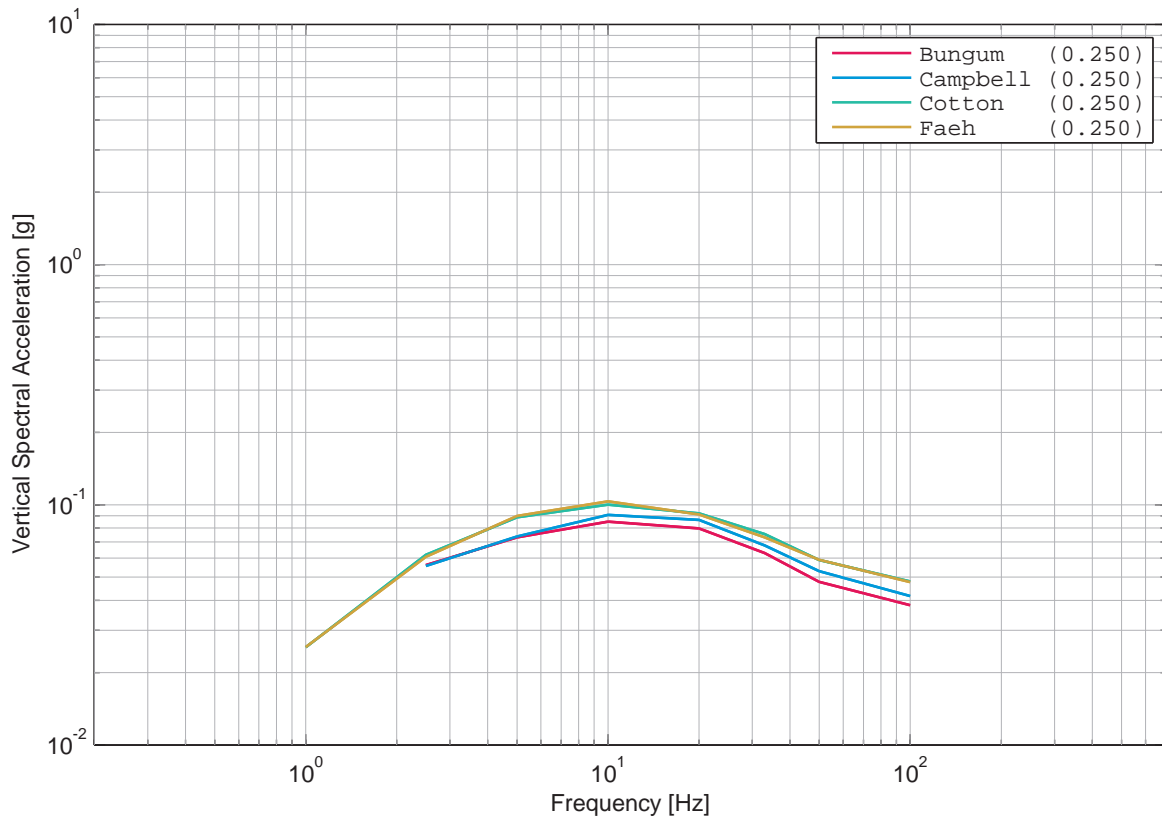


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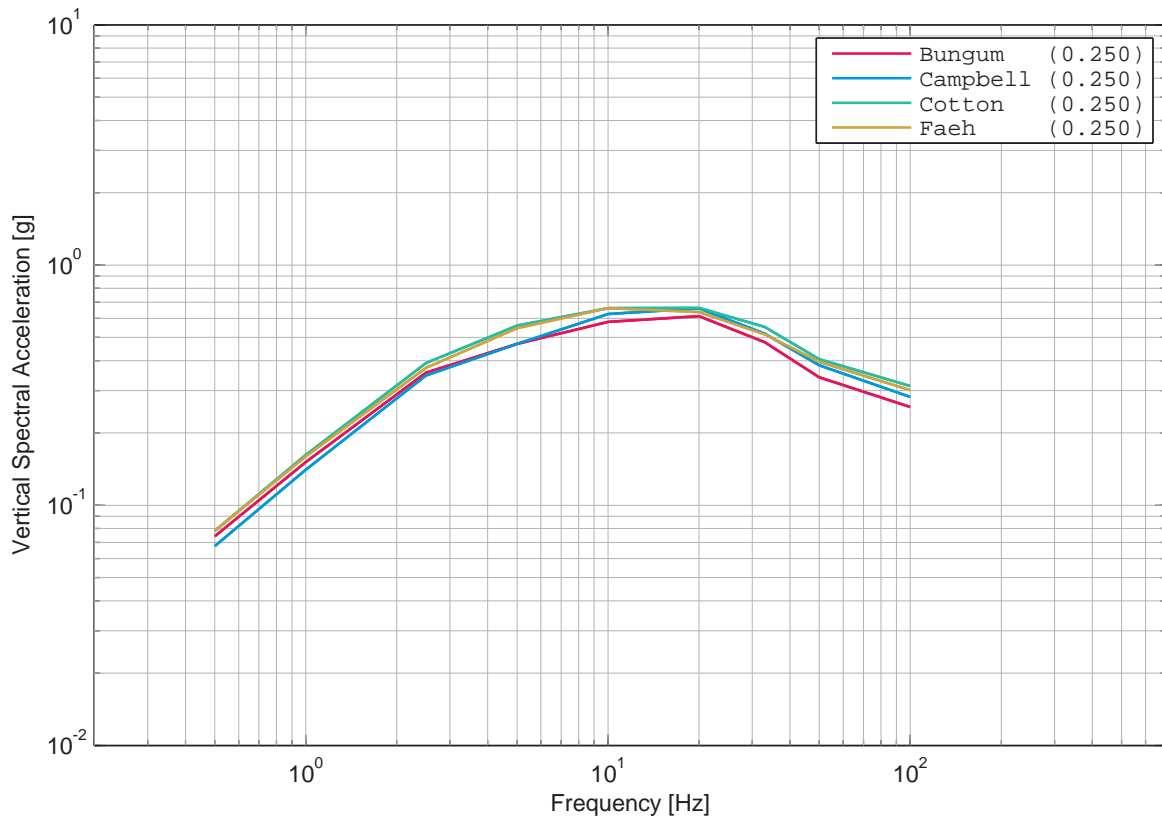


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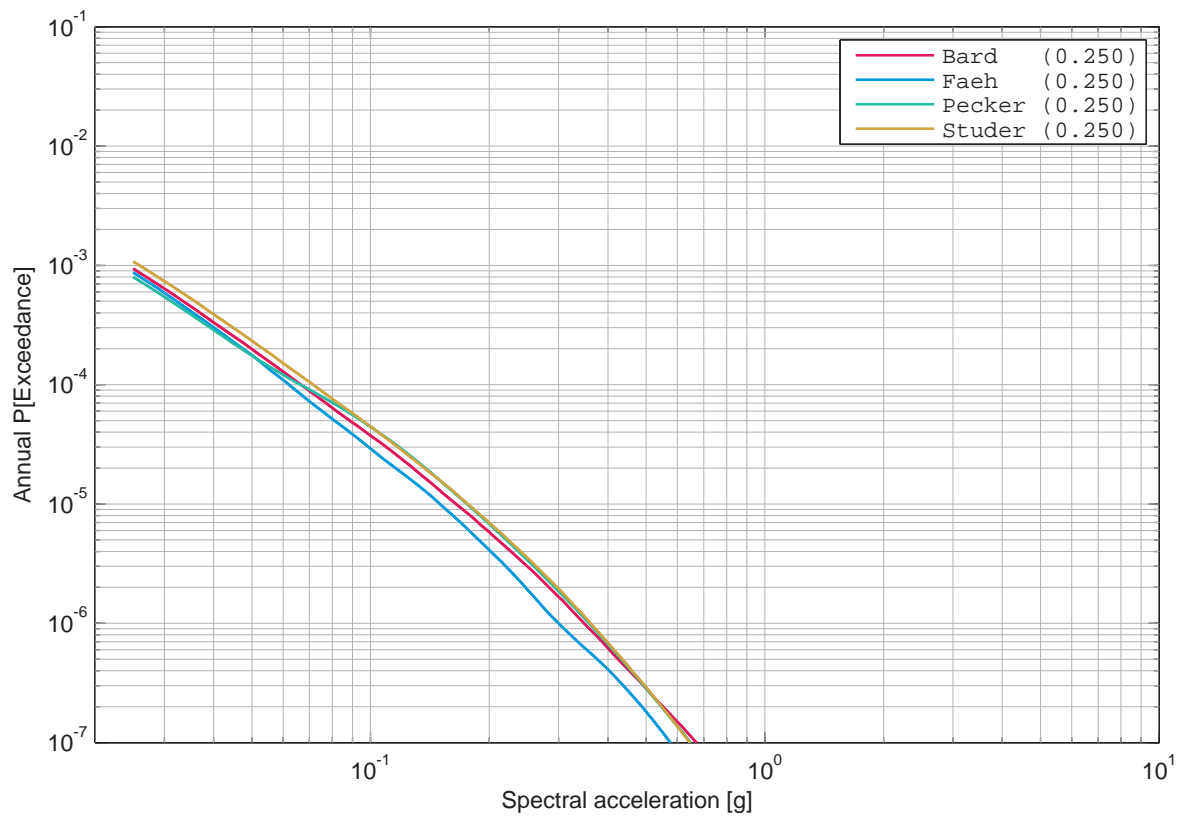


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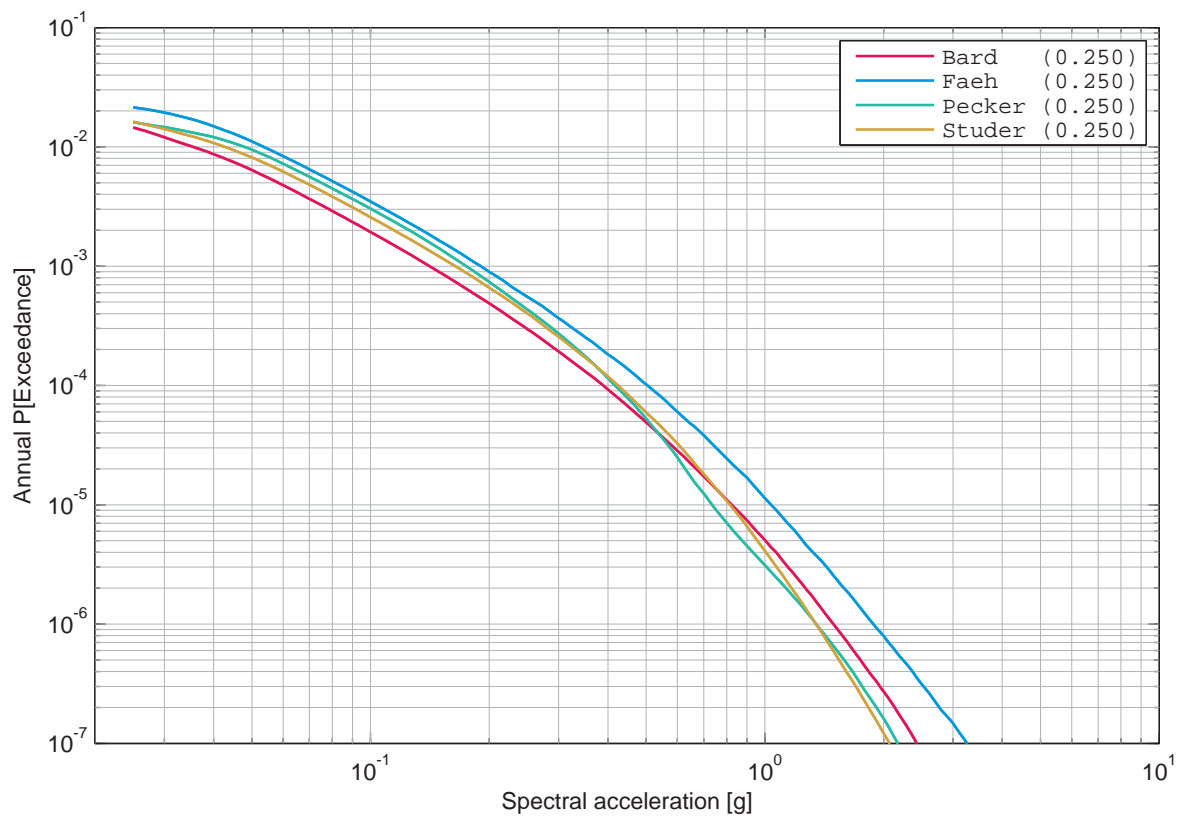


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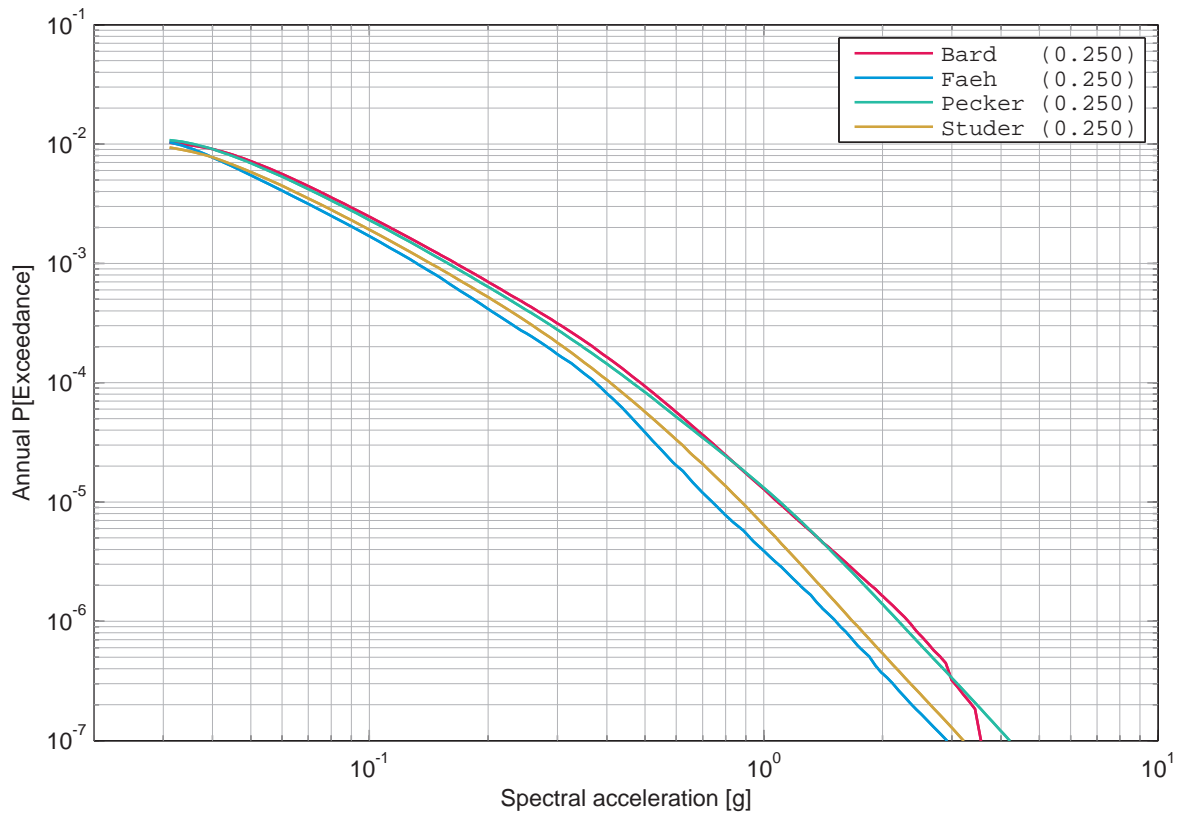


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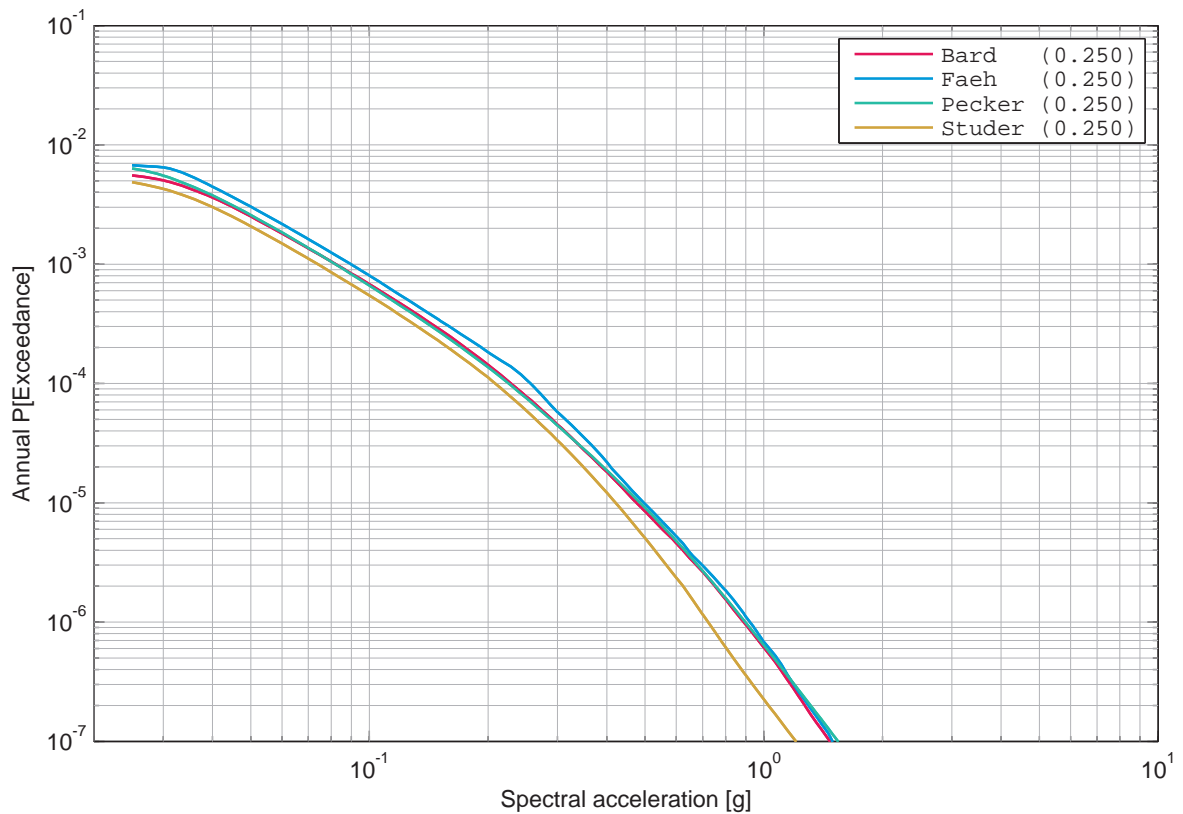


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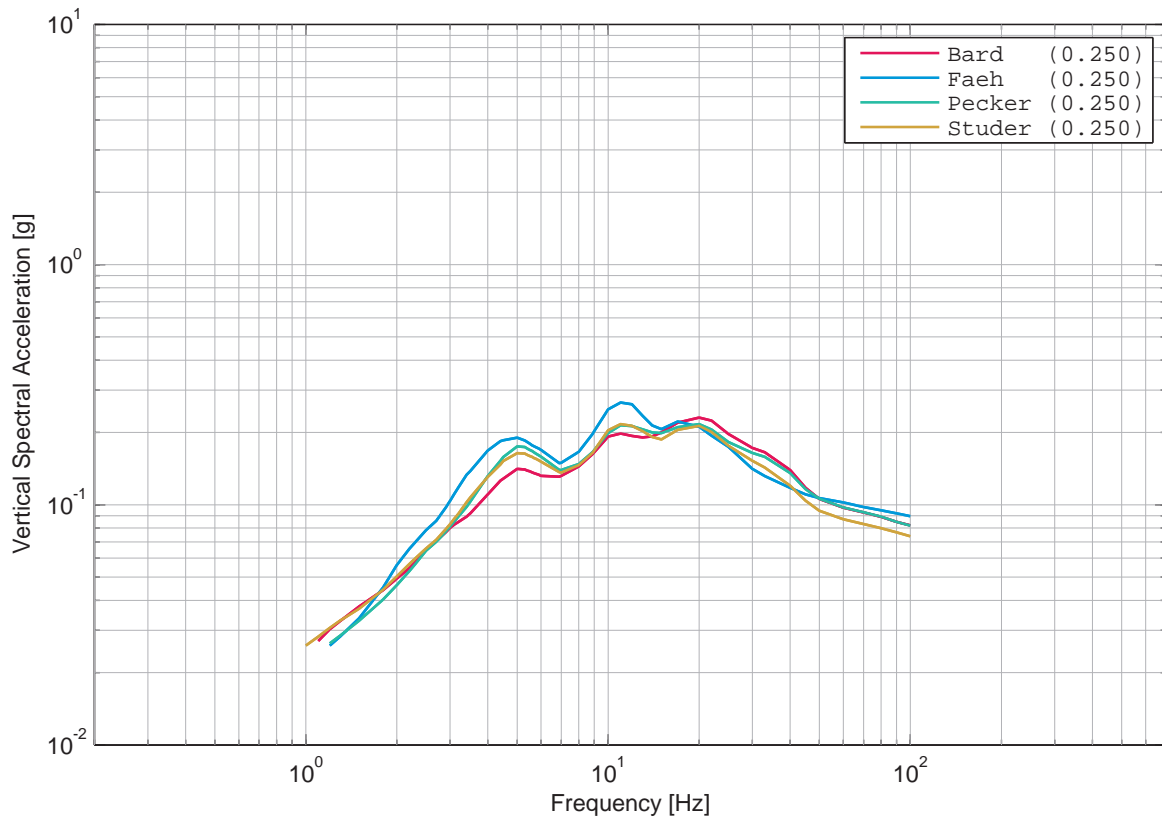


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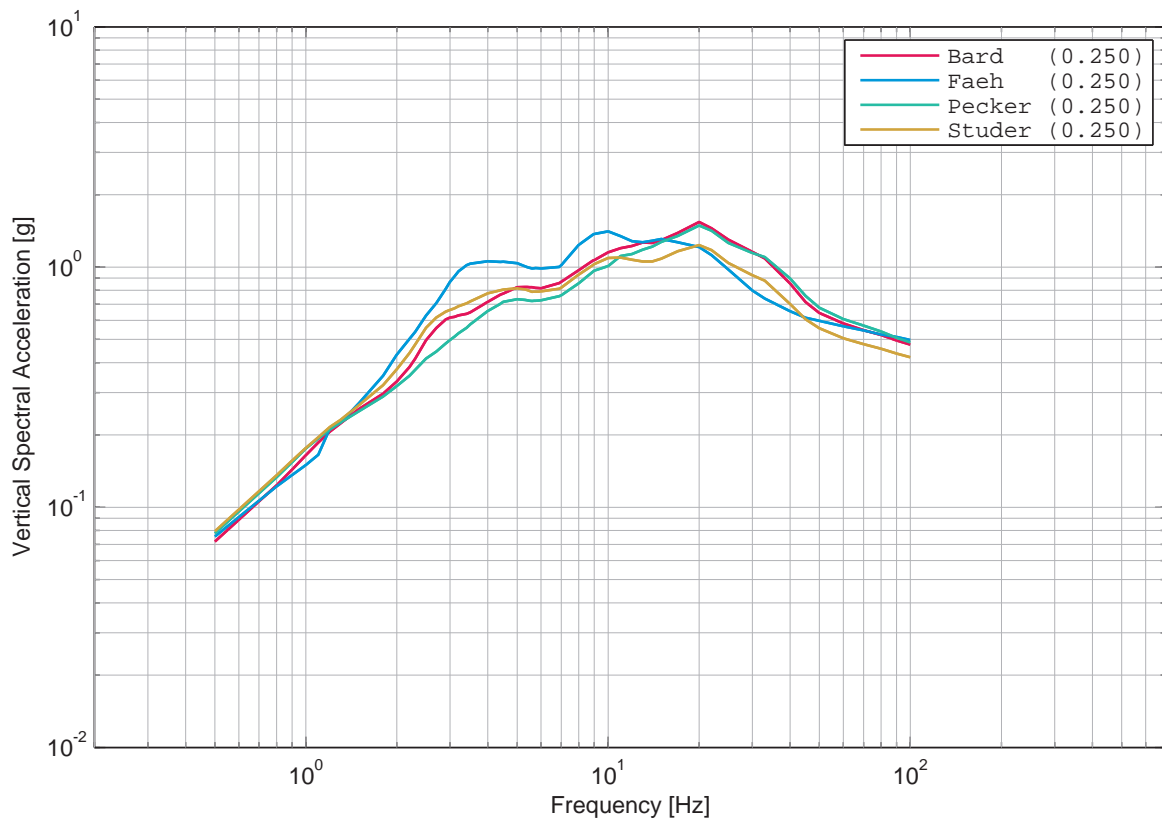


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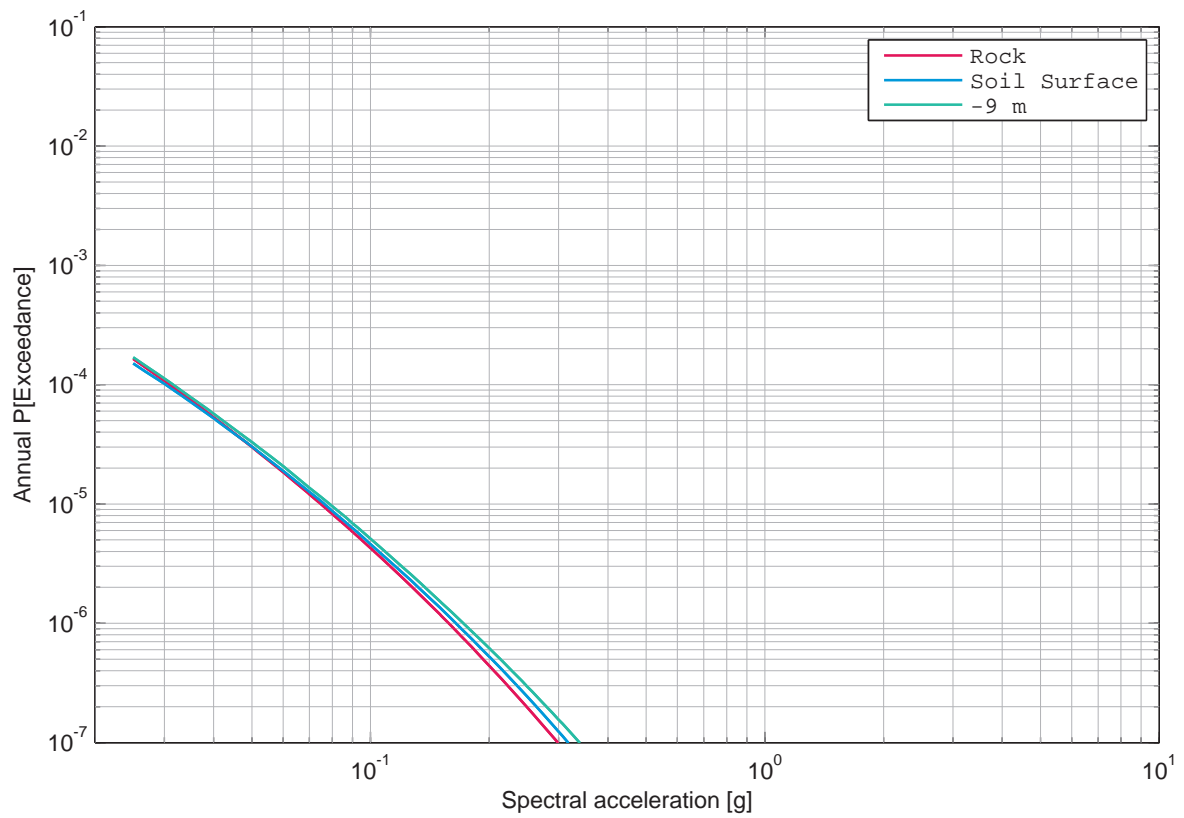


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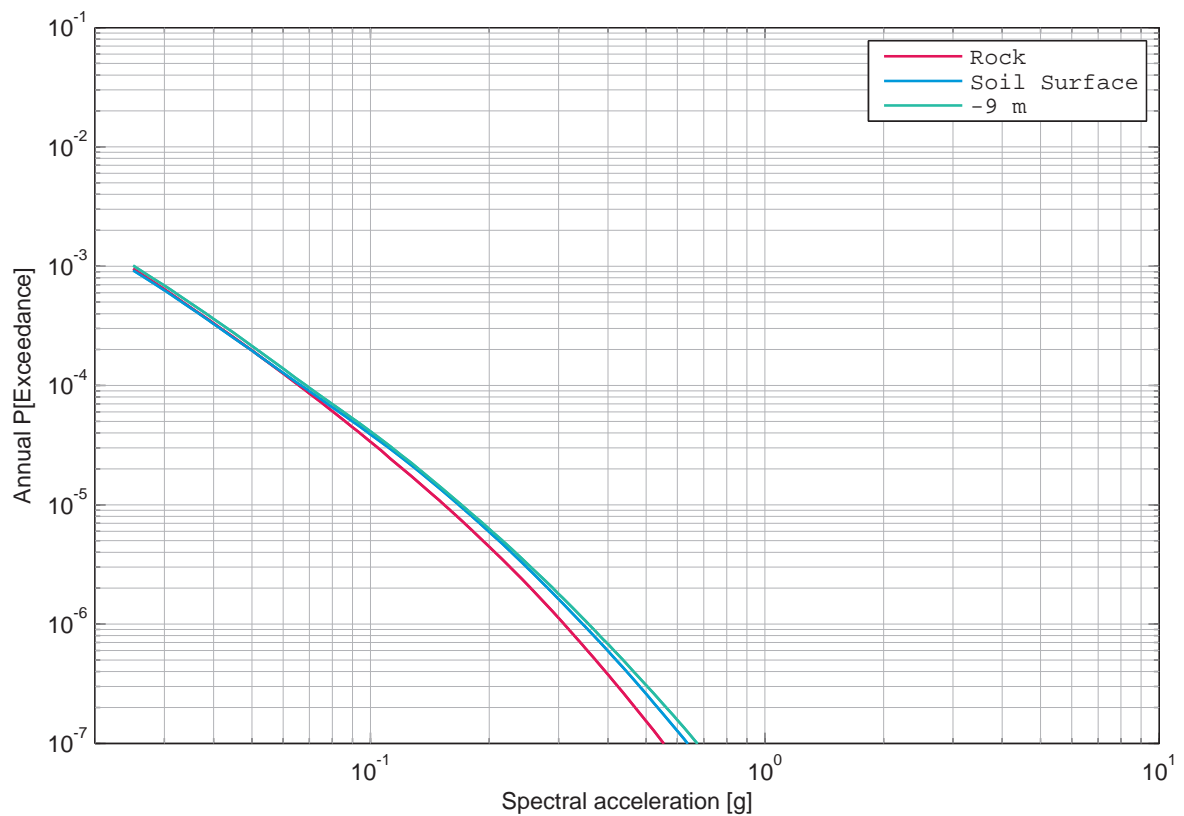


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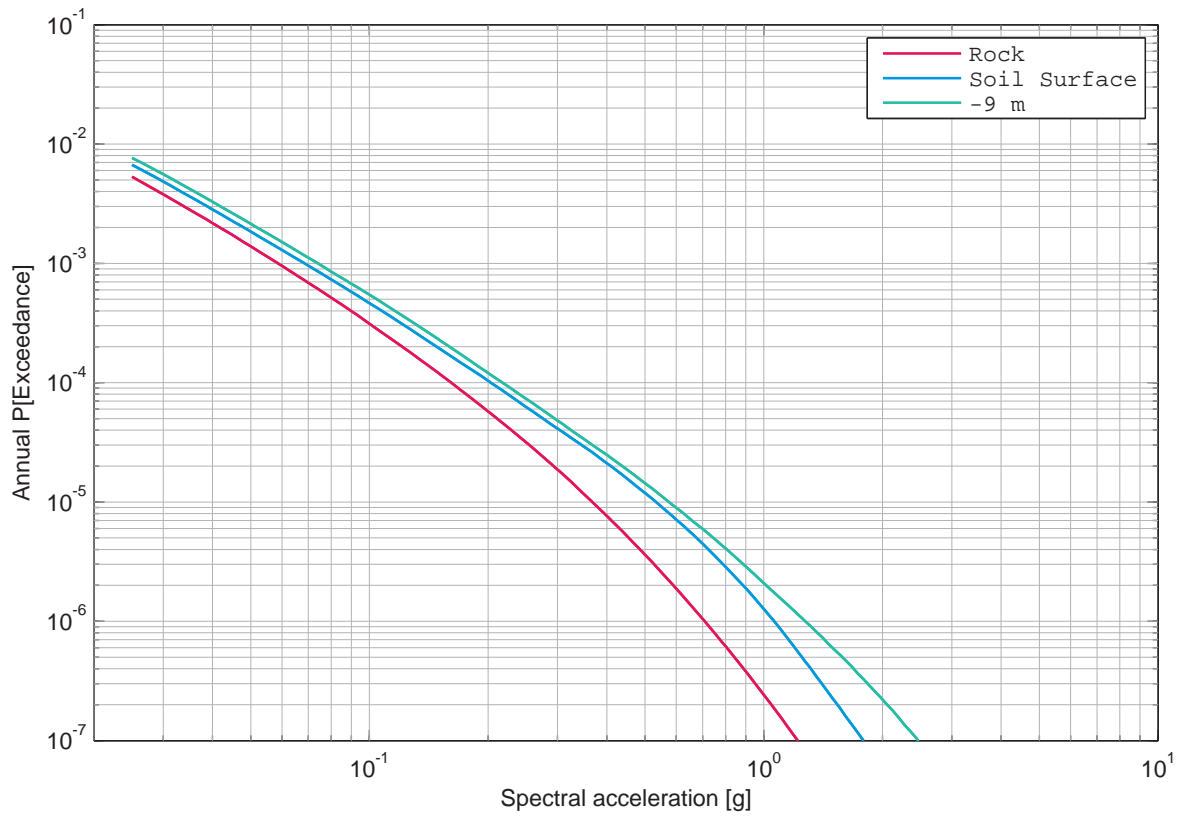


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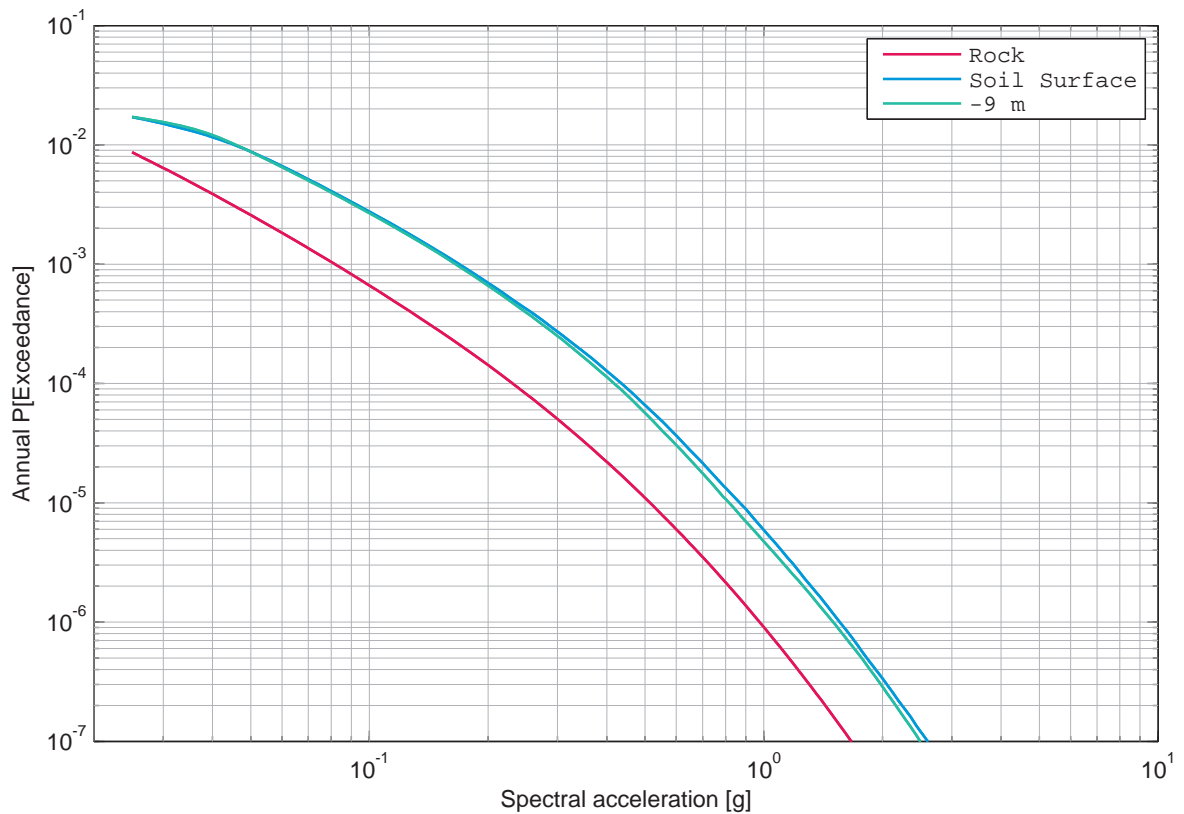


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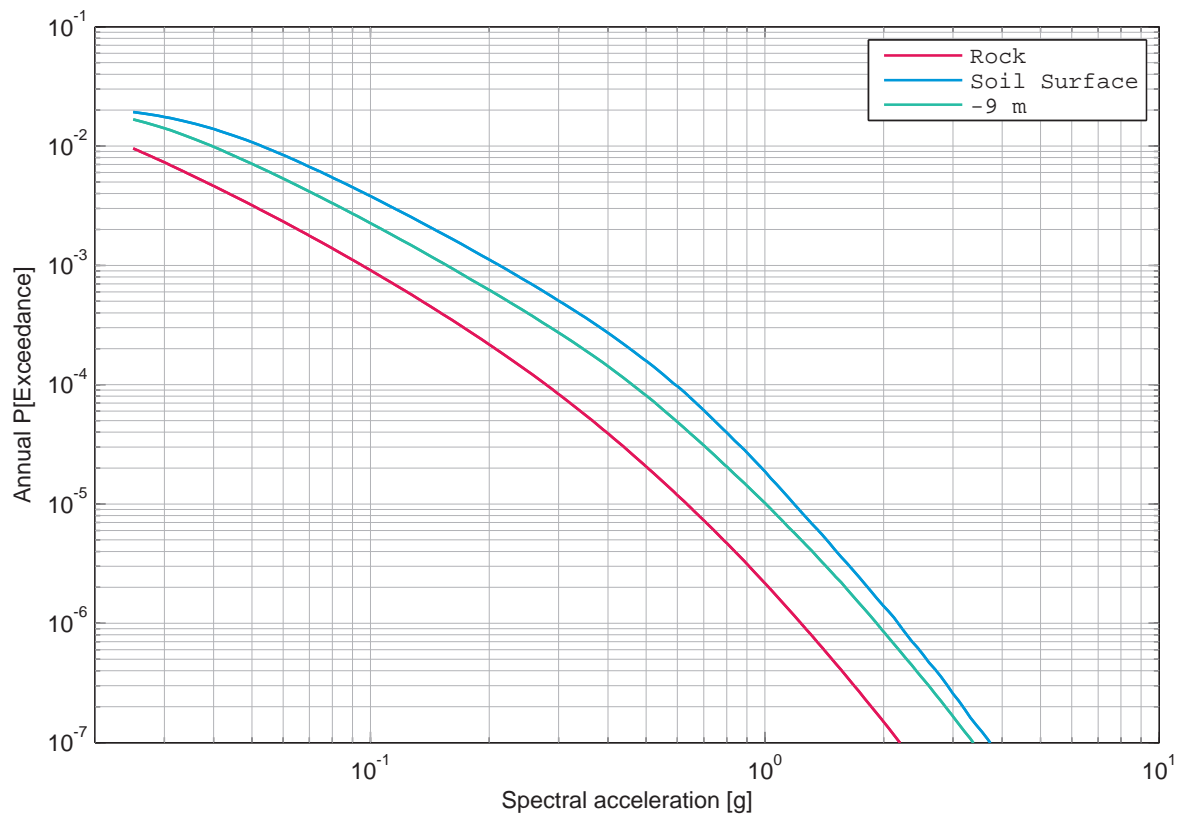


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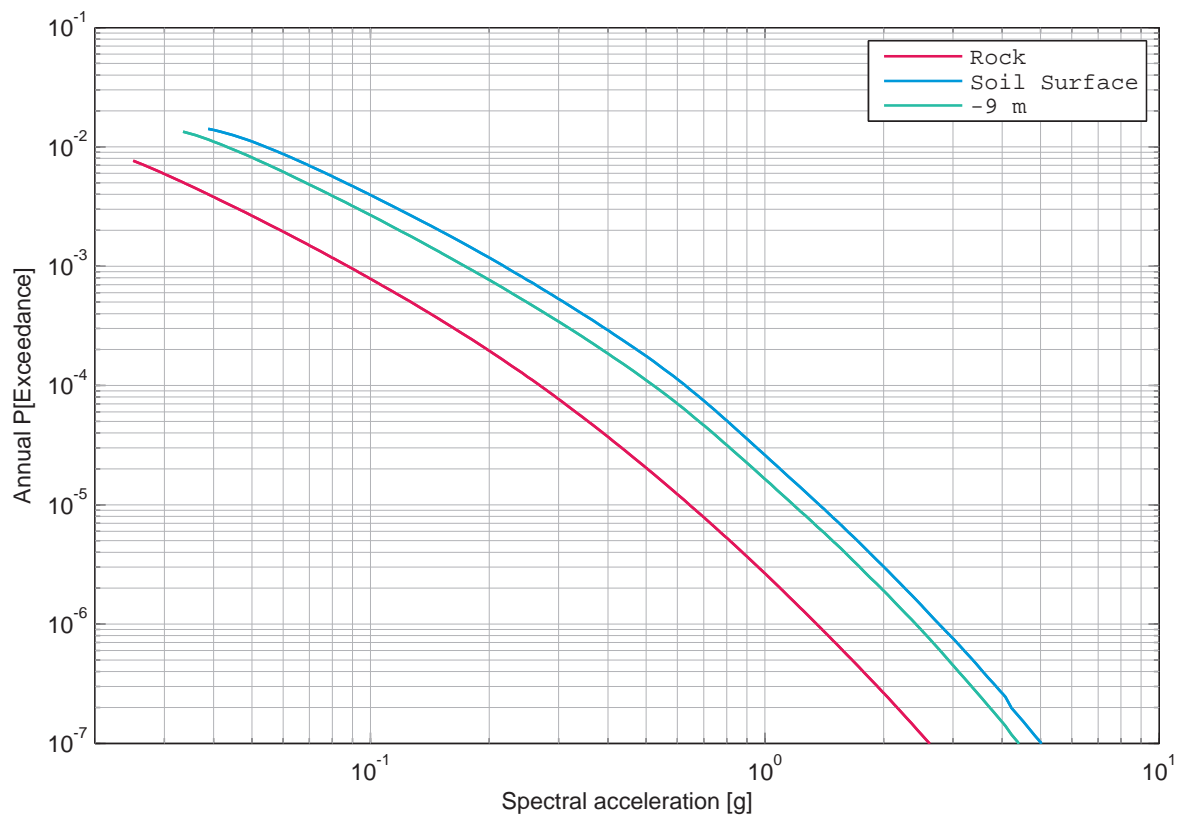


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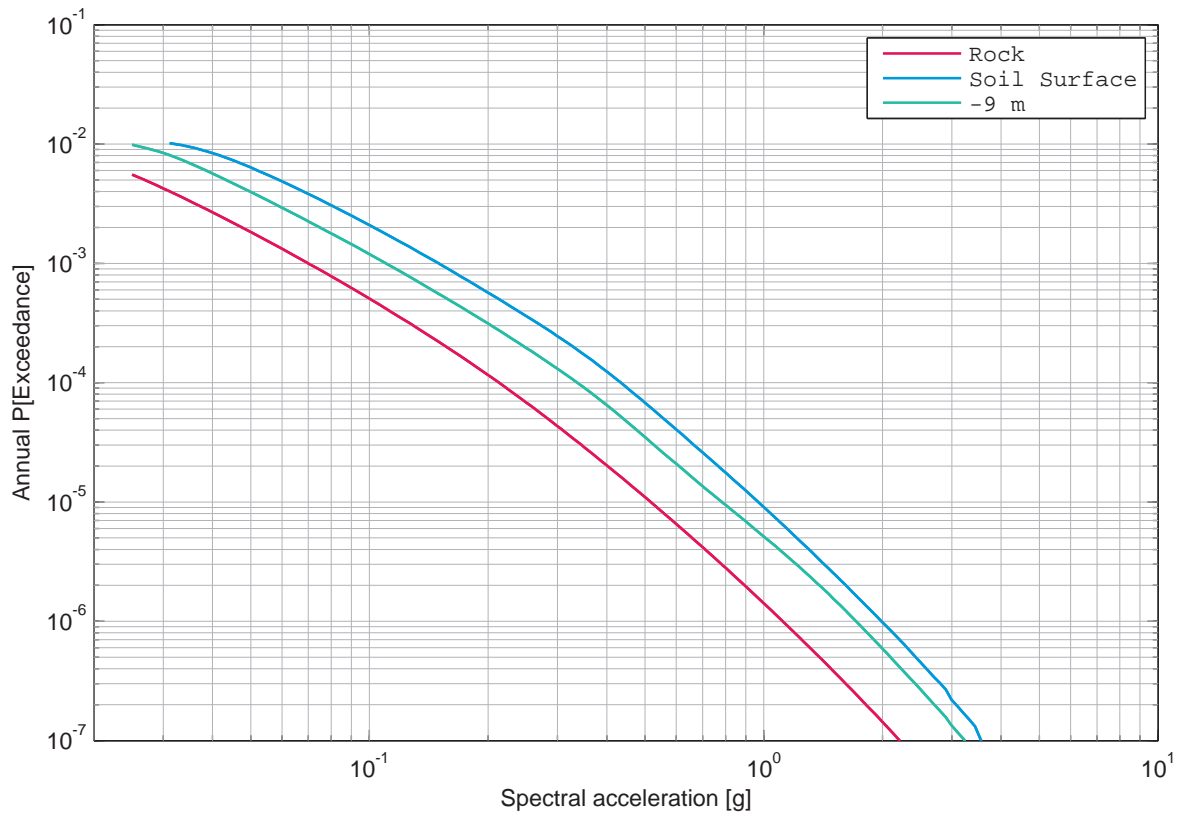


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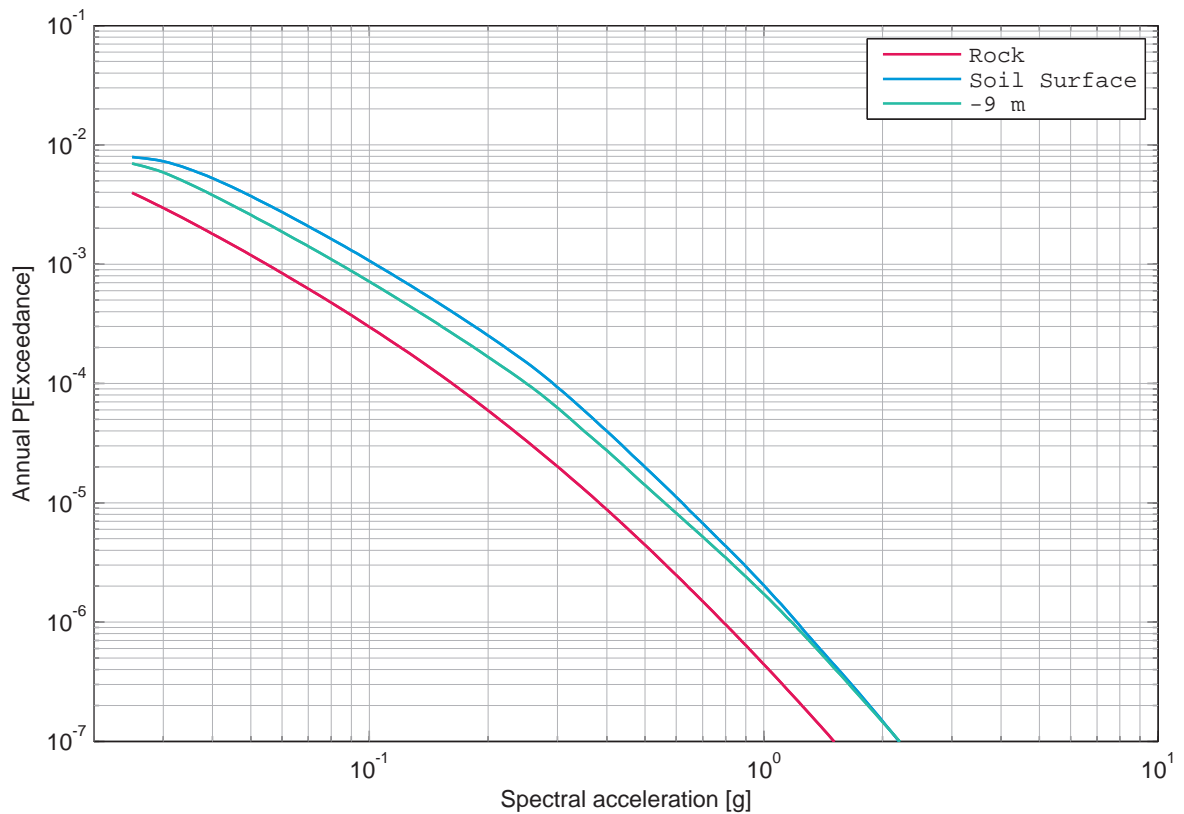


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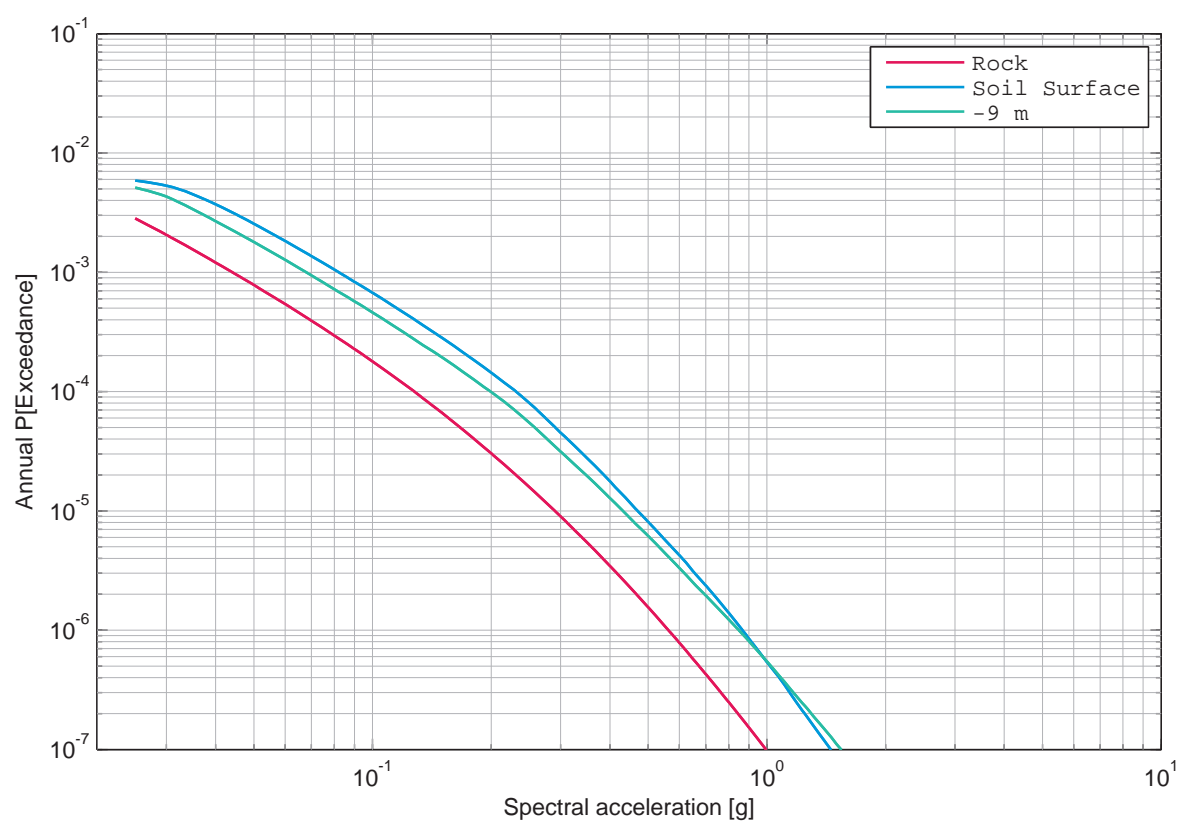


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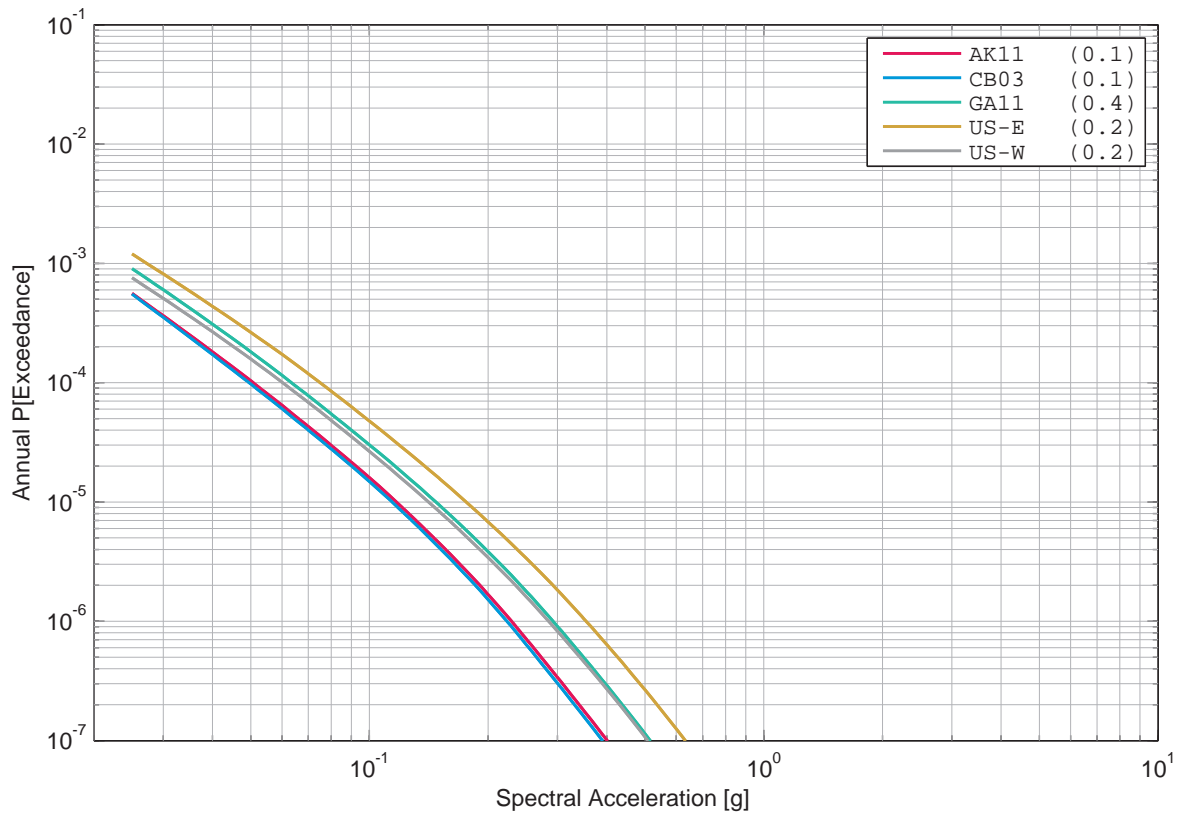


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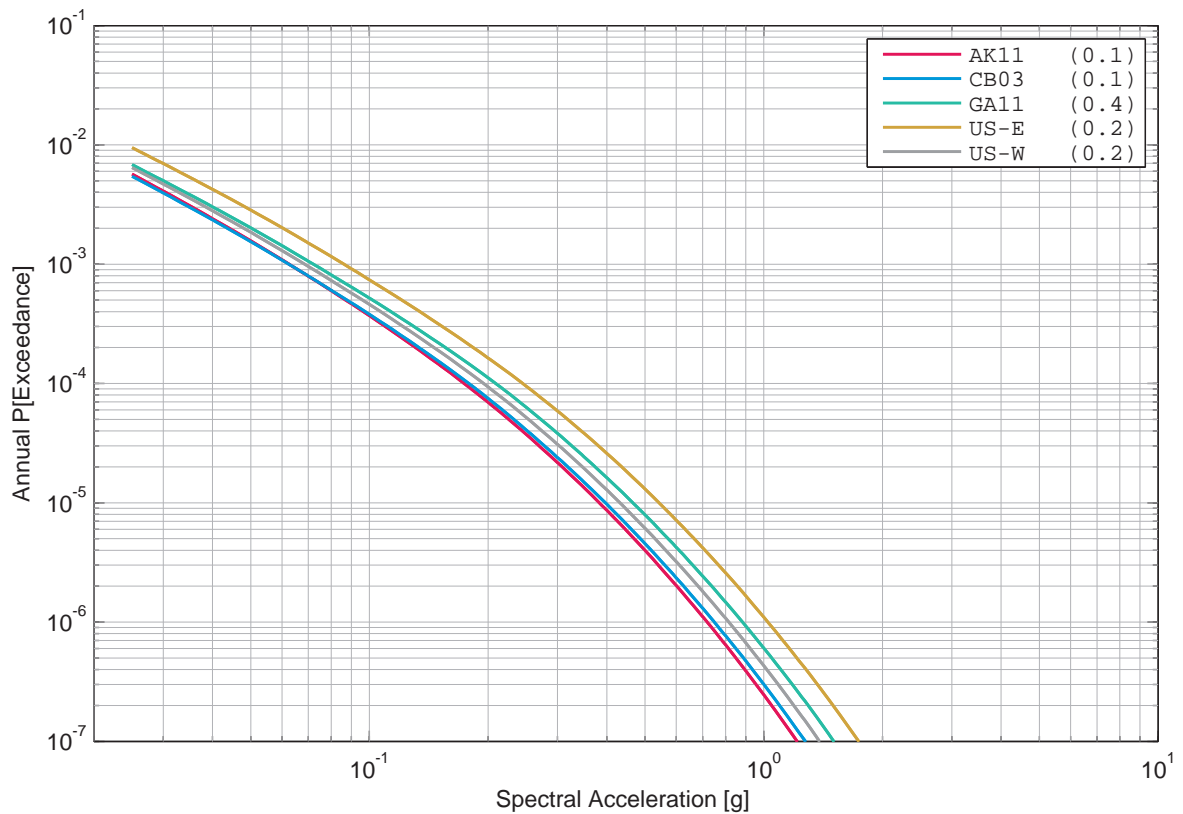


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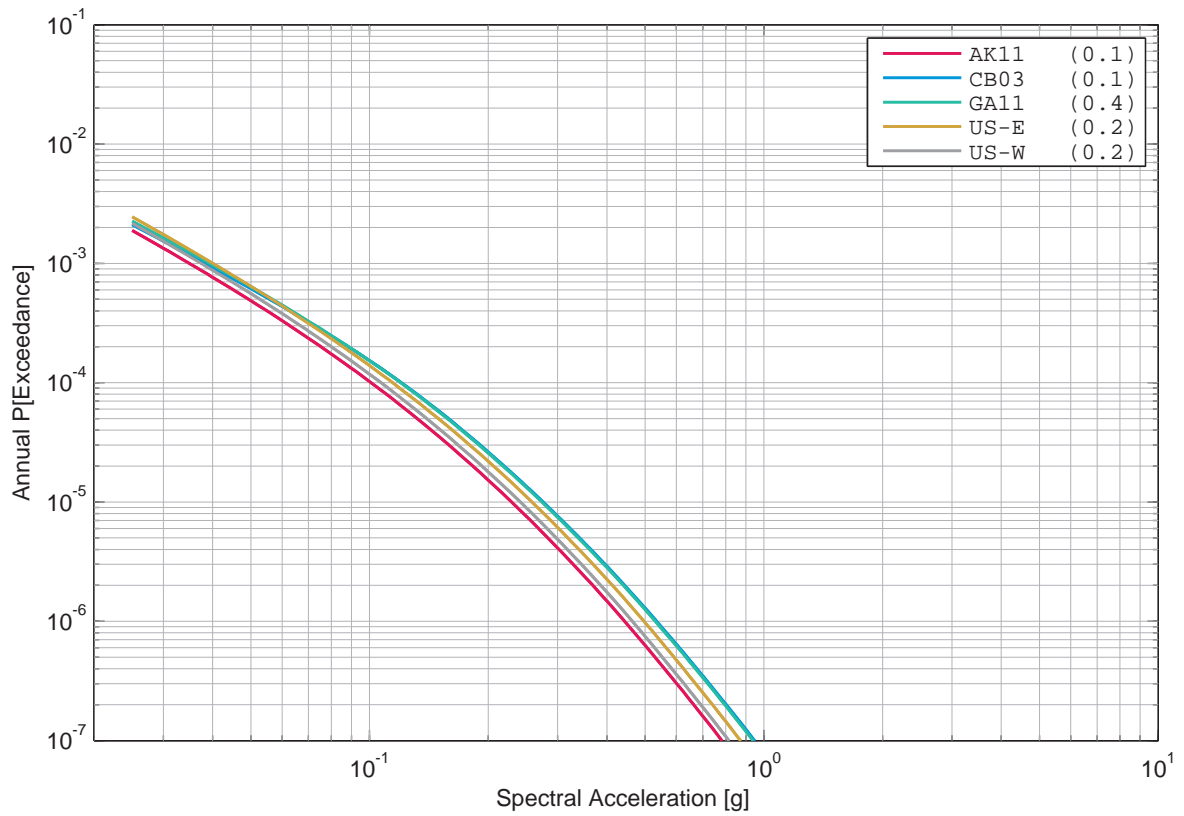


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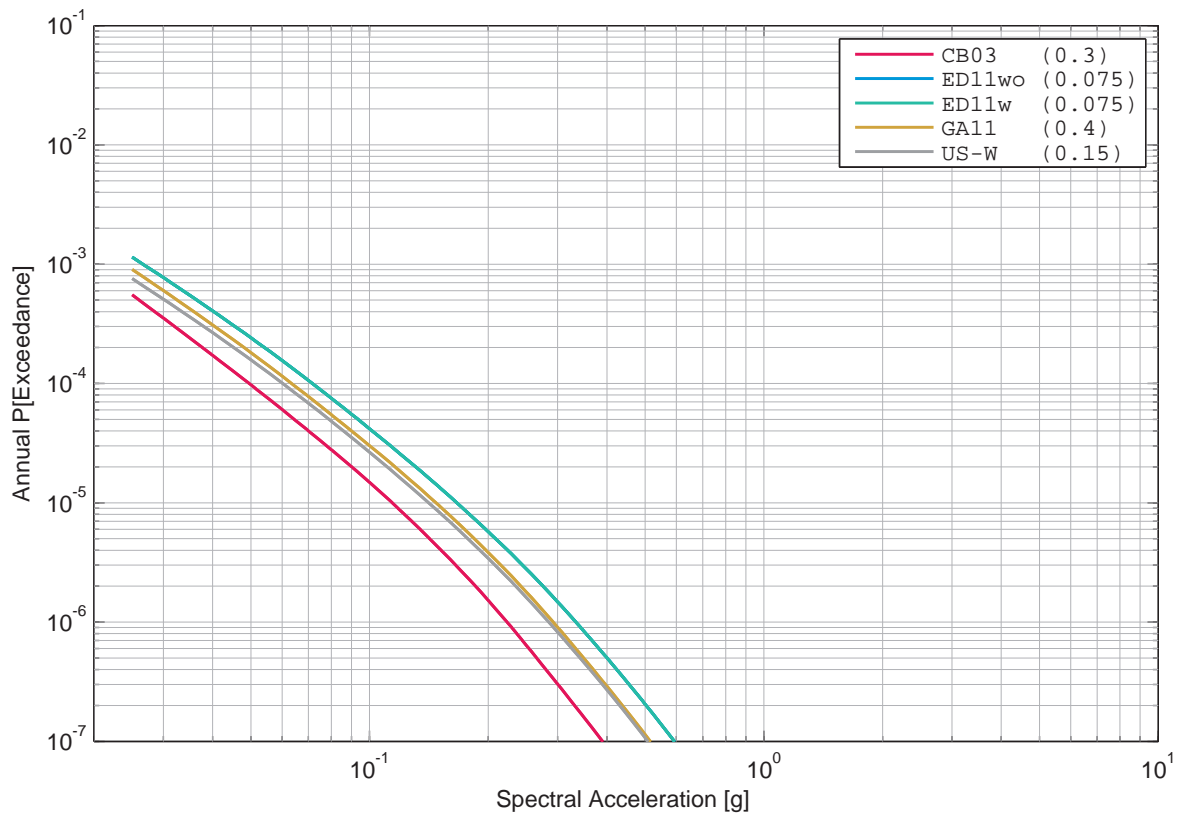


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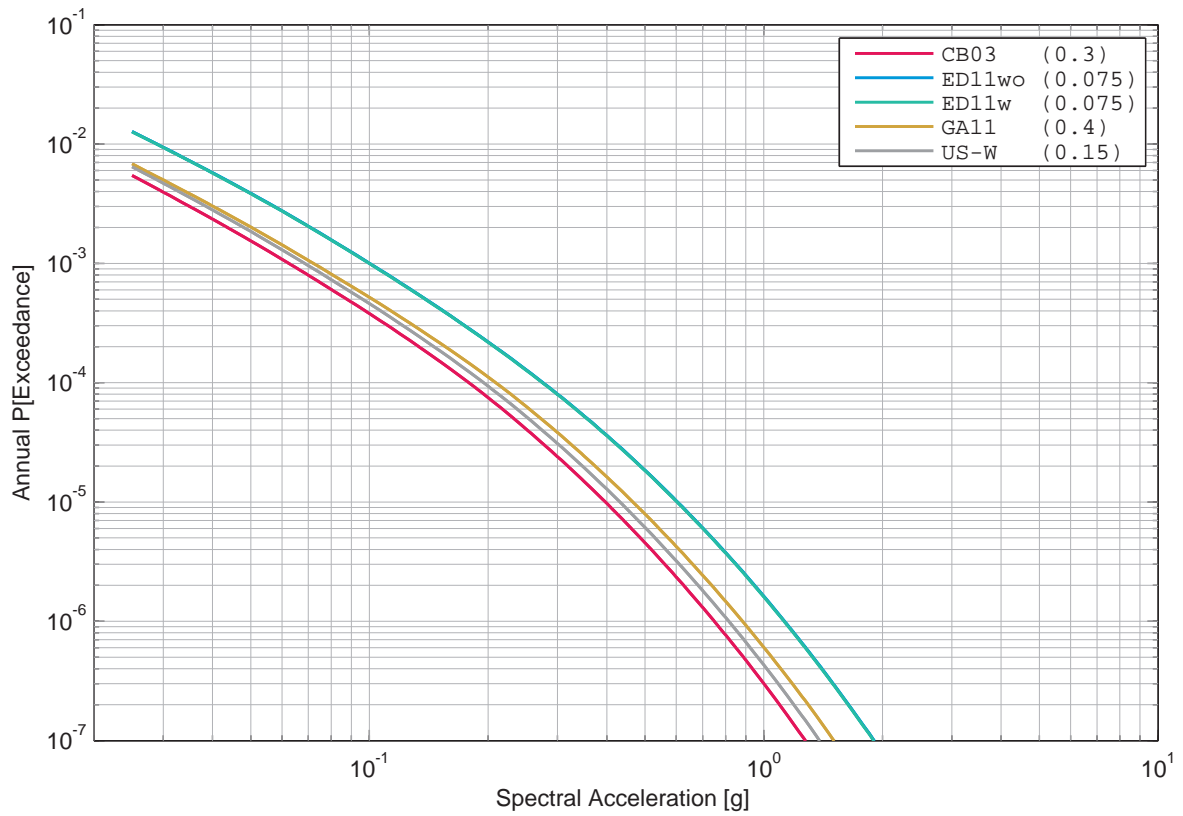


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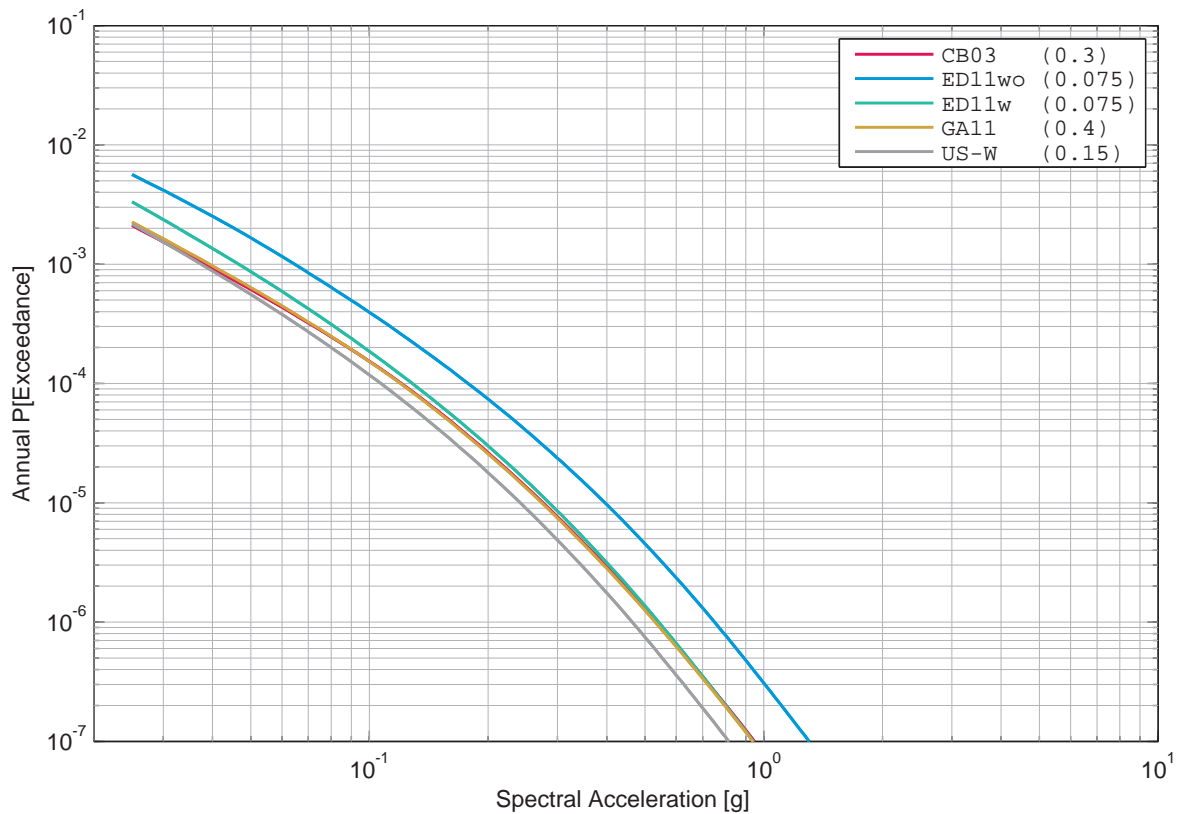


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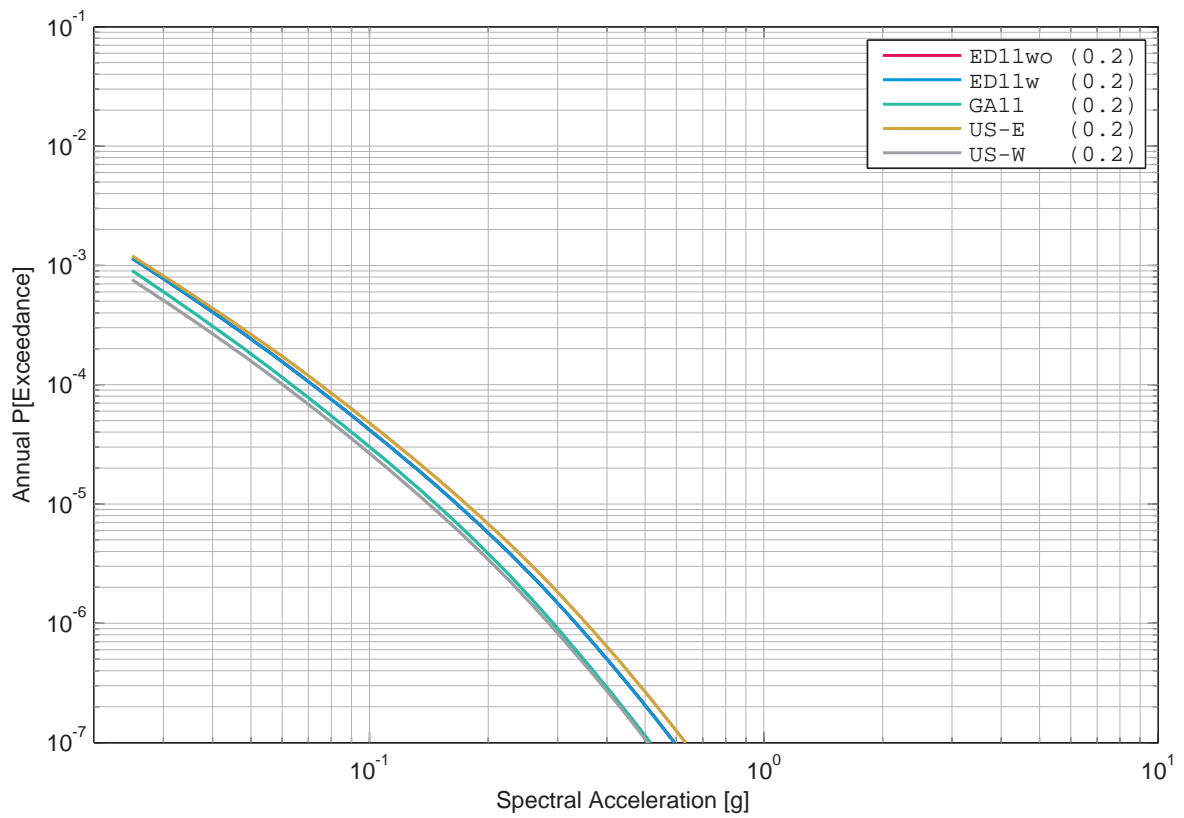


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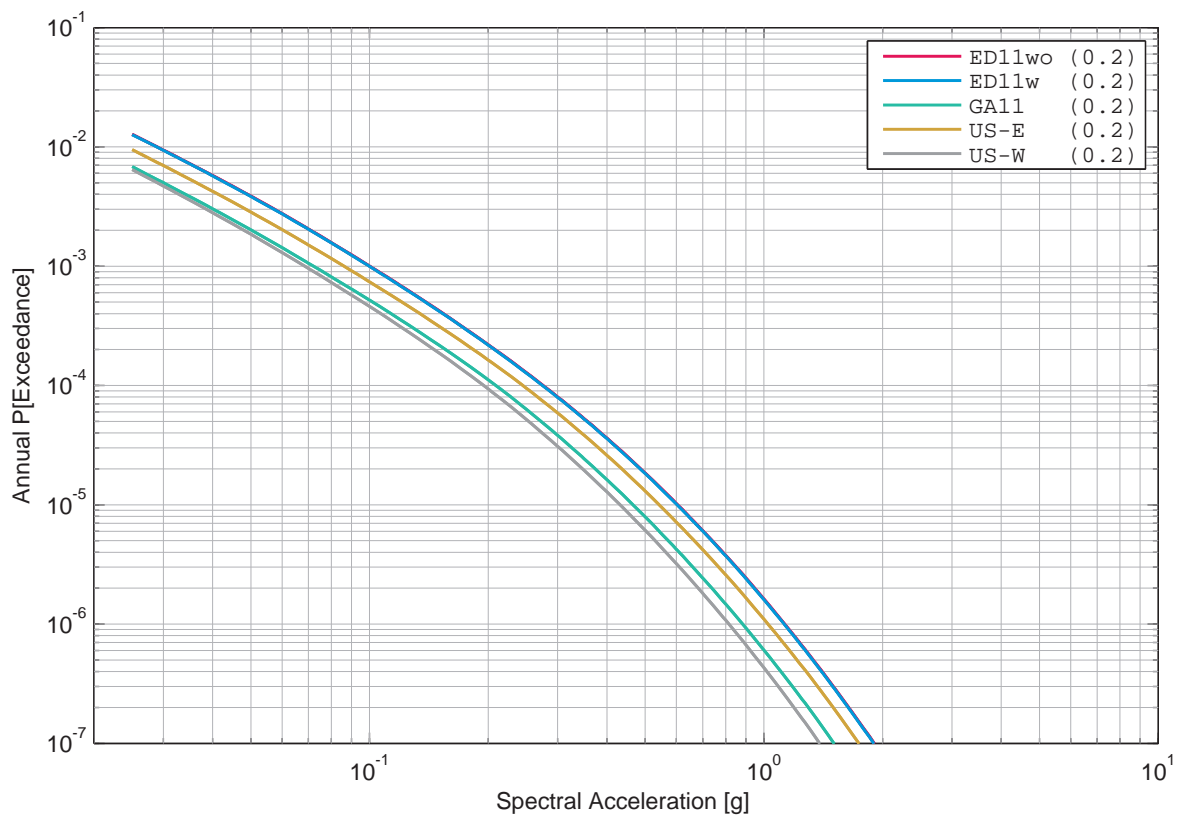


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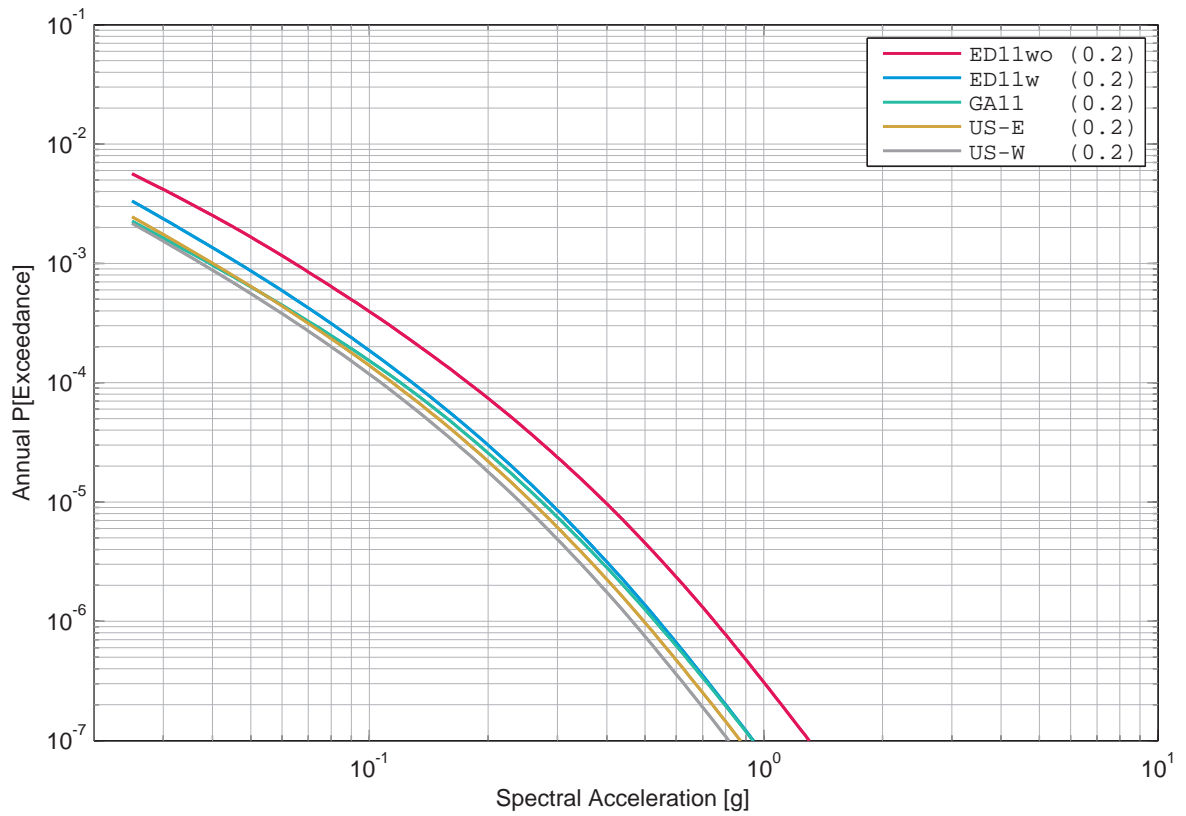


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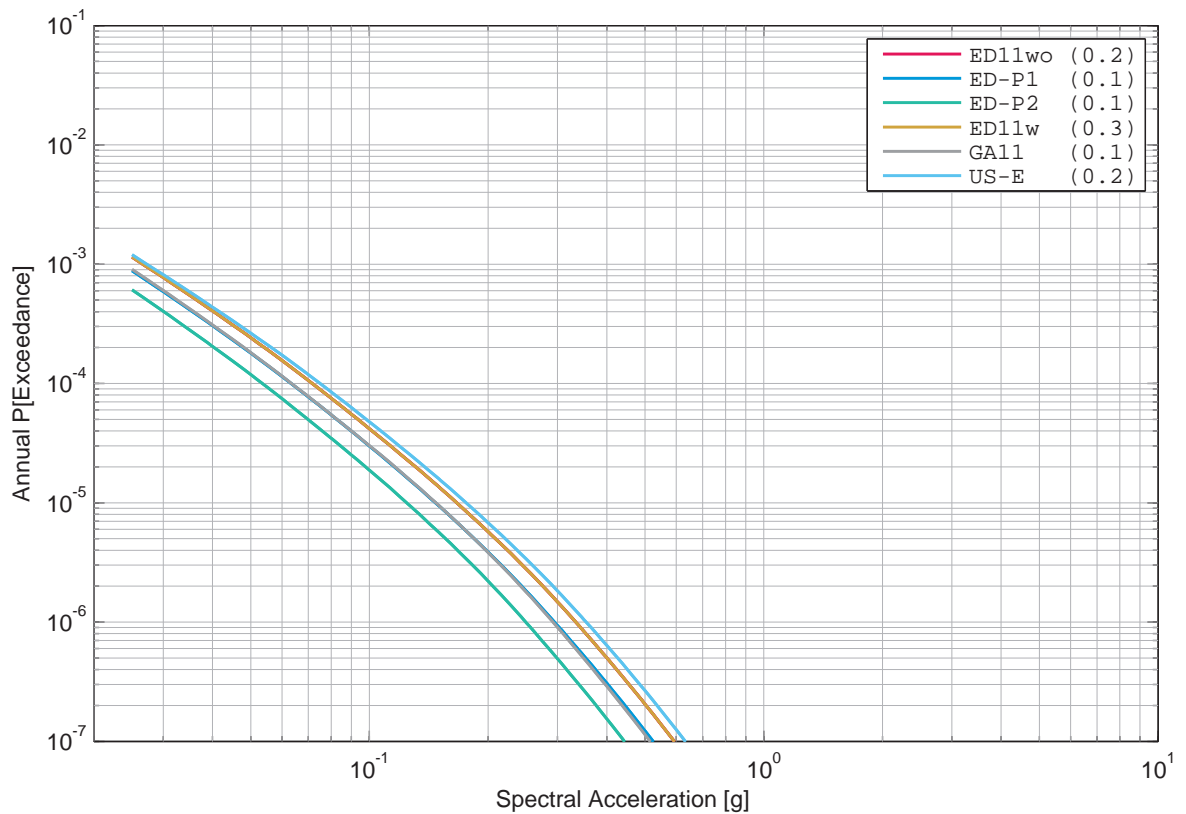


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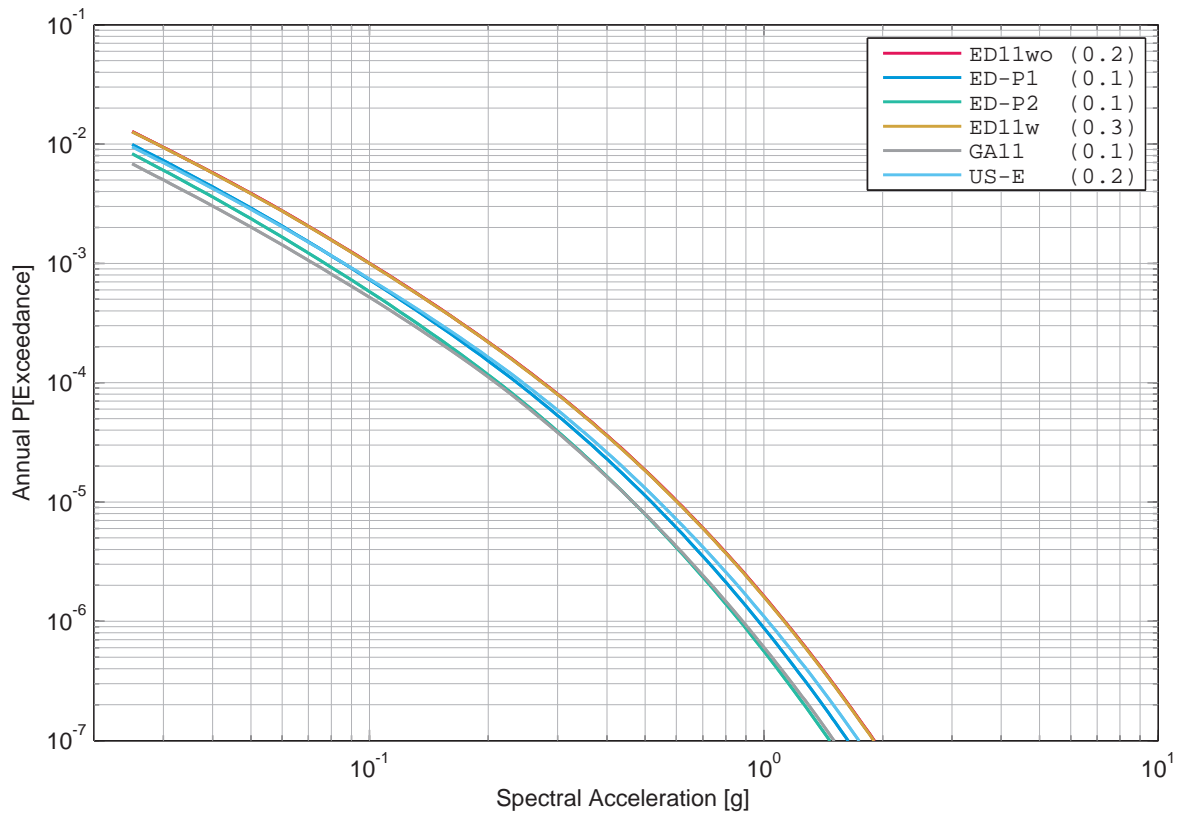


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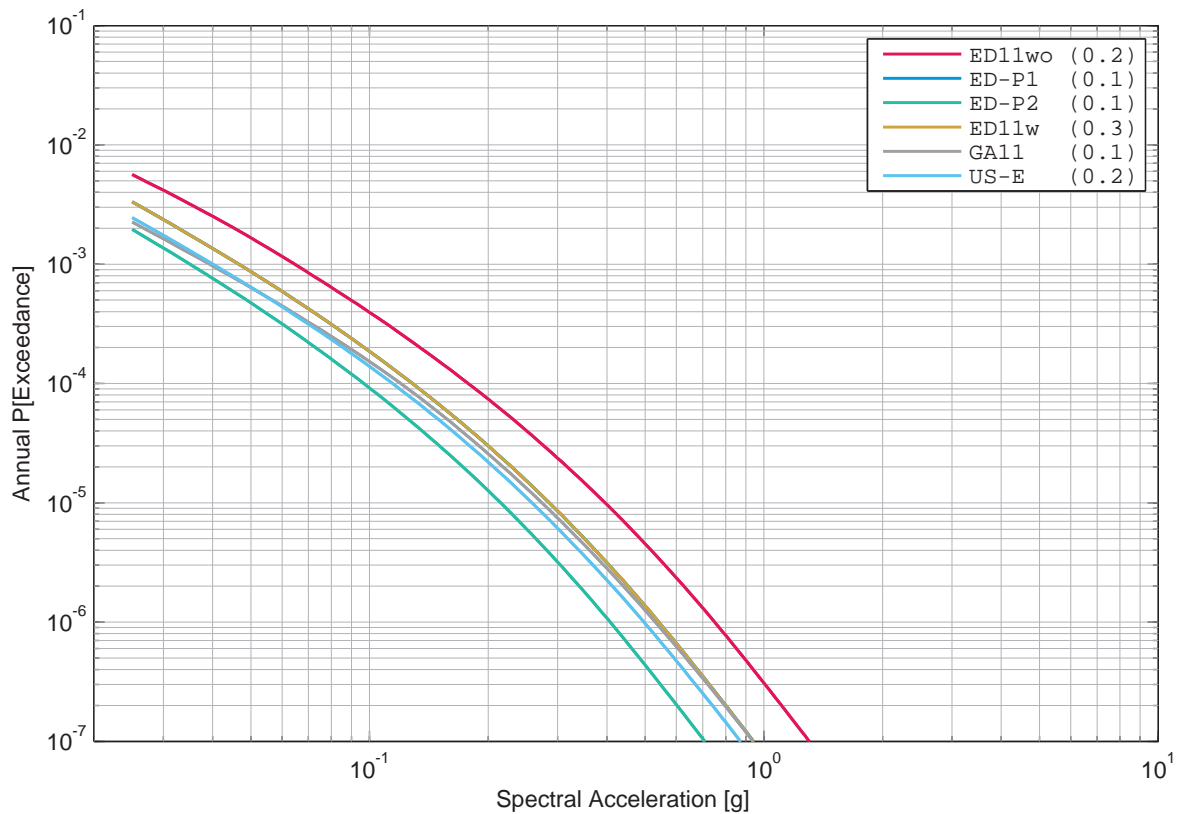


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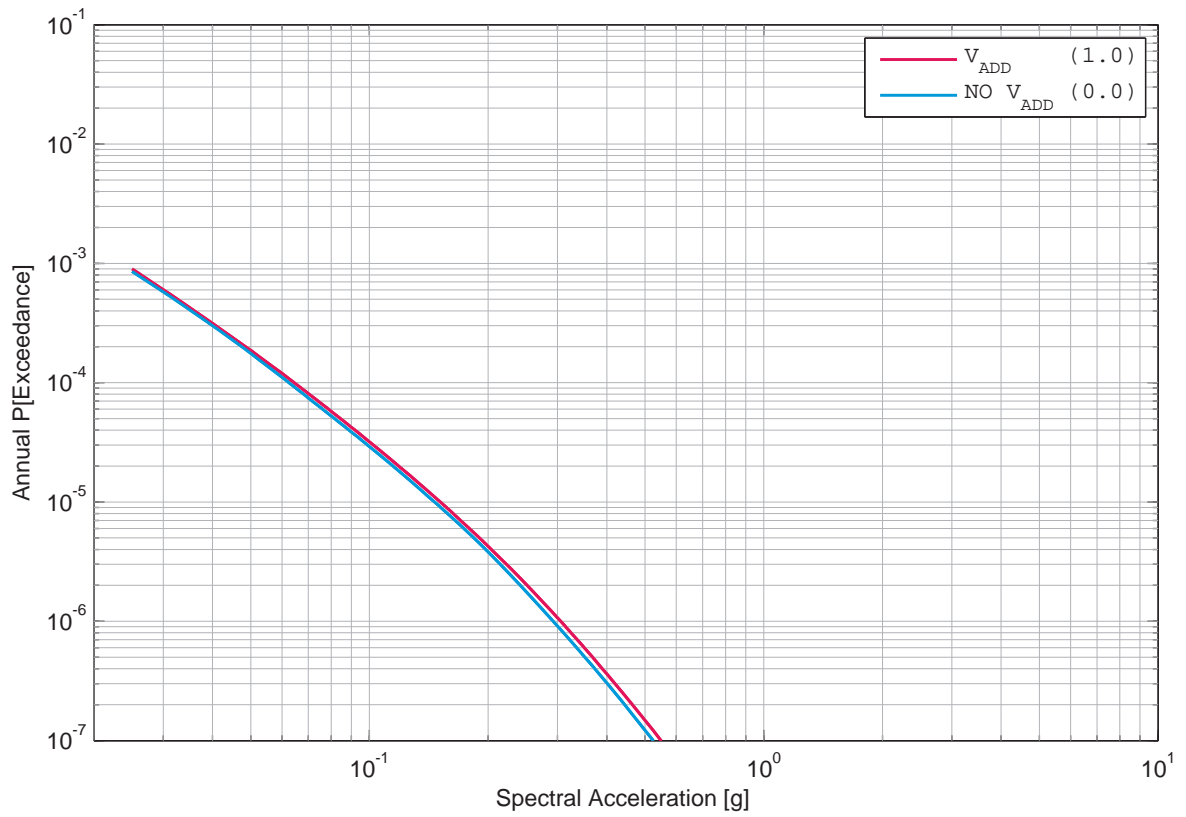


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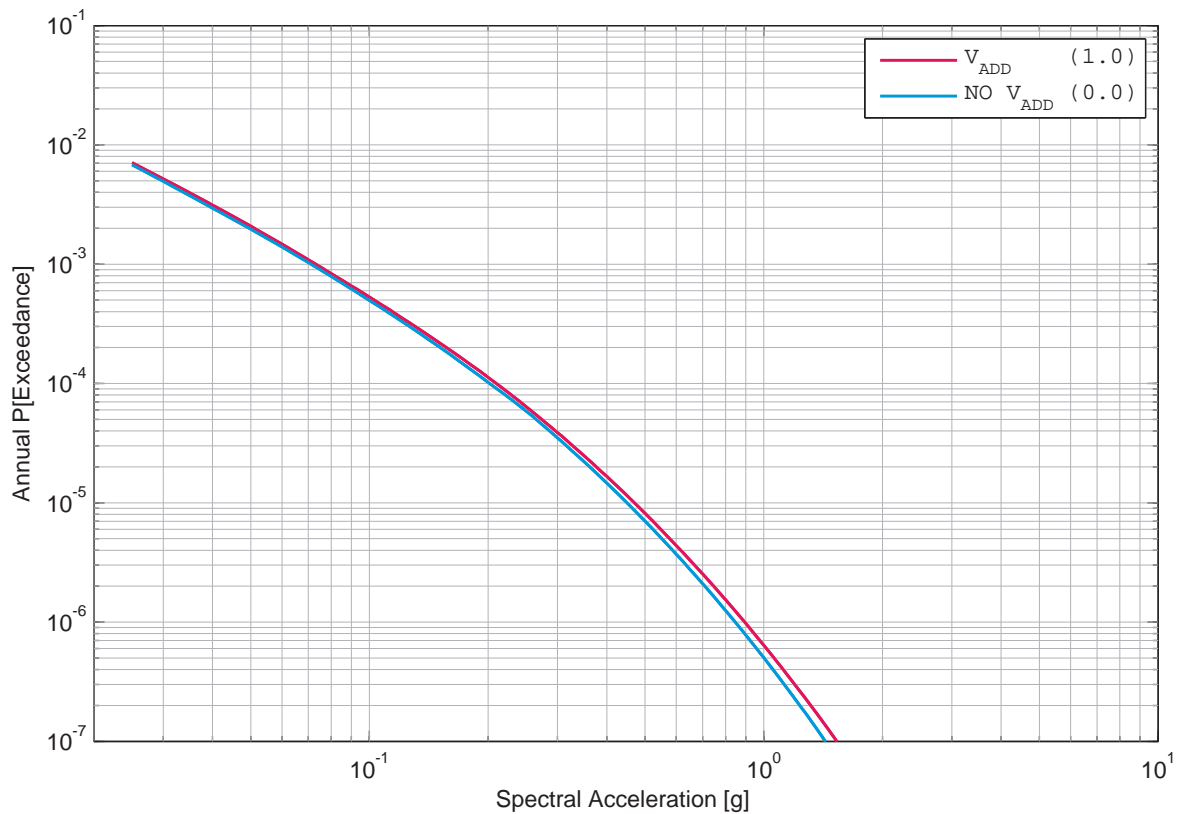


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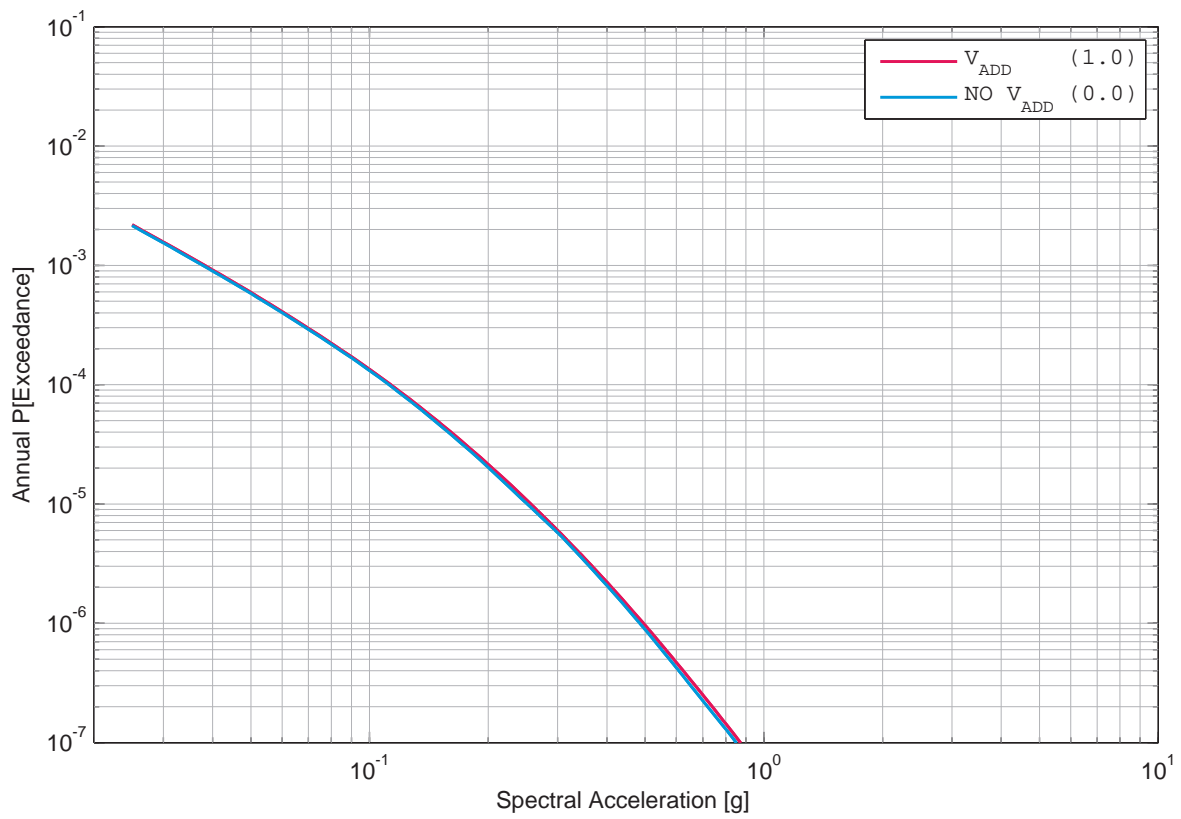


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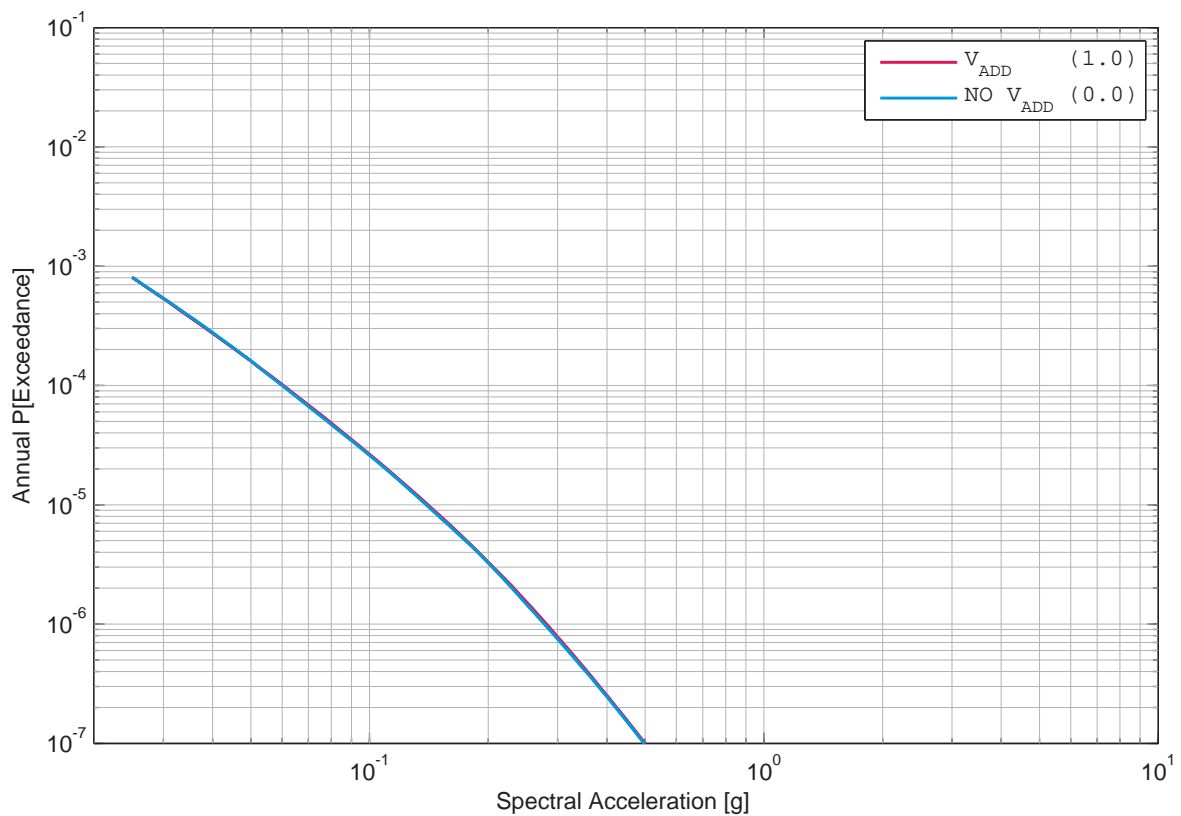


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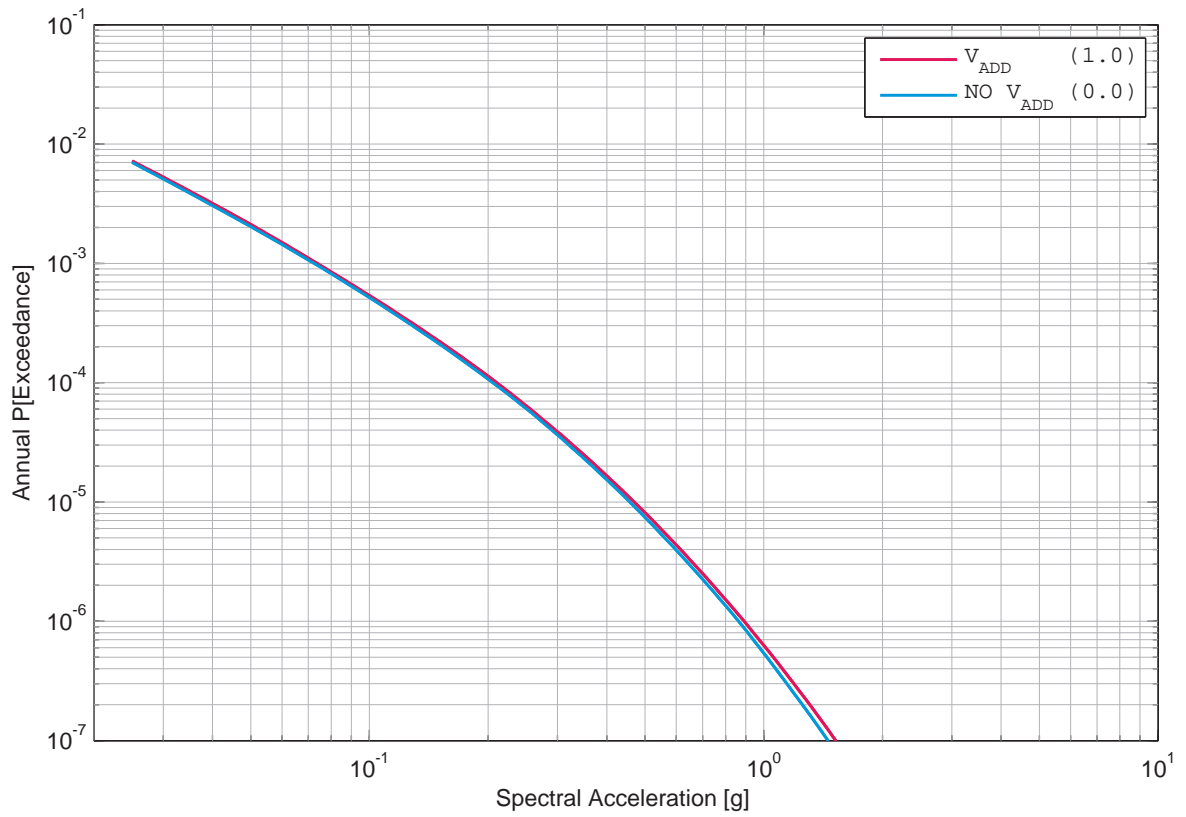


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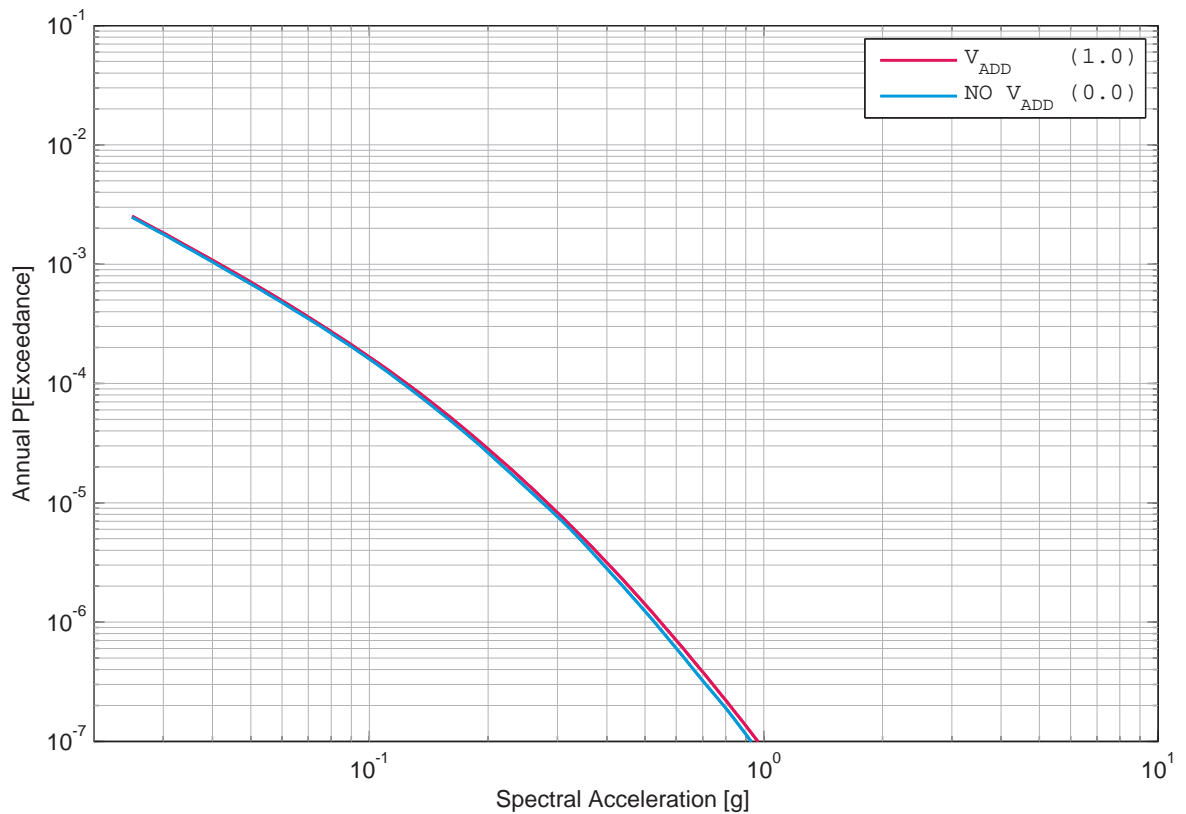


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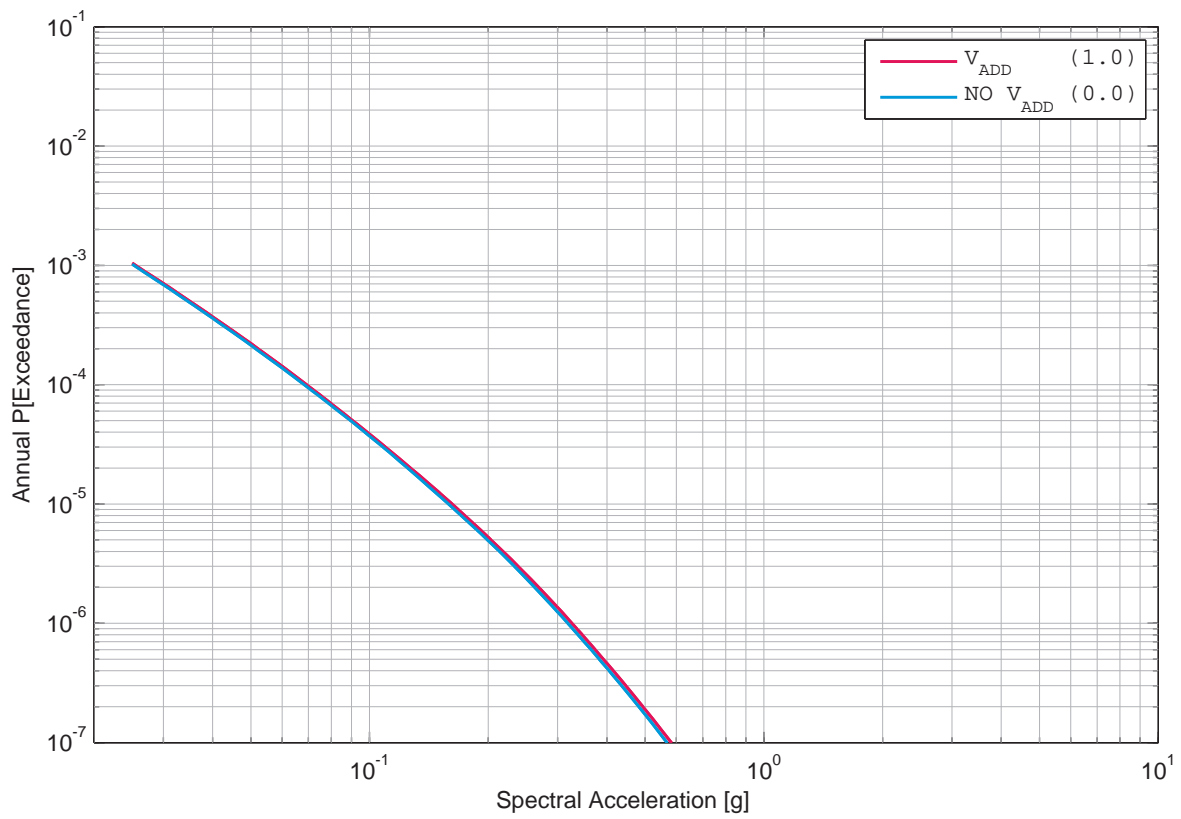


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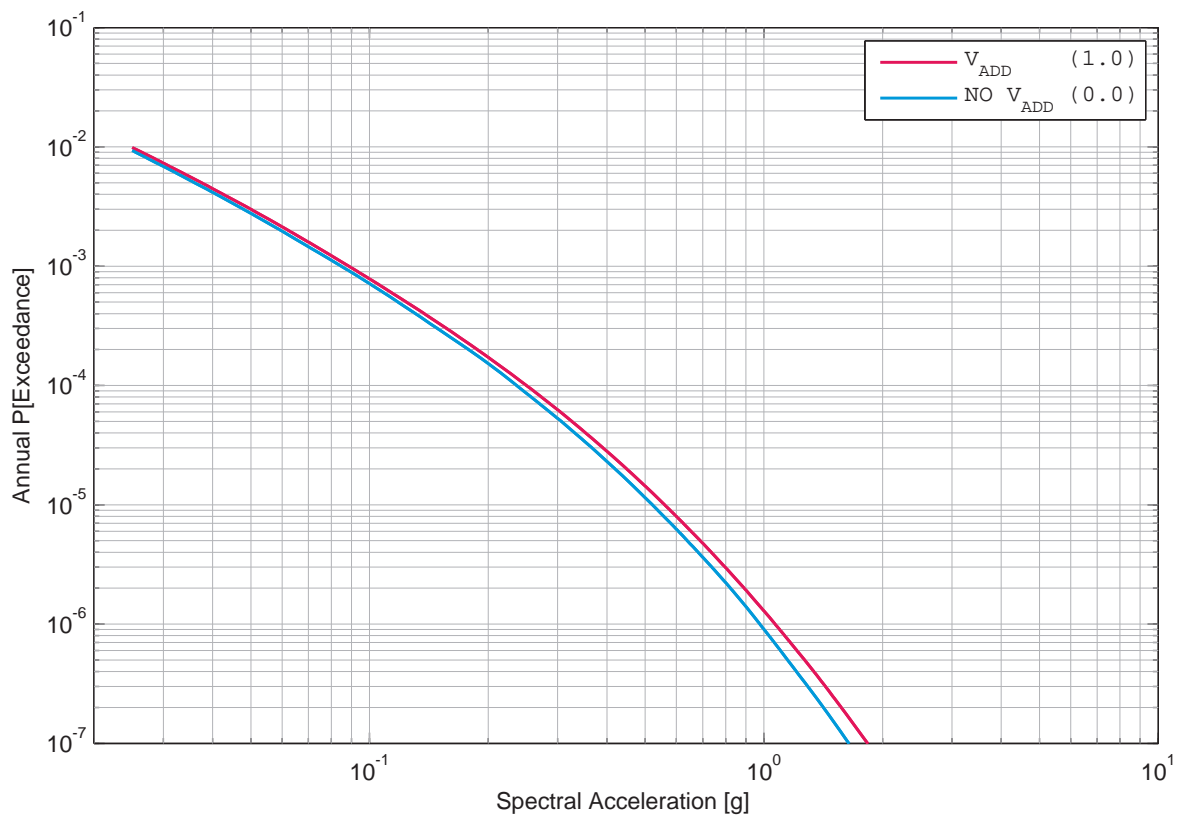


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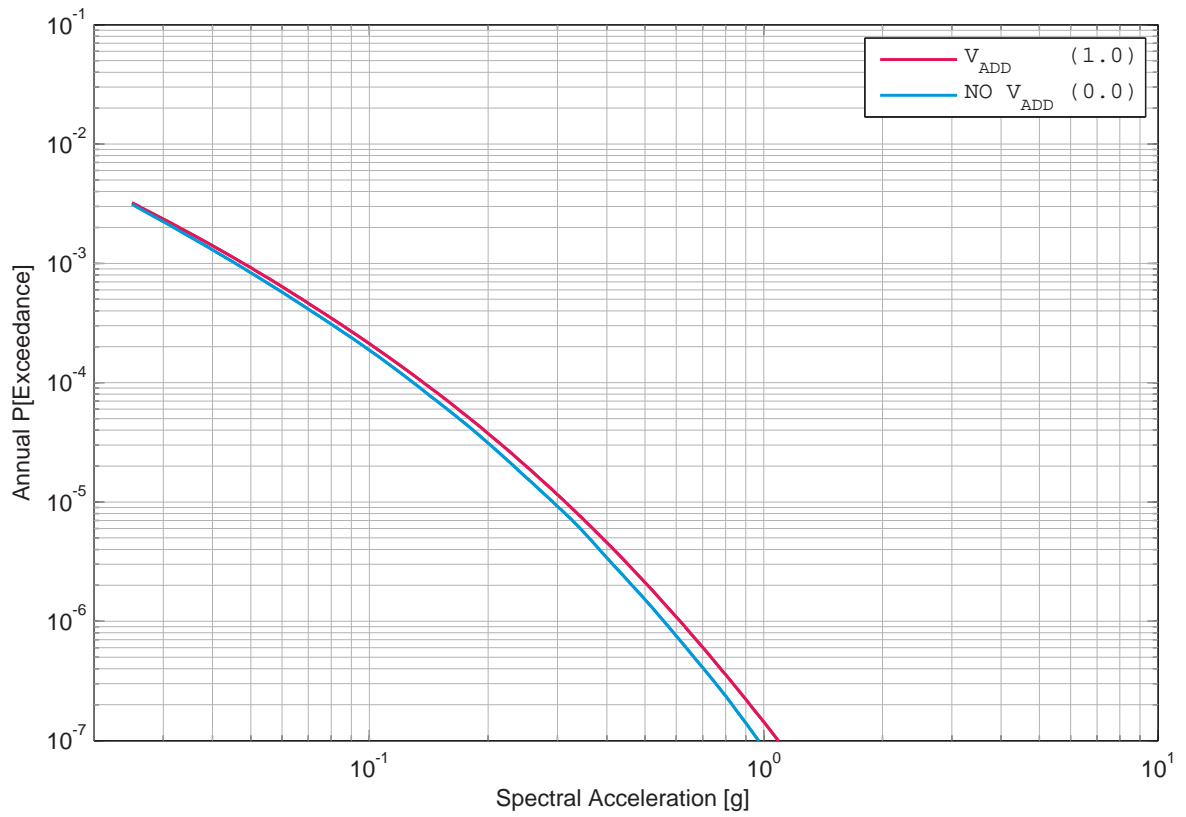


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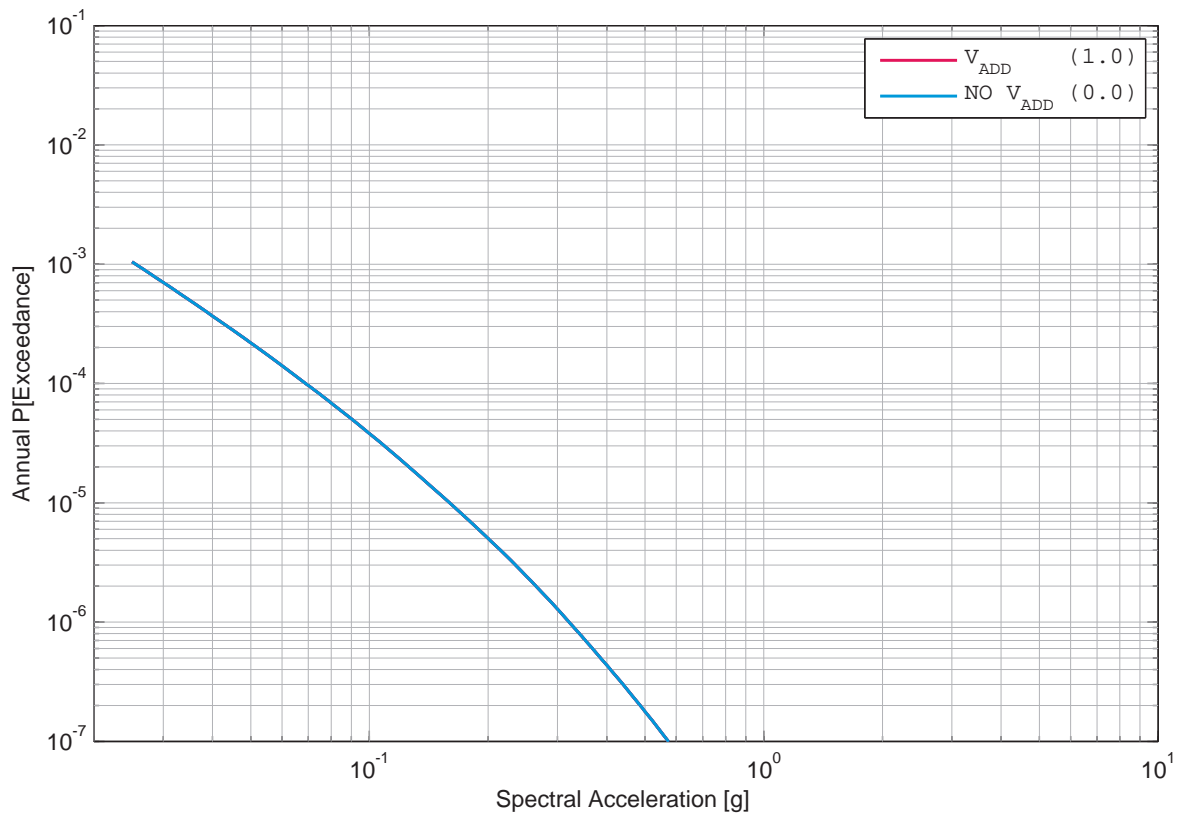


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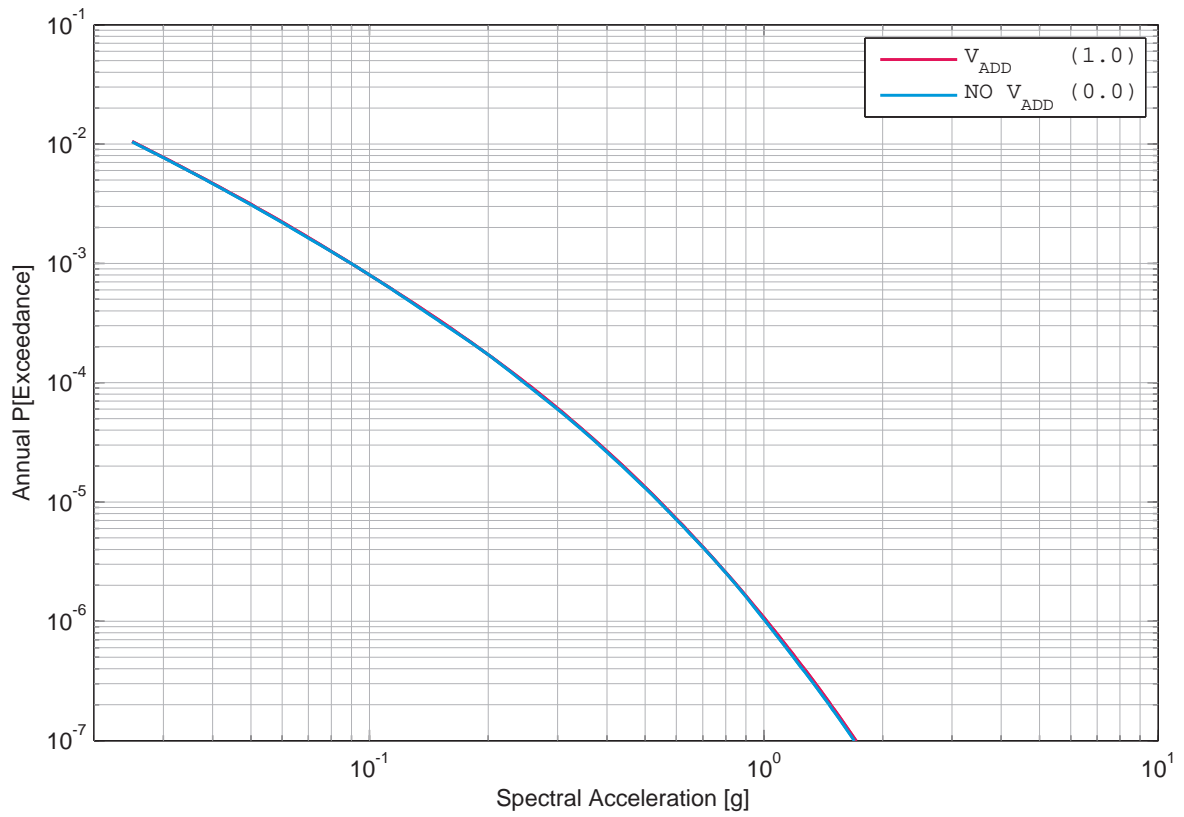


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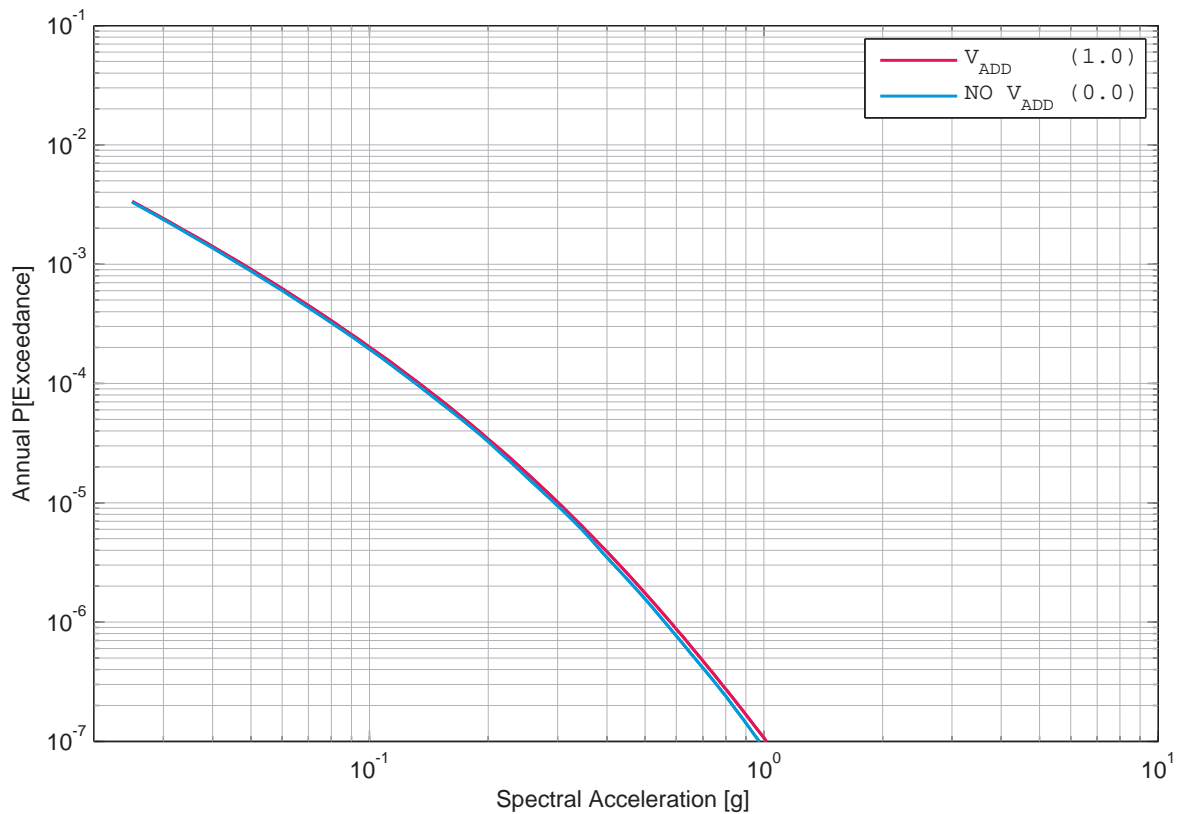


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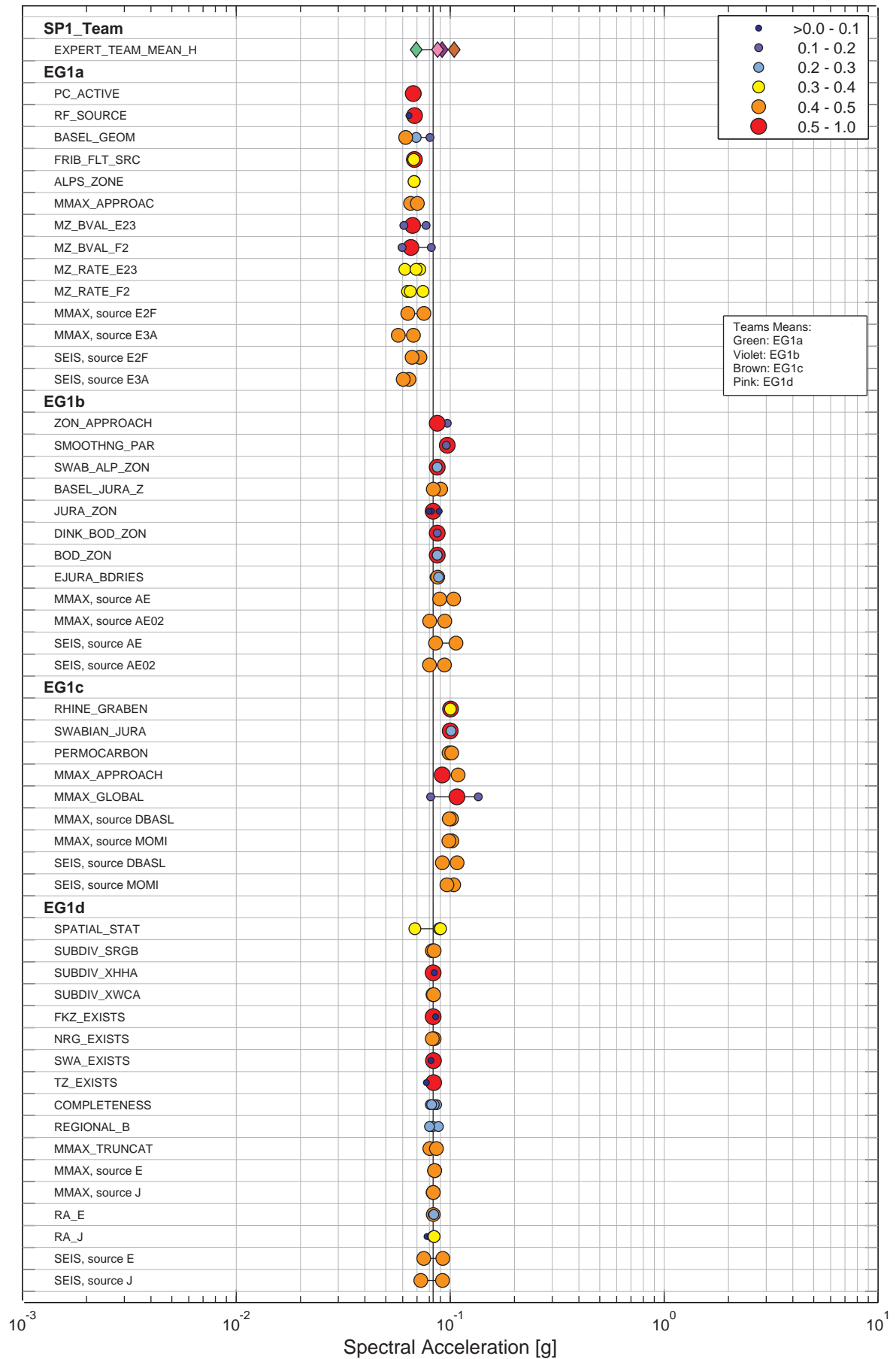


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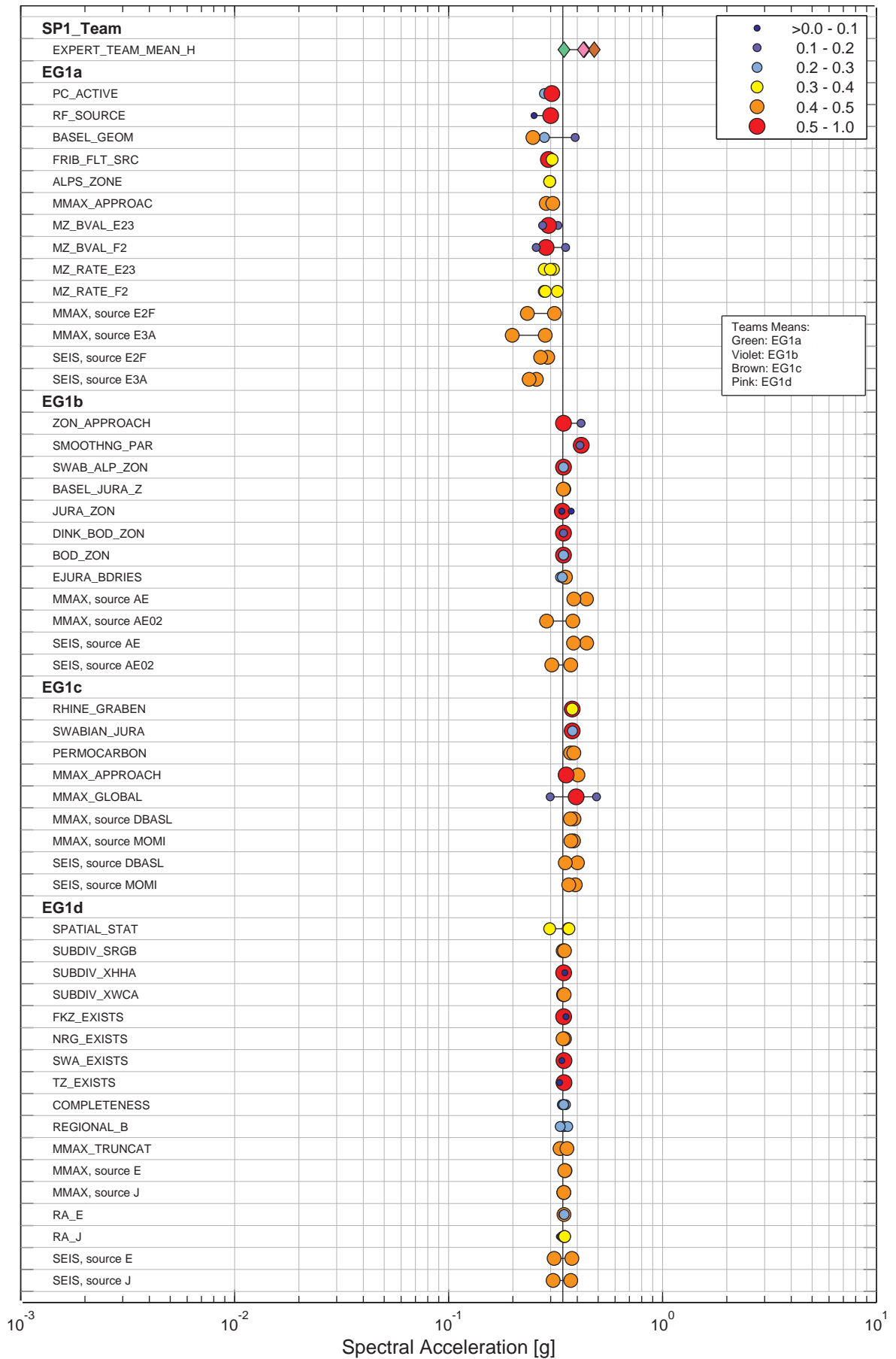


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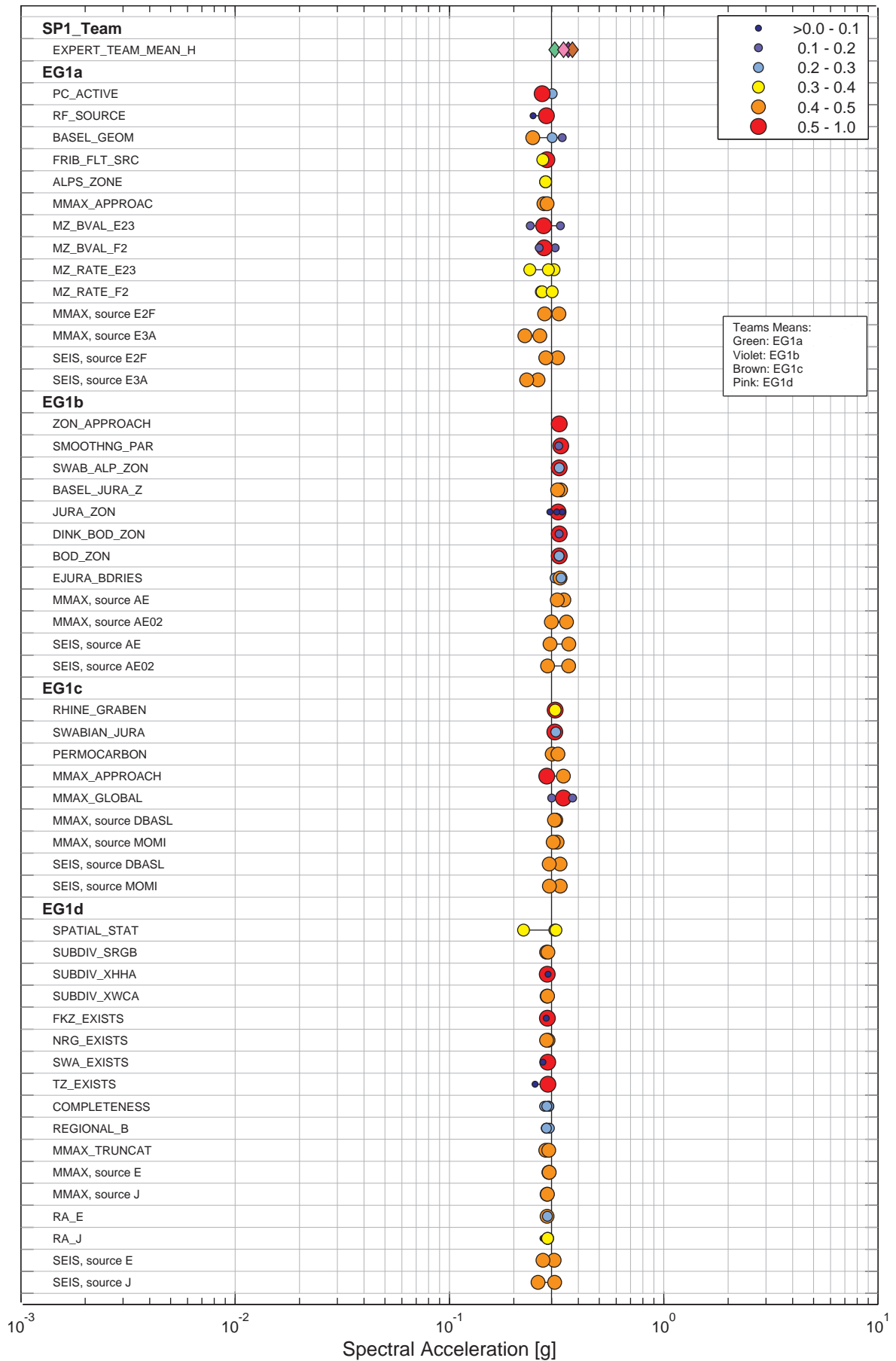


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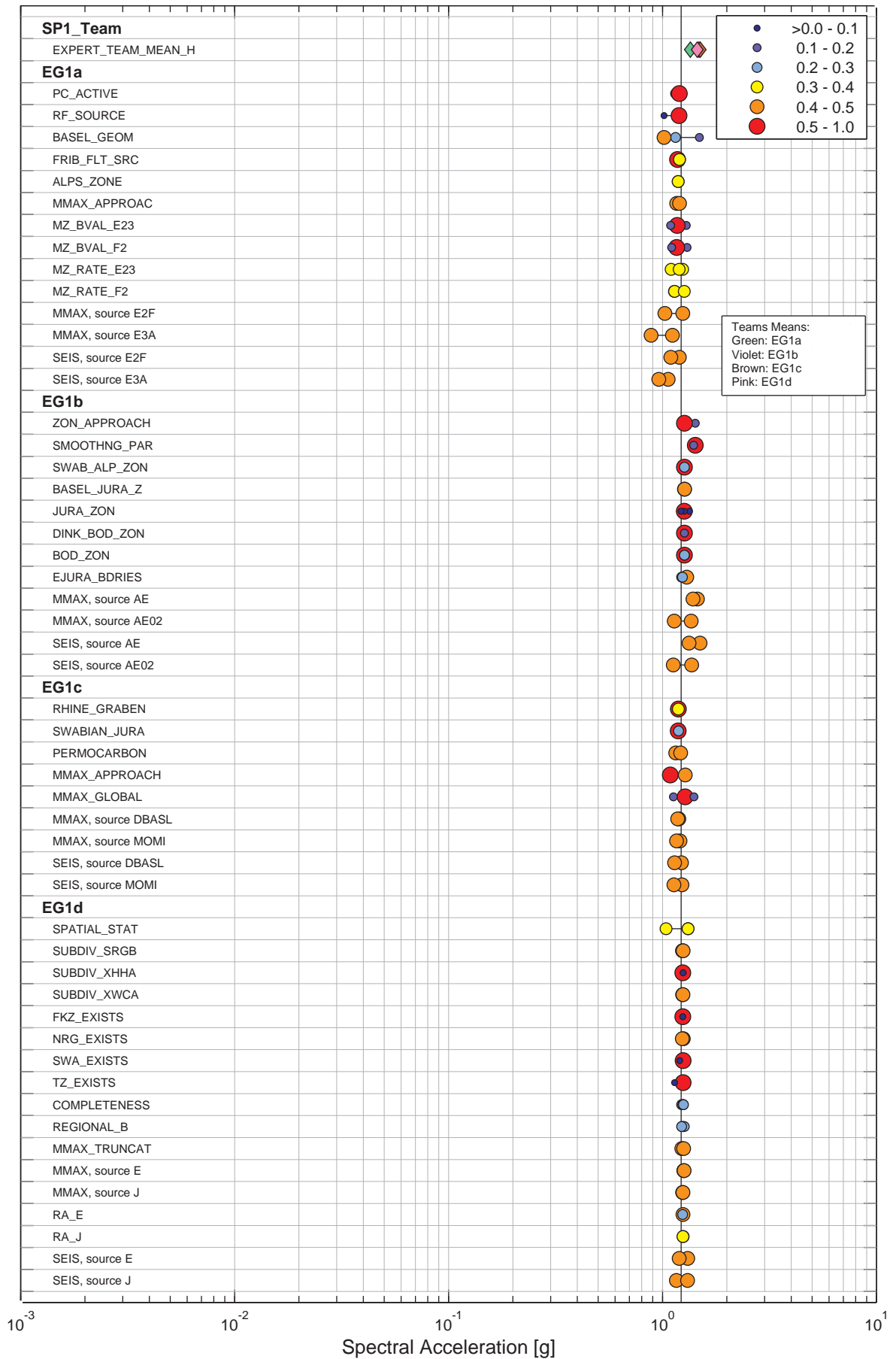


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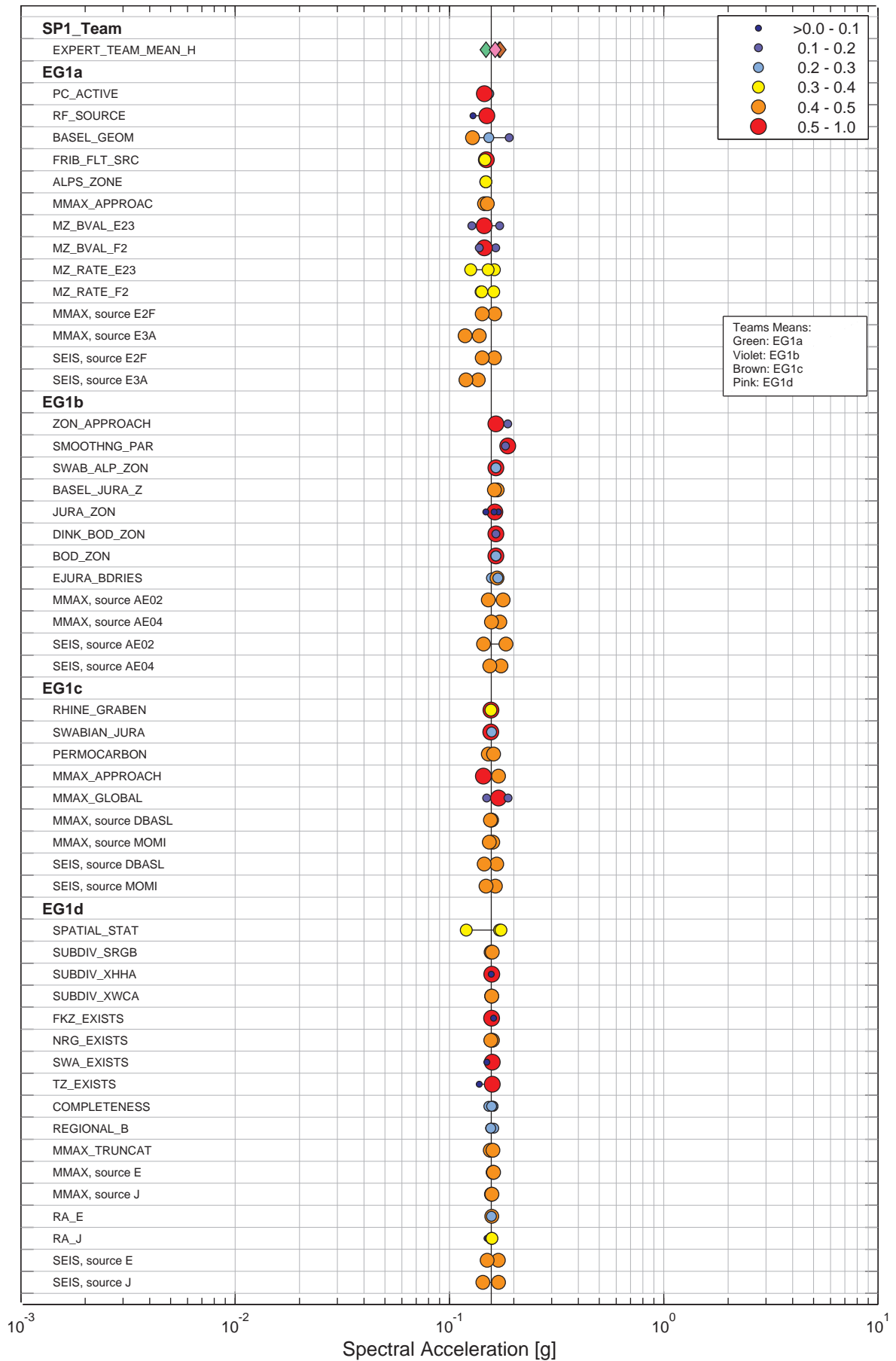


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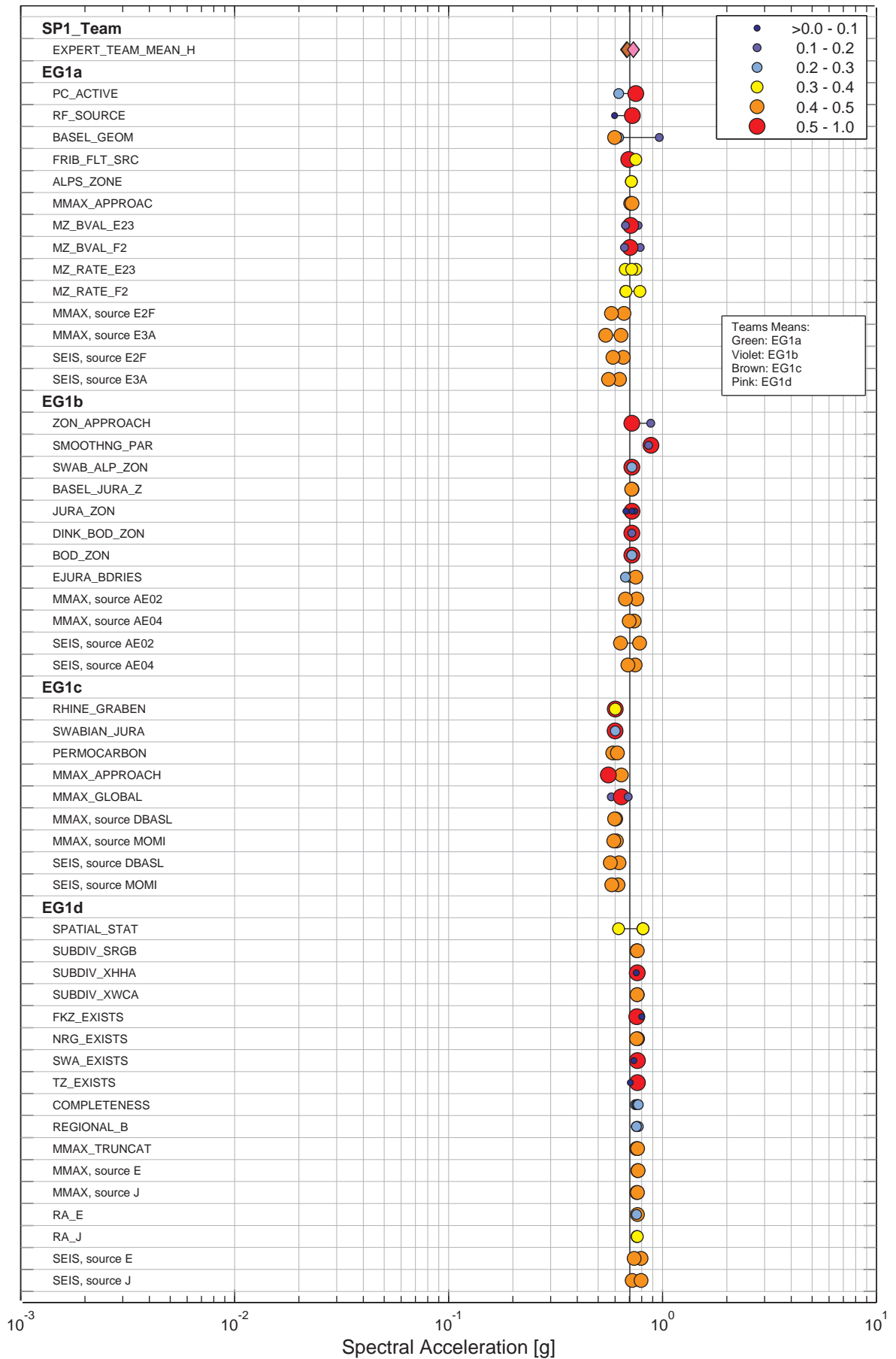


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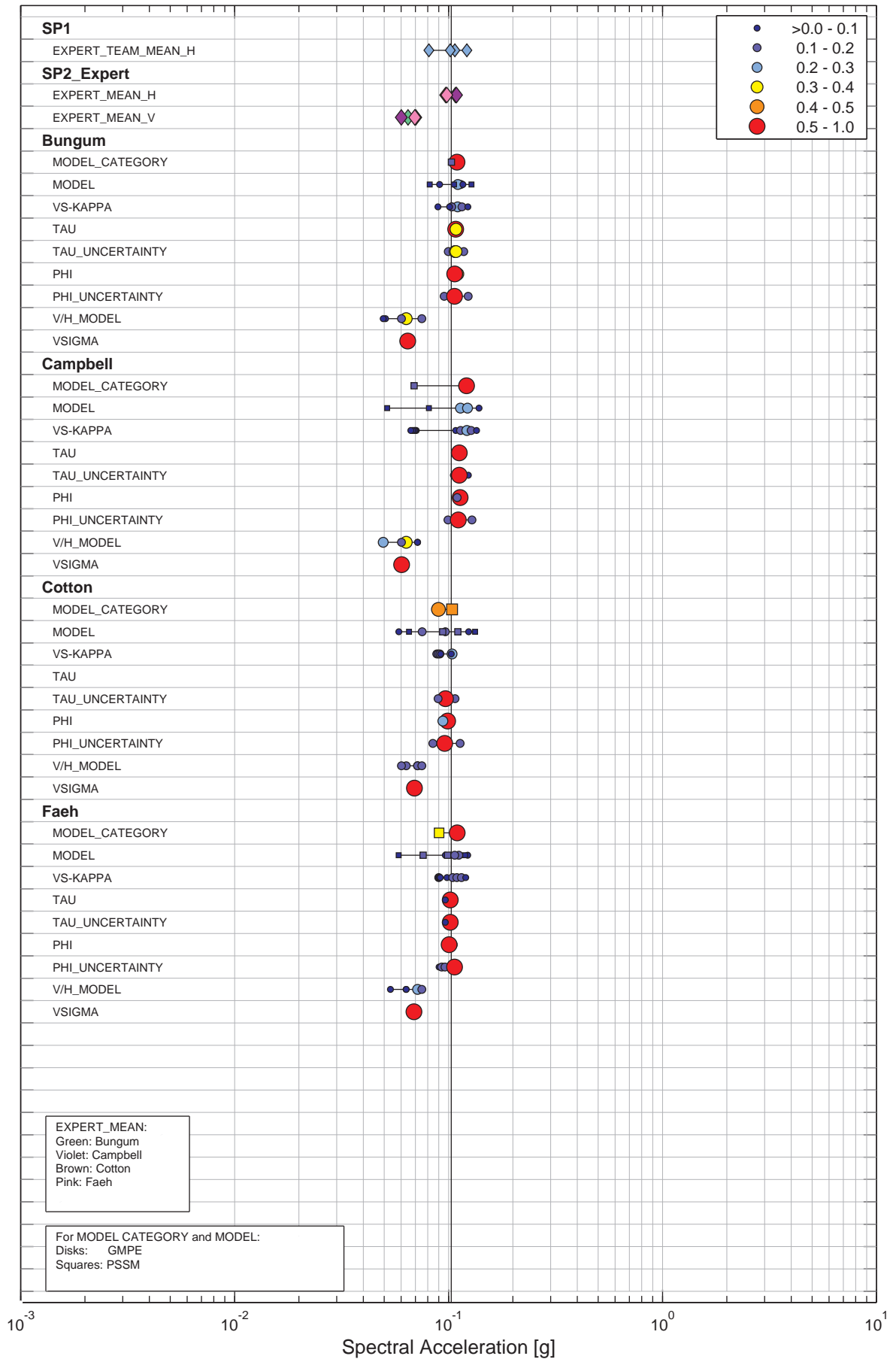


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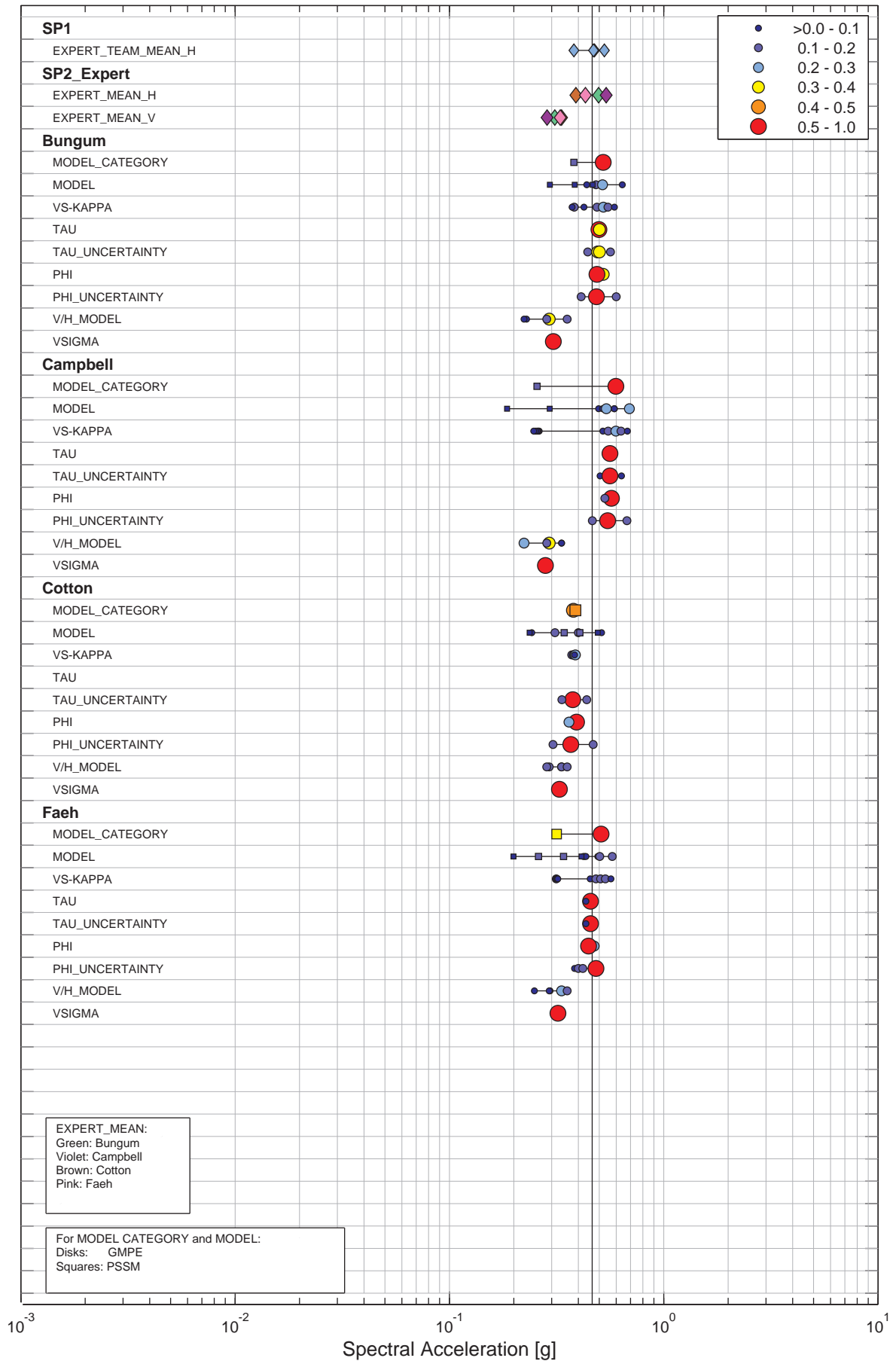


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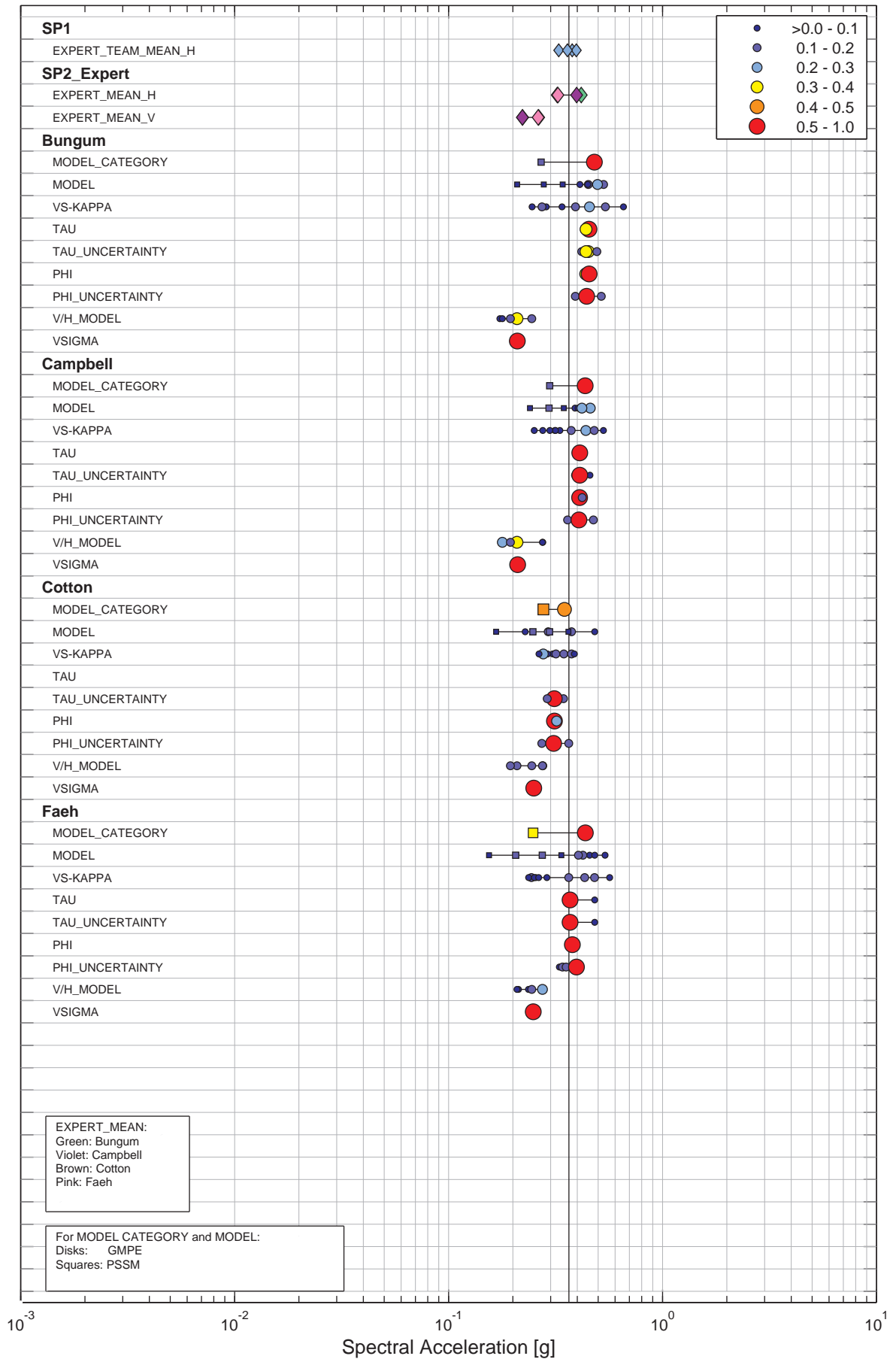


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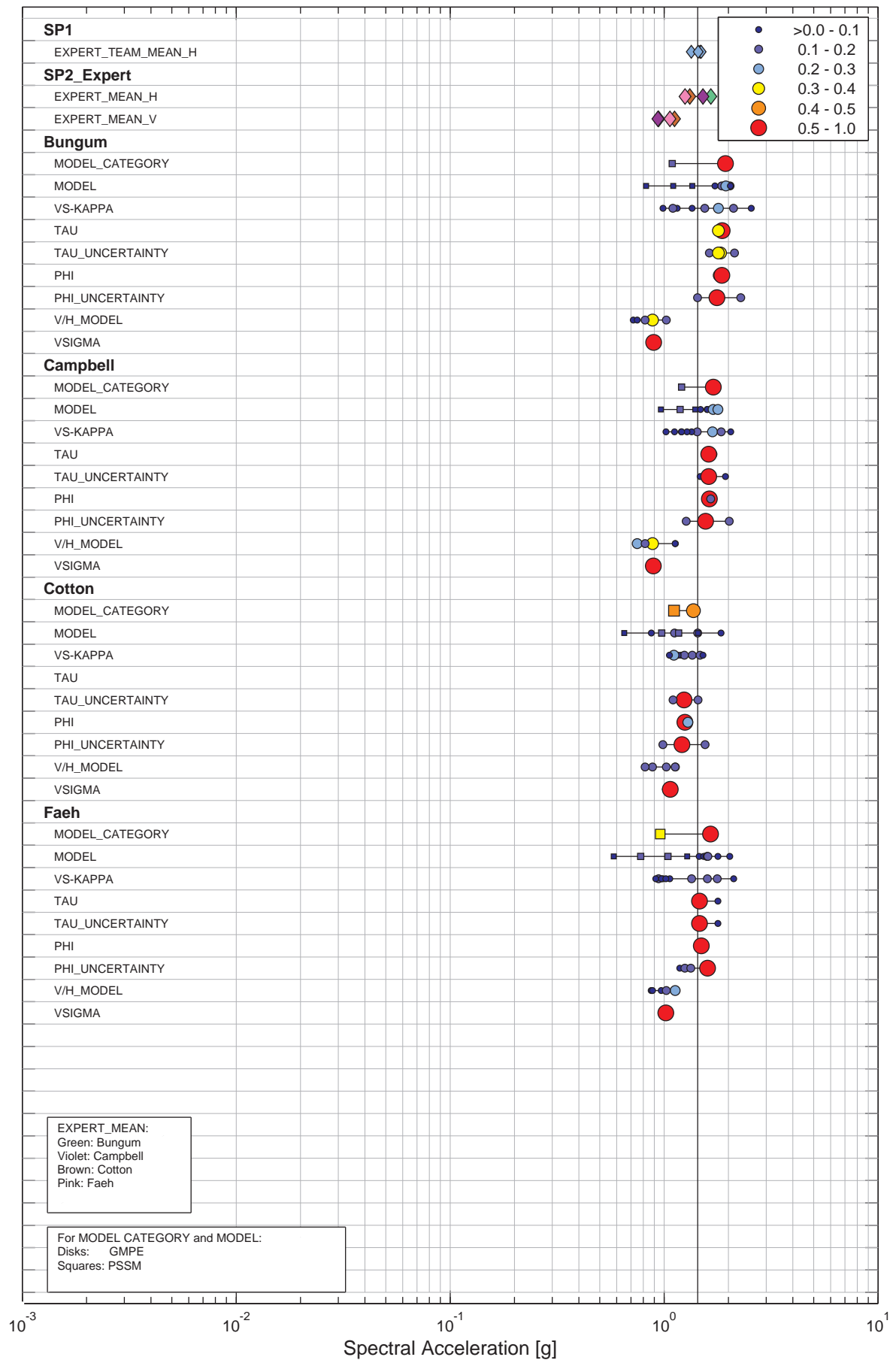


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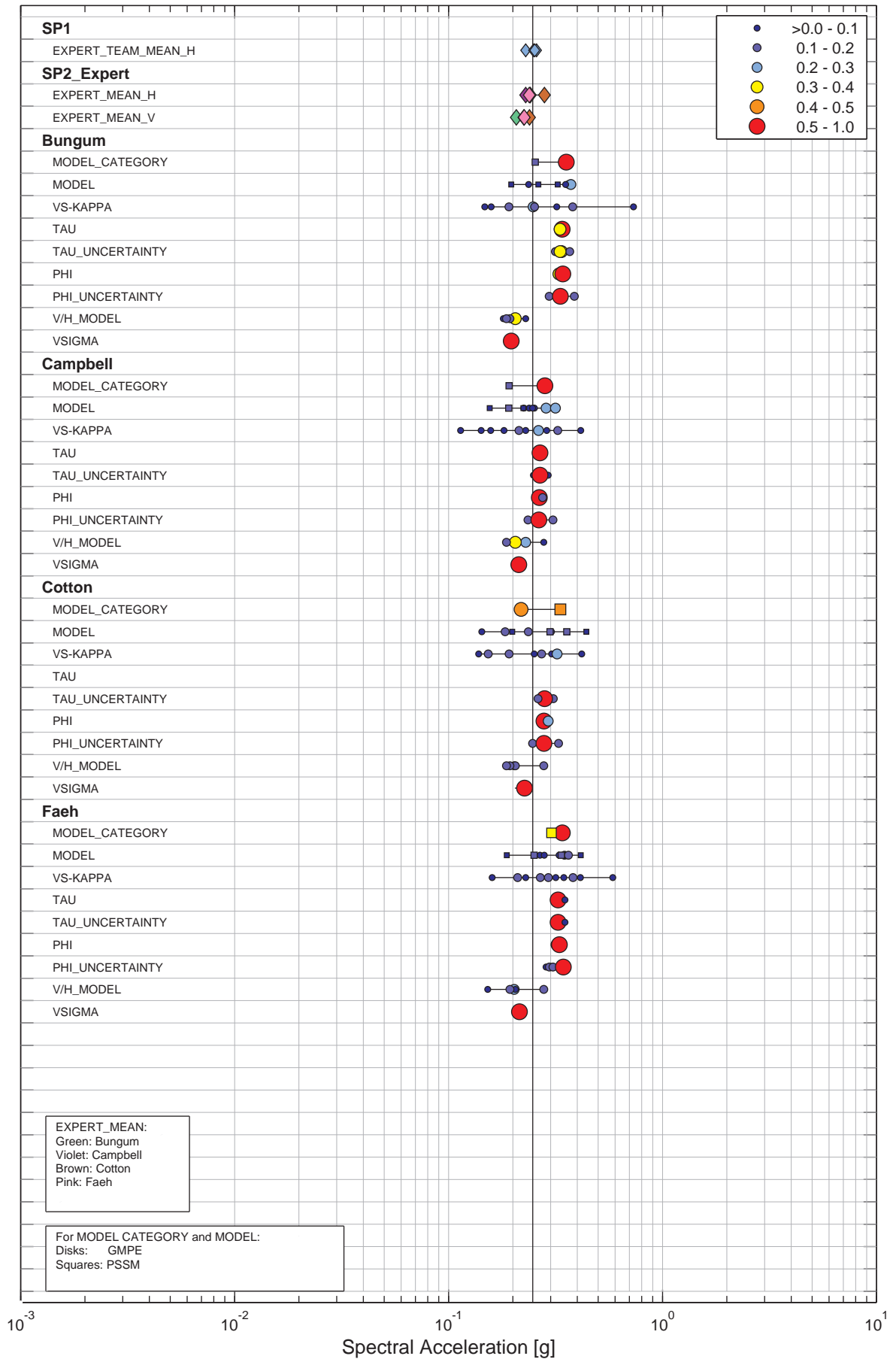


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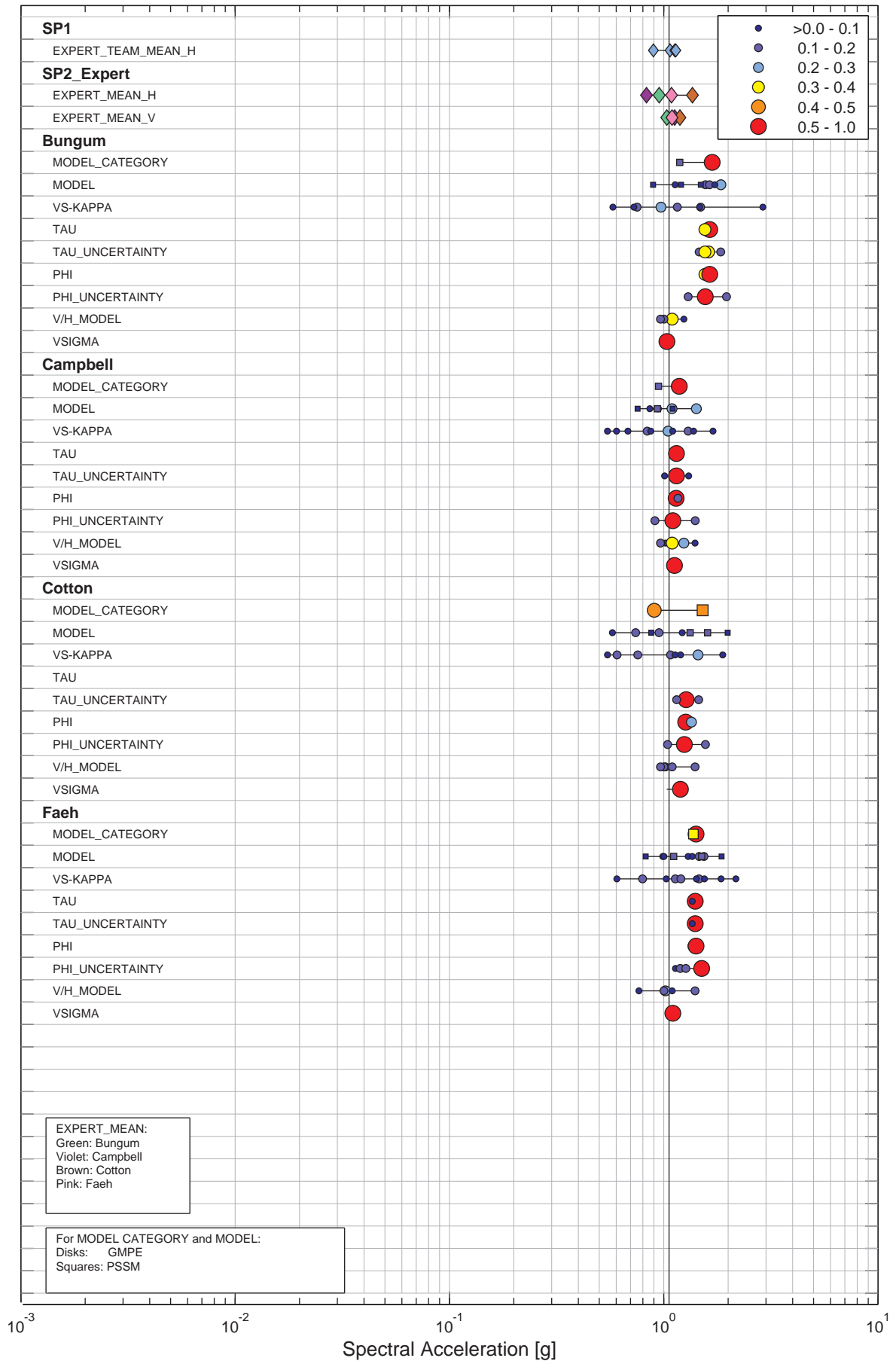


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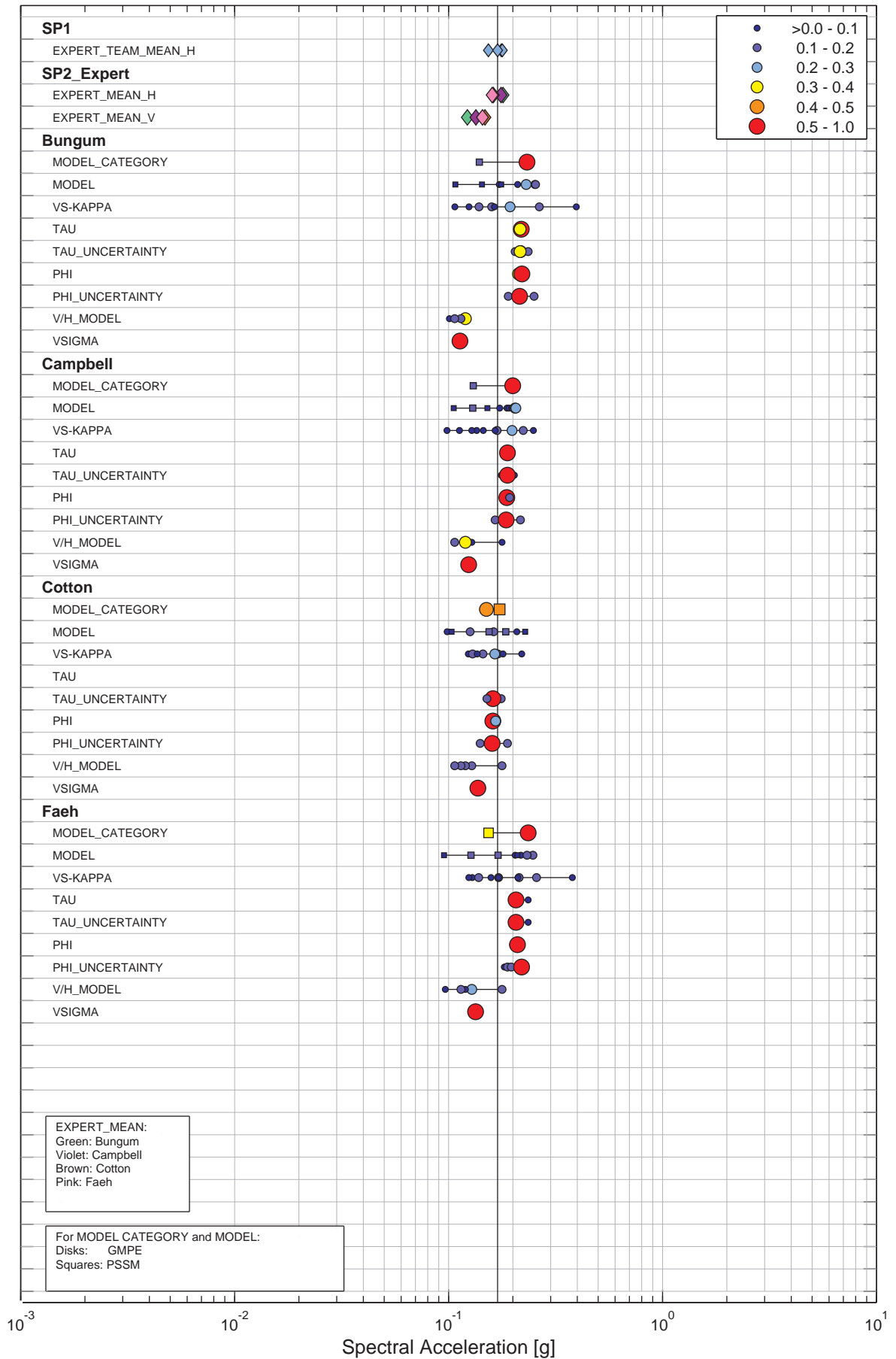


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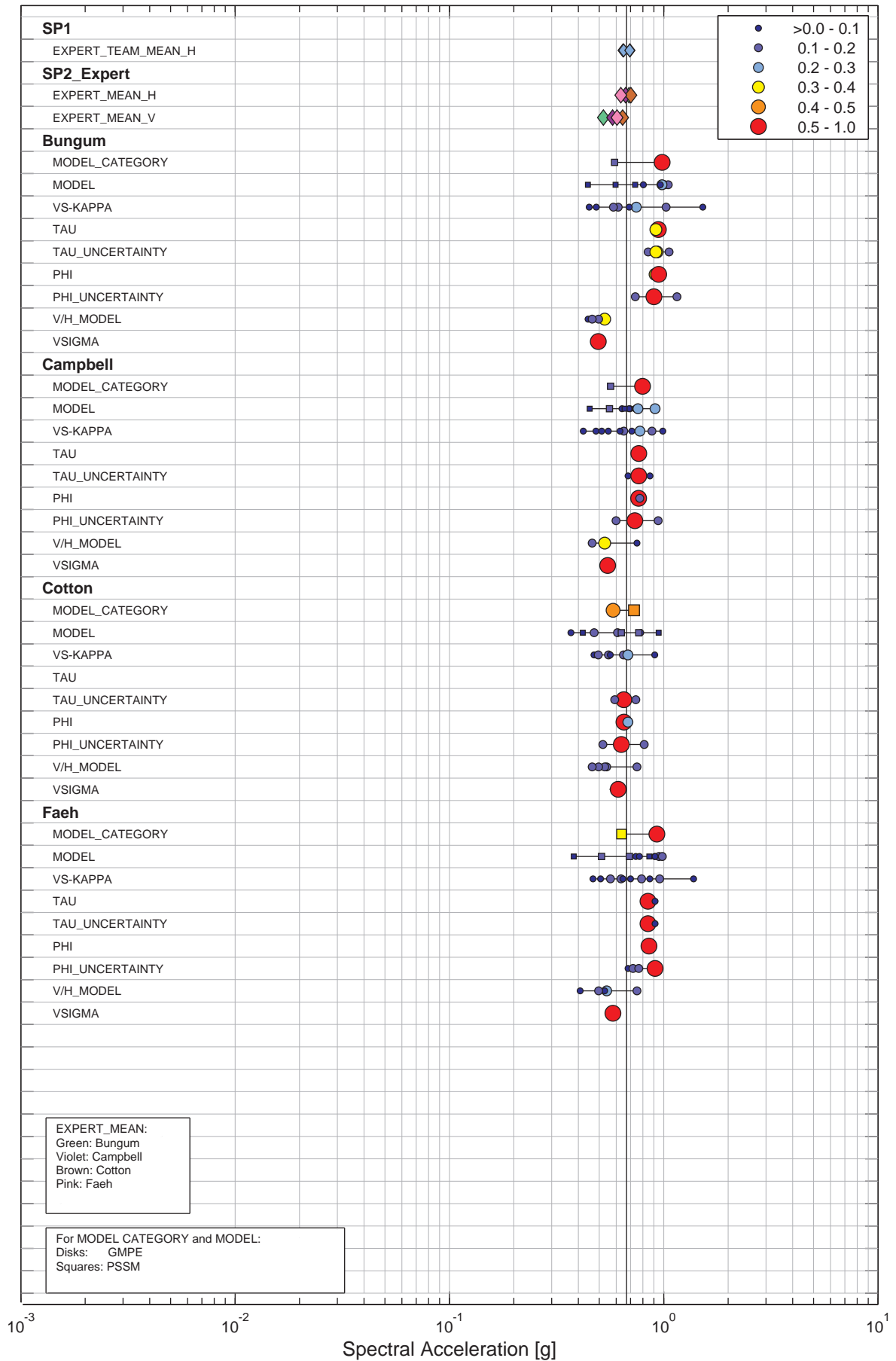


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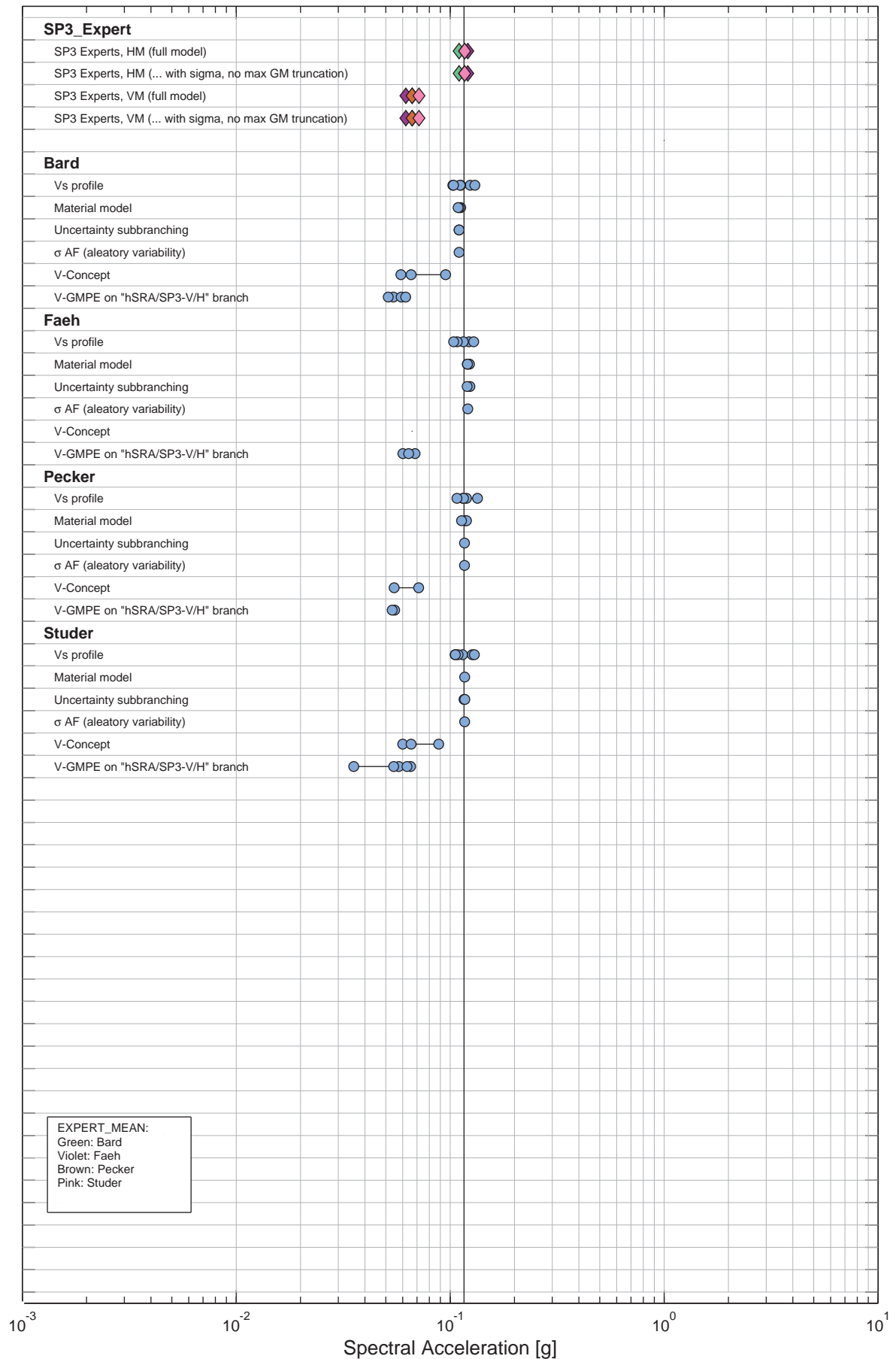


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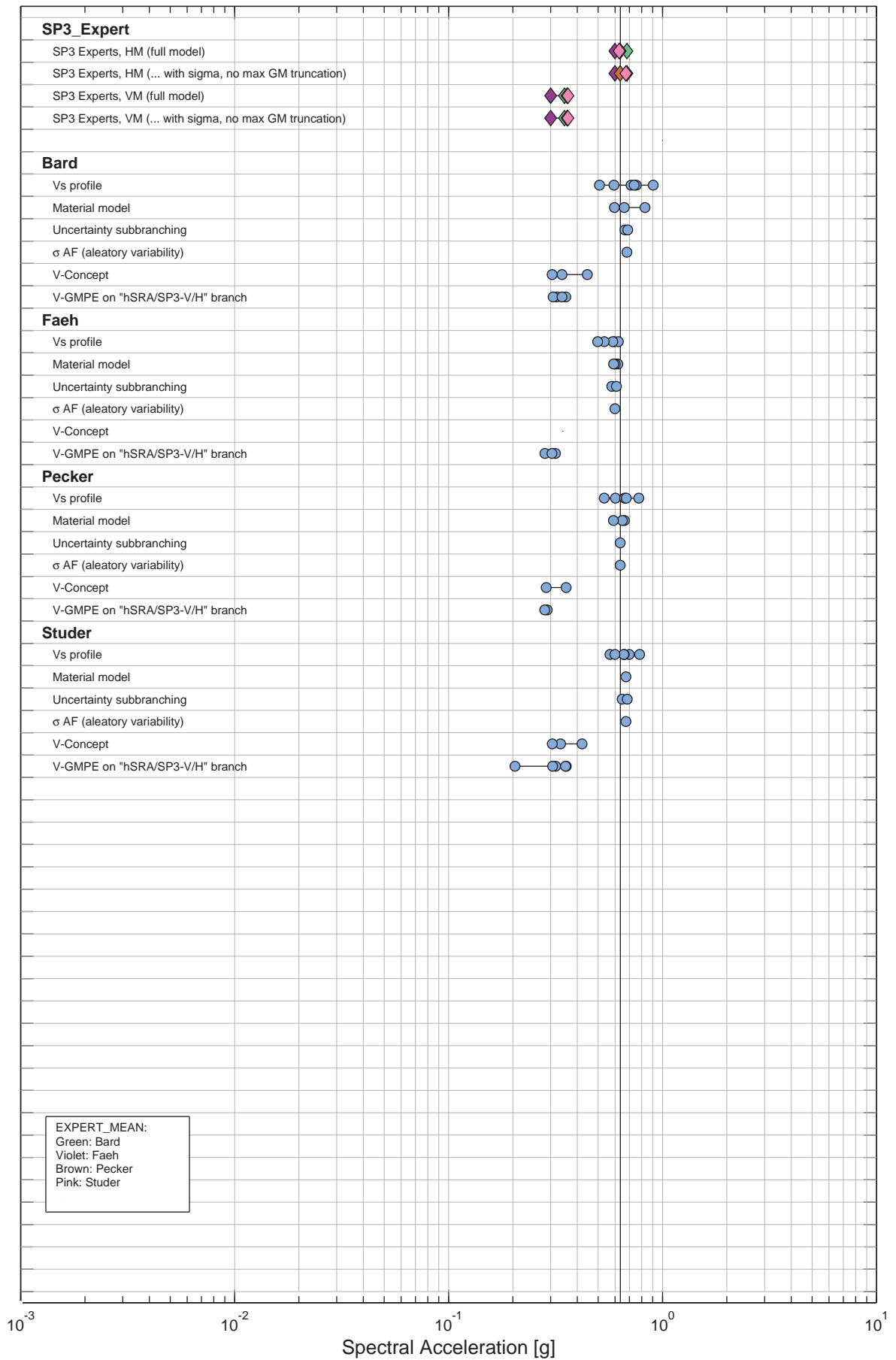


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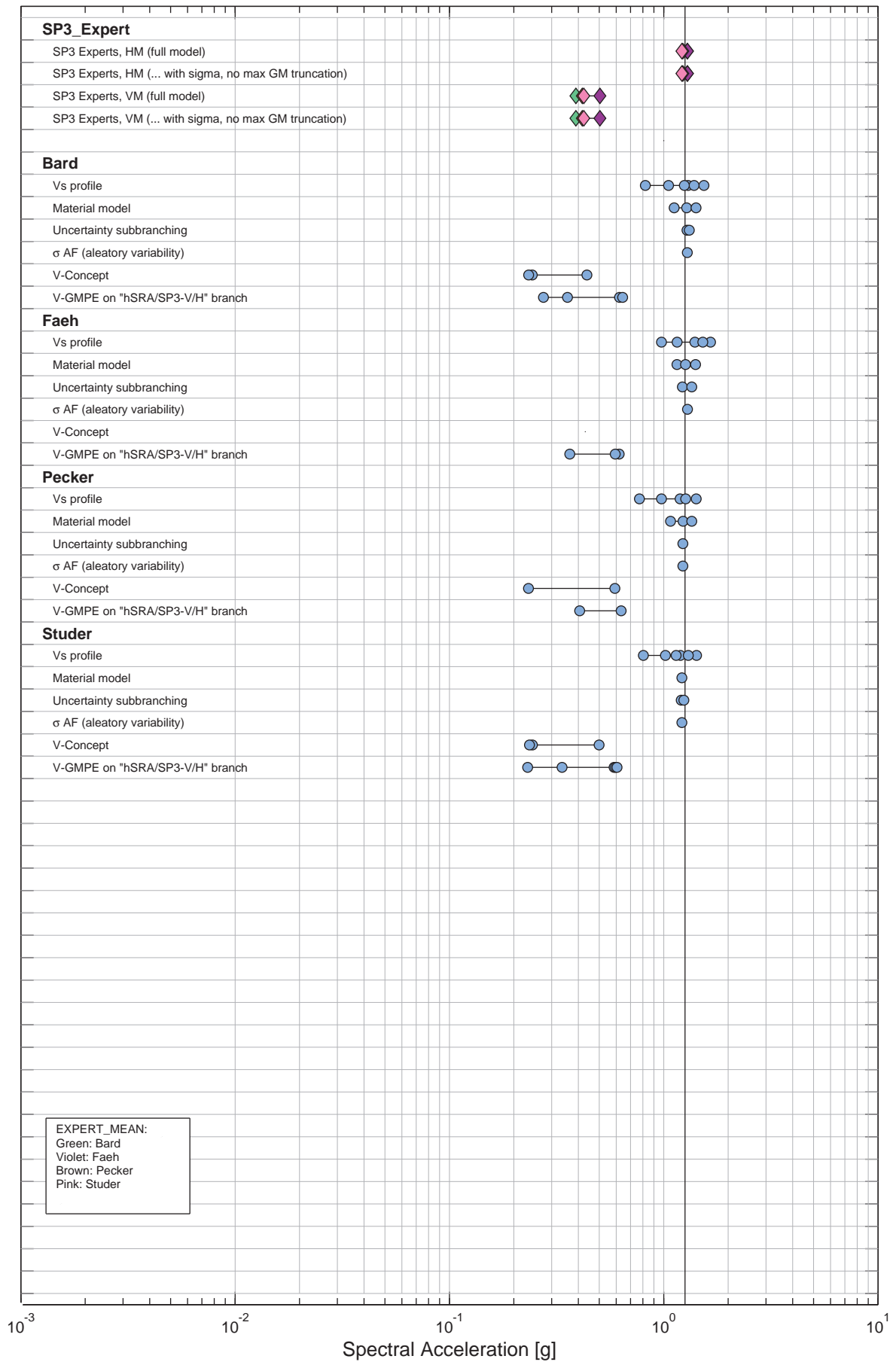


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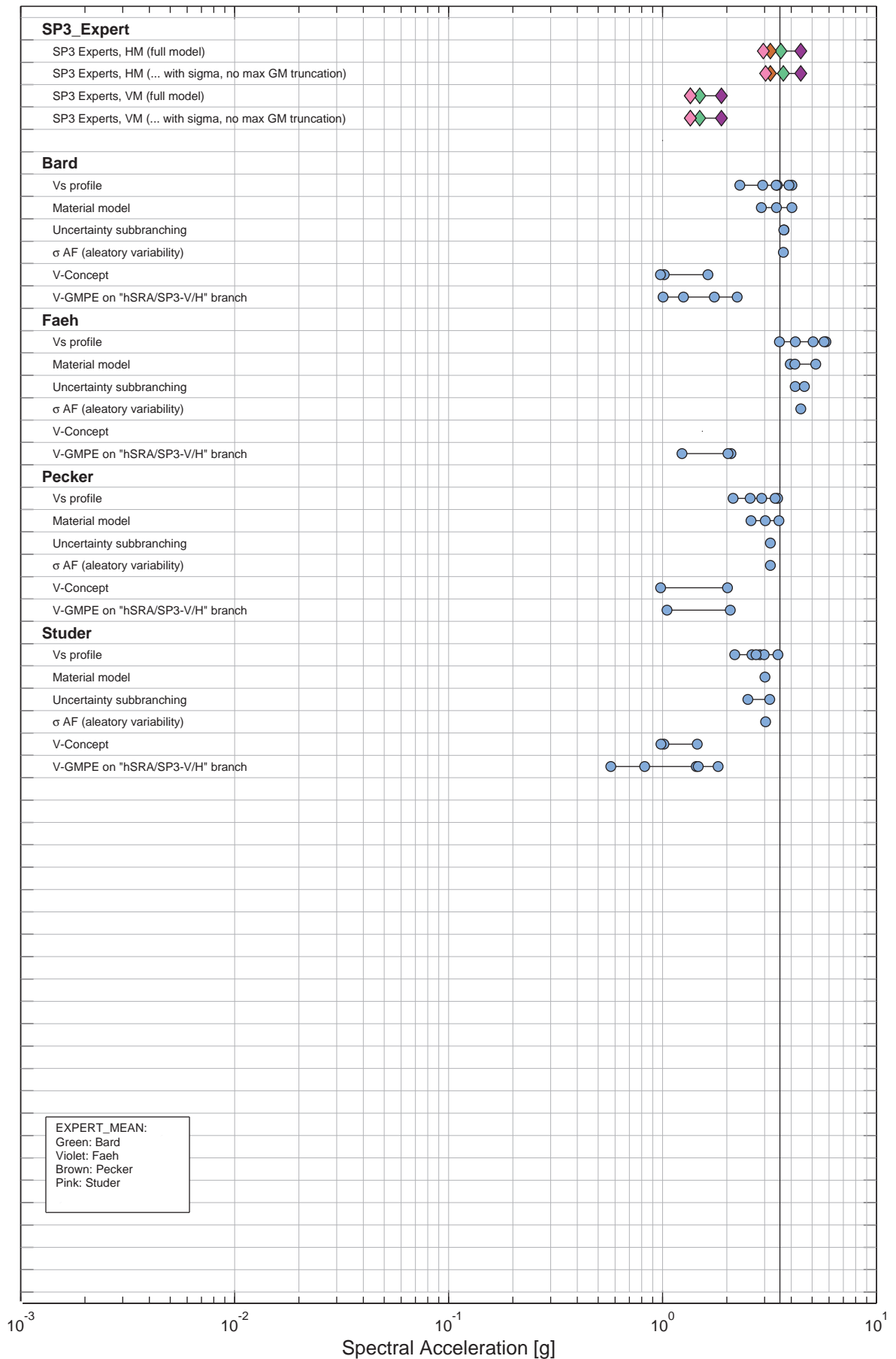


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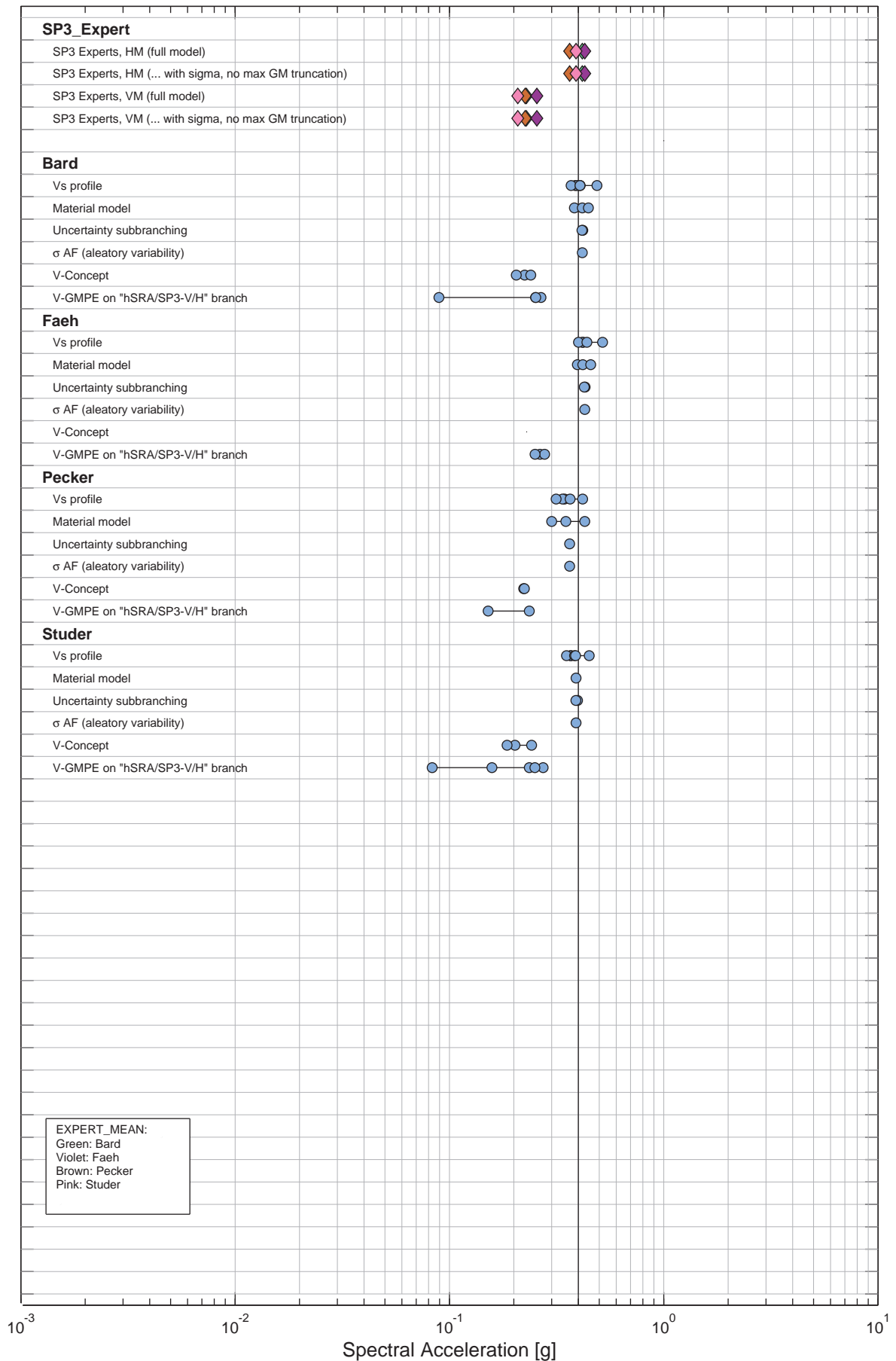


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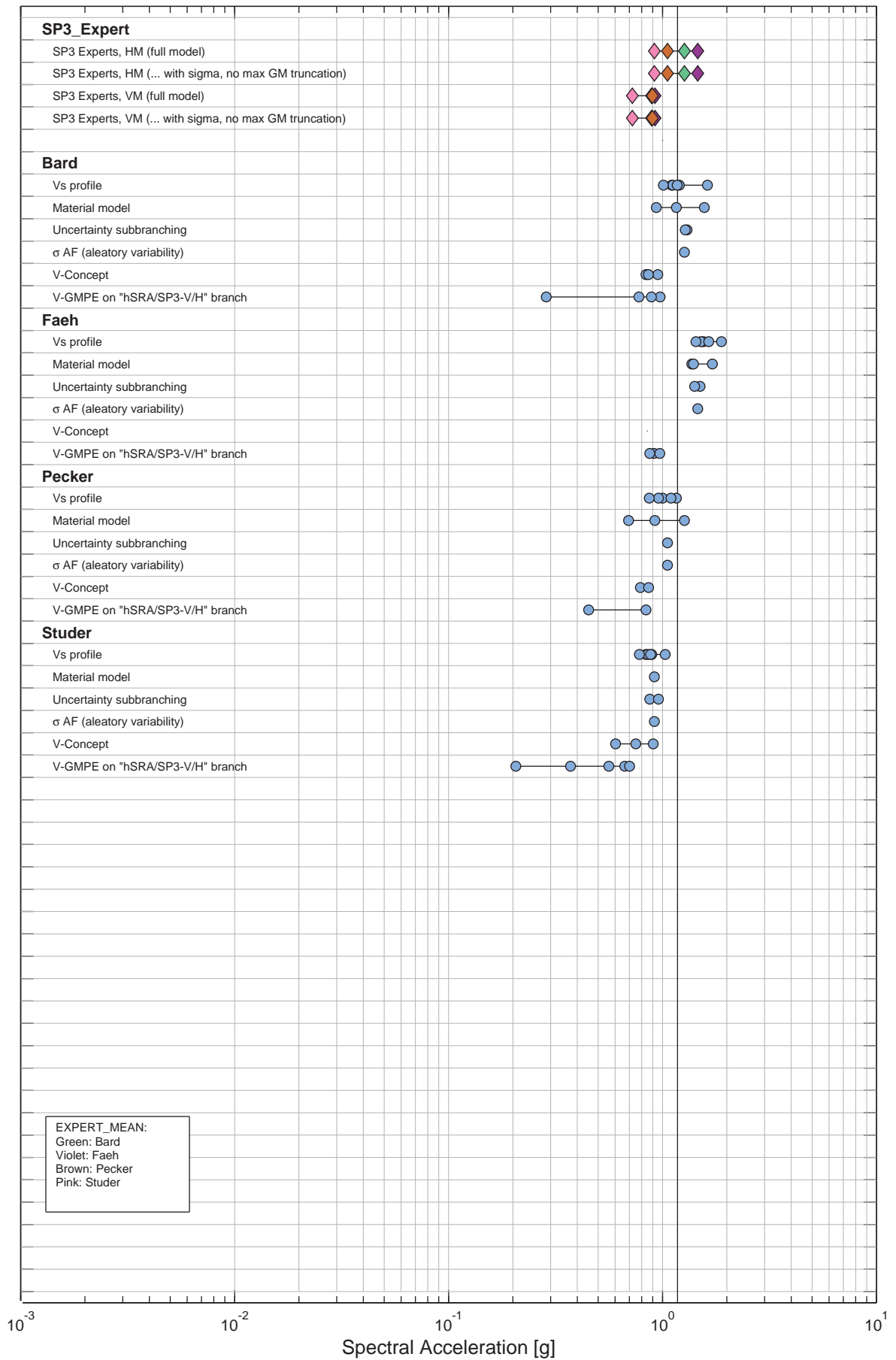


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Chapter 4

LEIBSTADT

4.1 Leibstadt, Rock Hazard, Horizontal Component

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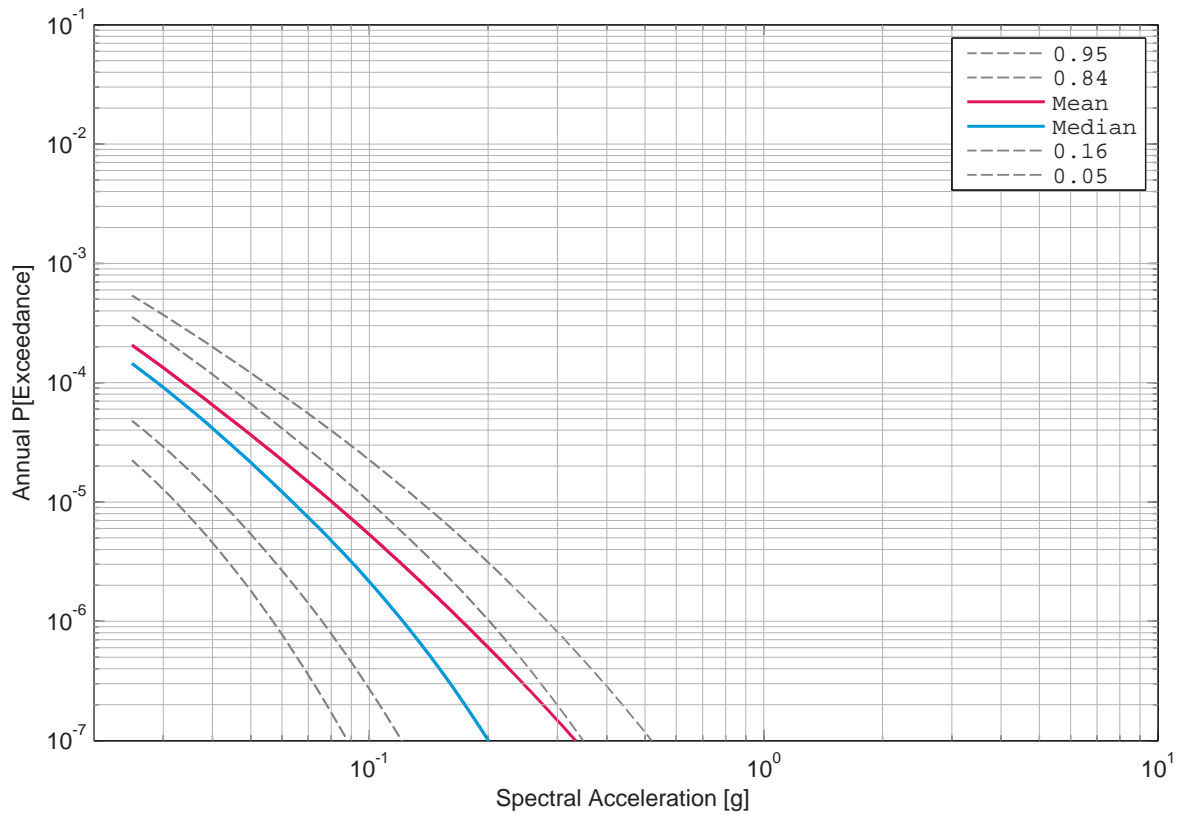


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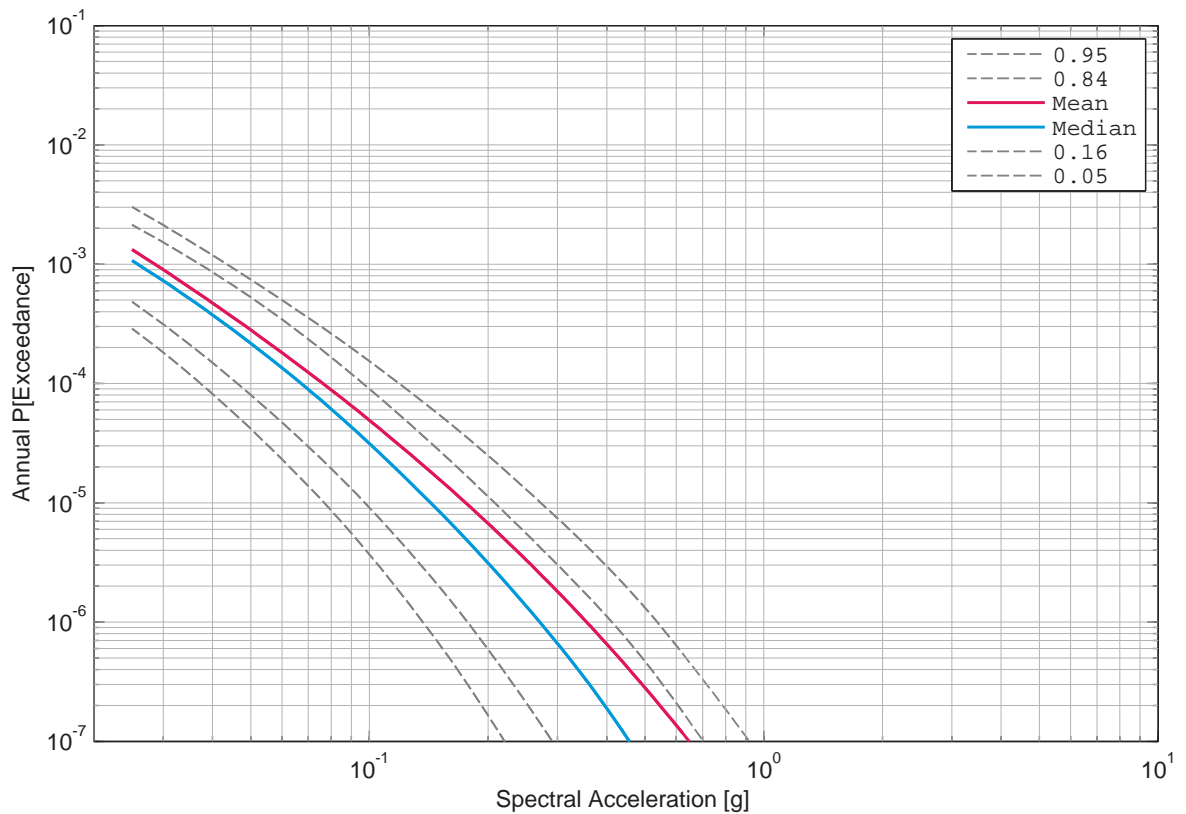


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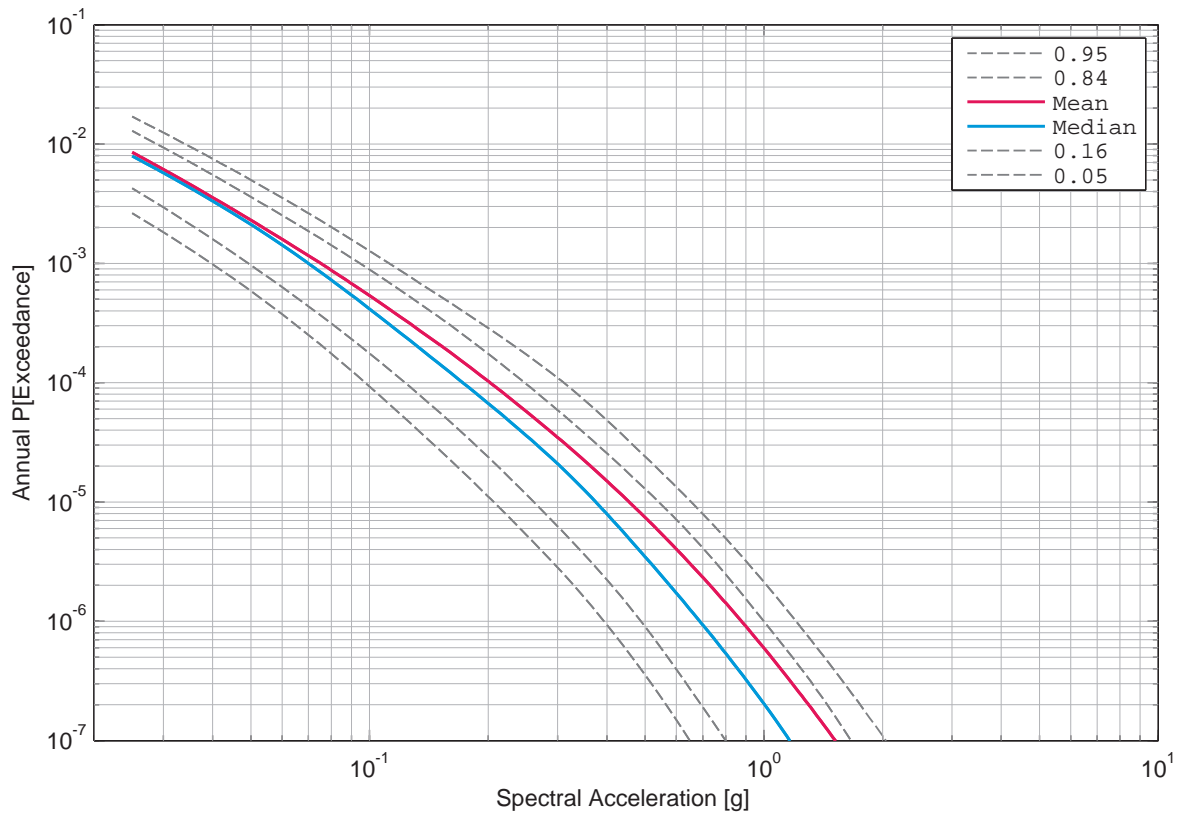


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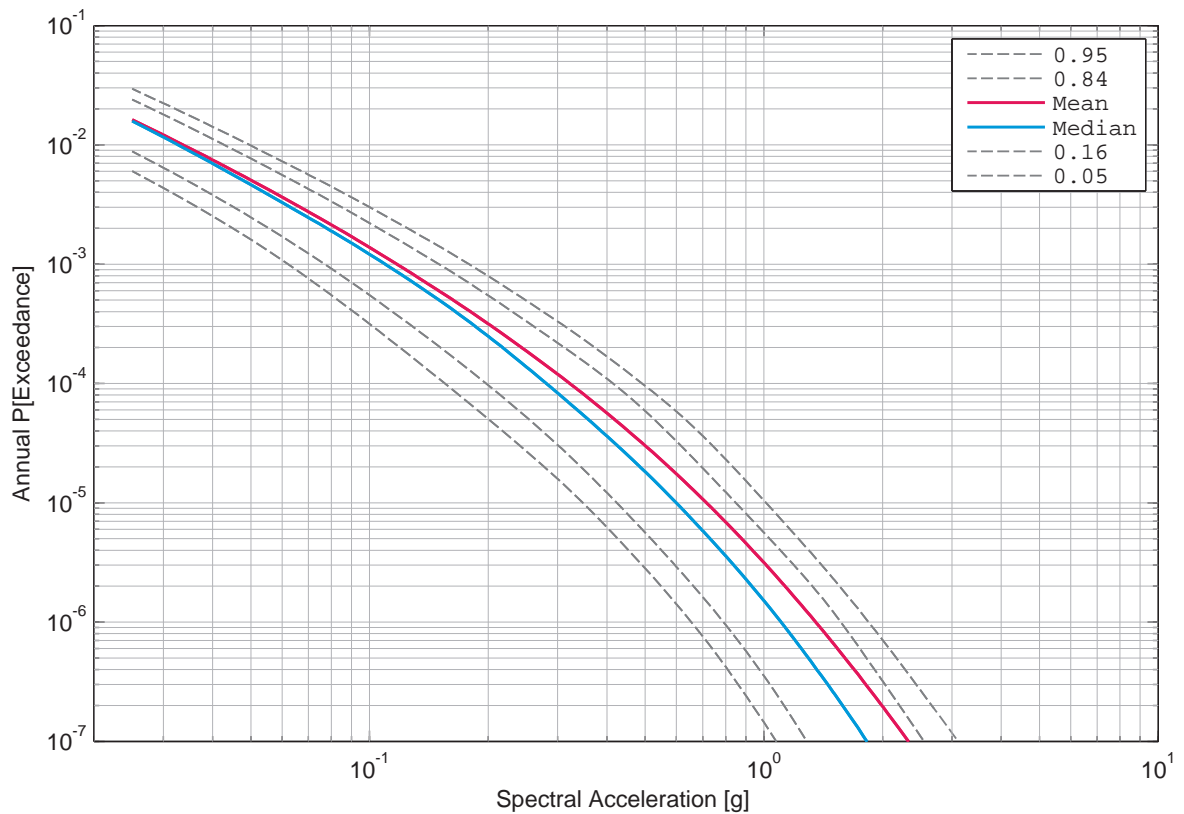


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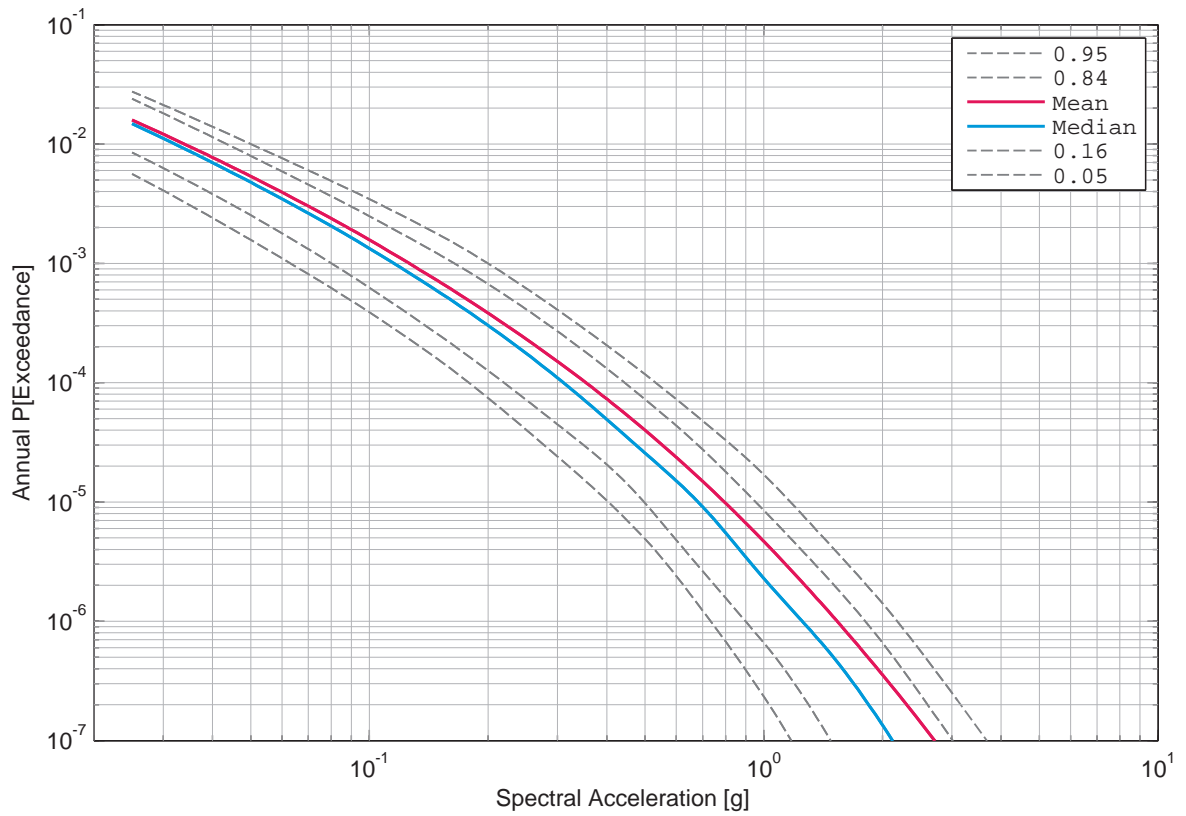


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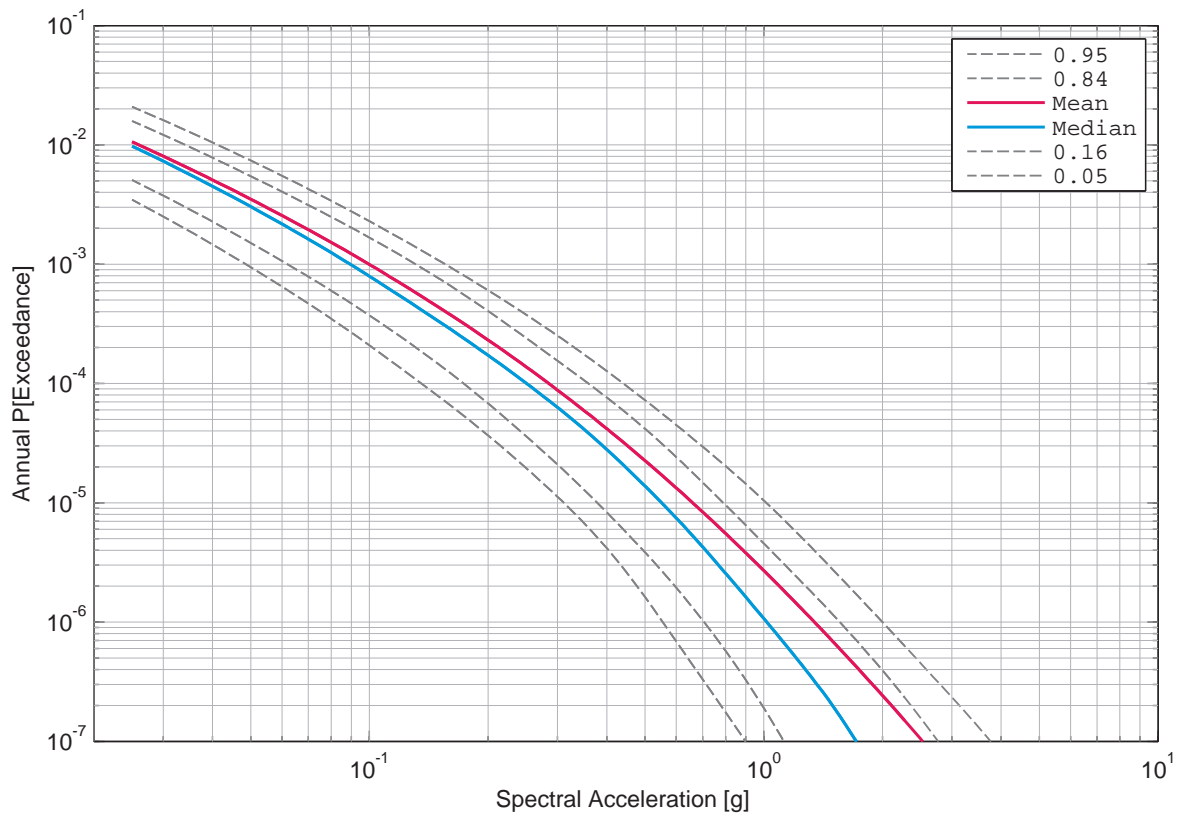


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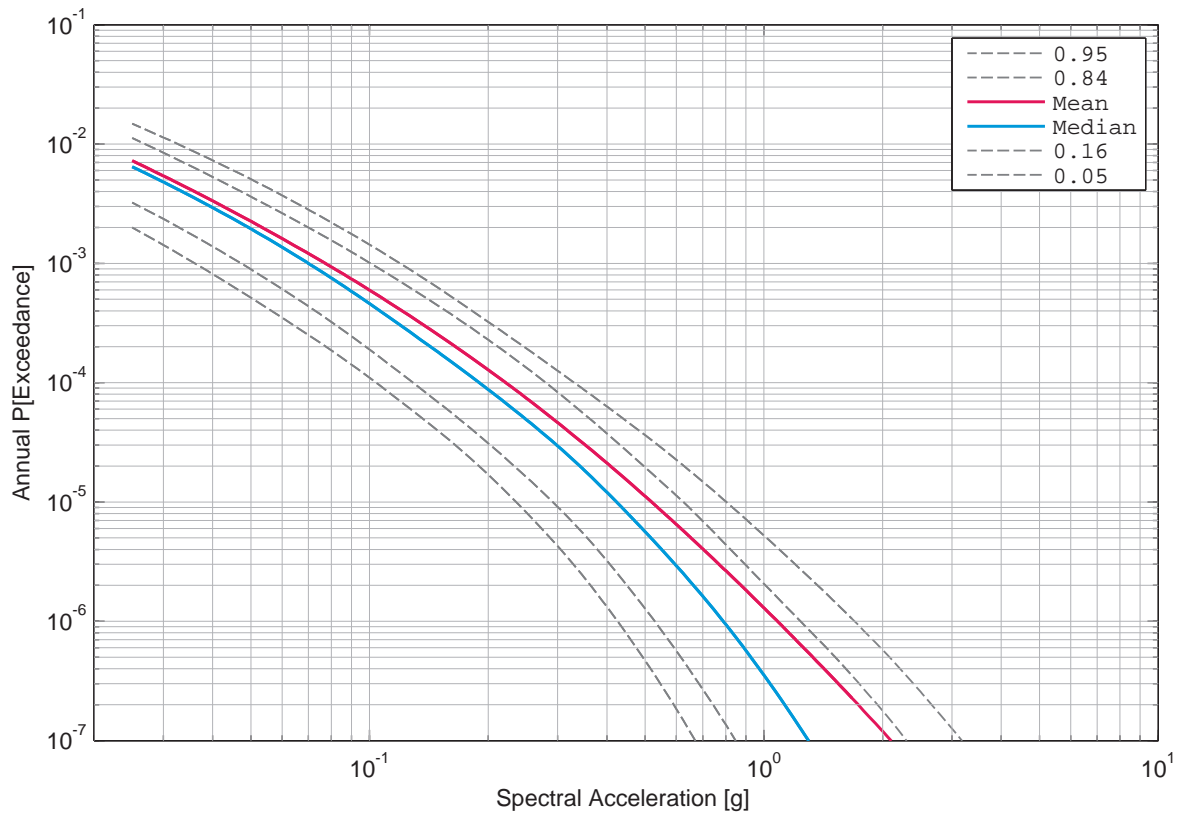


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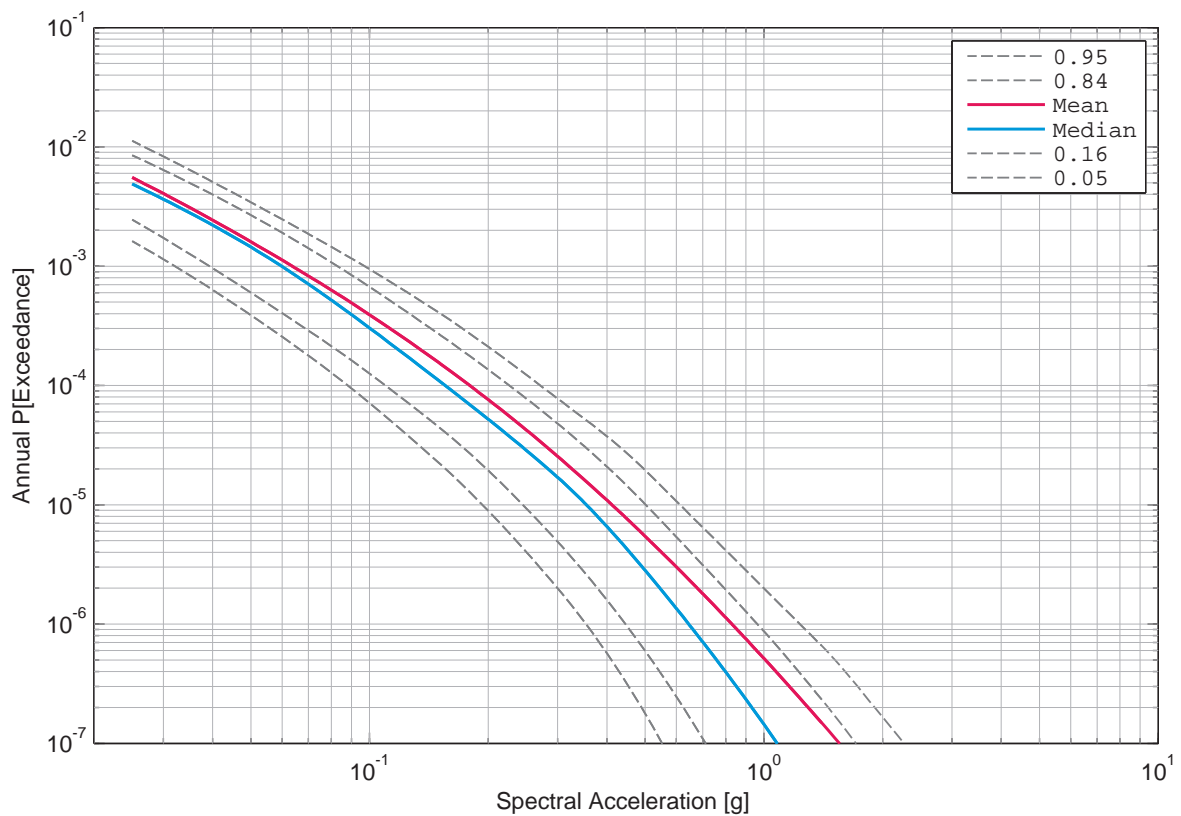


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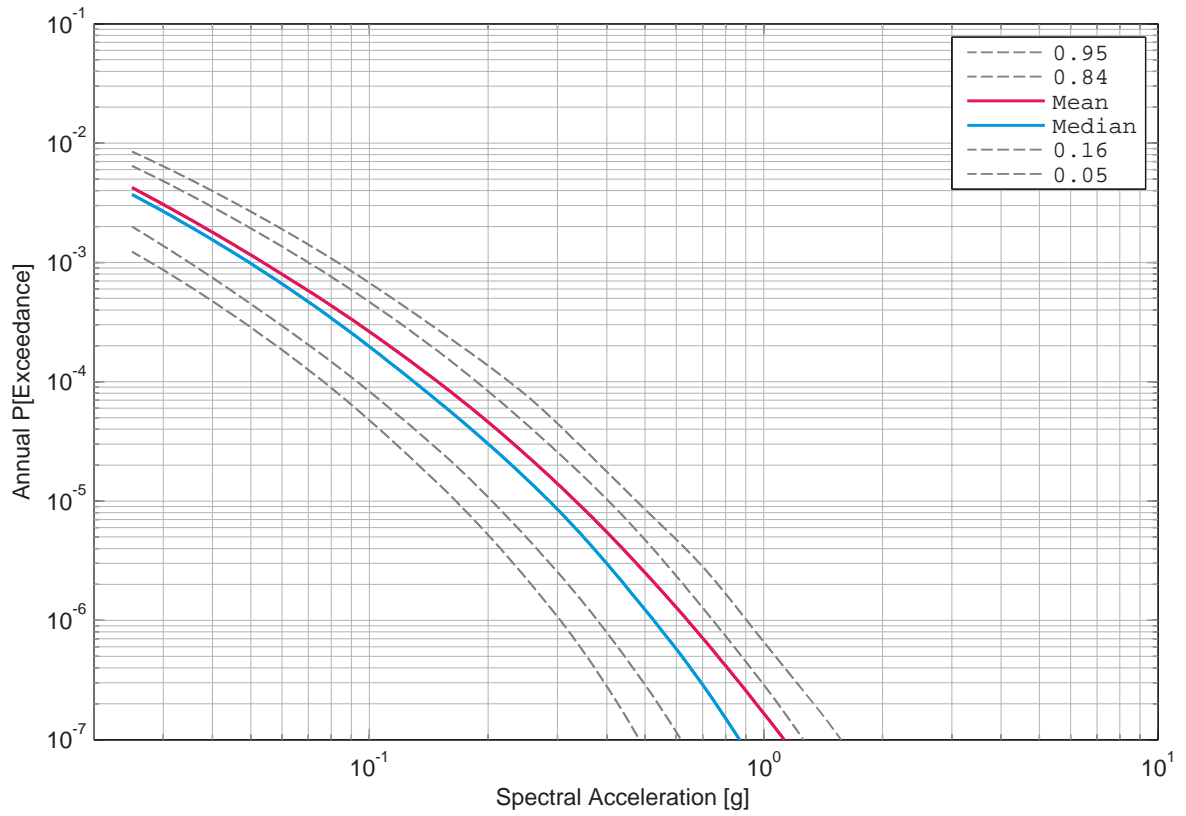


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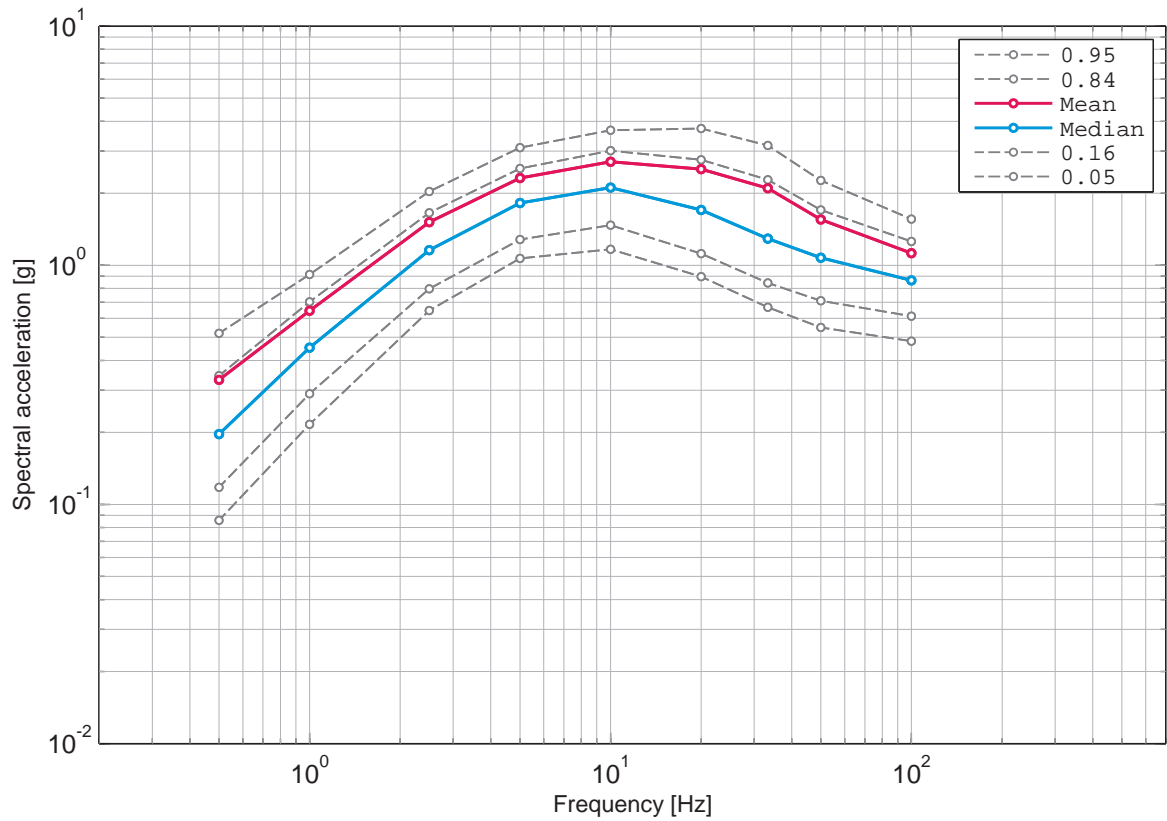


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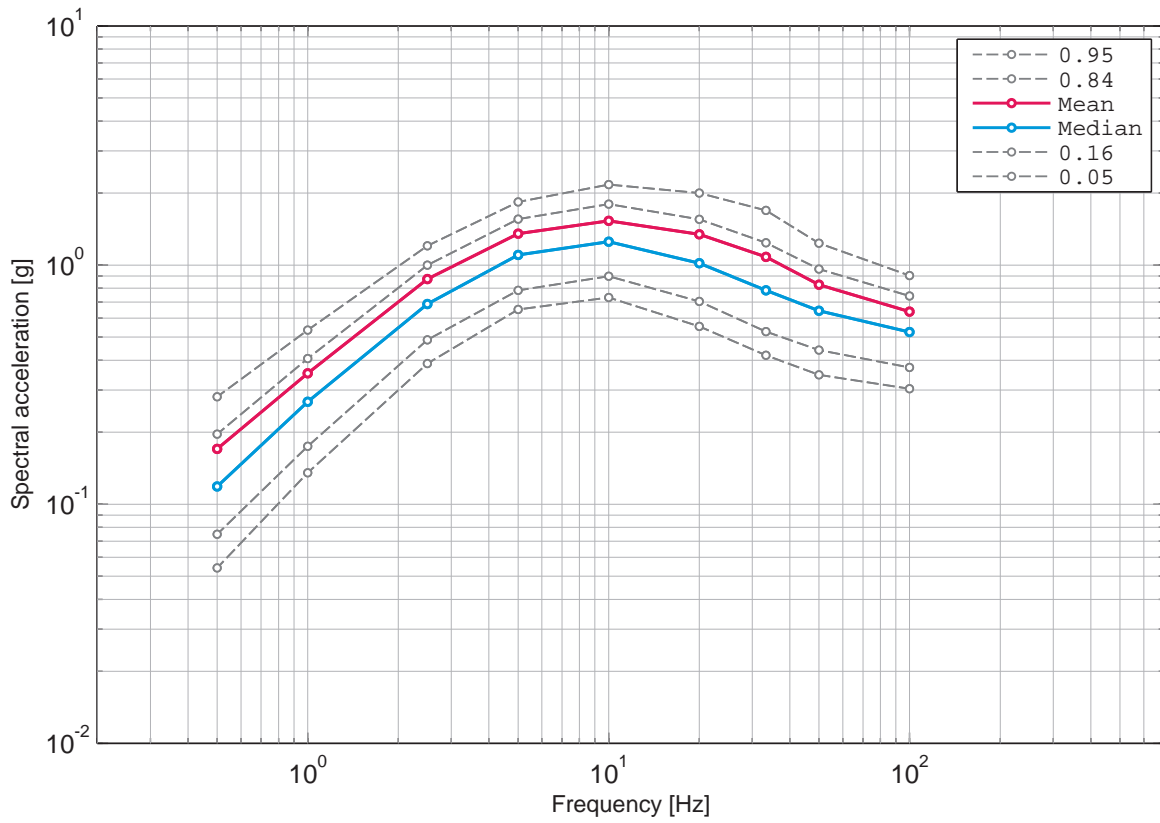


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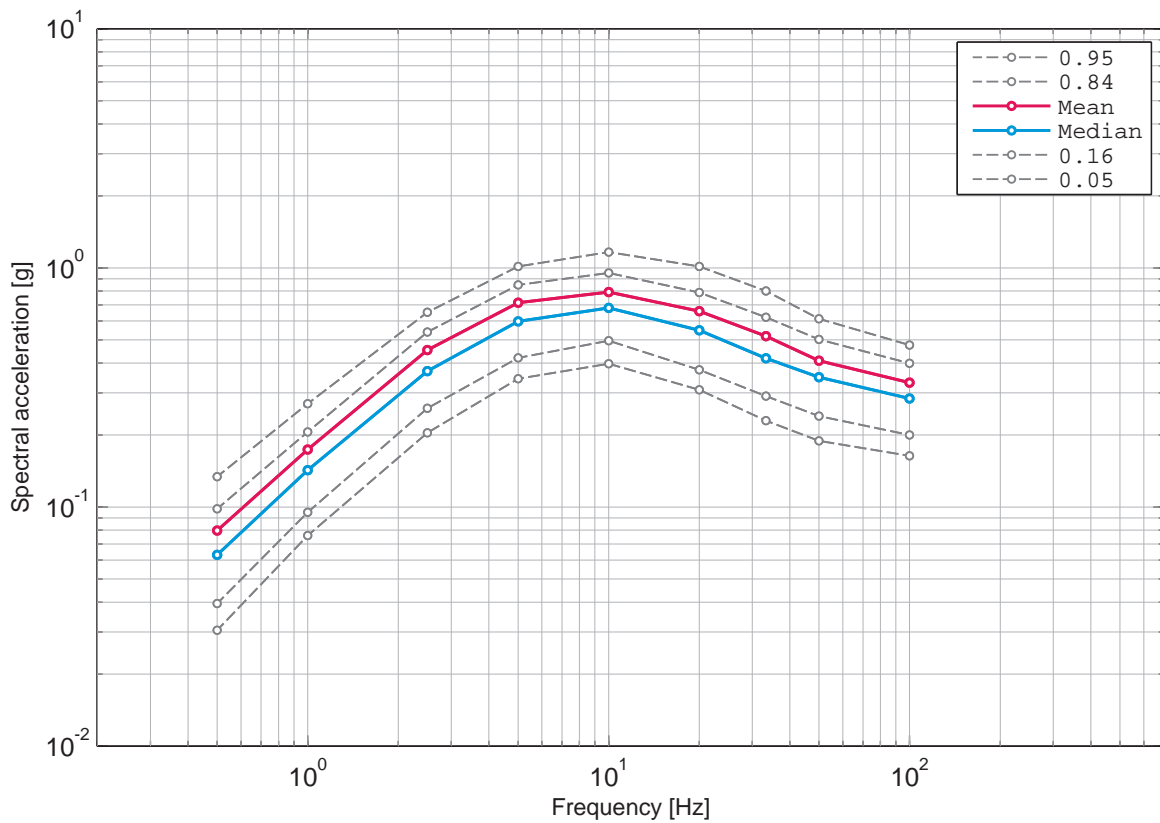


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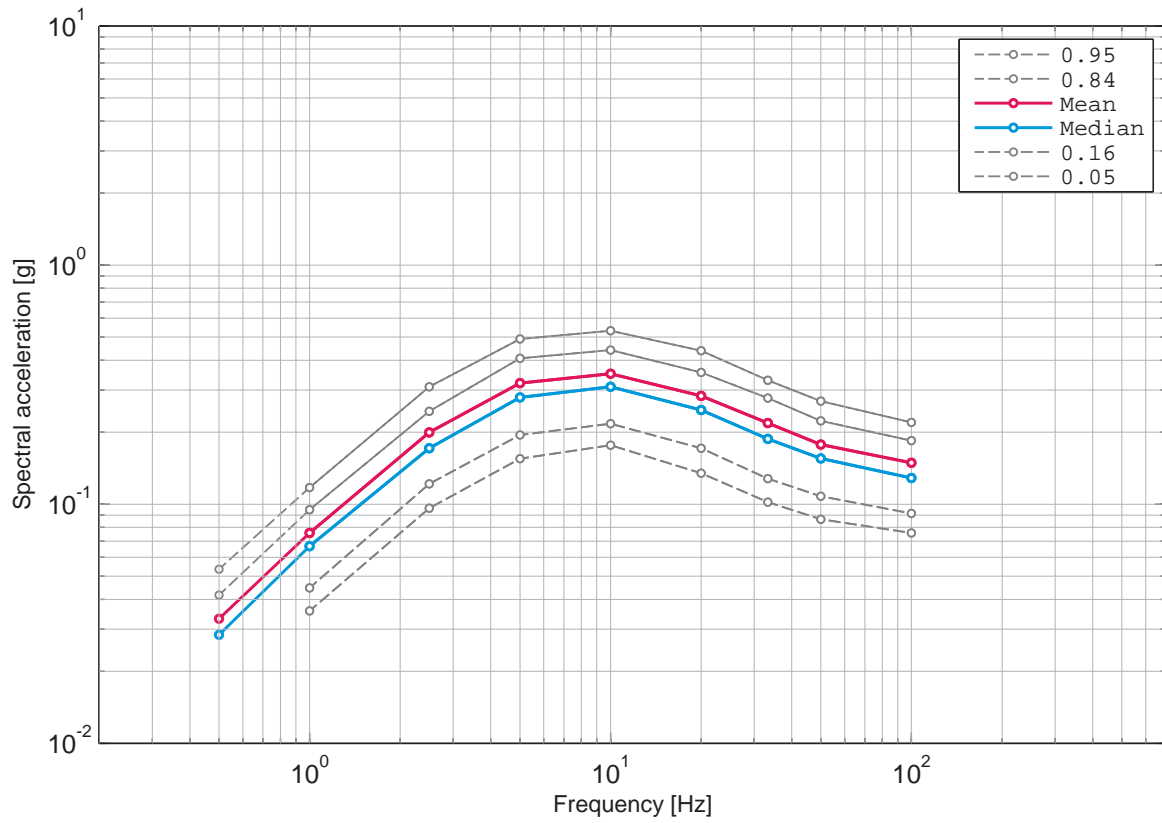


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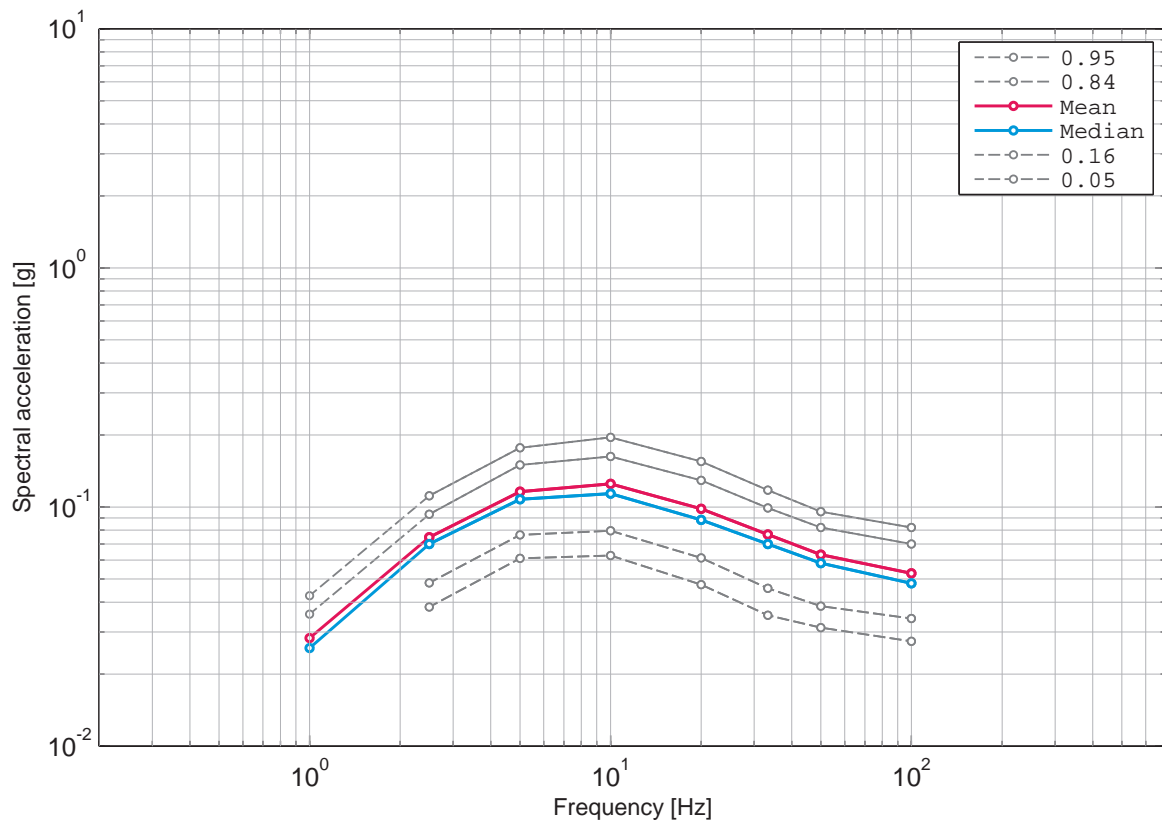


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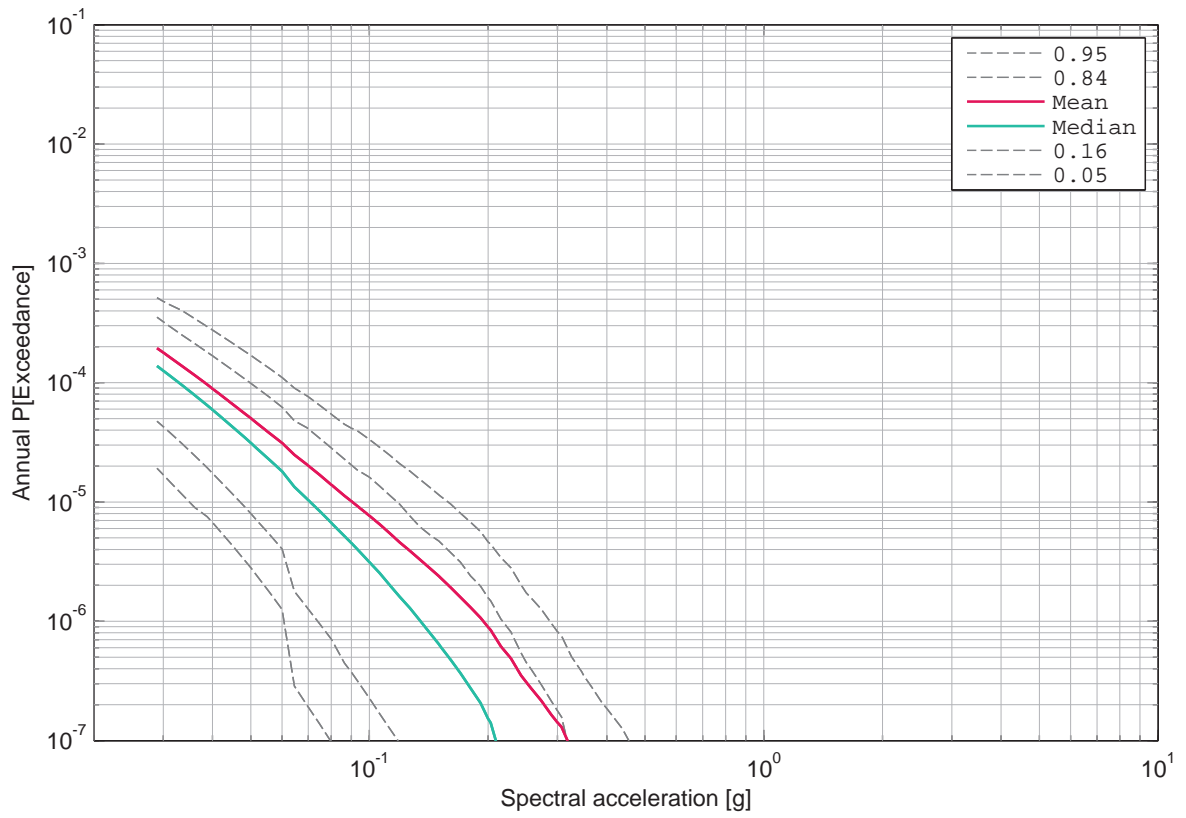


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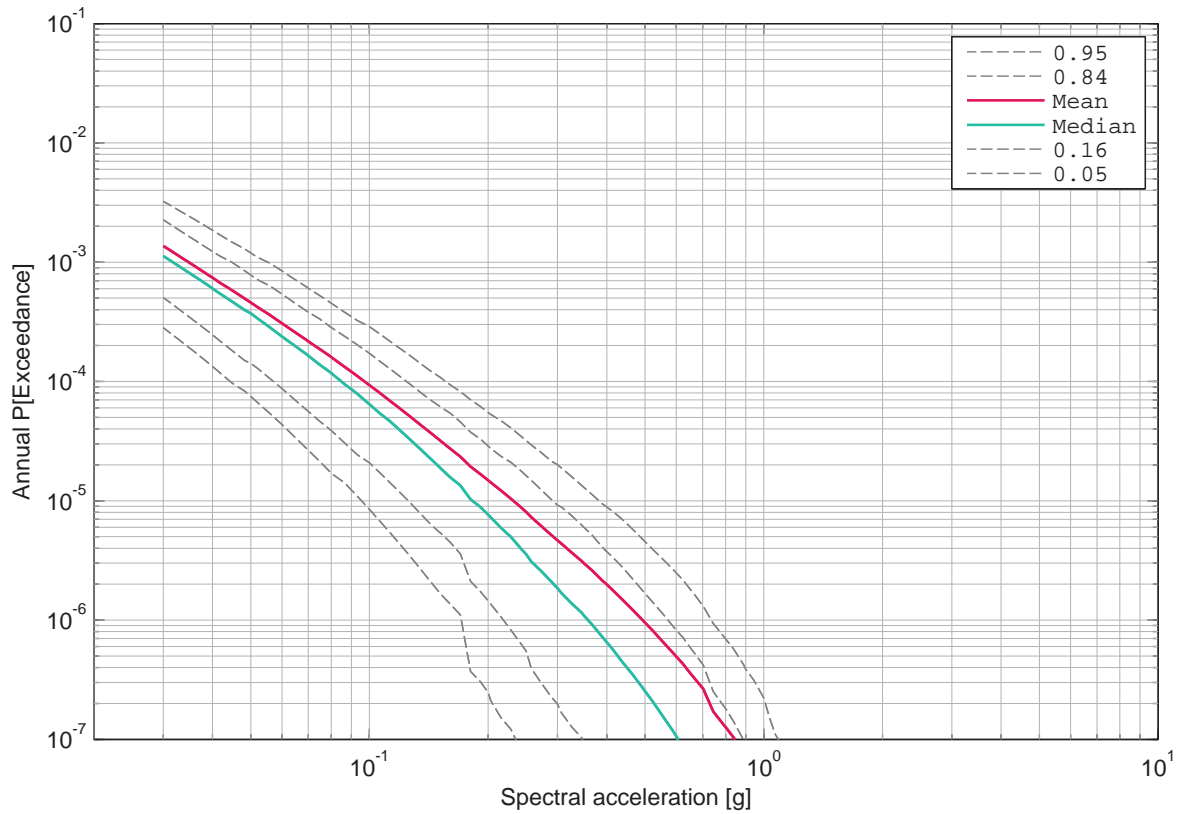


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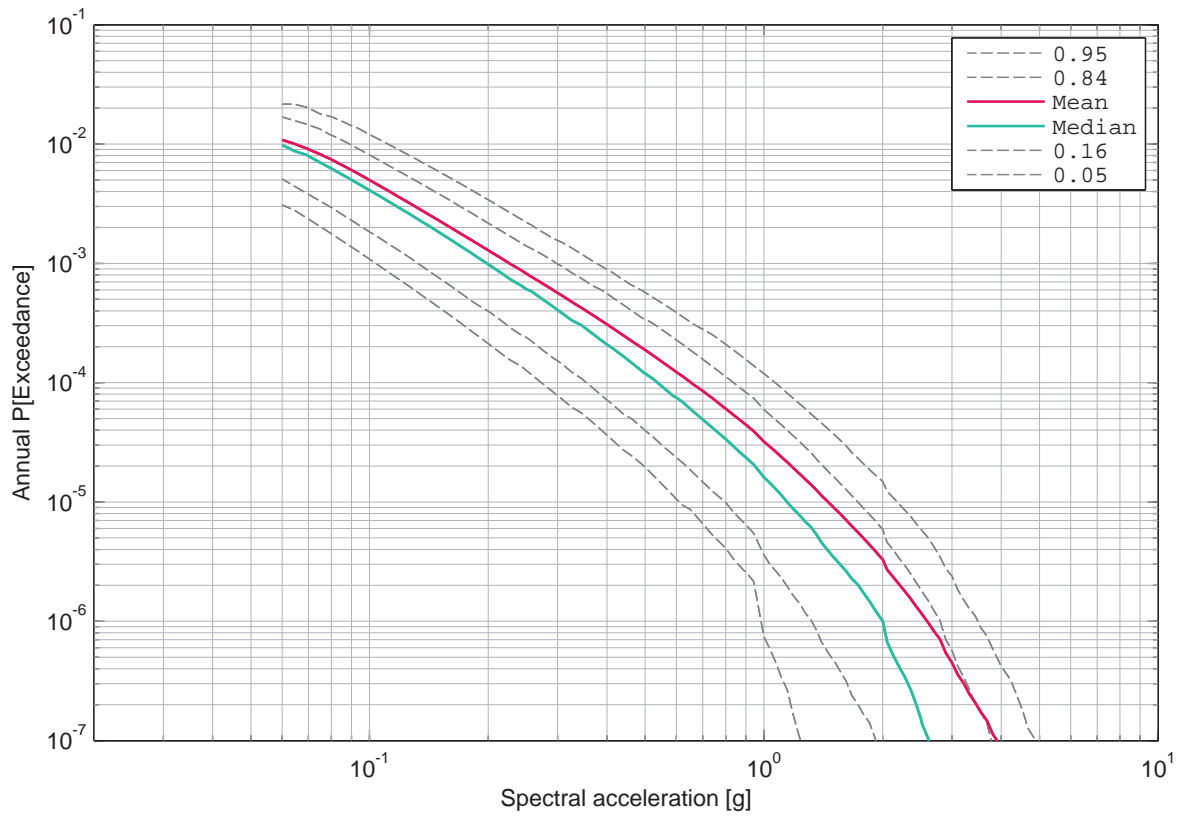


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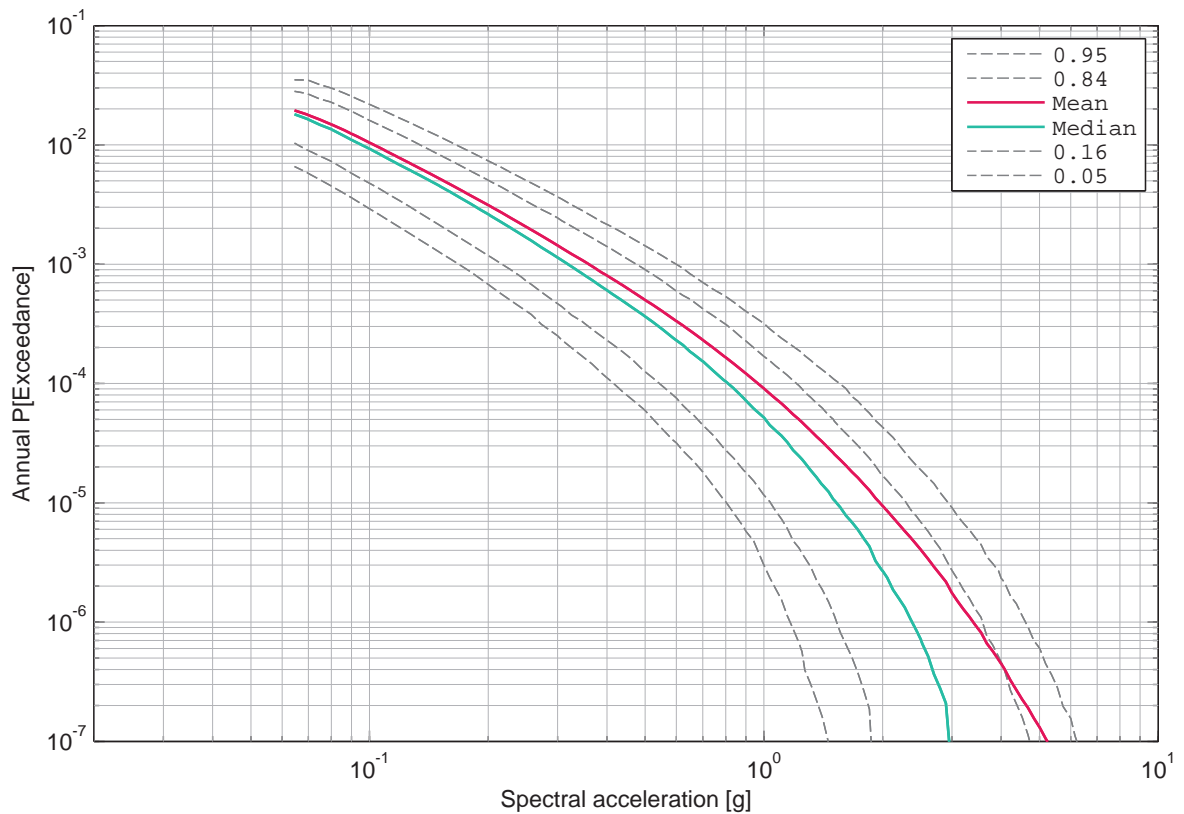


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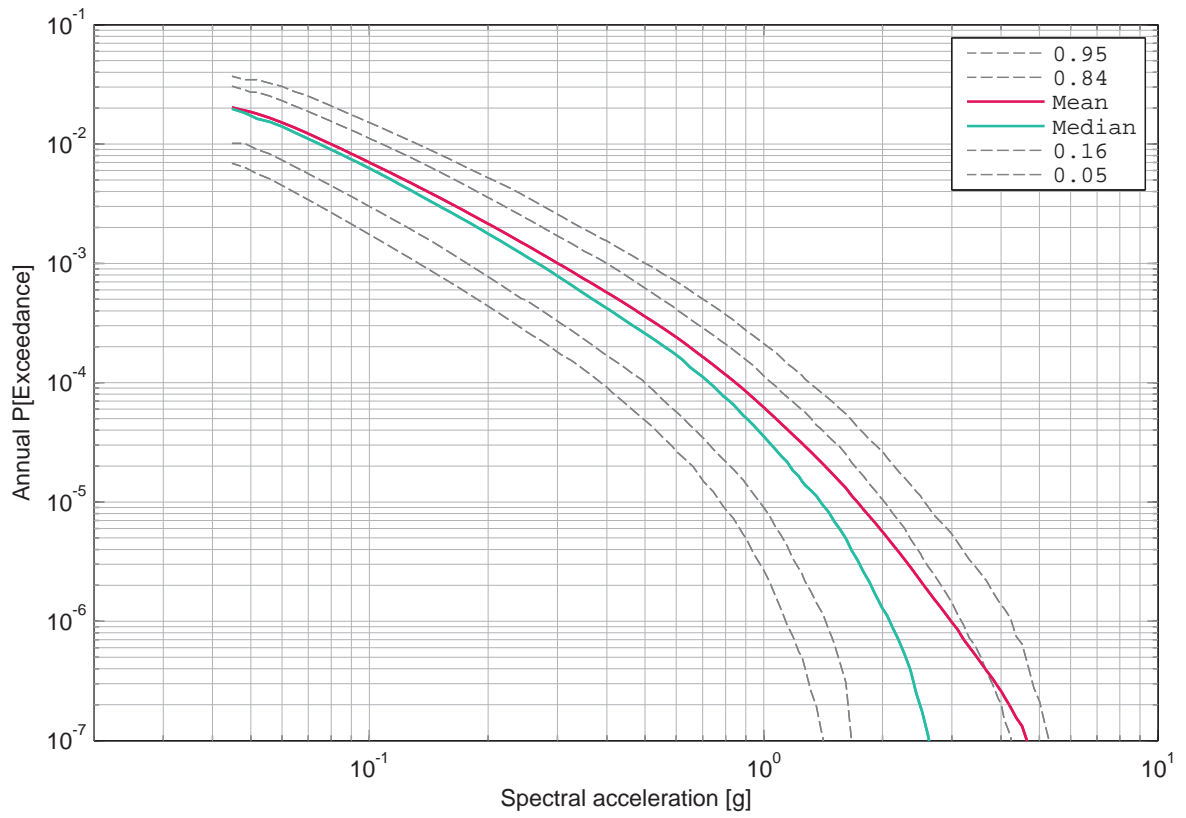


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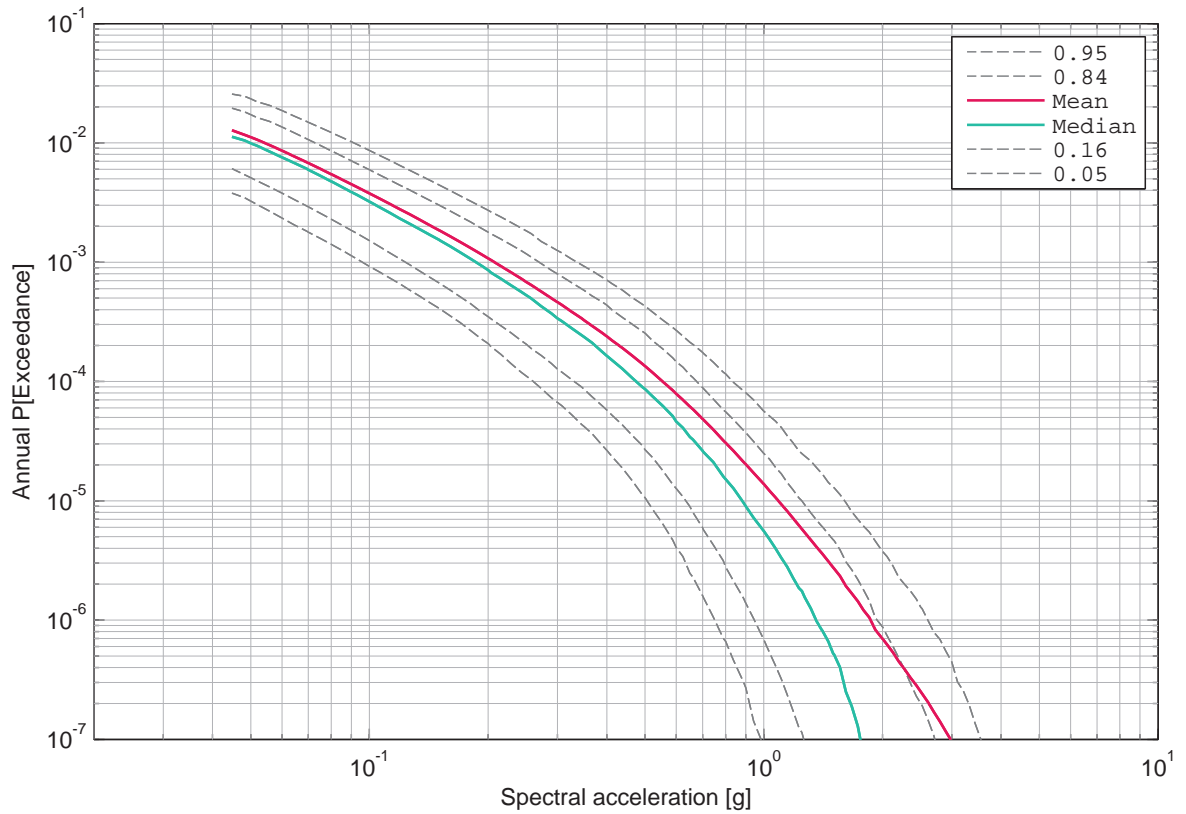


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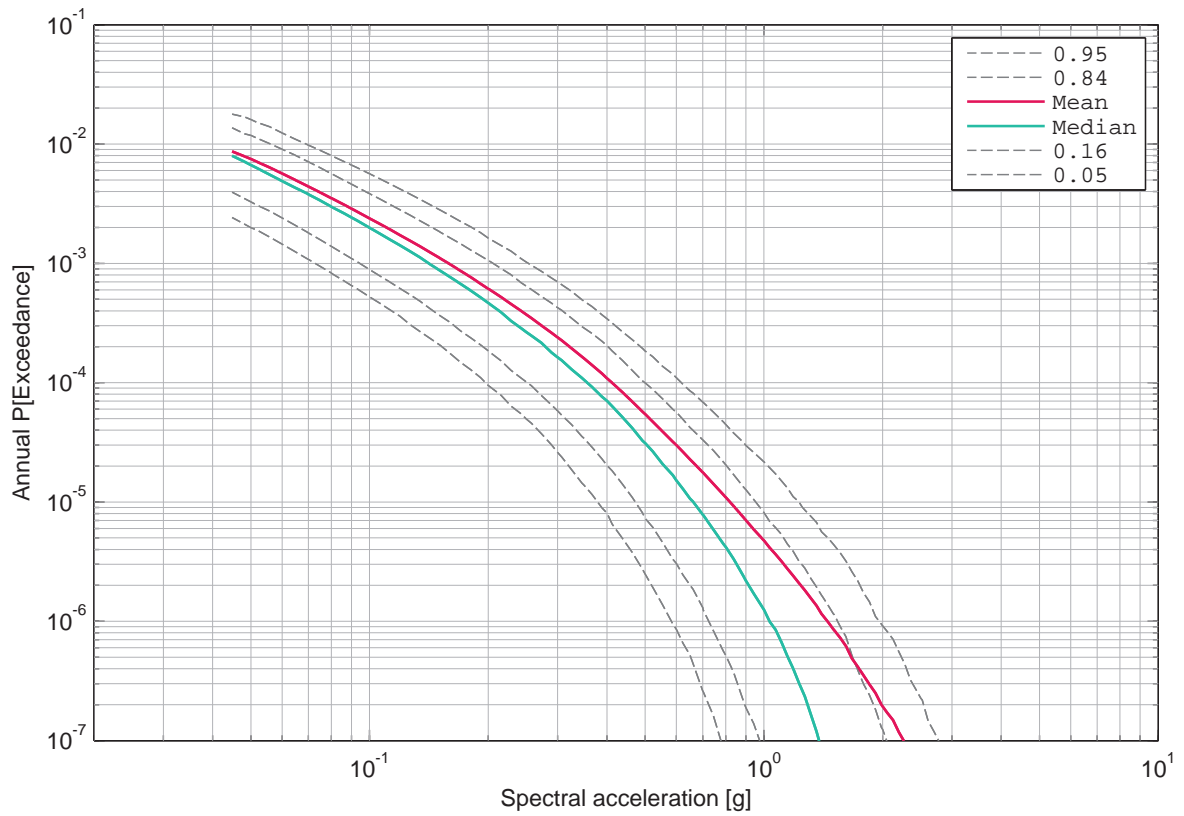


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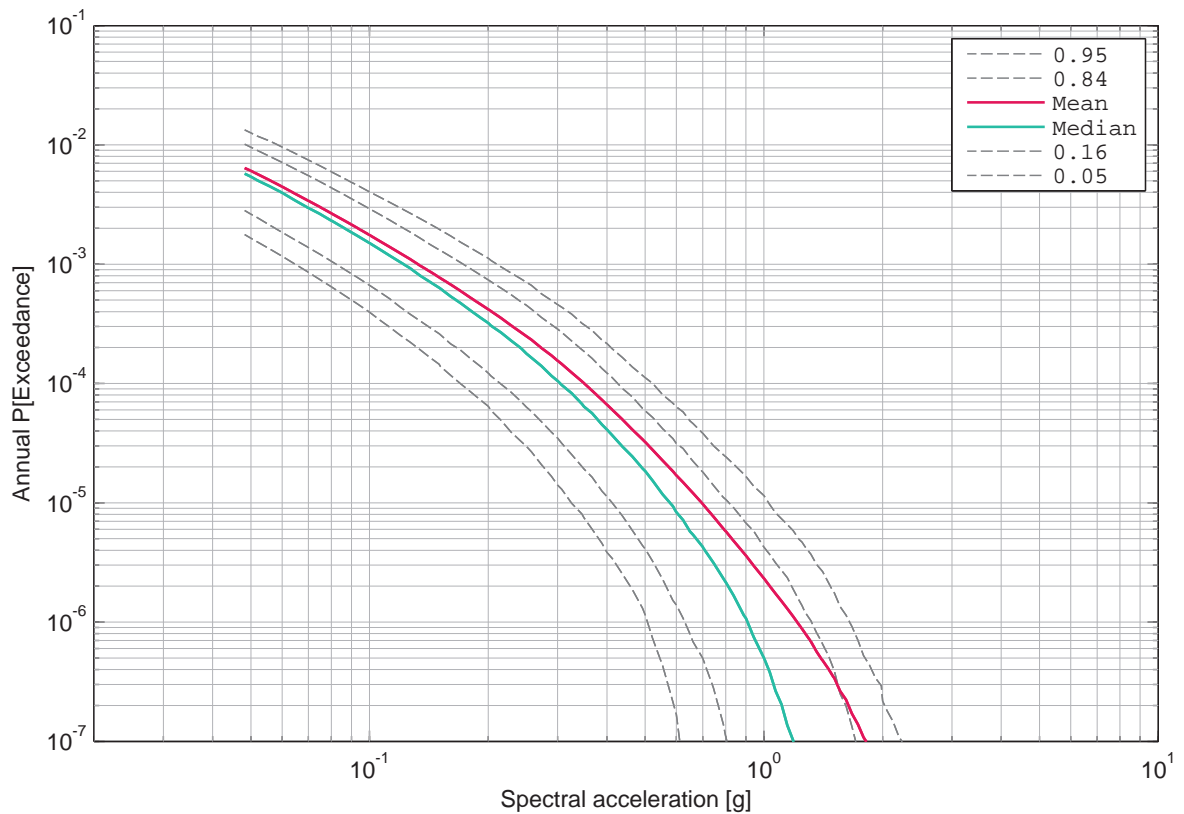


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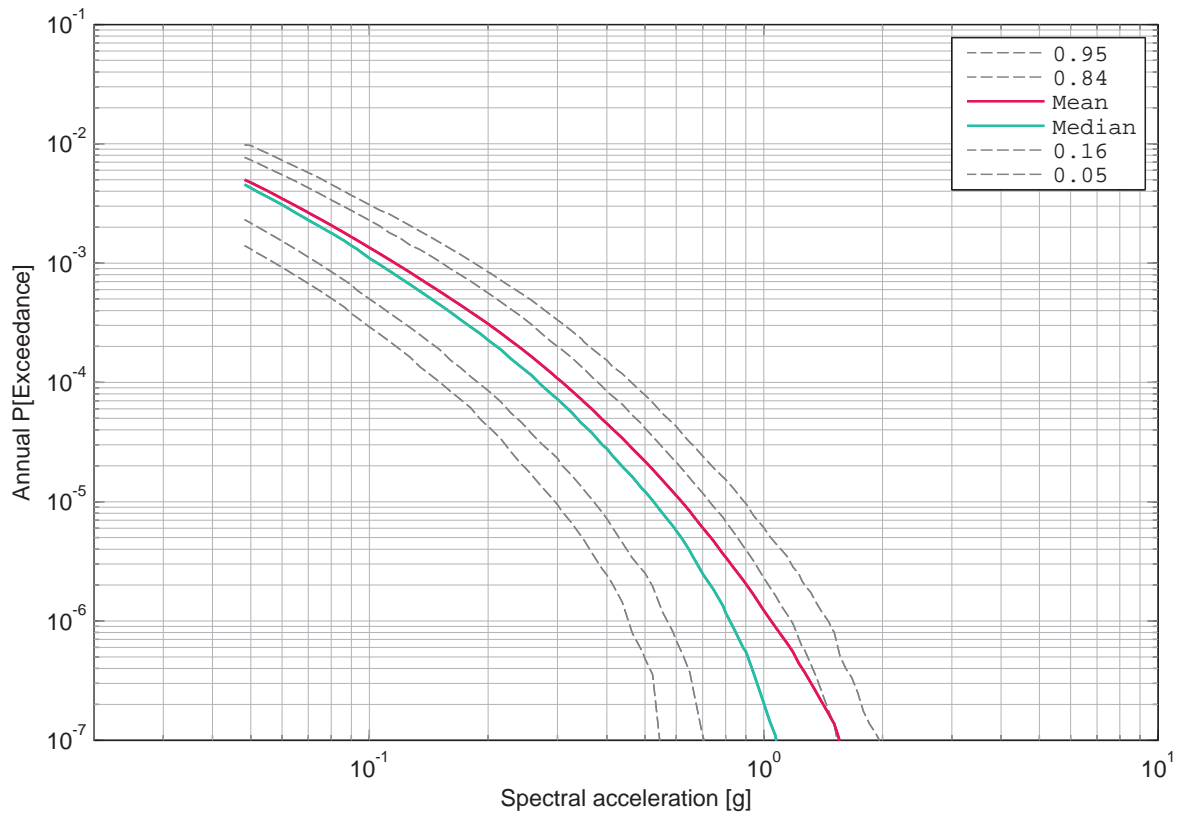


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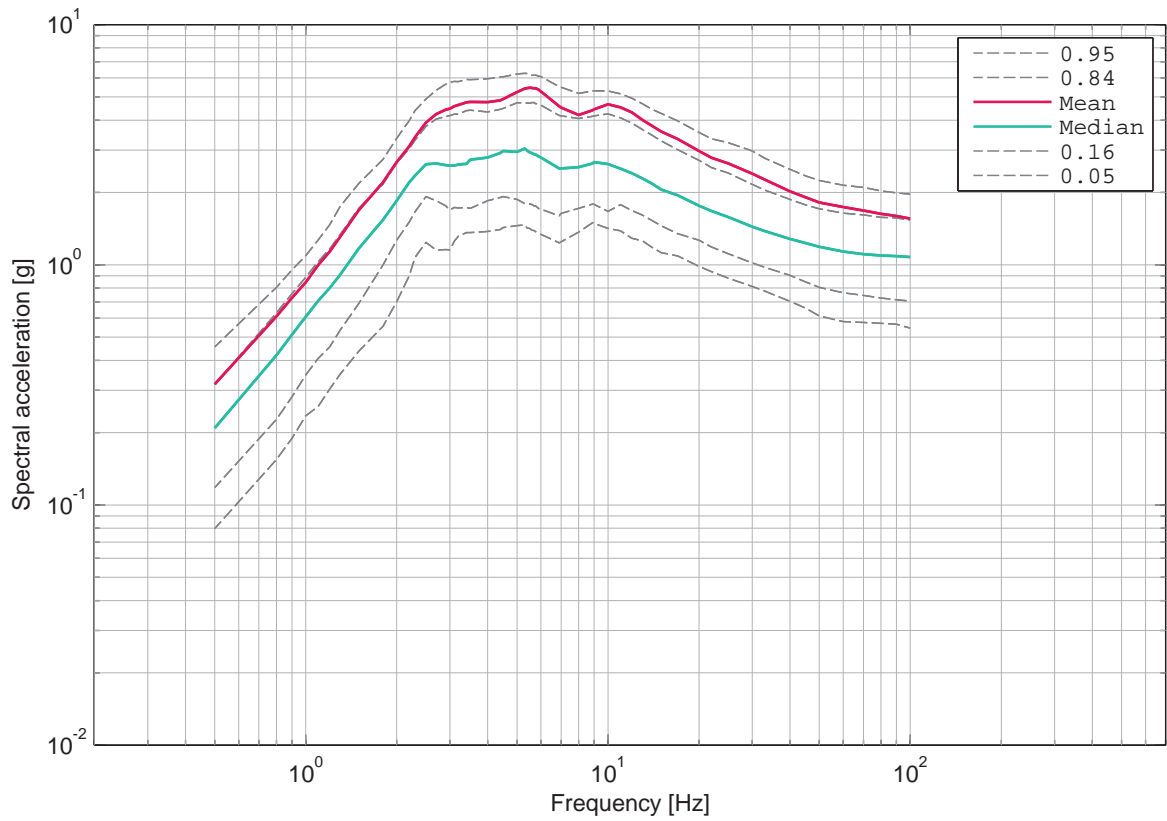


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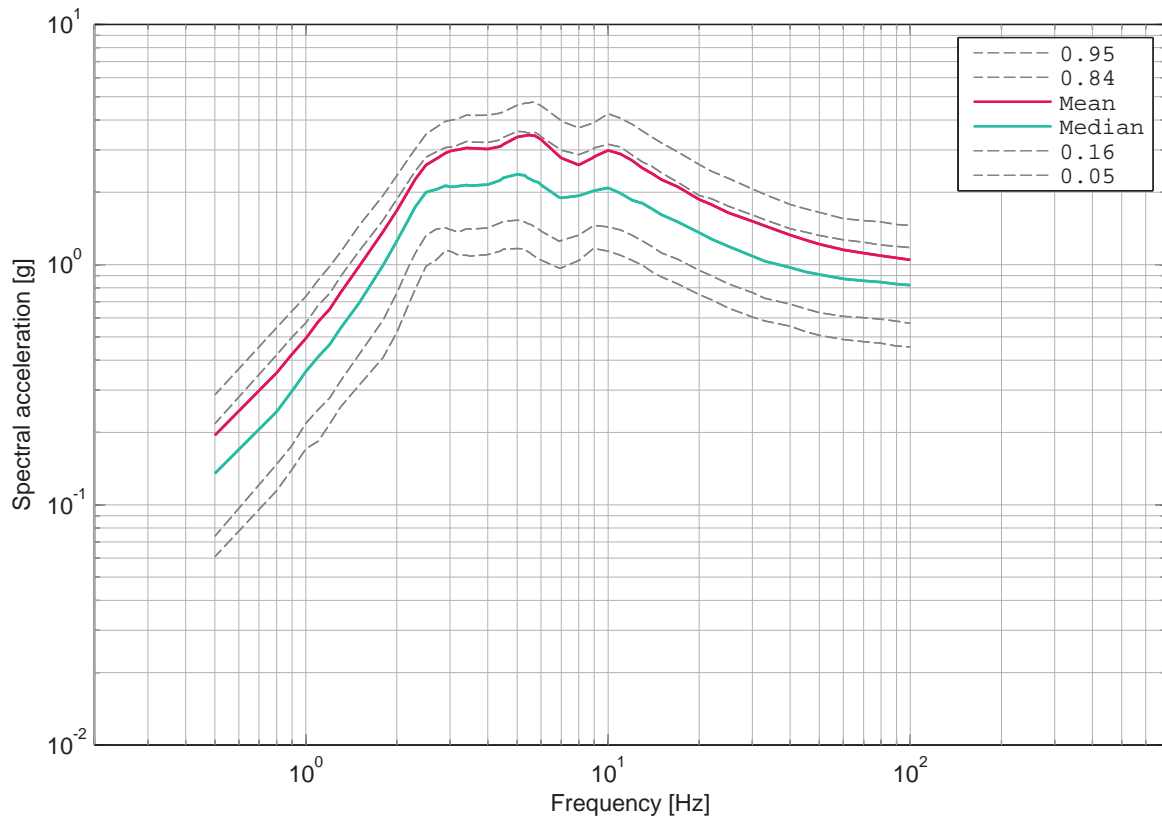


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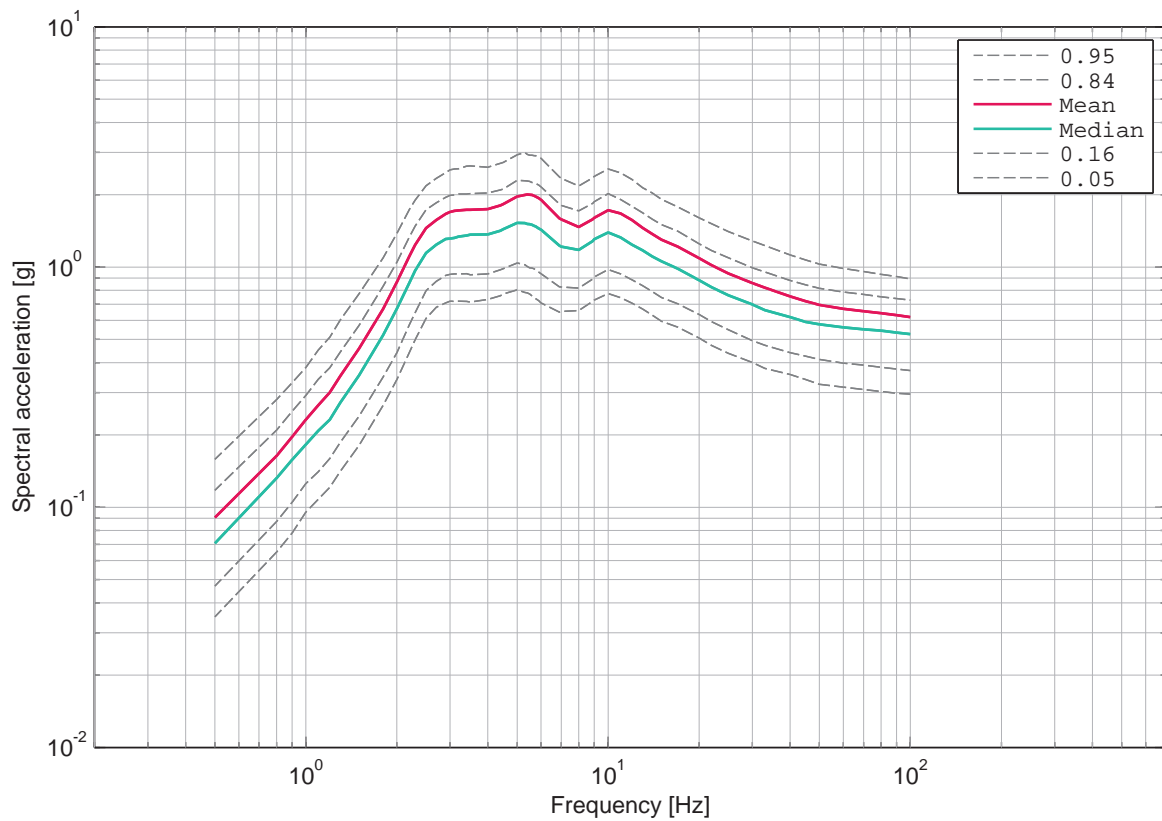


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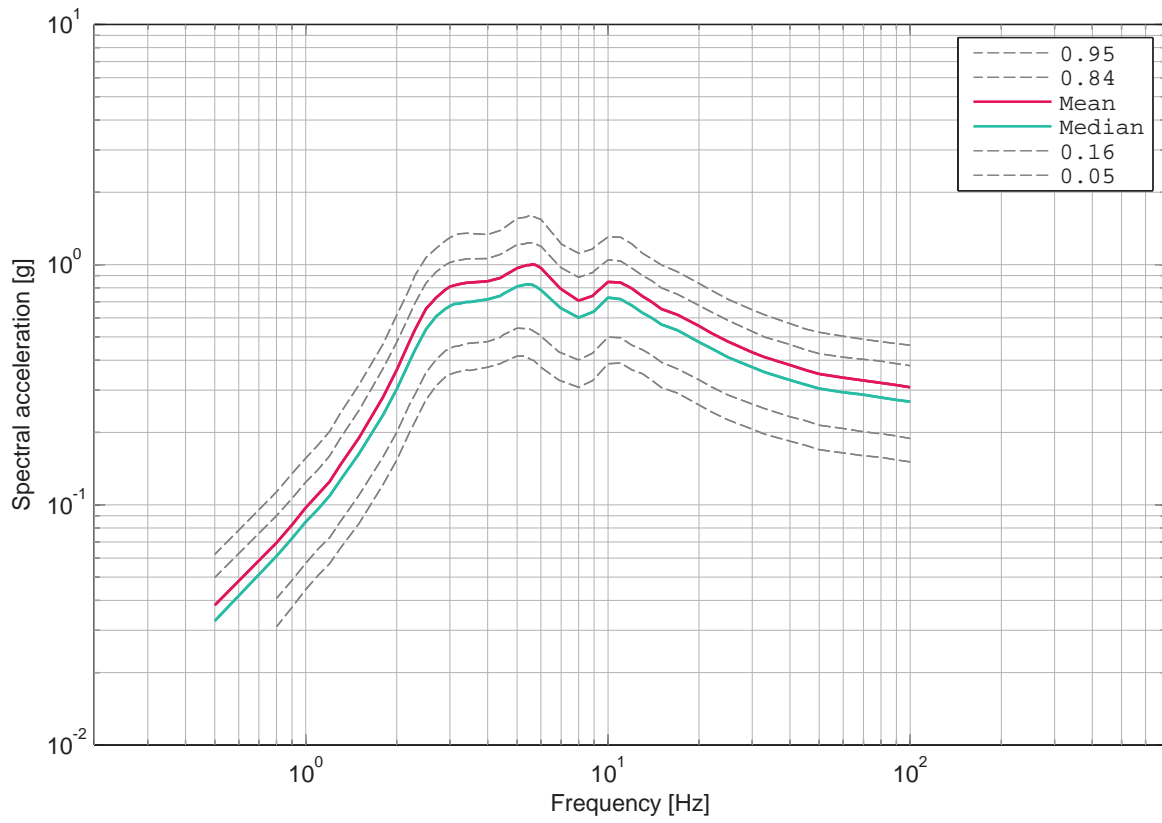


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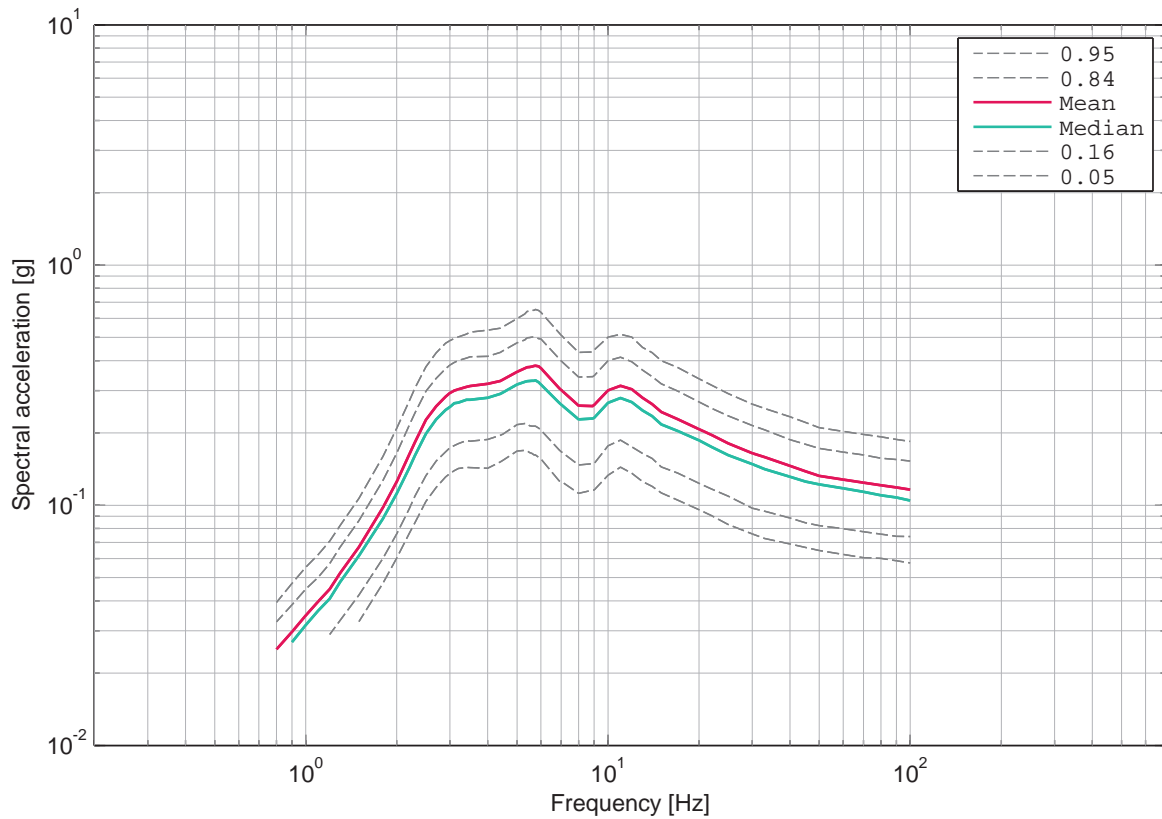


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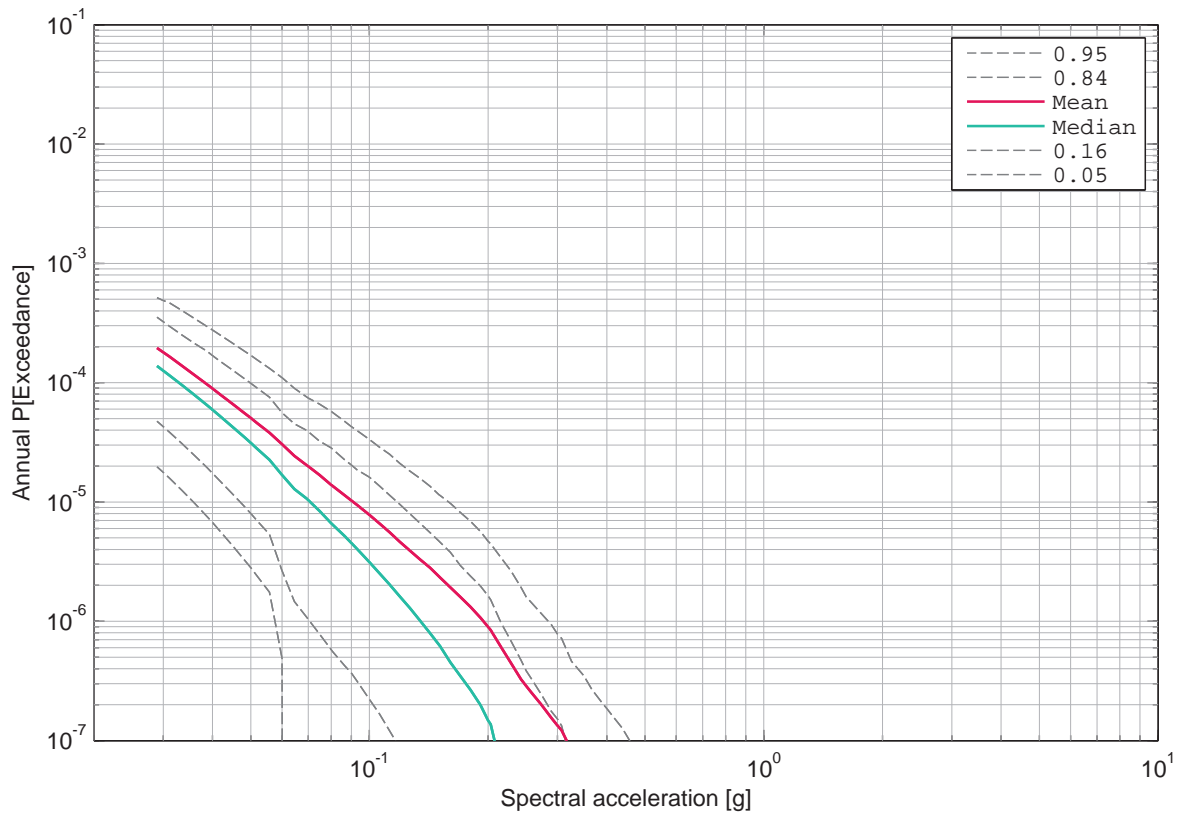


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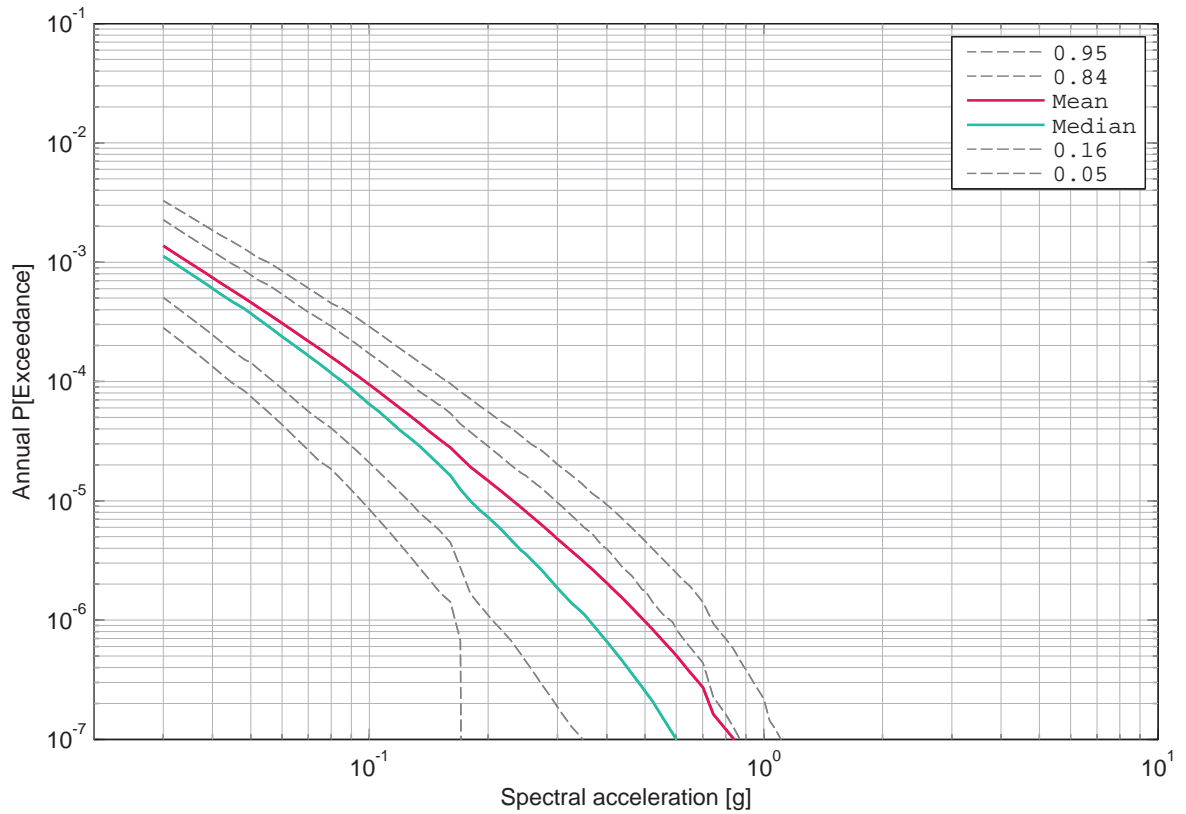


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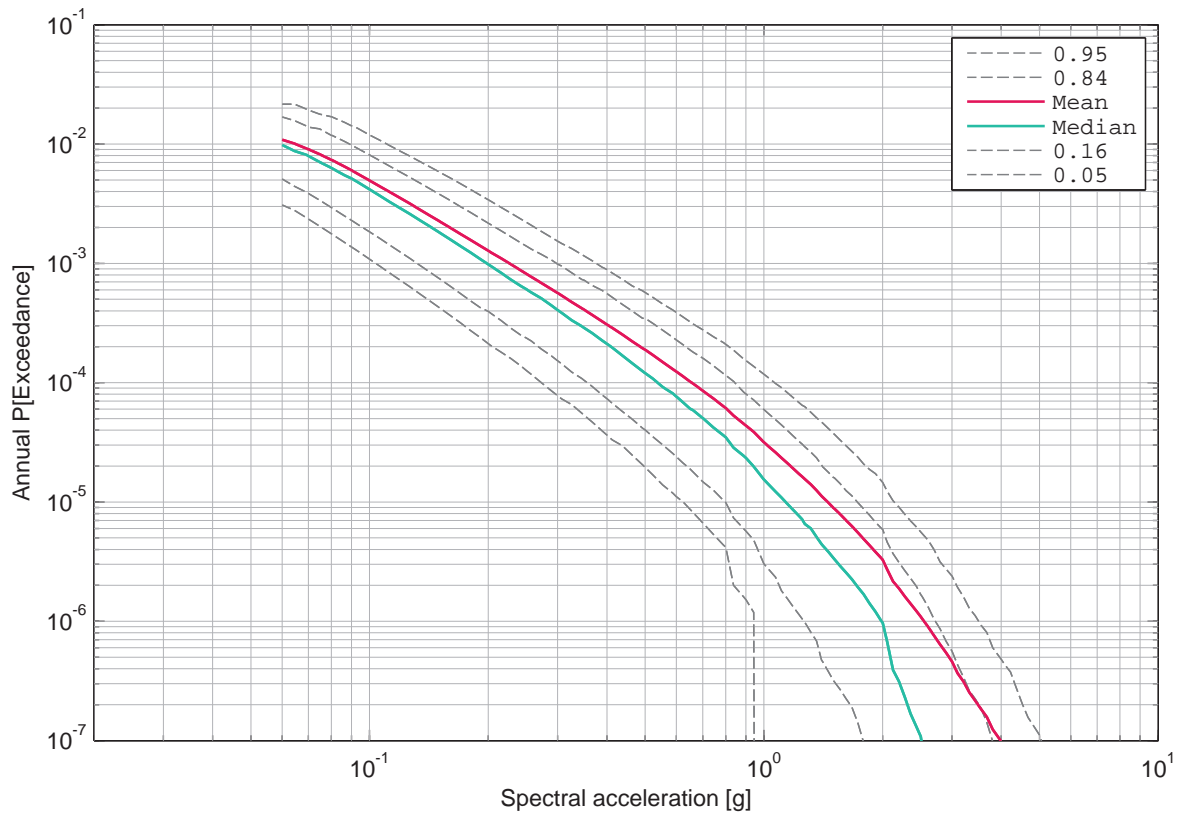


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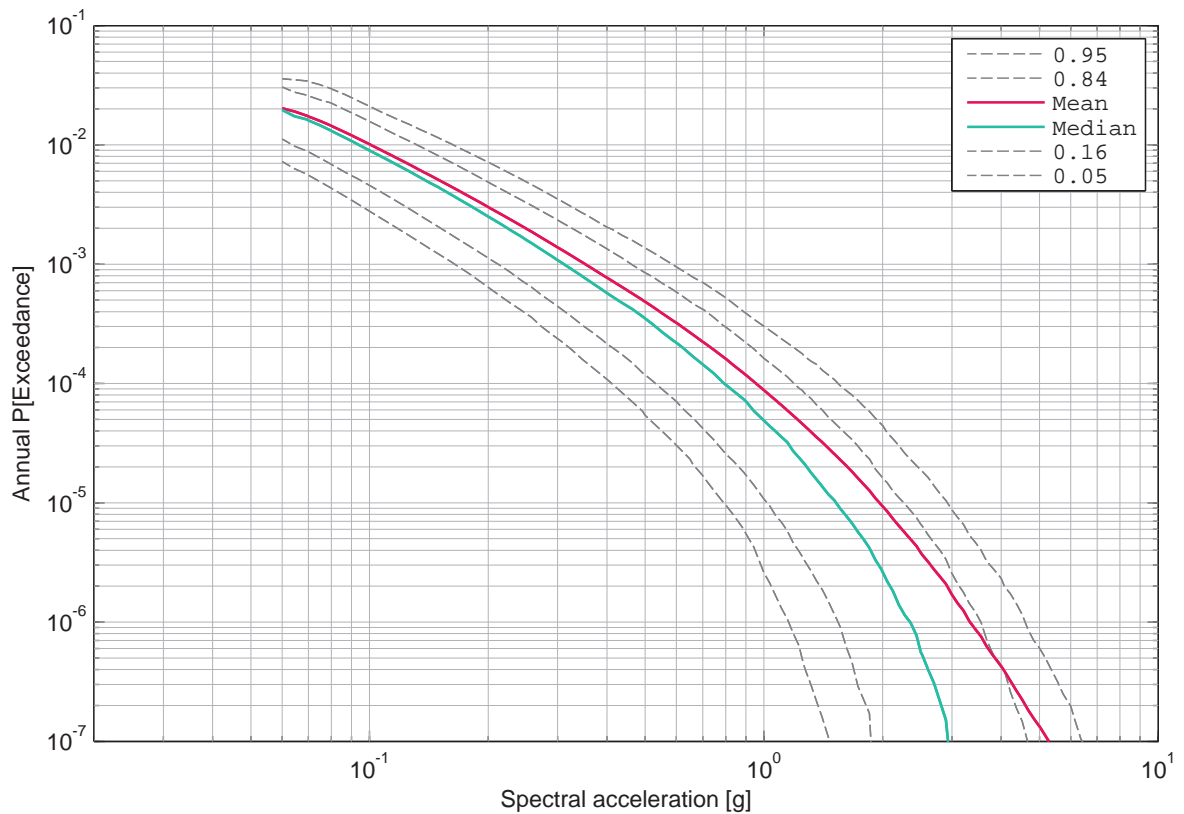


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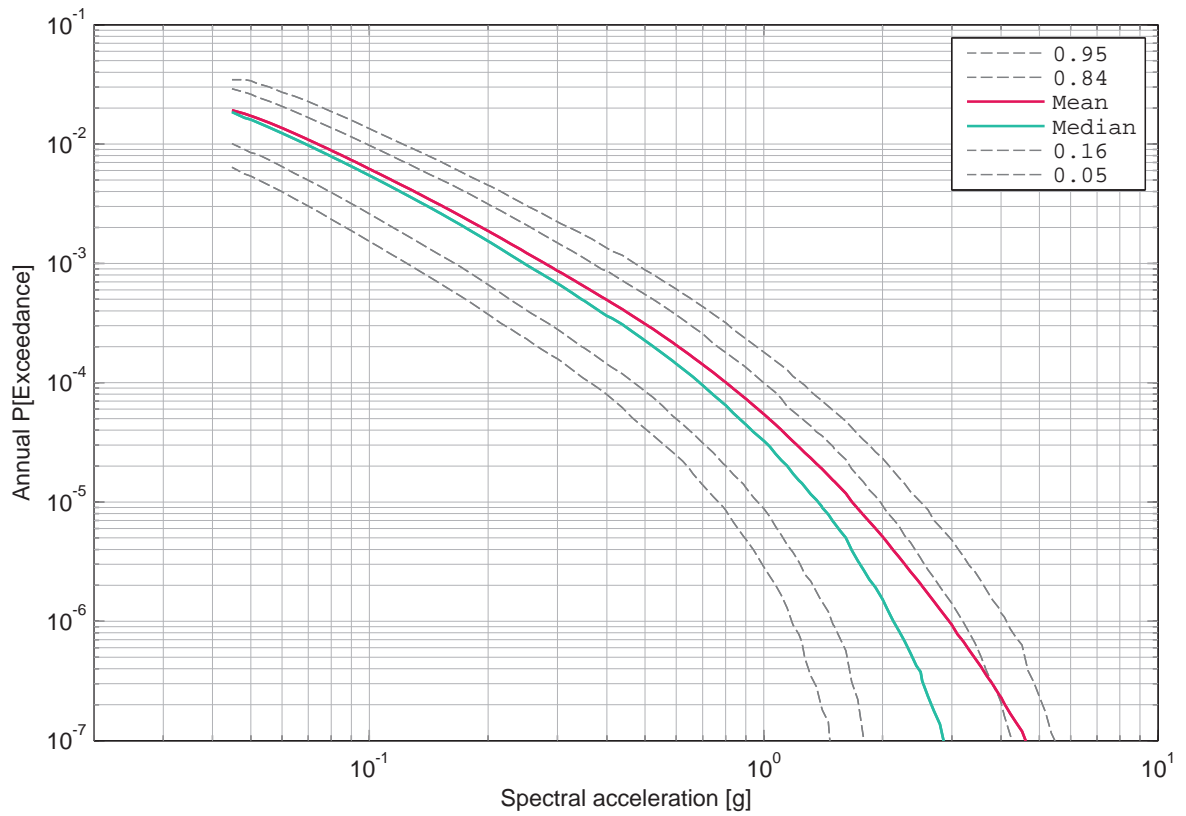


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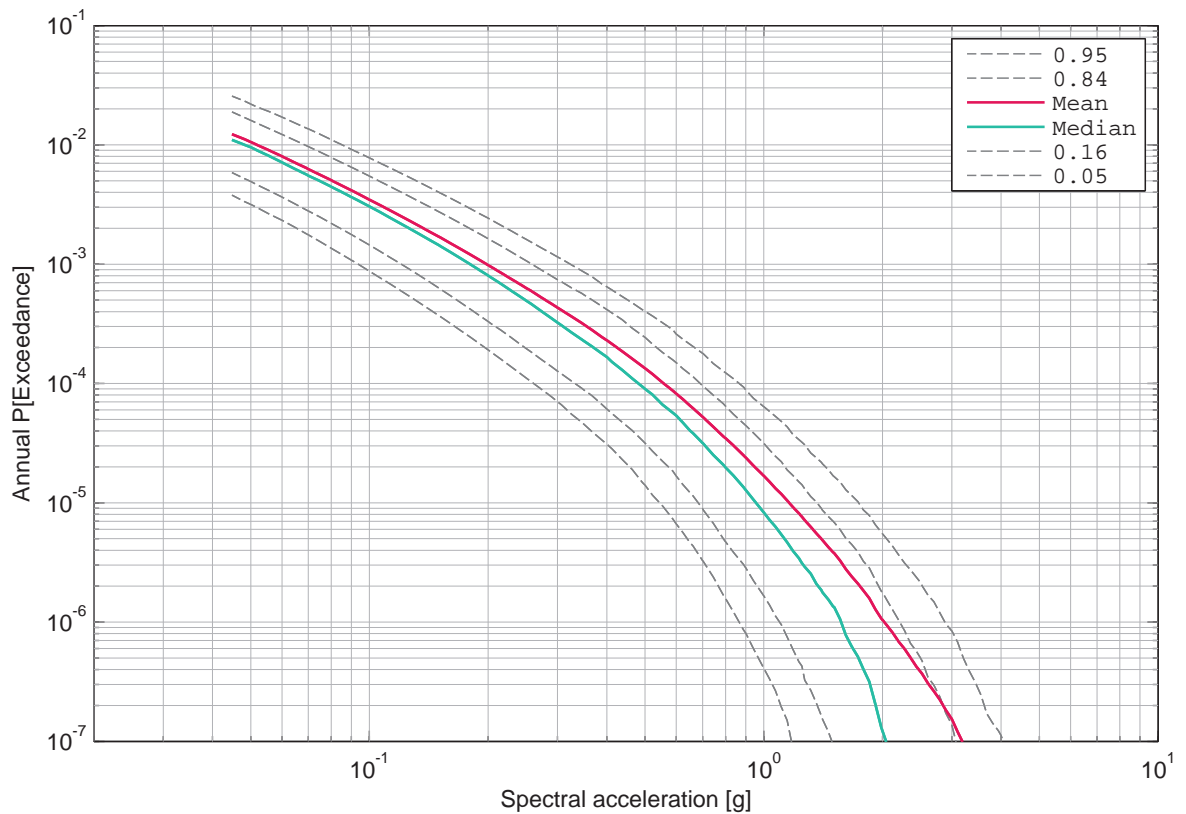


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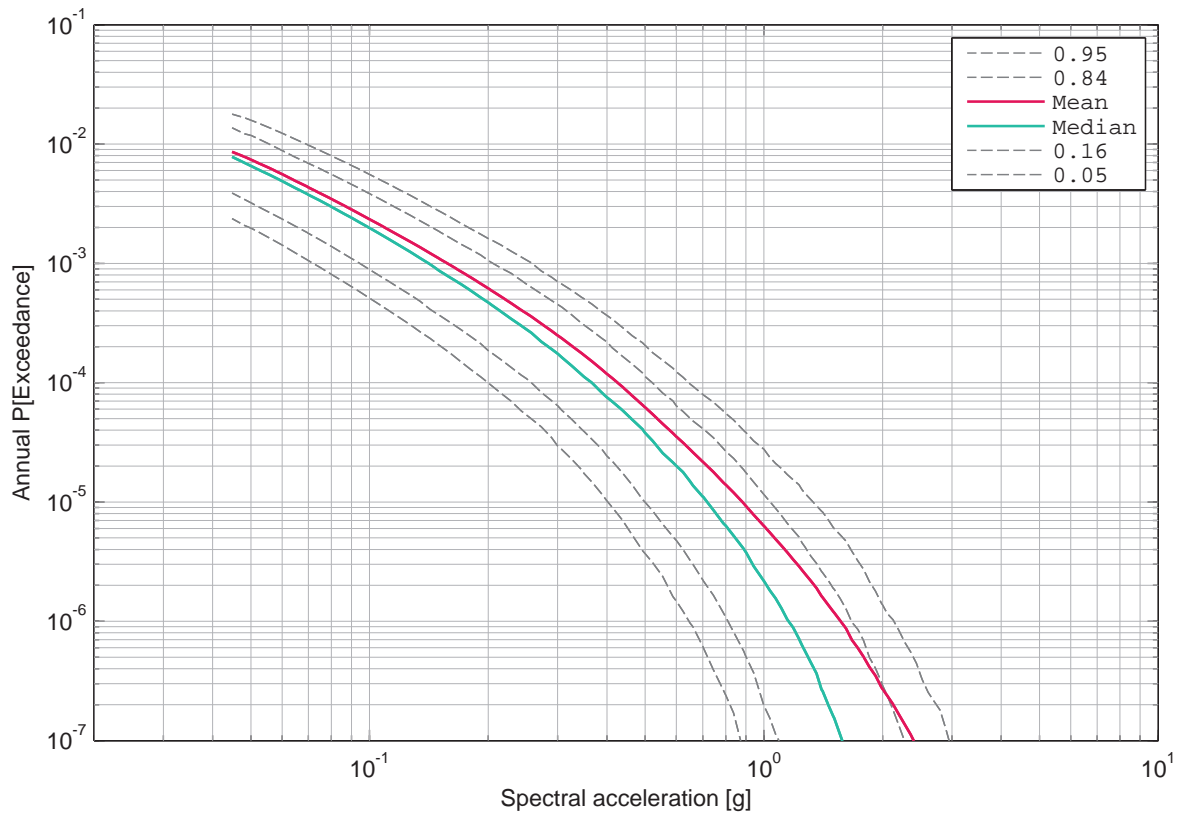


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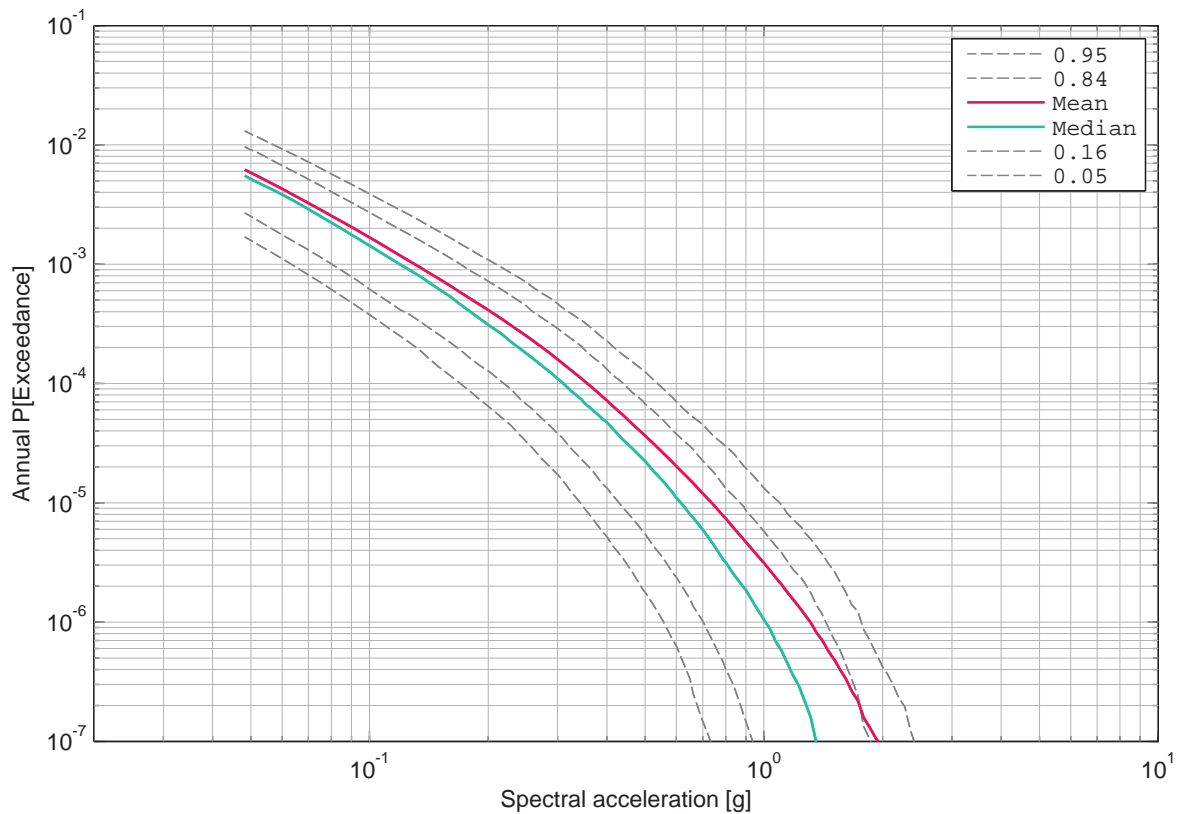


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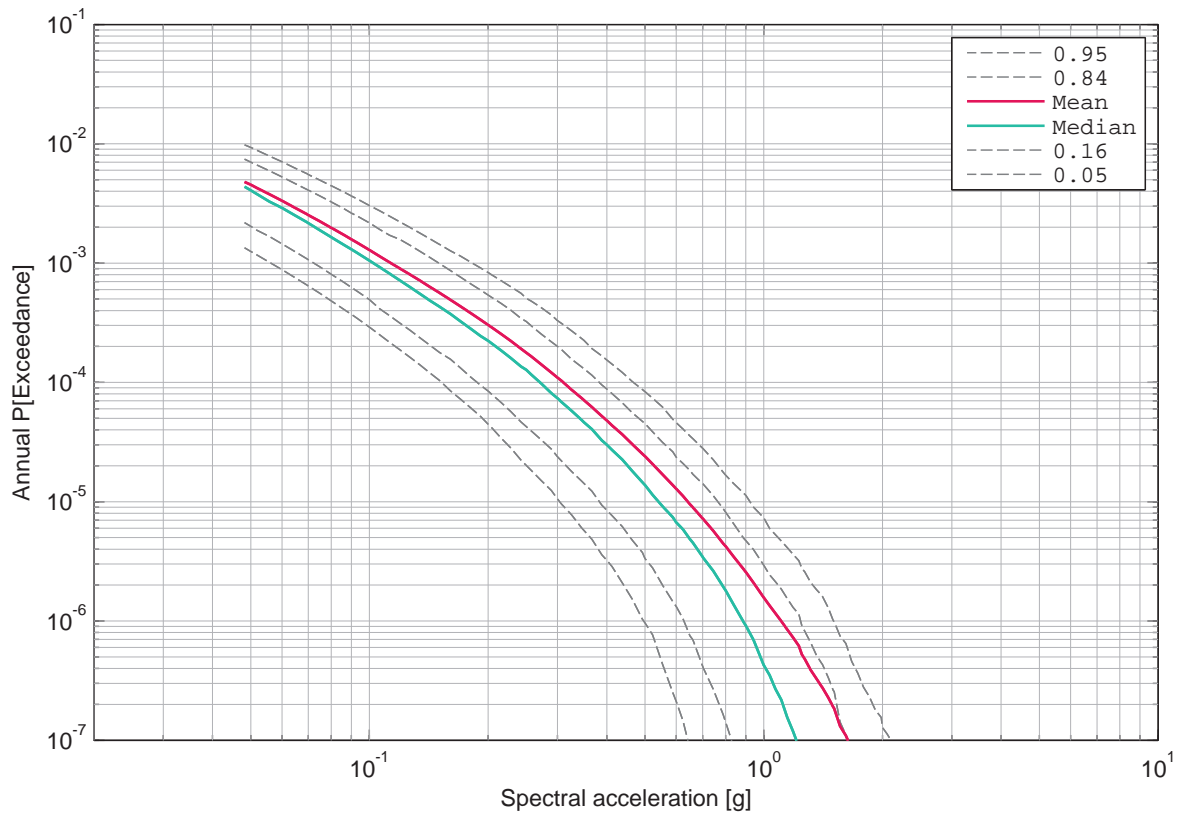


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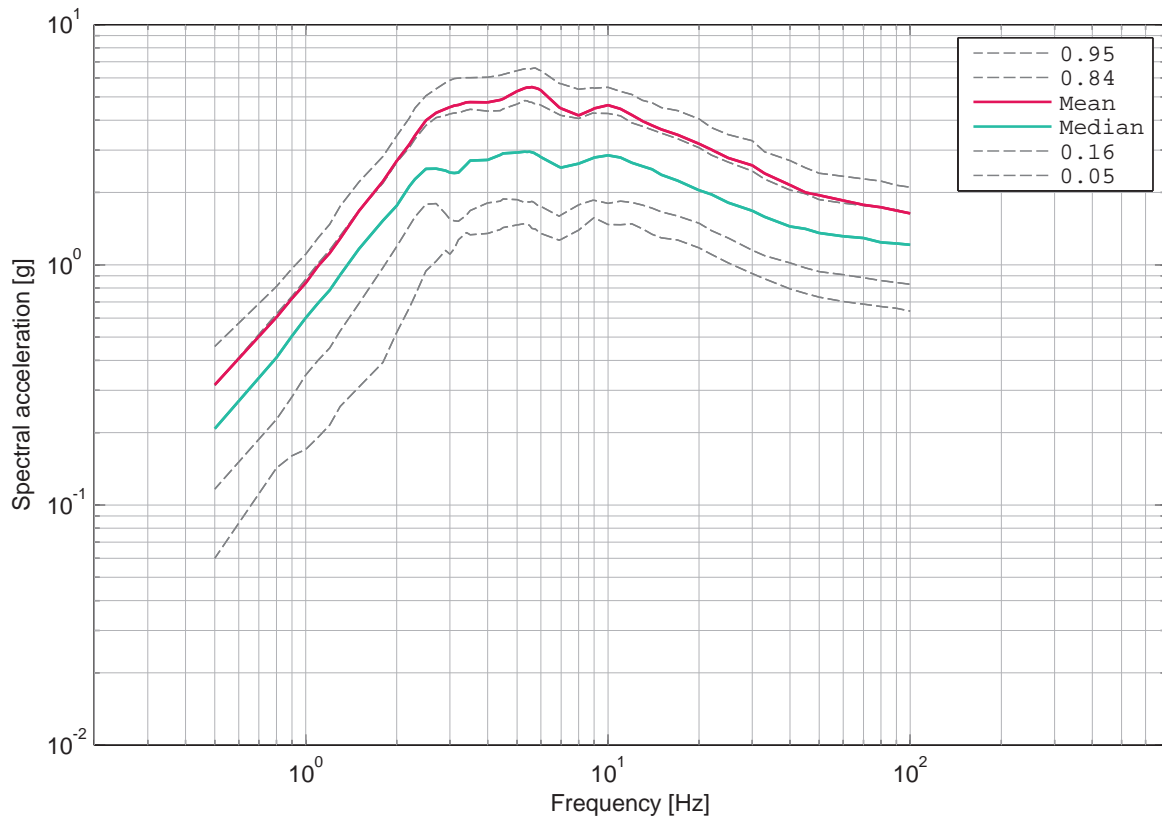


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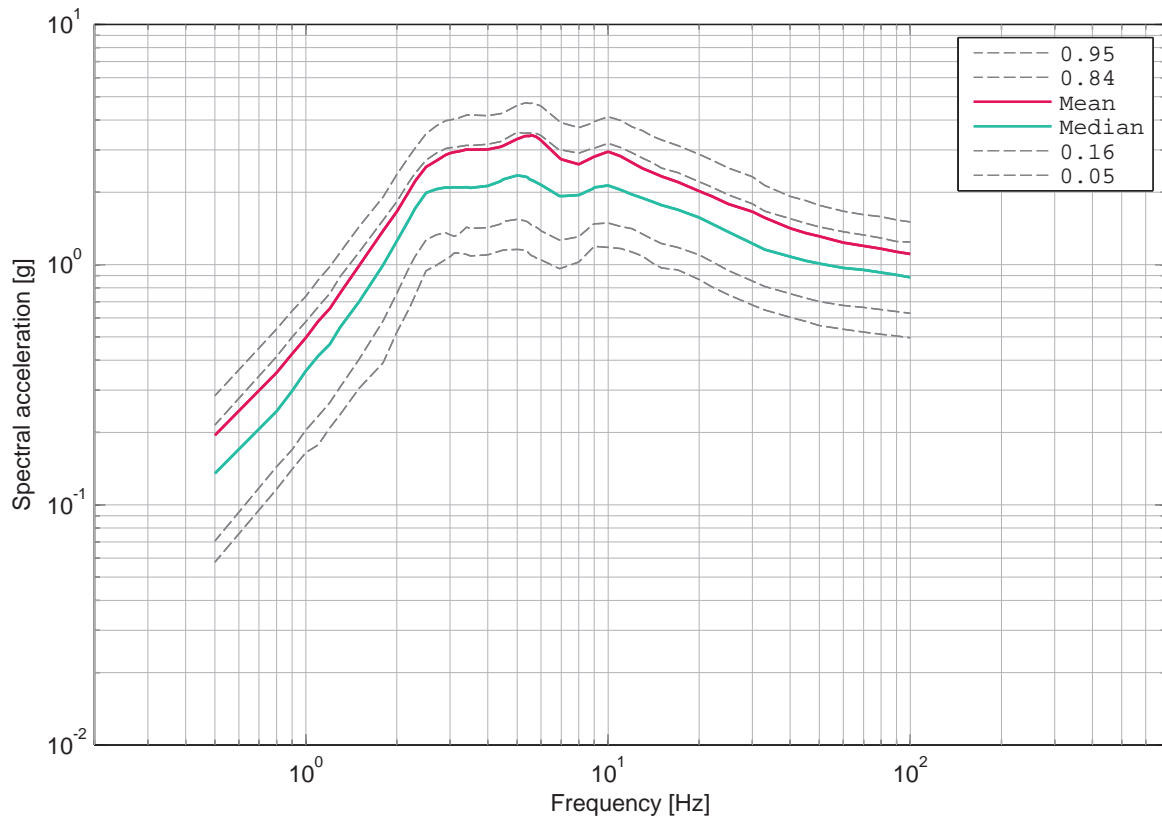


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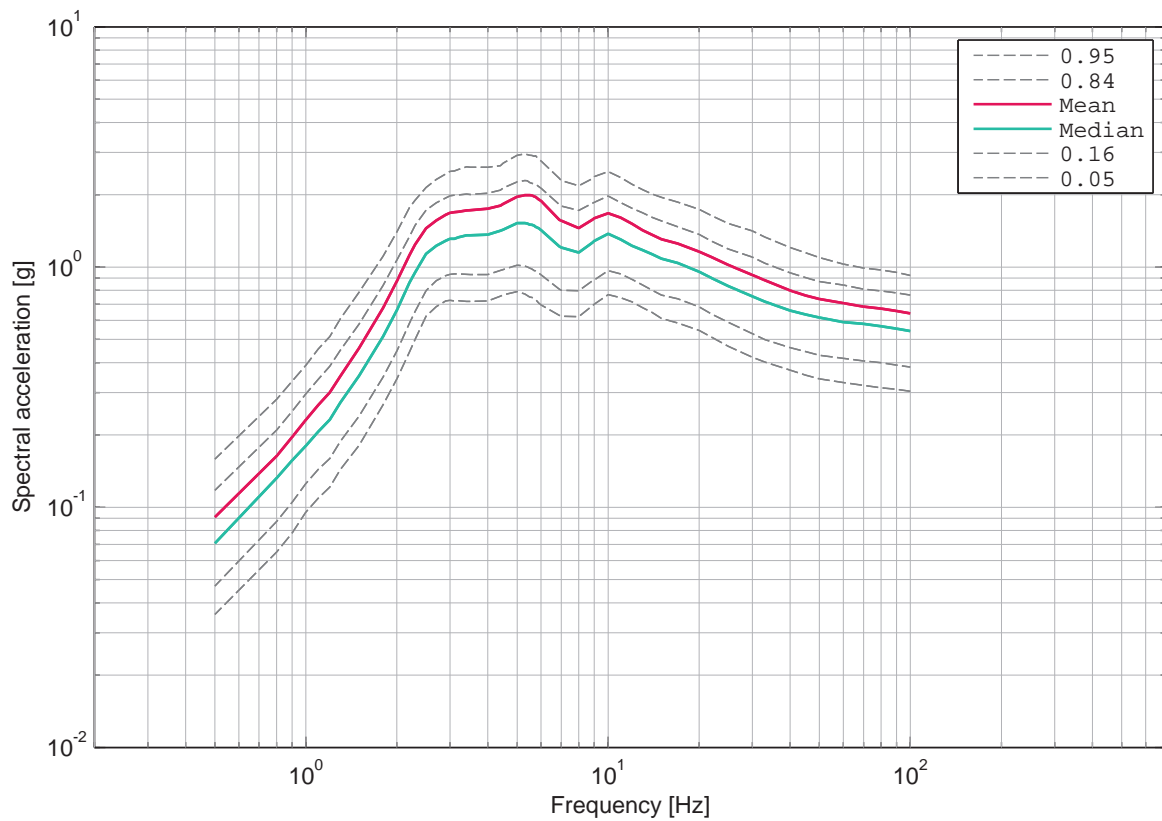


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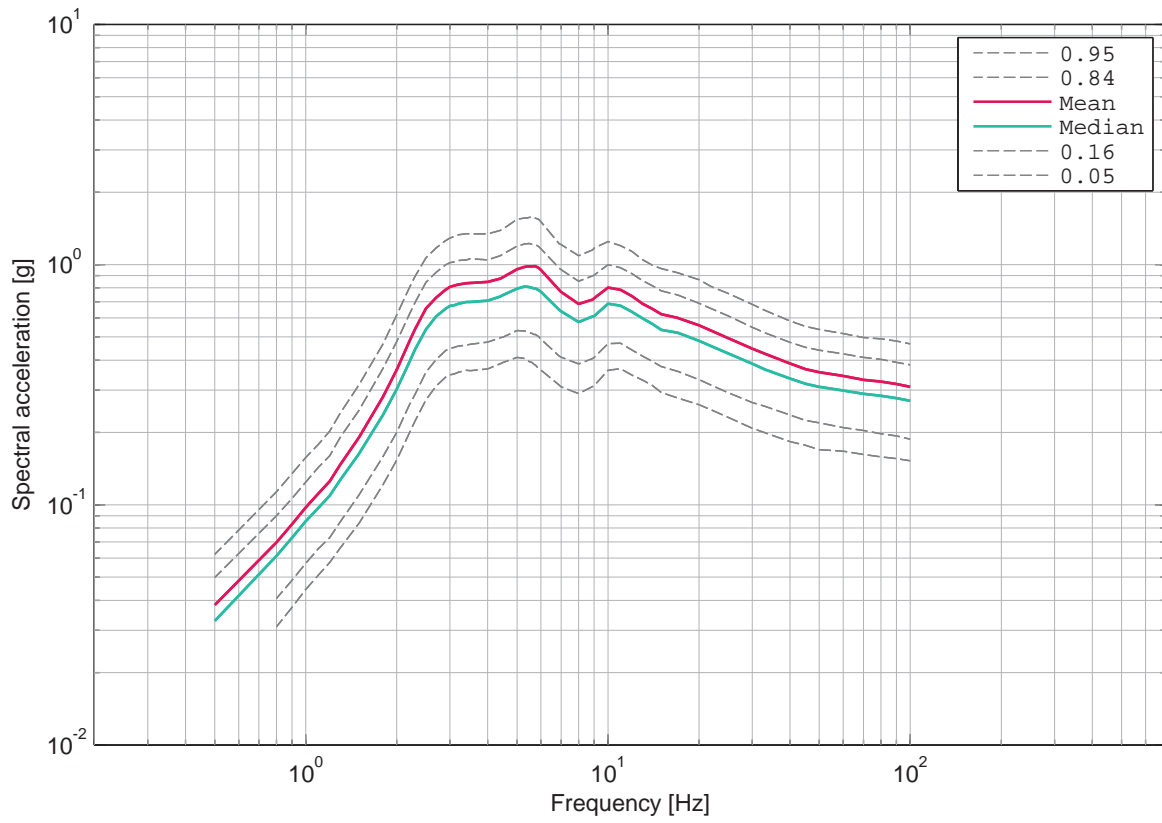


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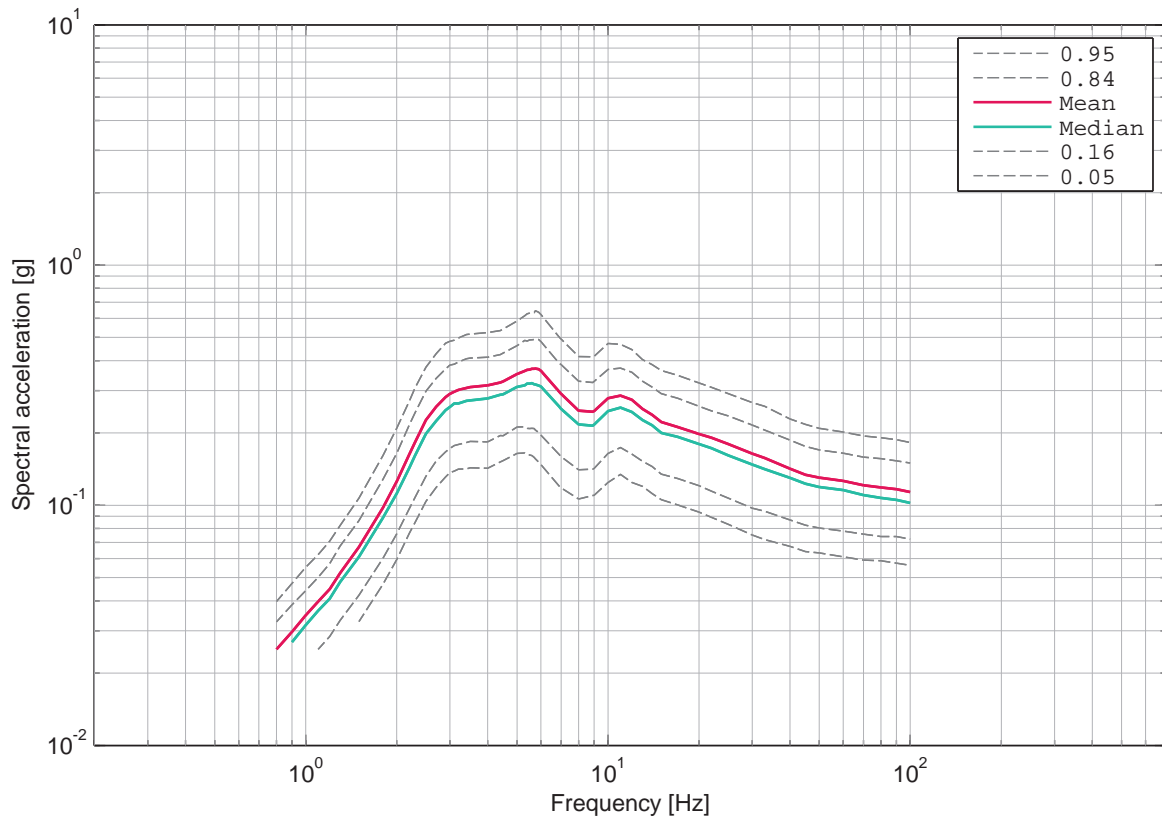


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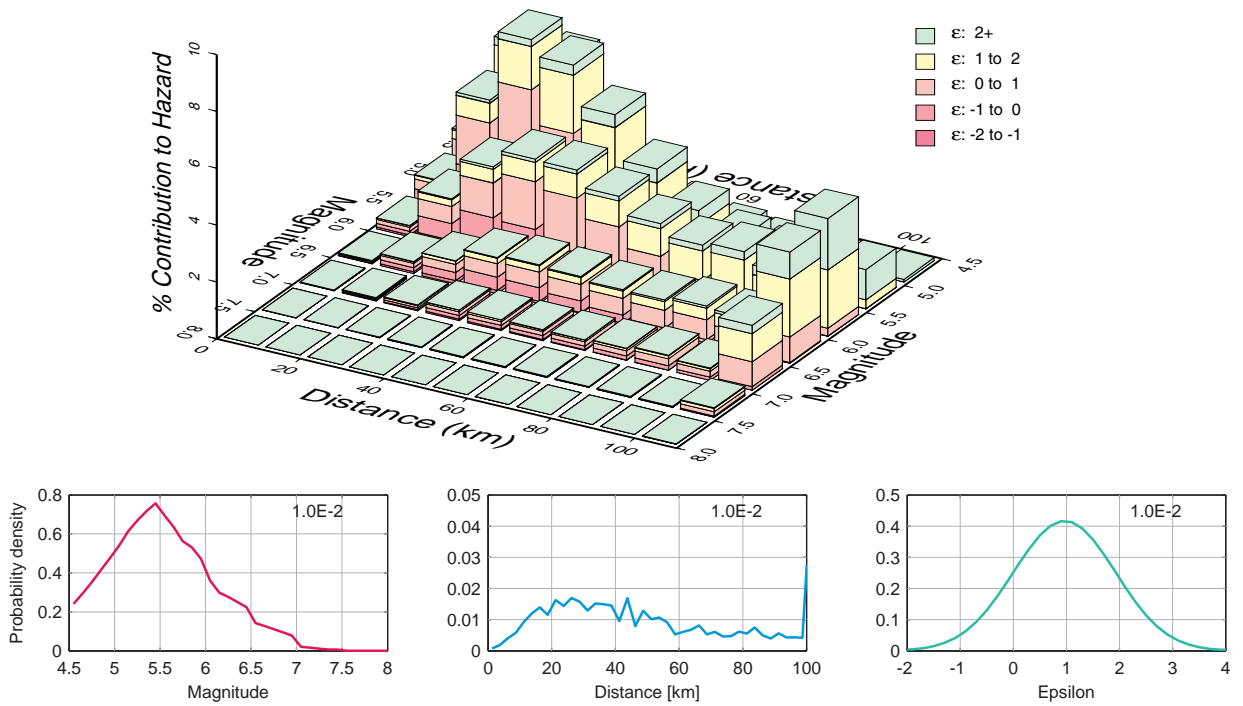


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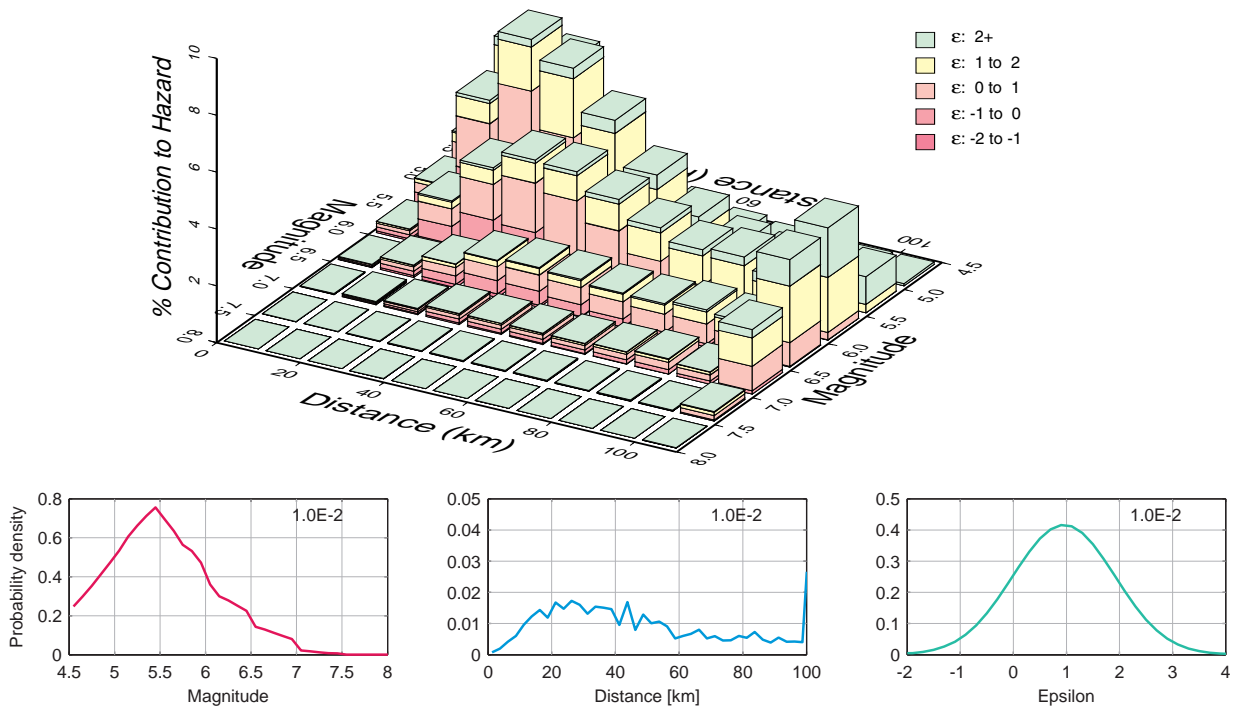


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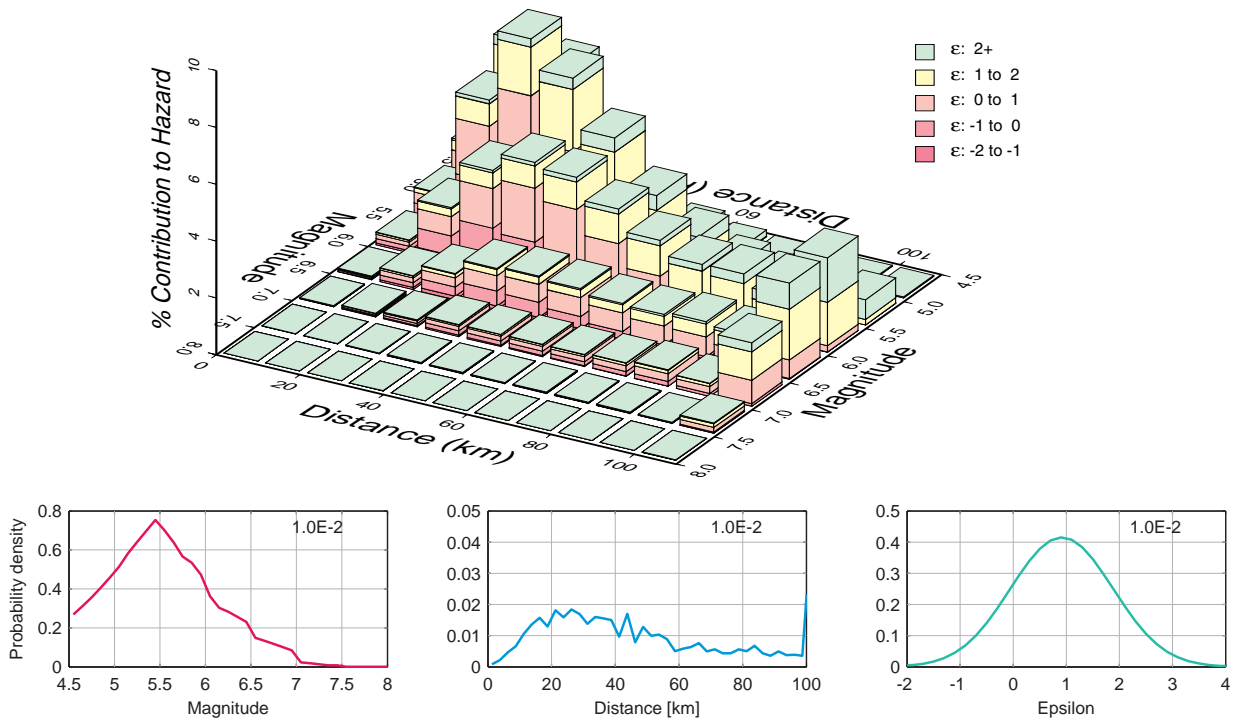


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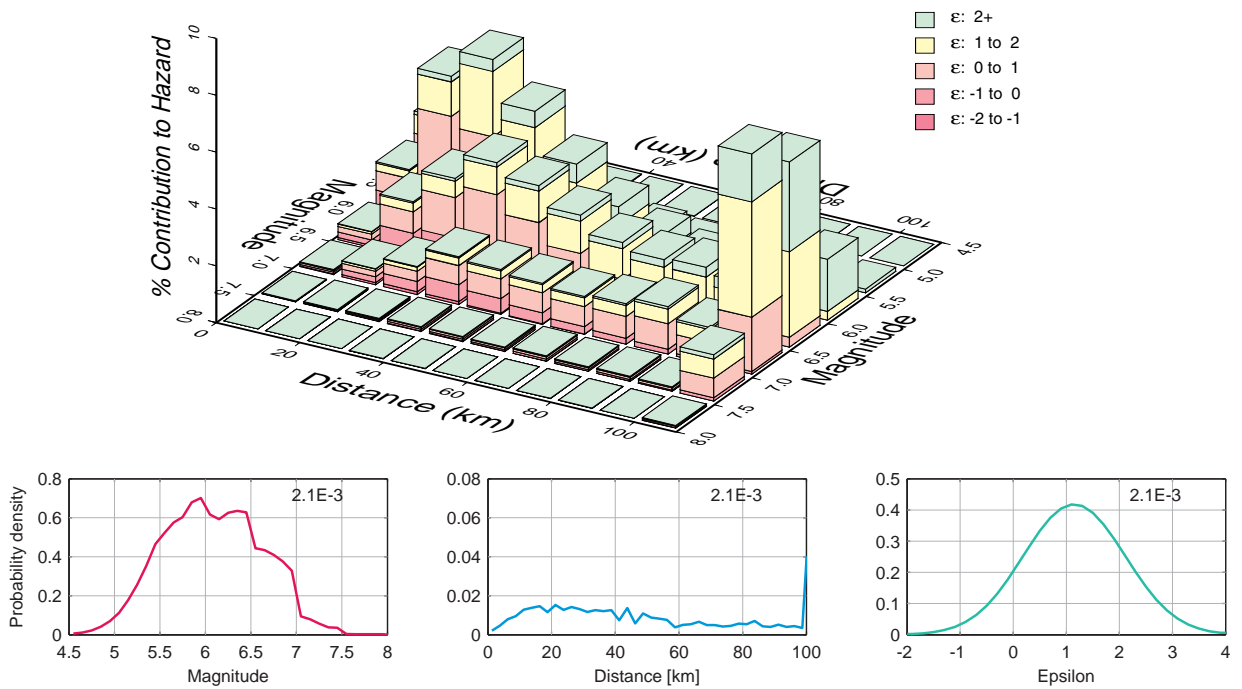


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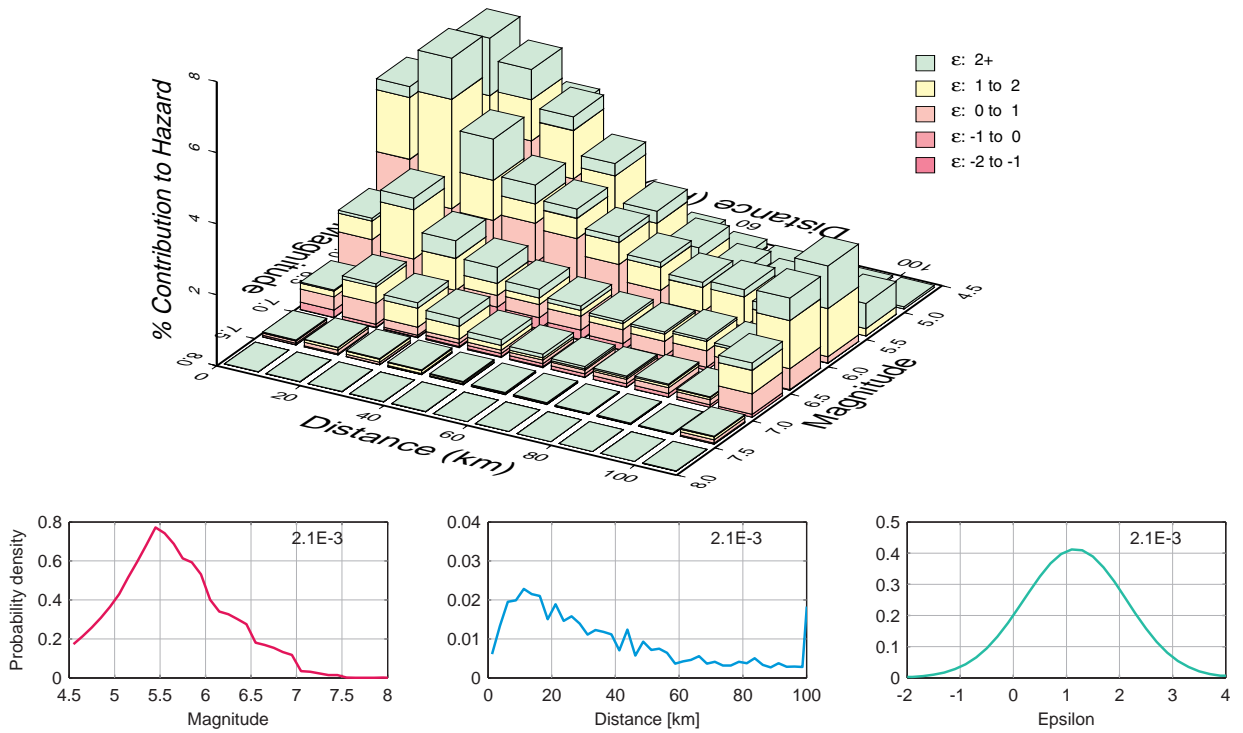


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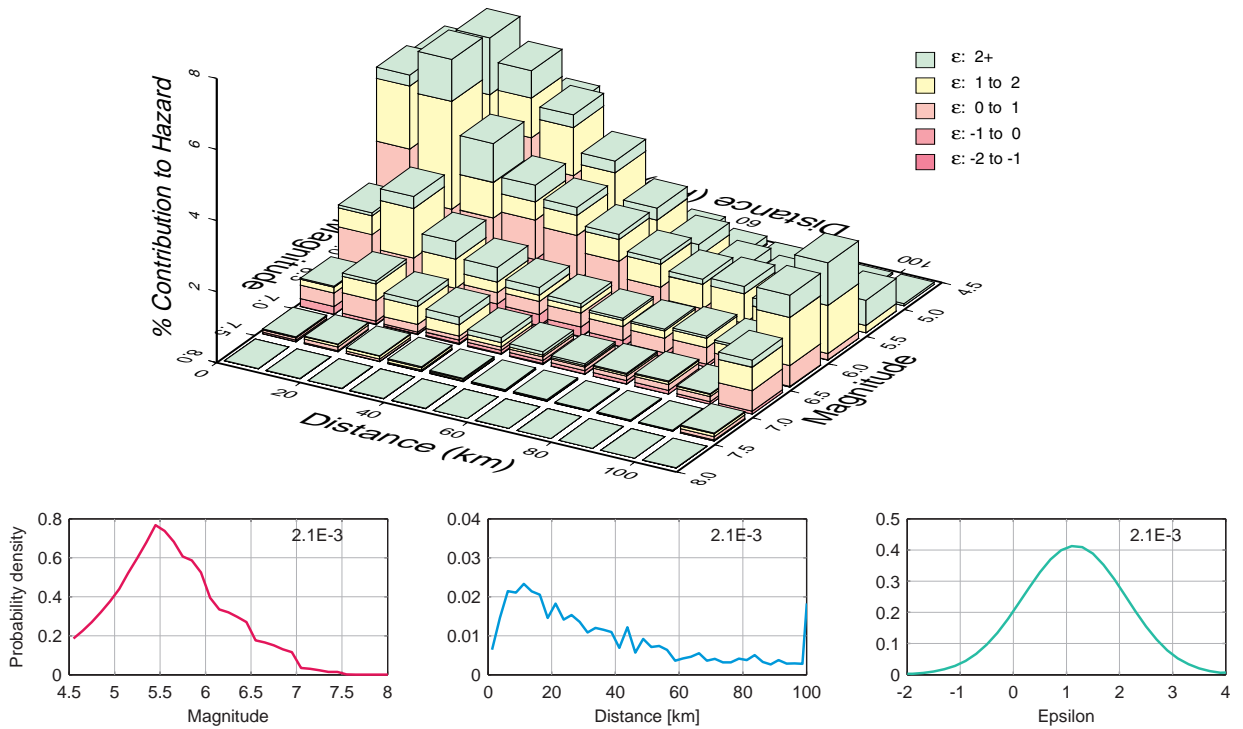


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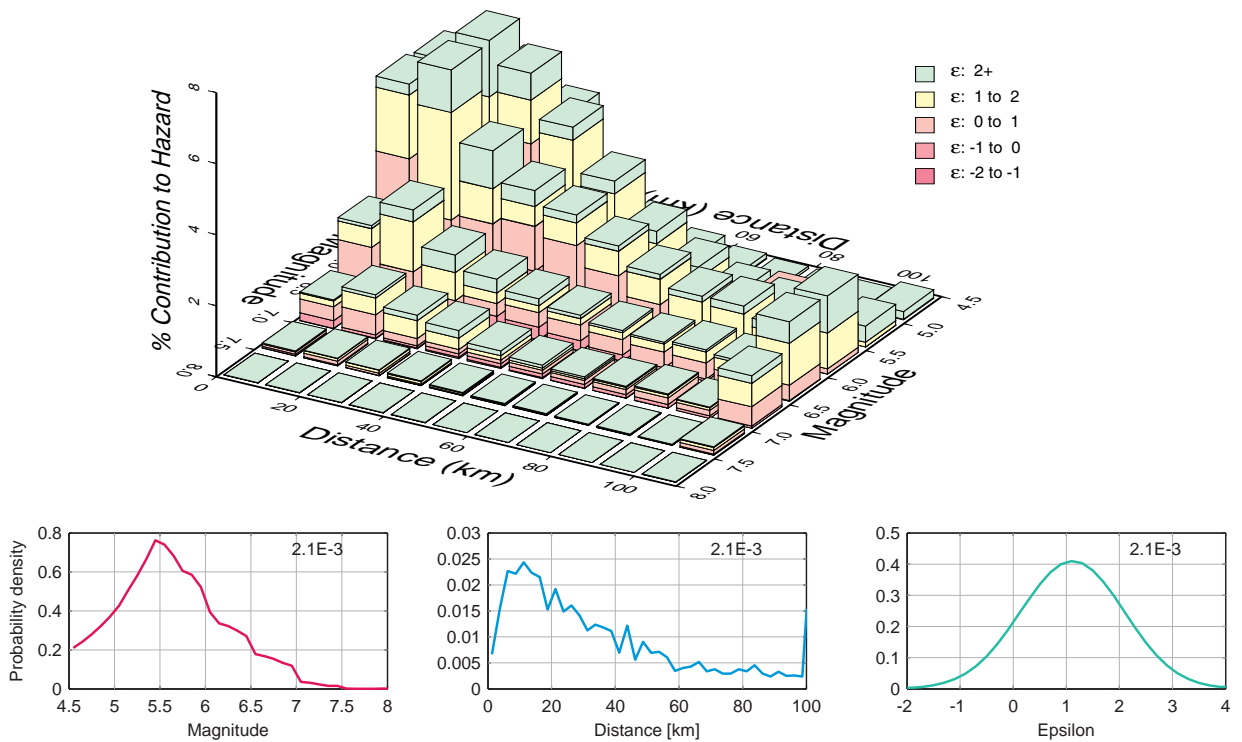


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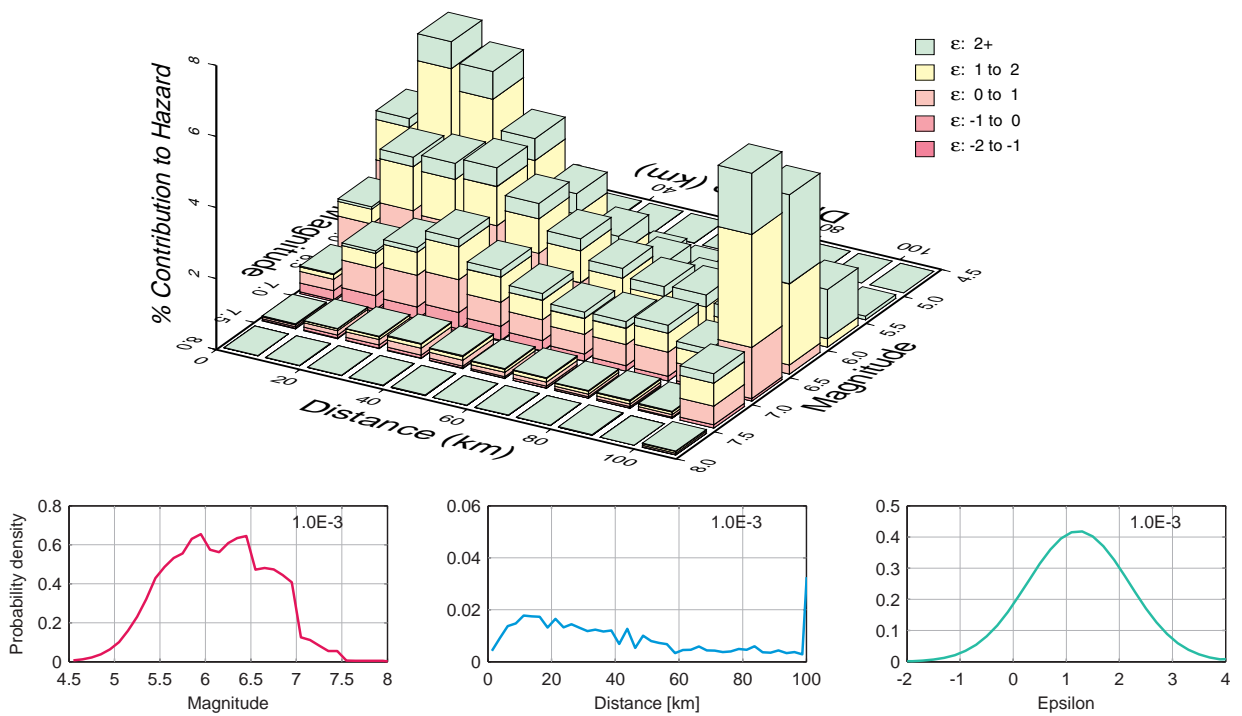


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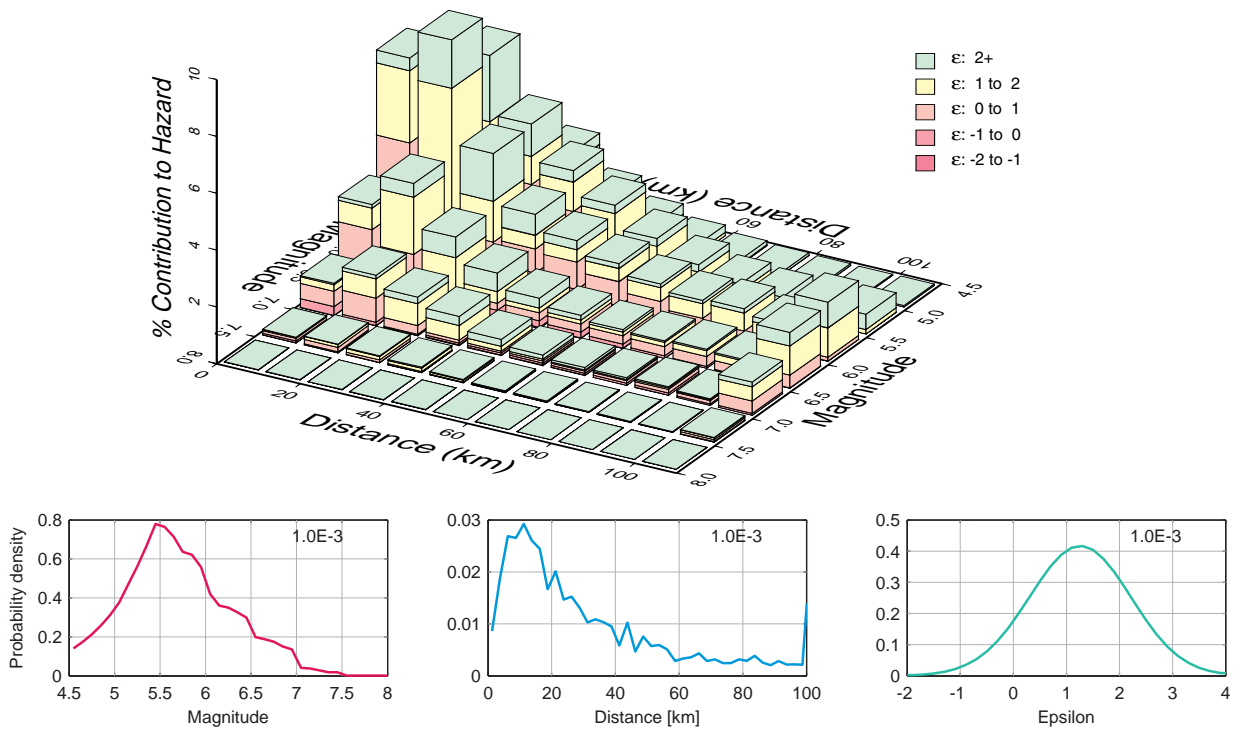


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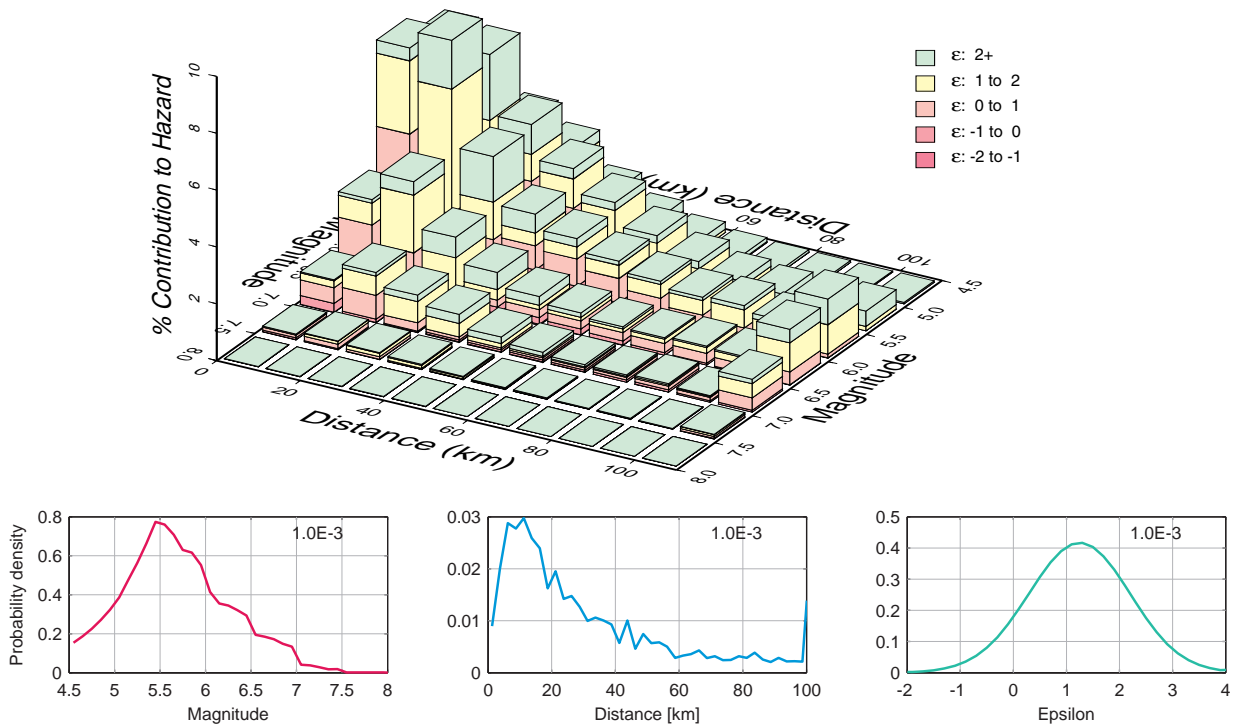


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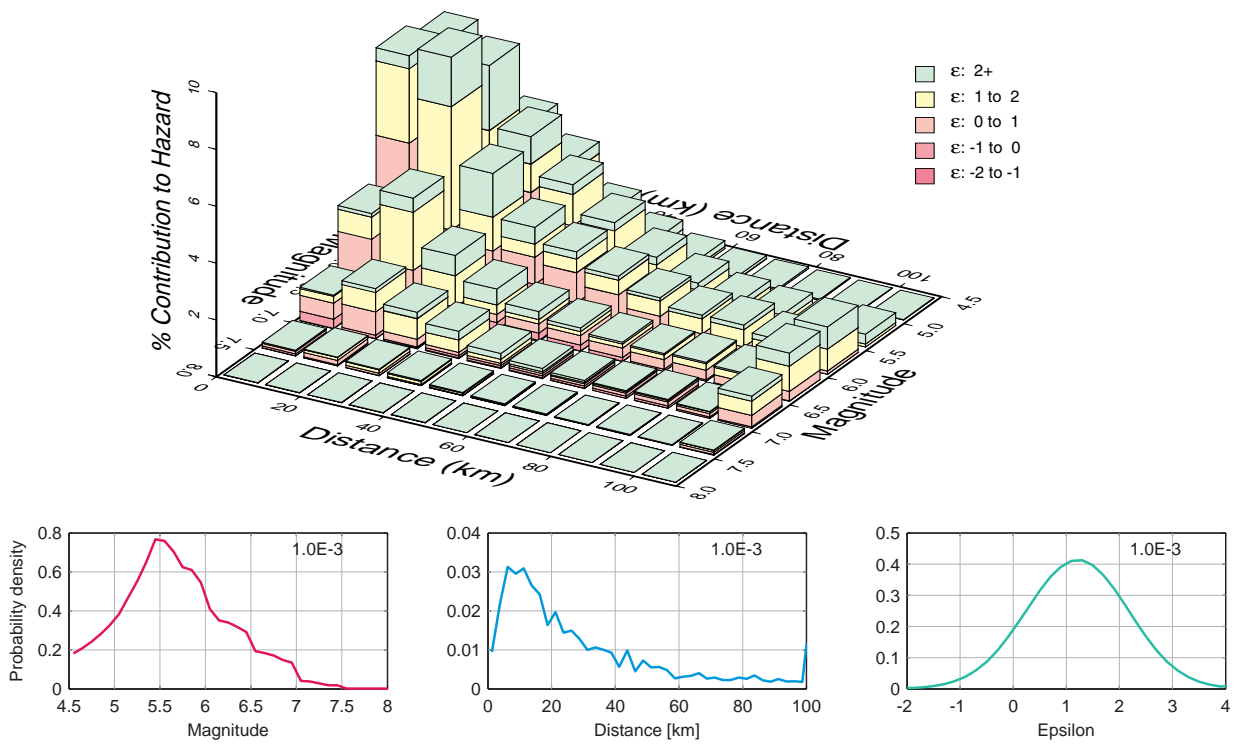


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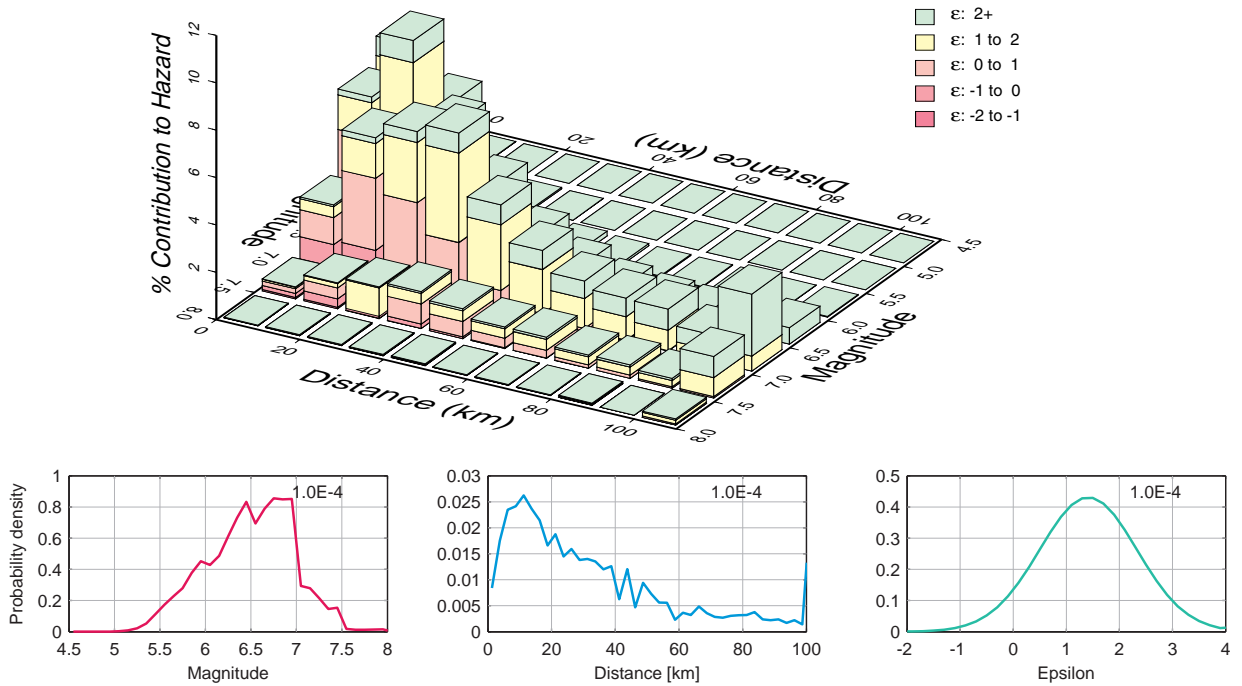


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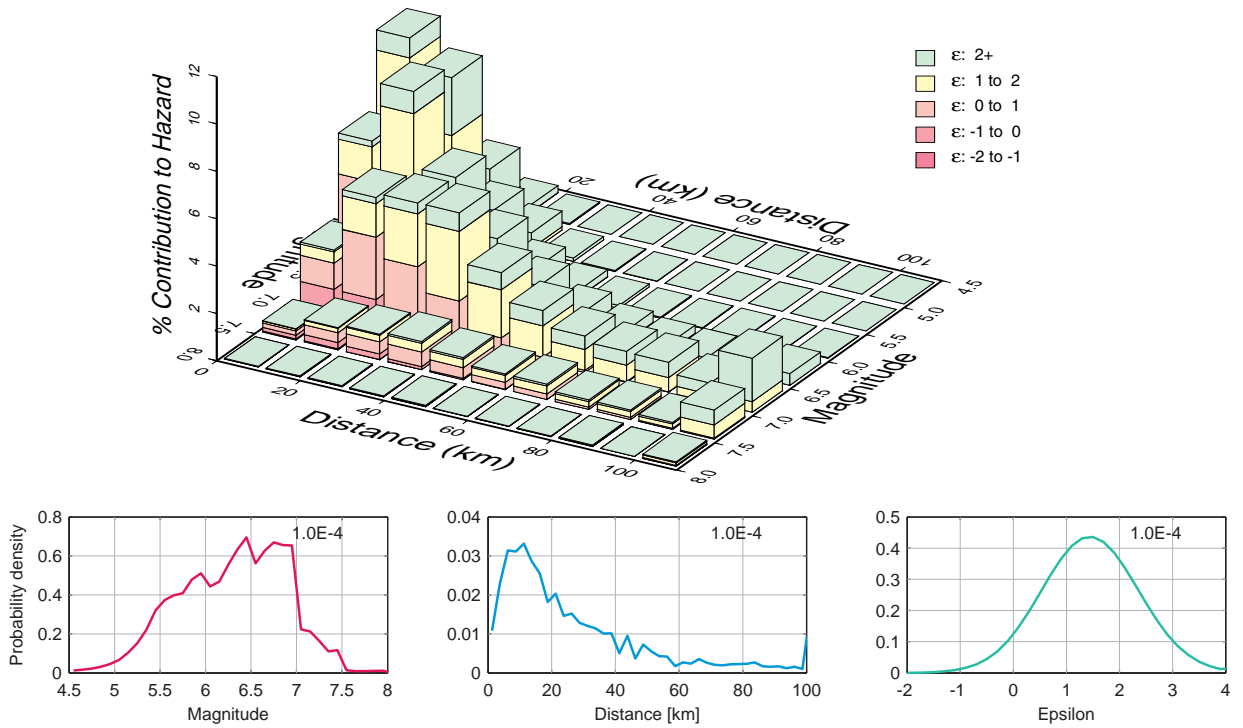


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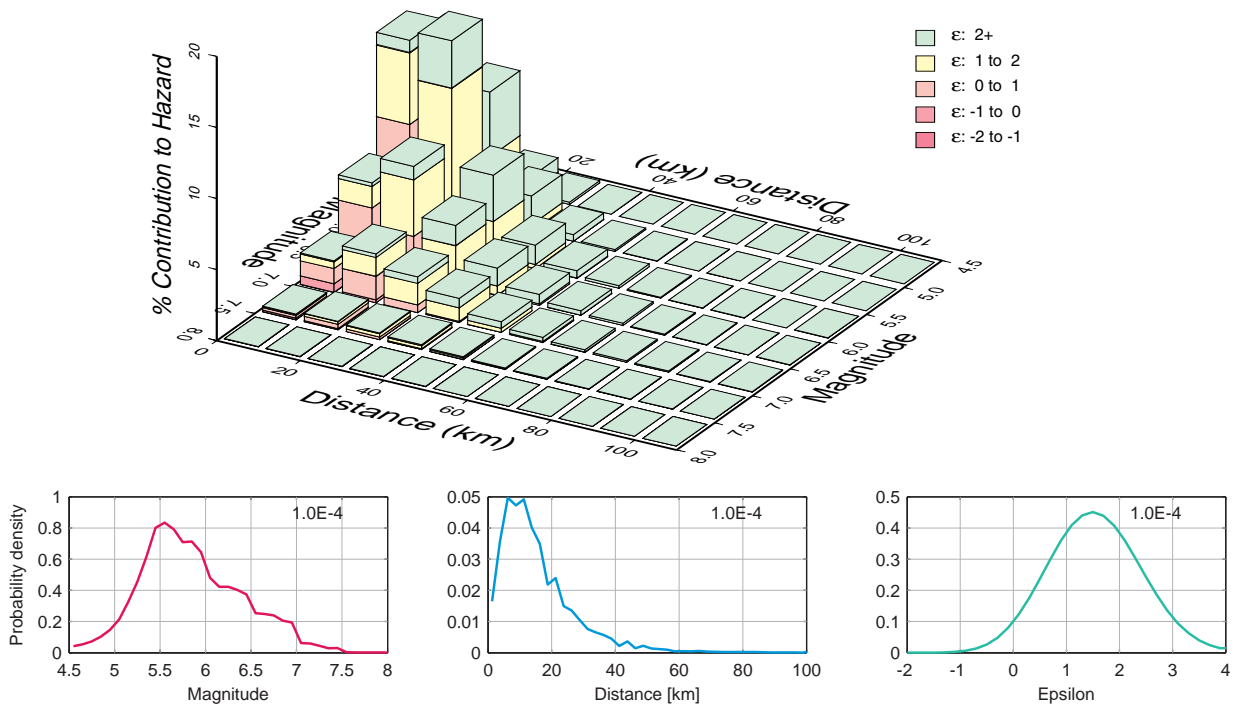


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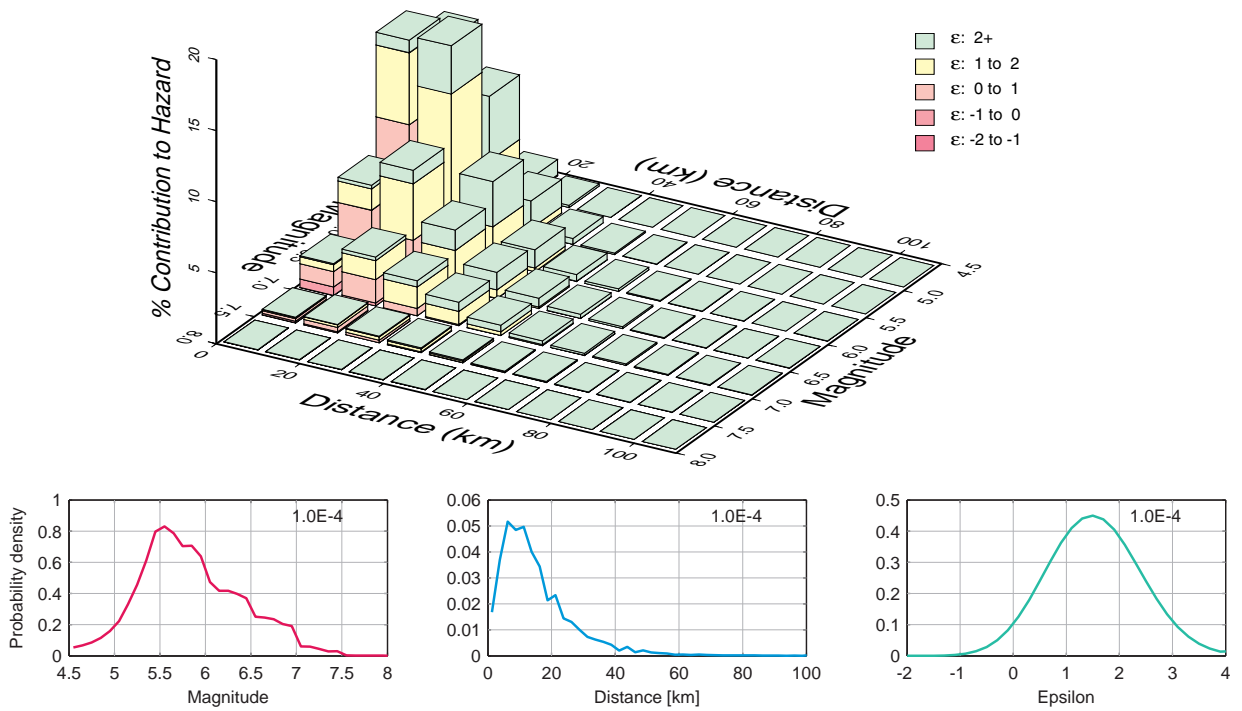


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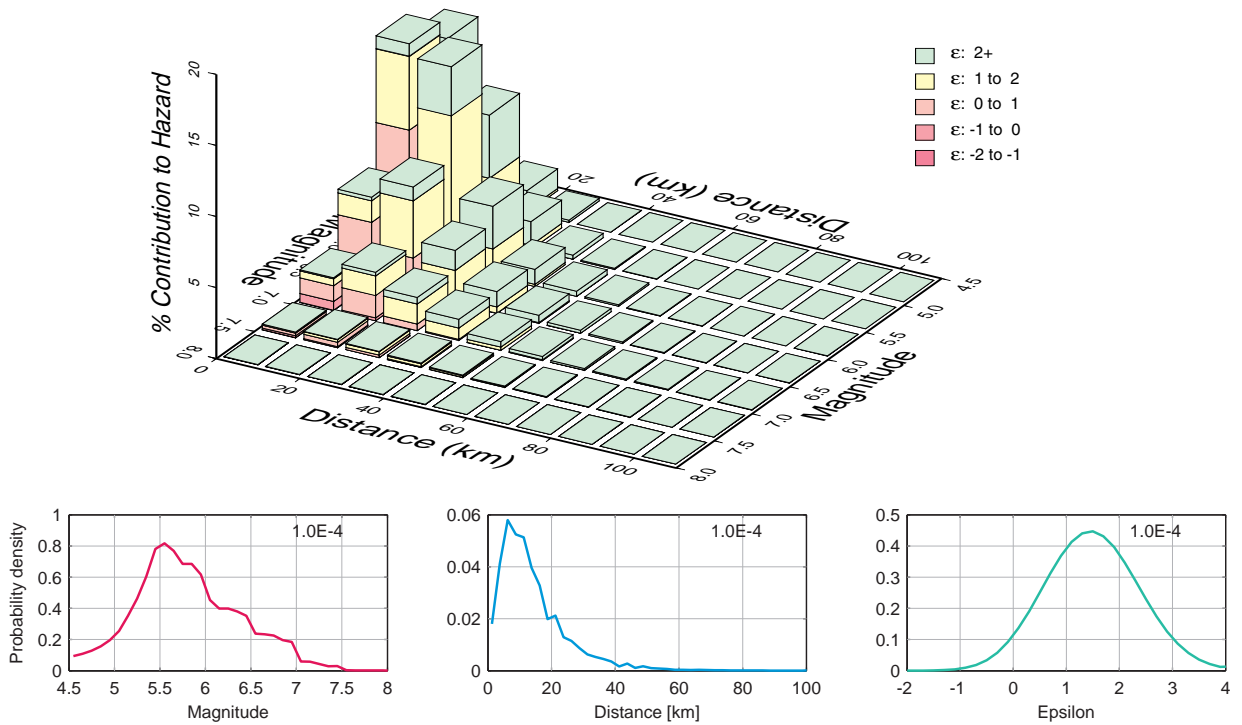


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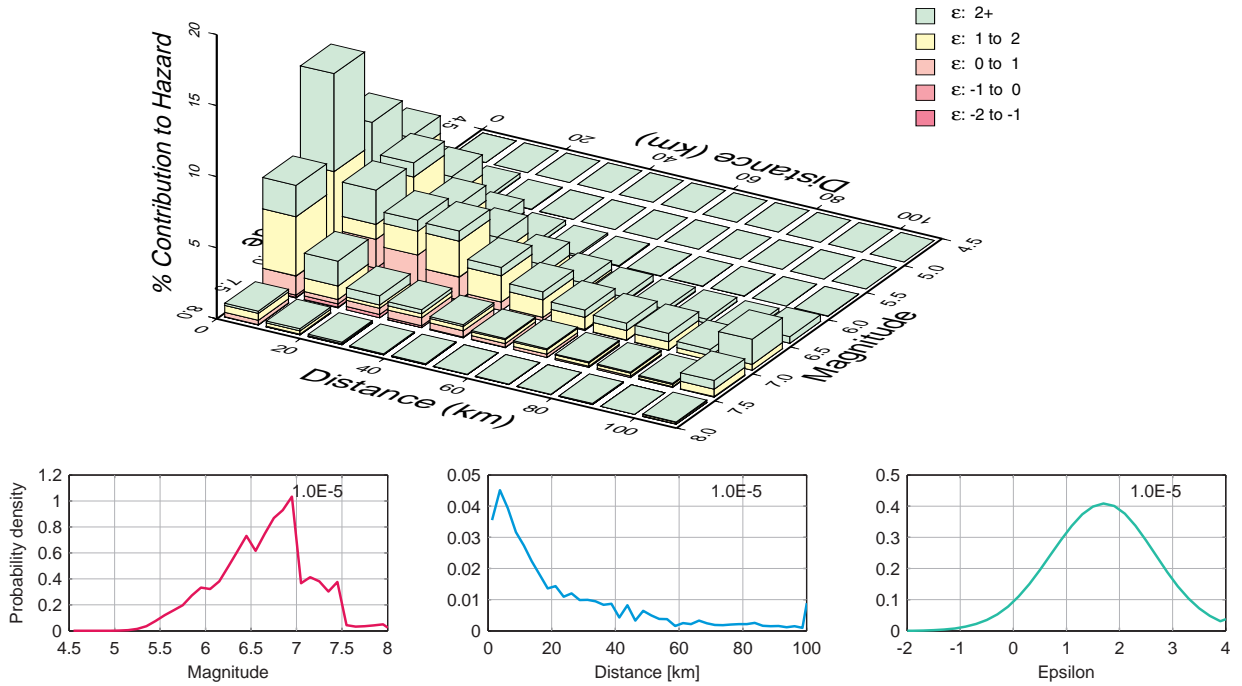


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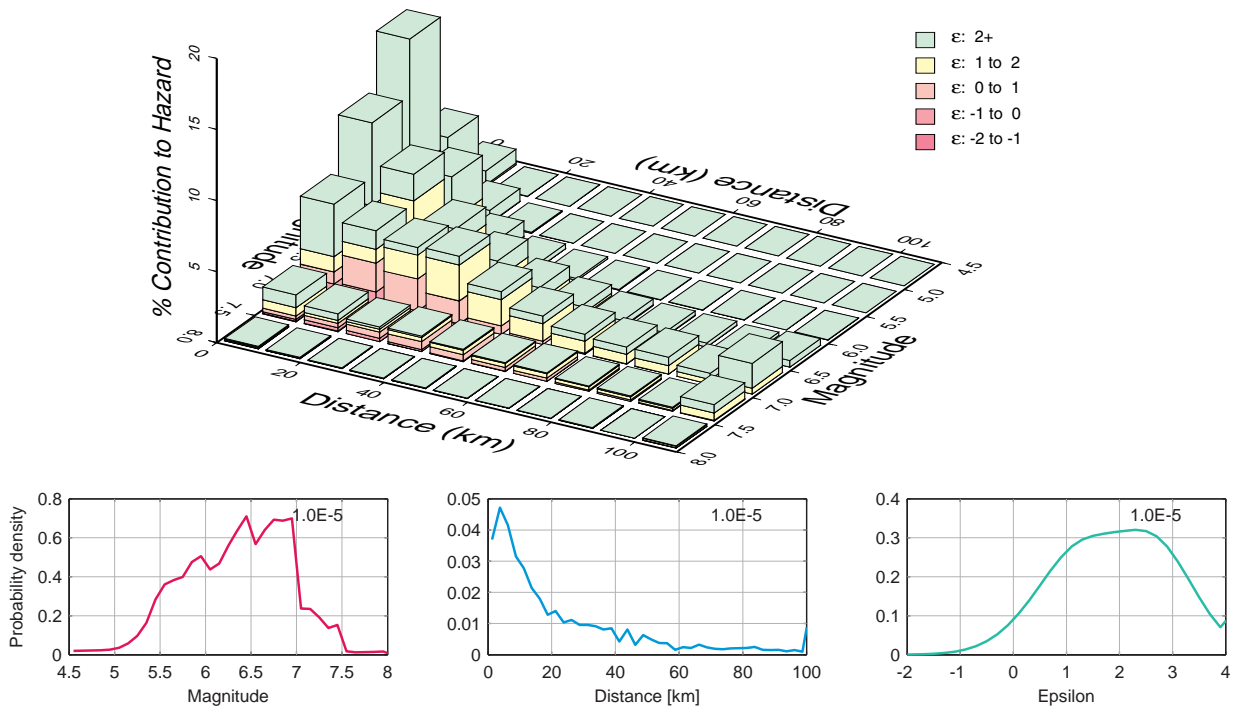


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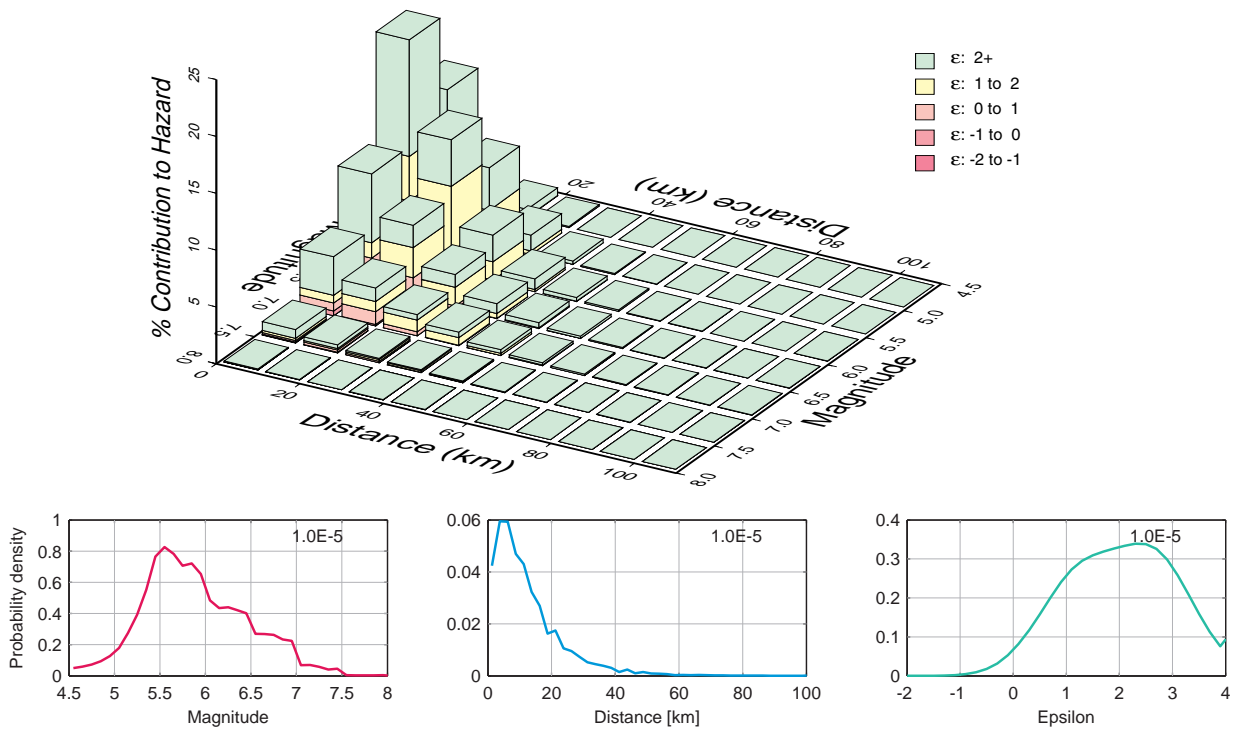


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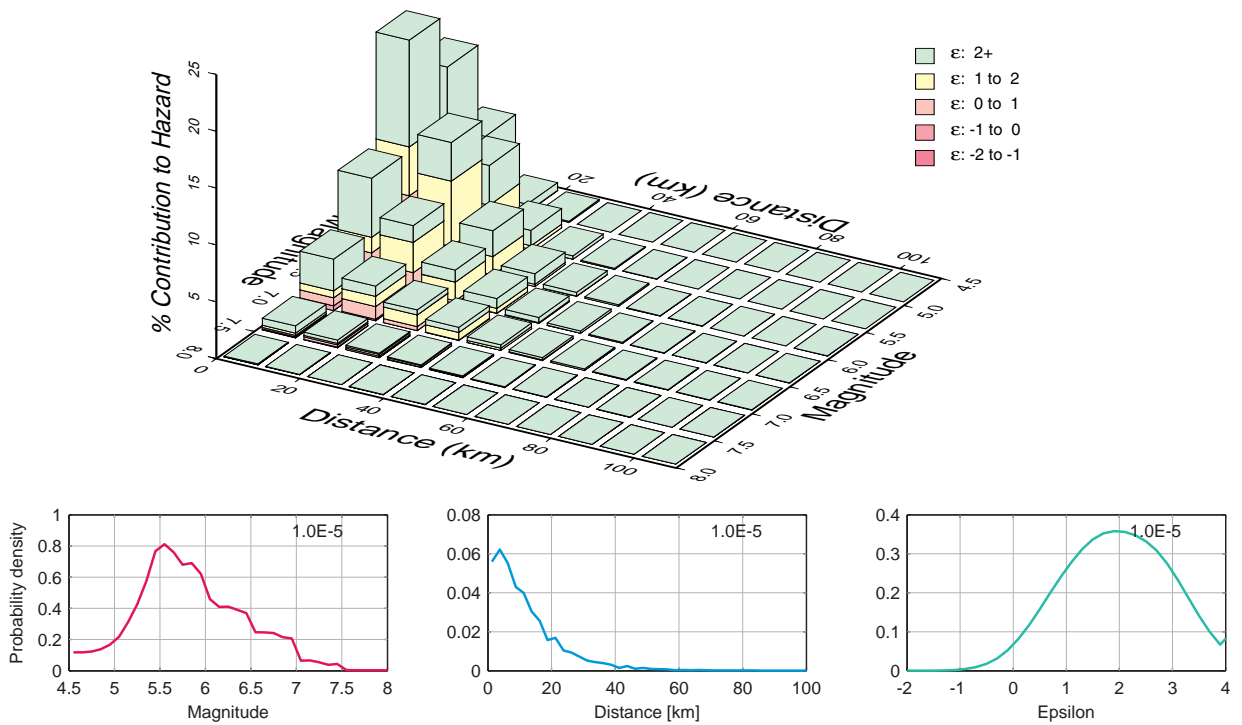


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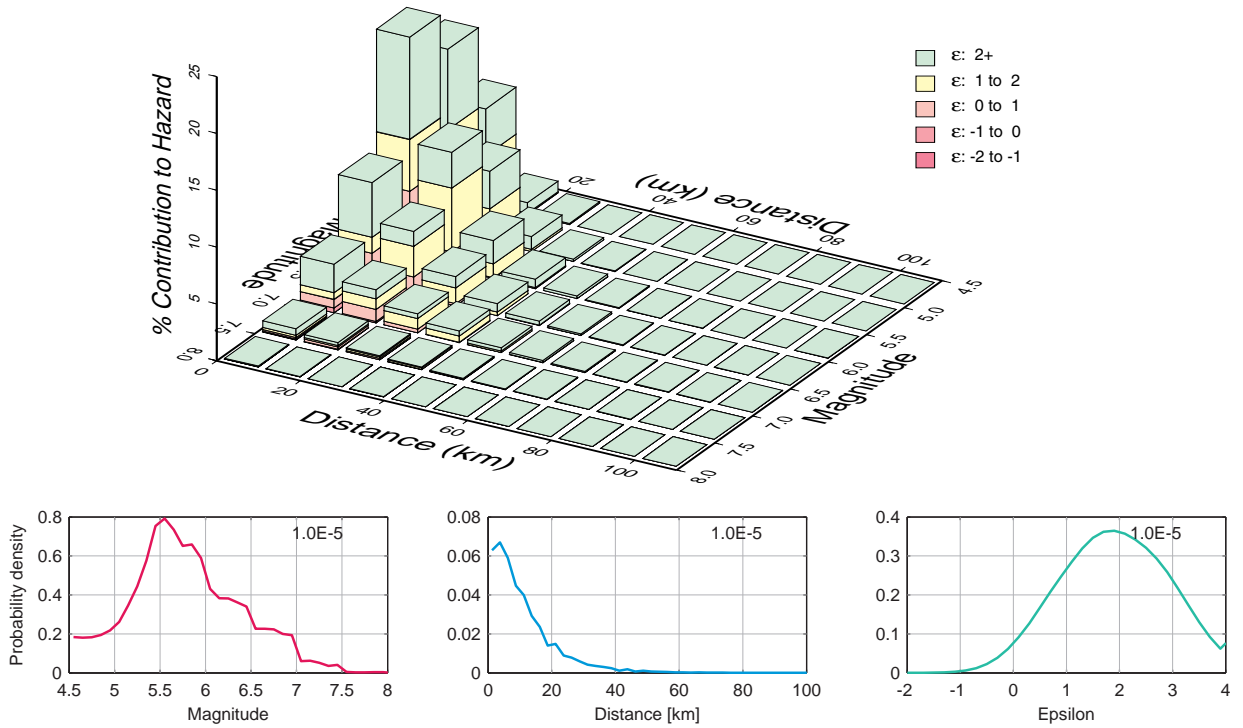


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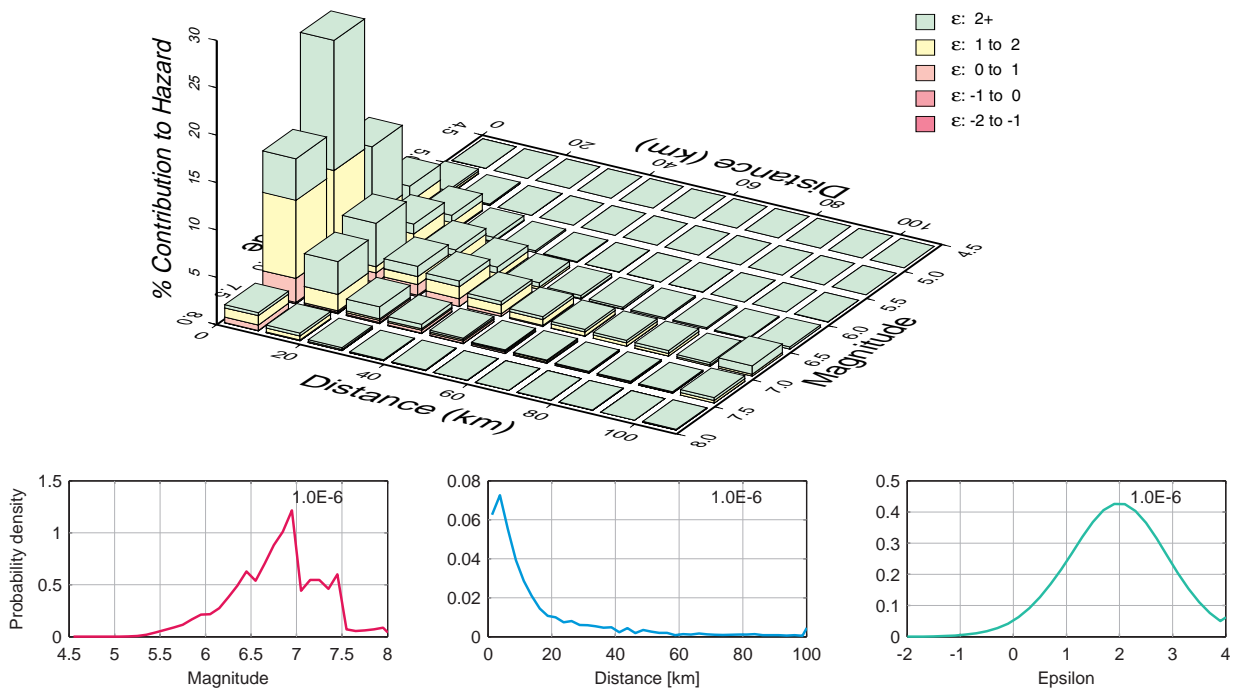


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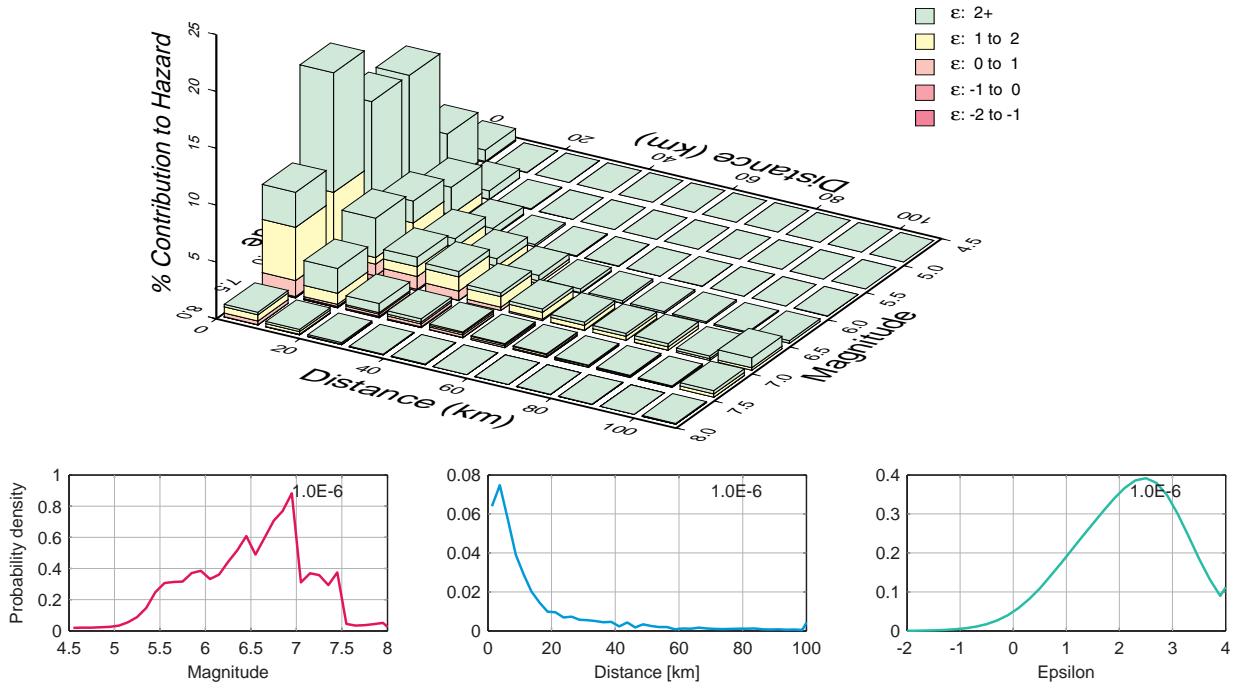


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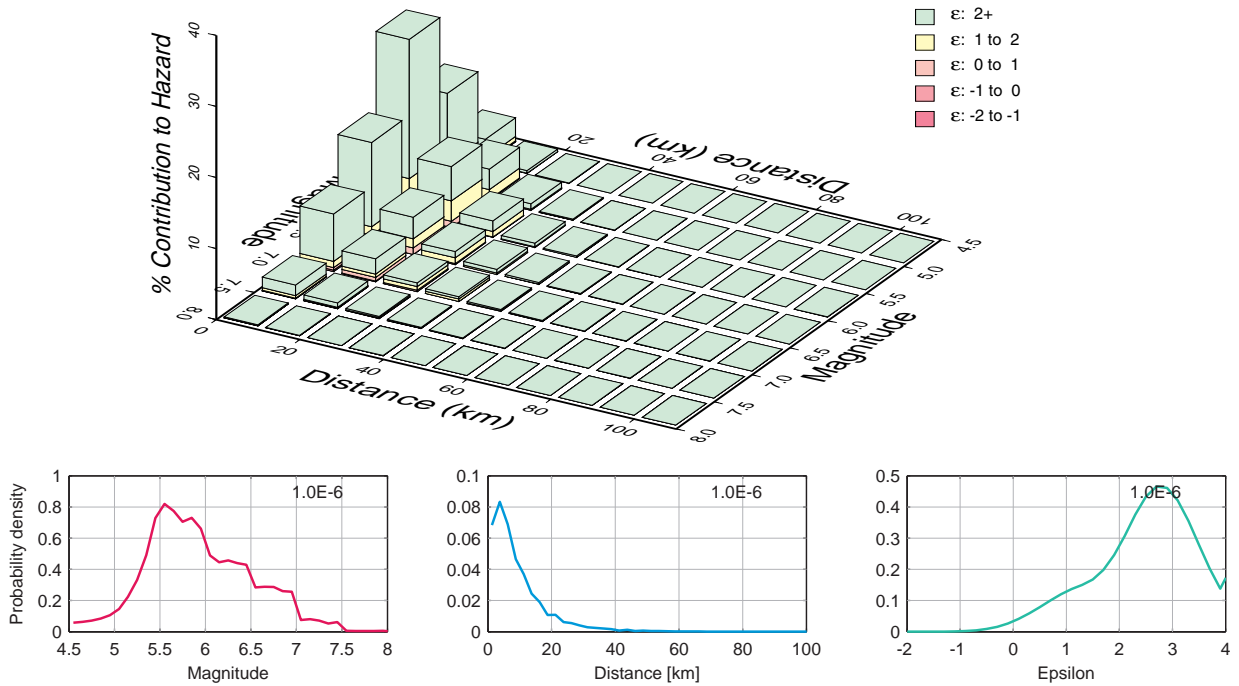


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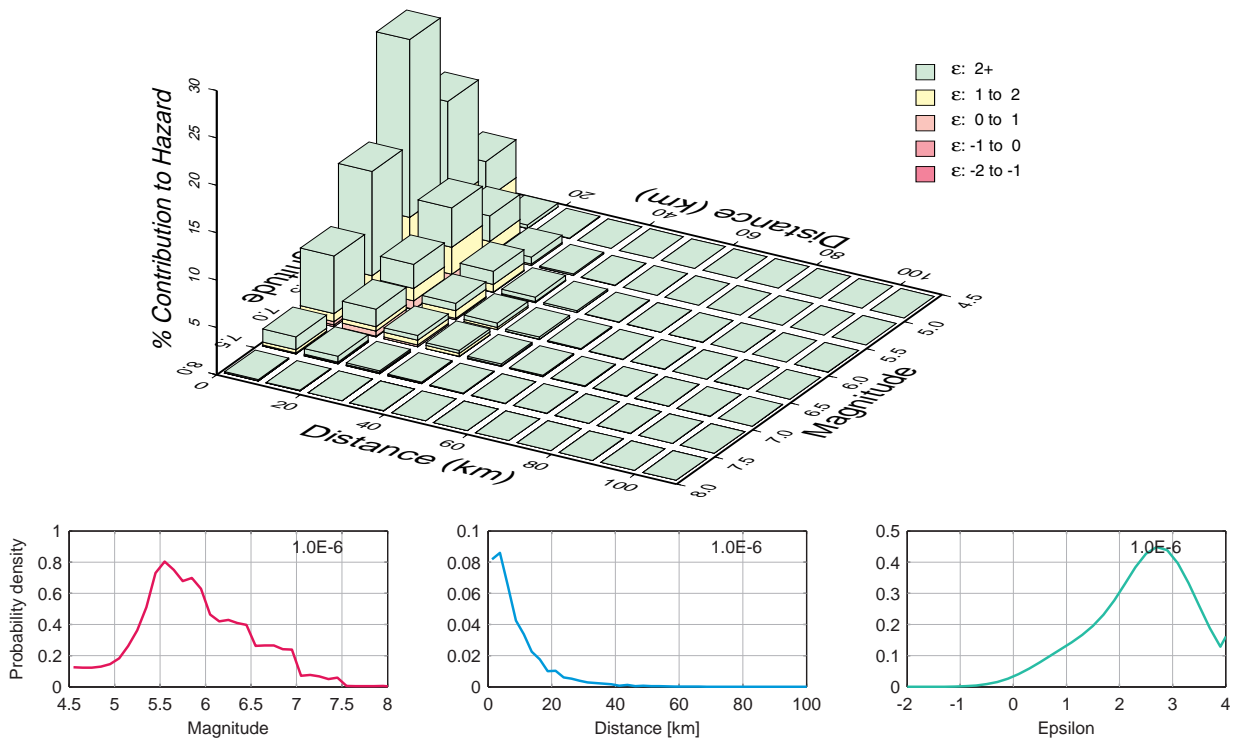


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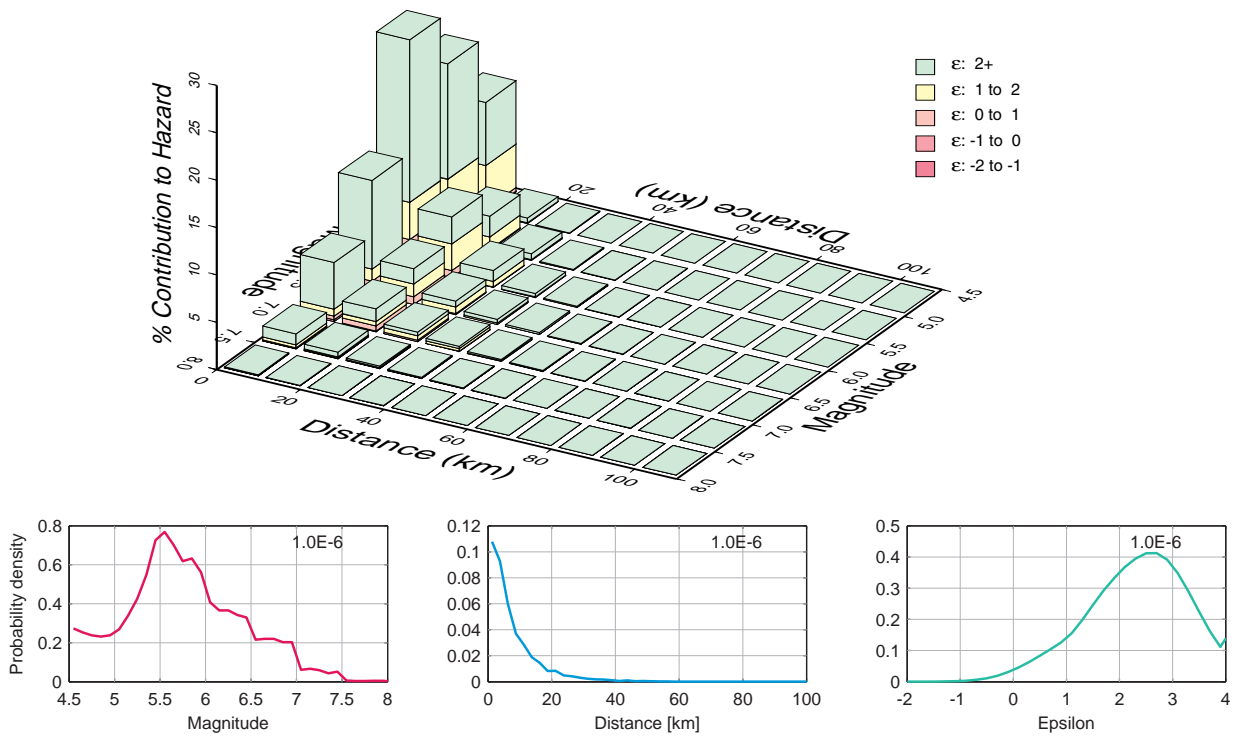


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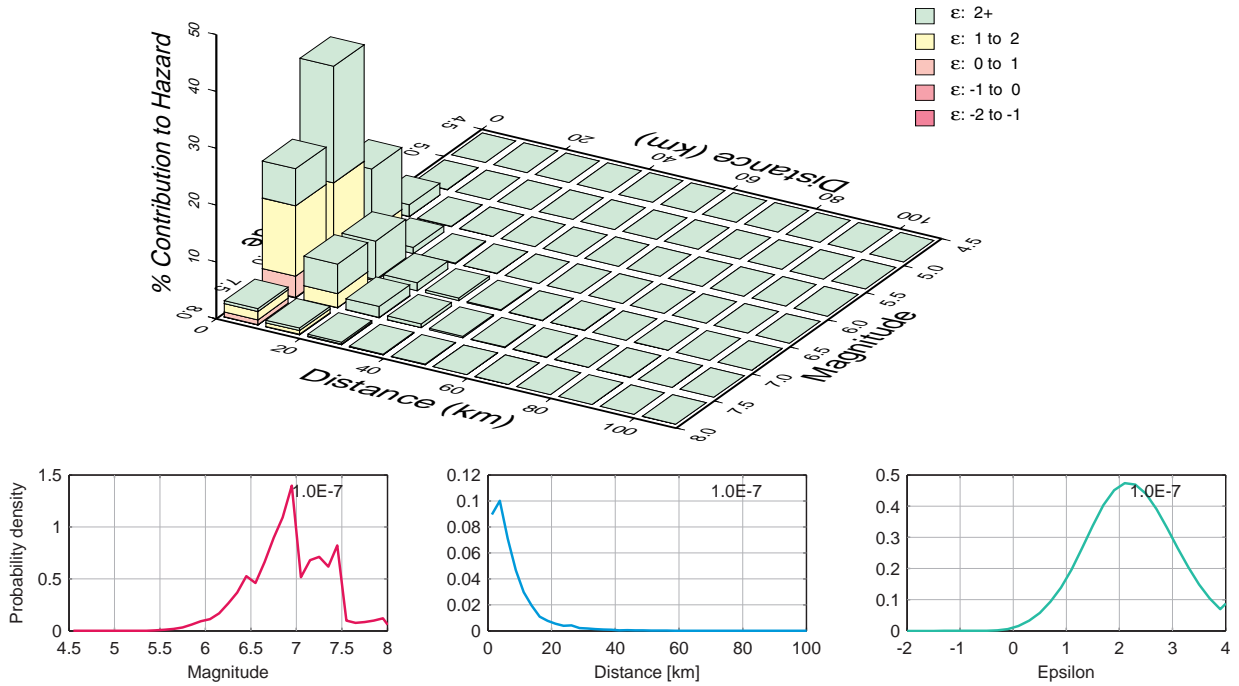


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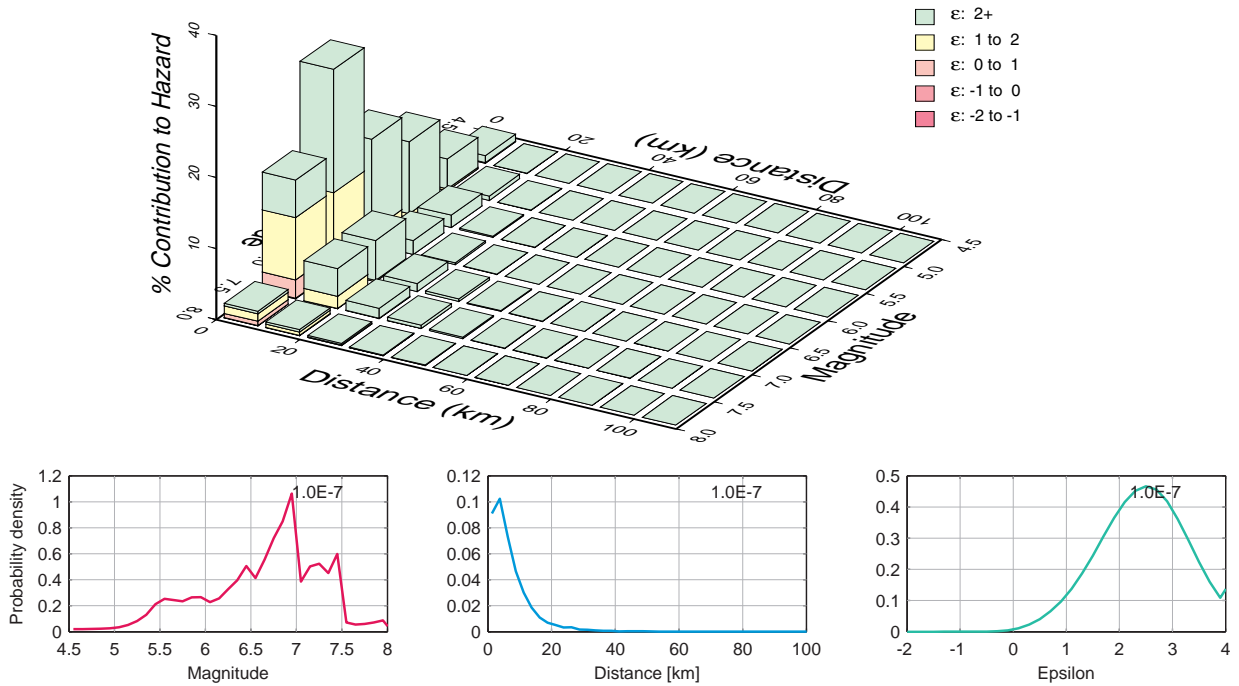


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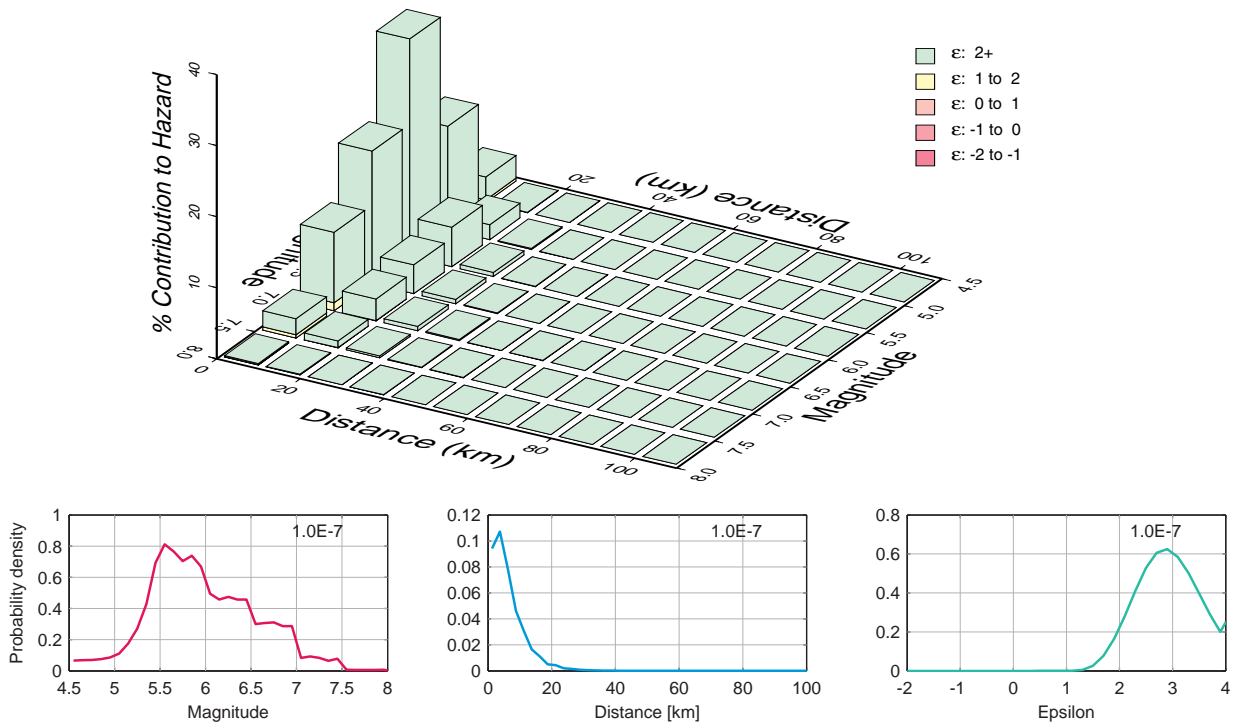


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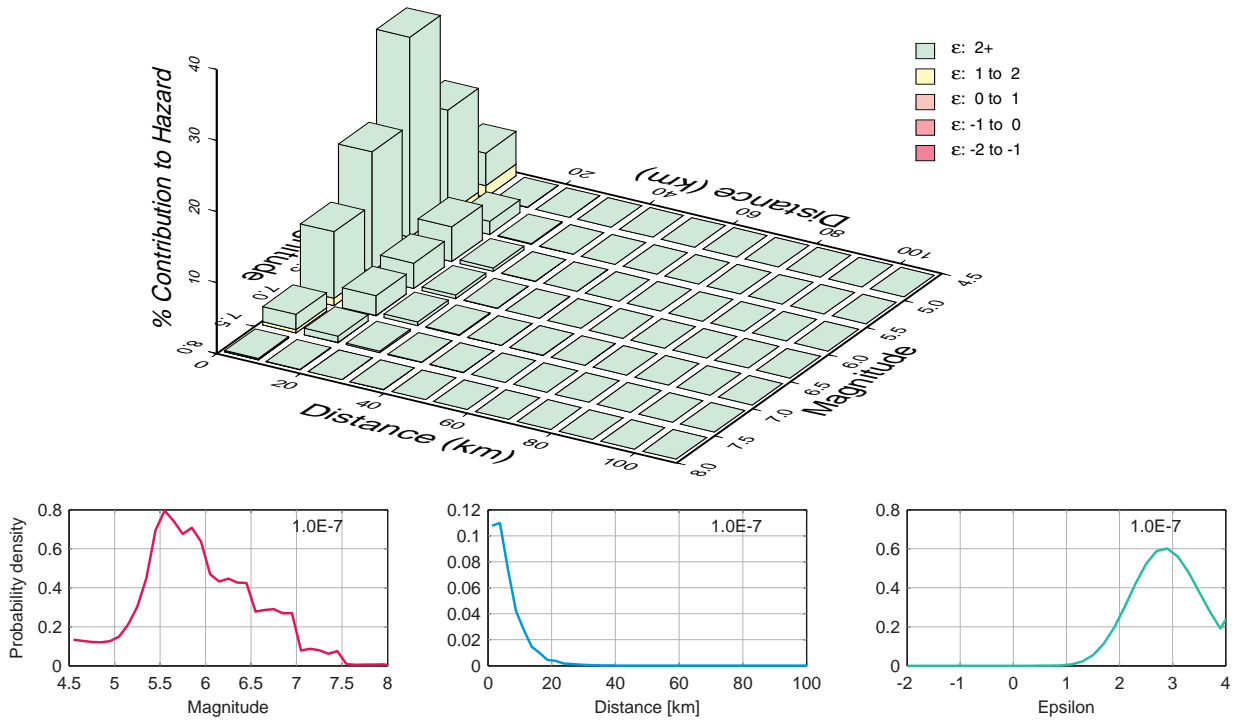


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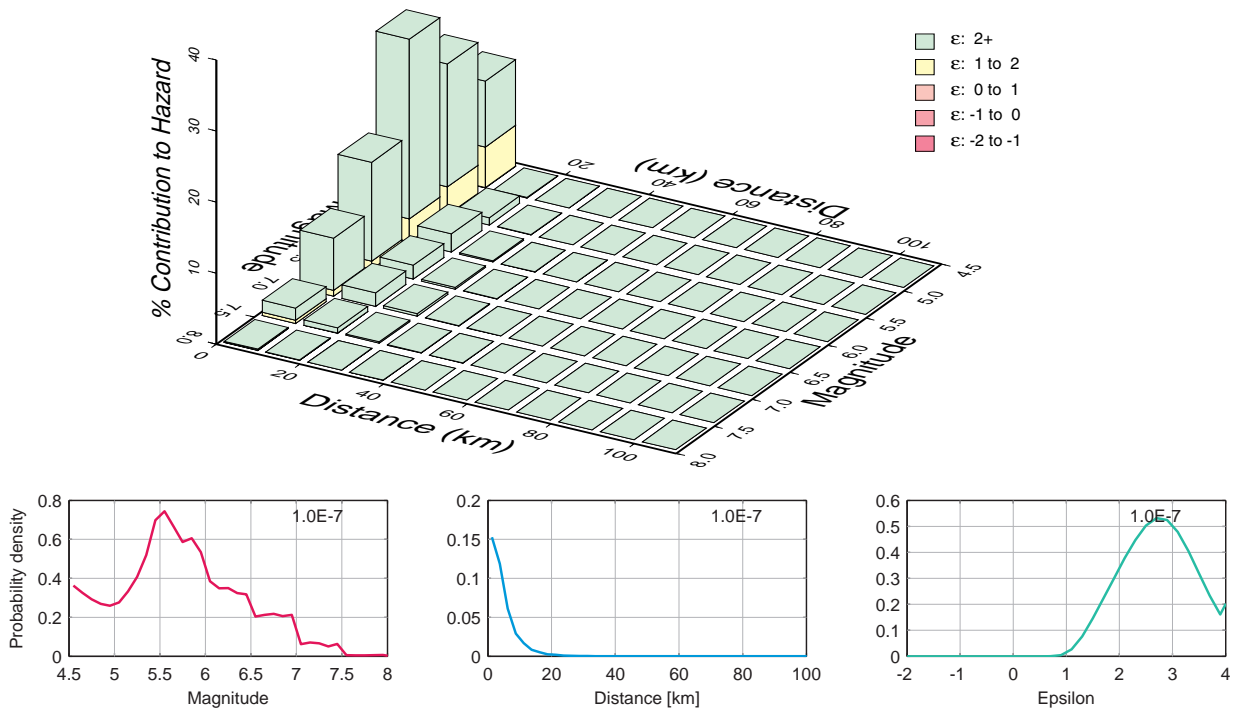


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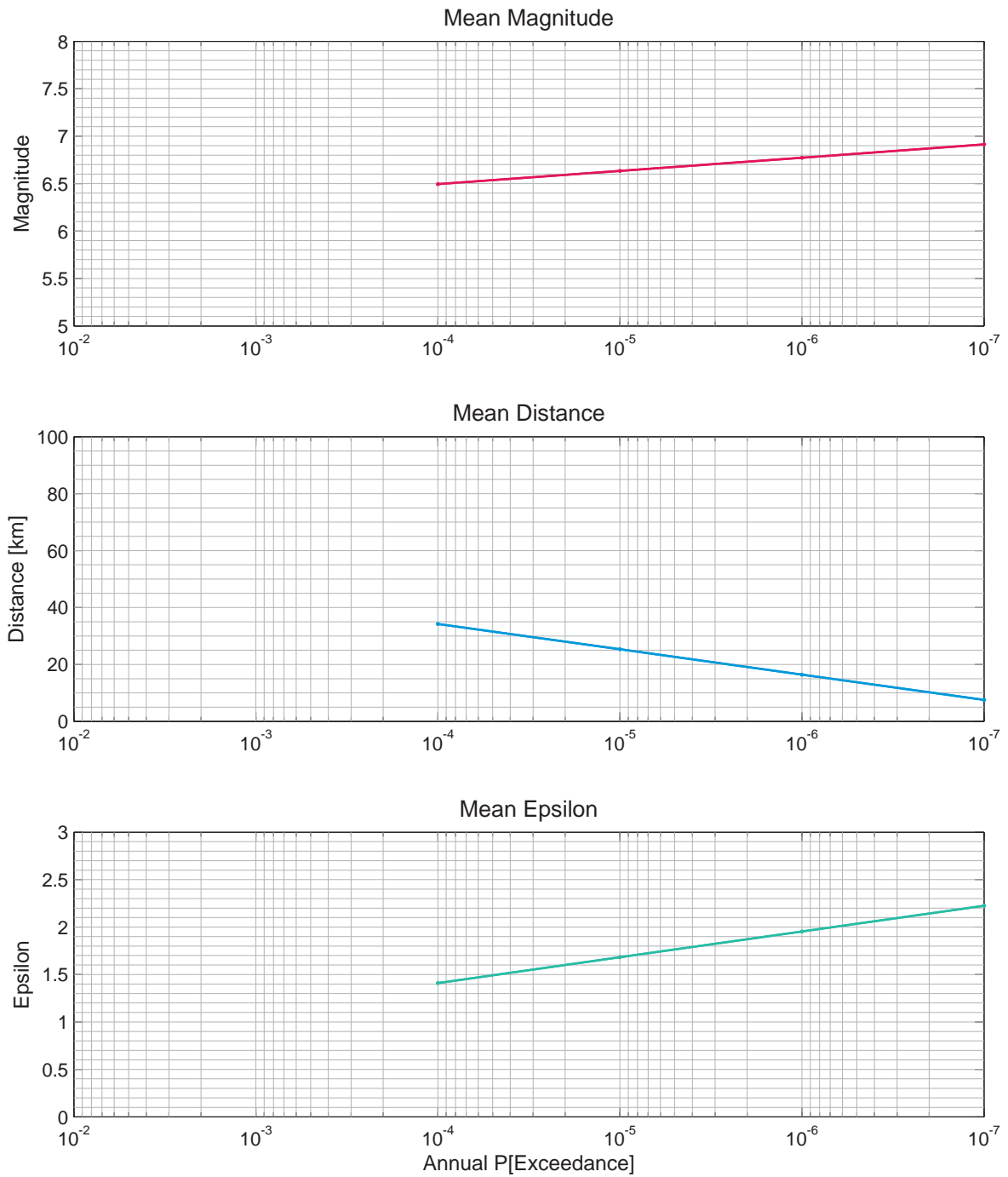


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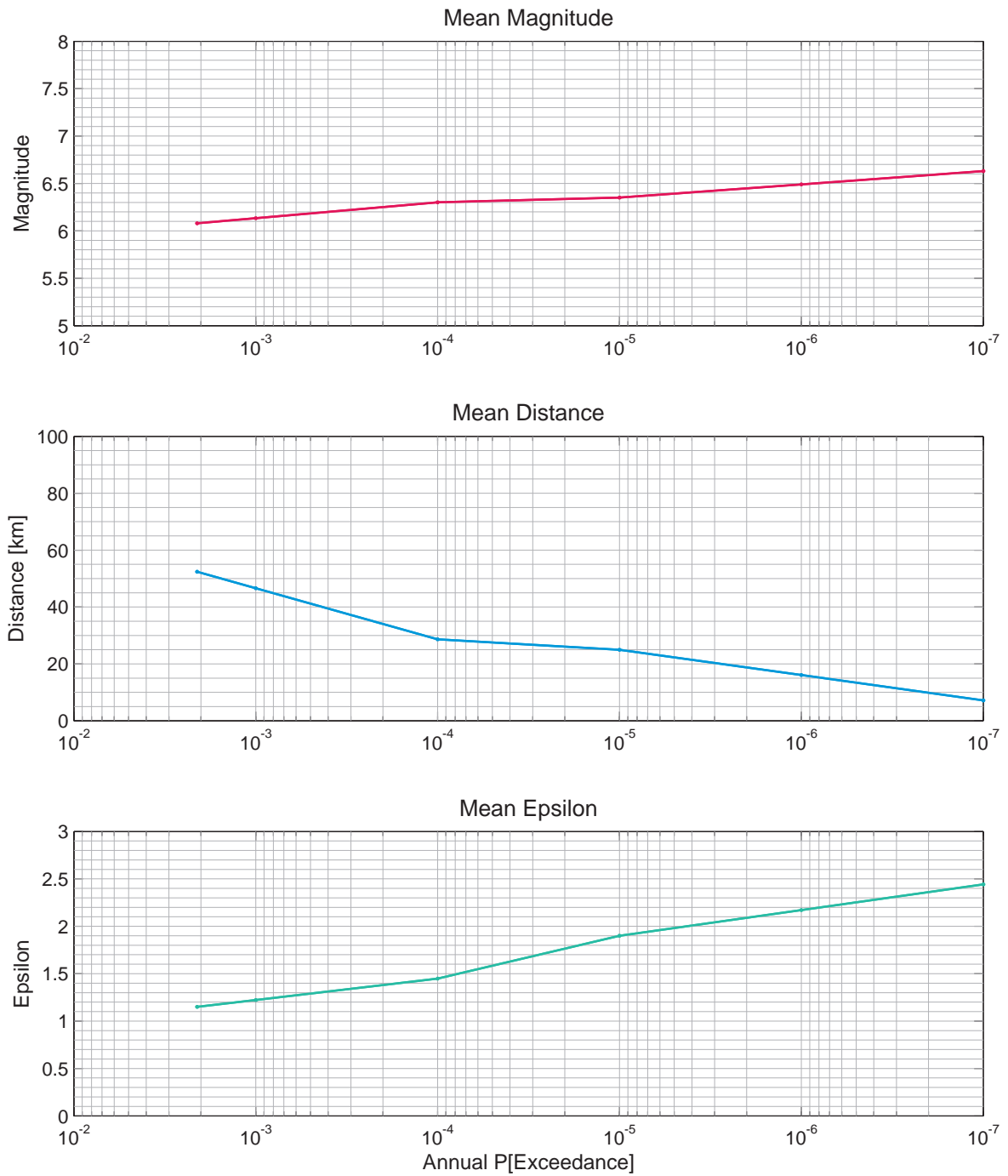


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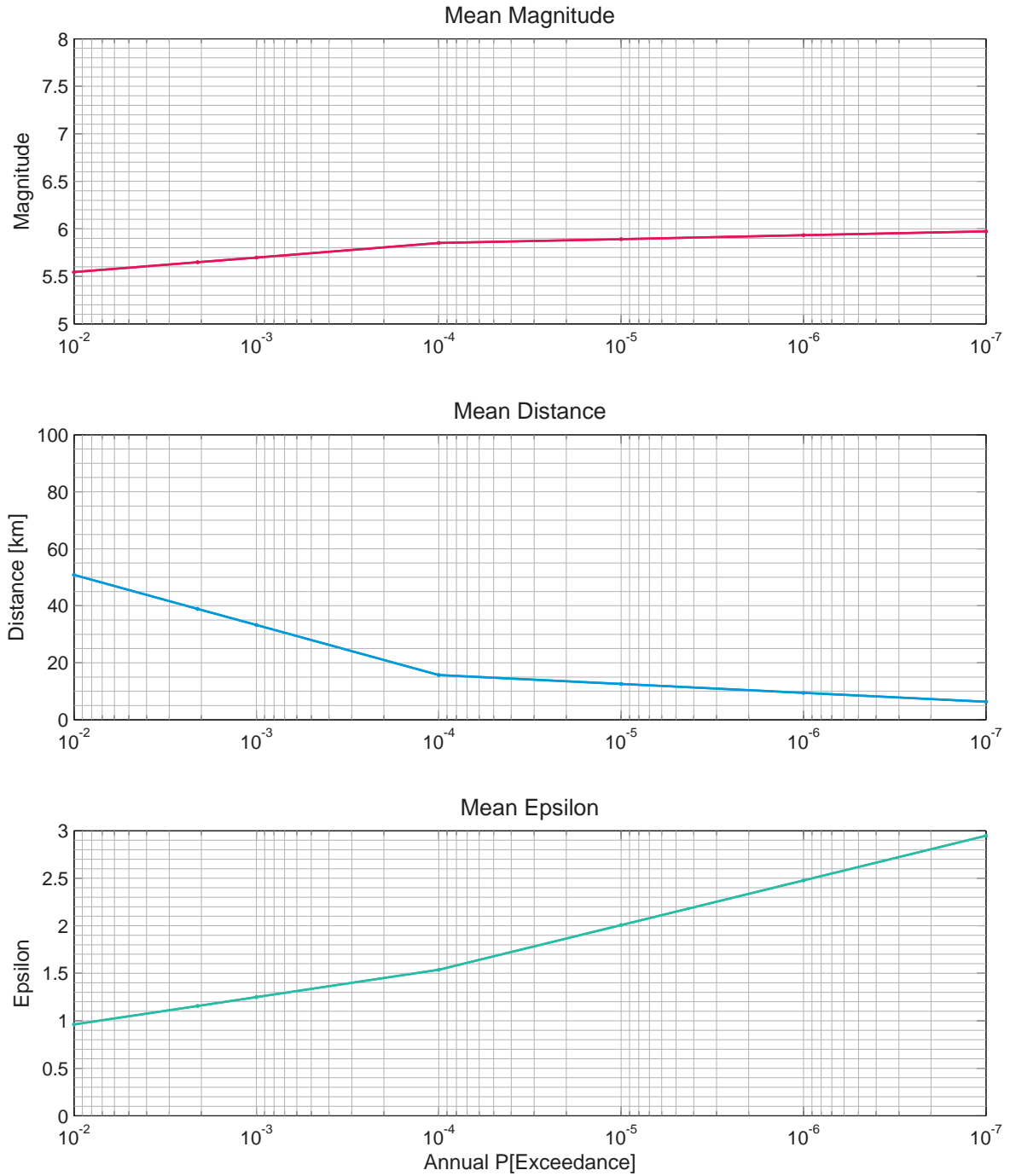


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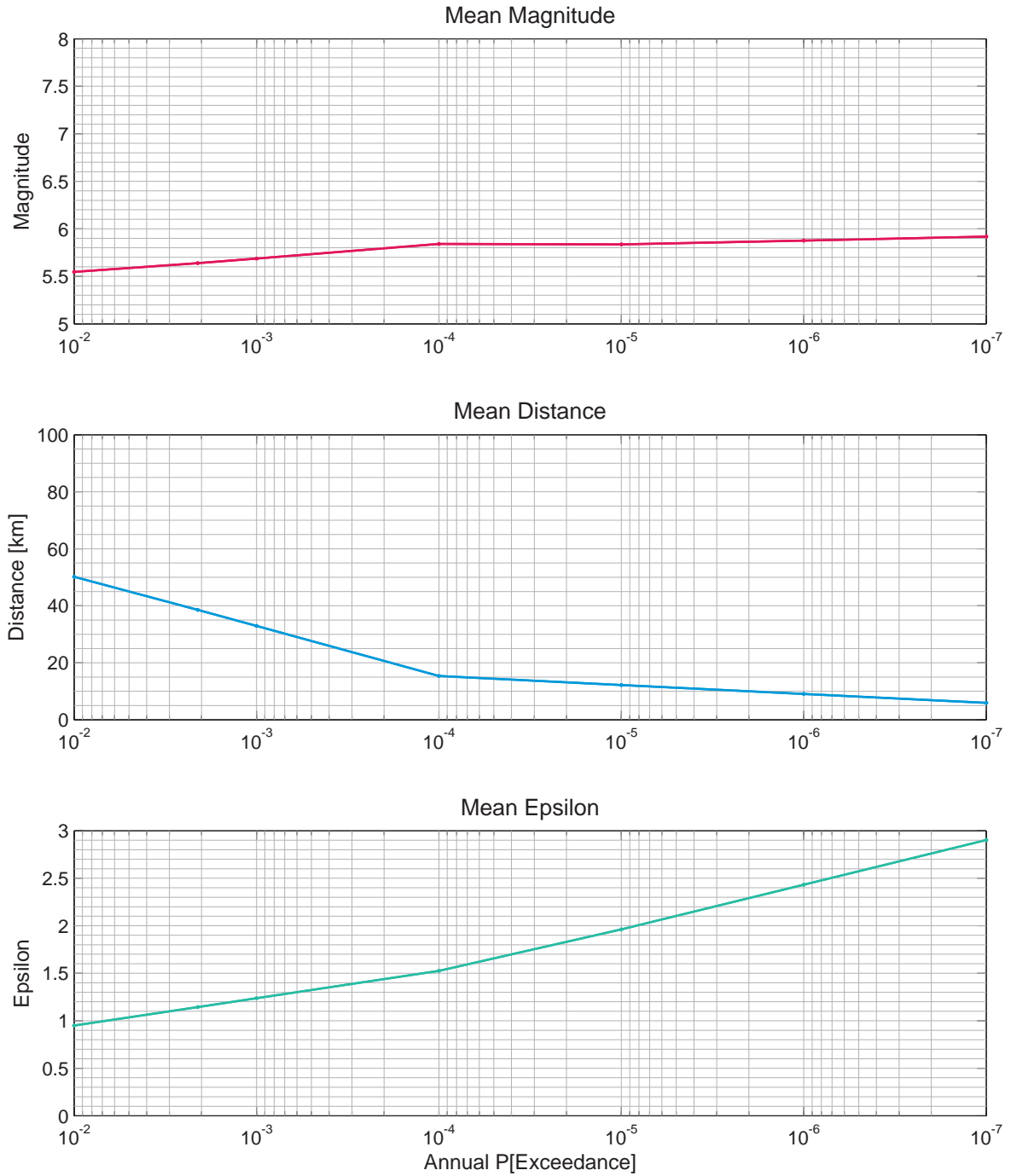


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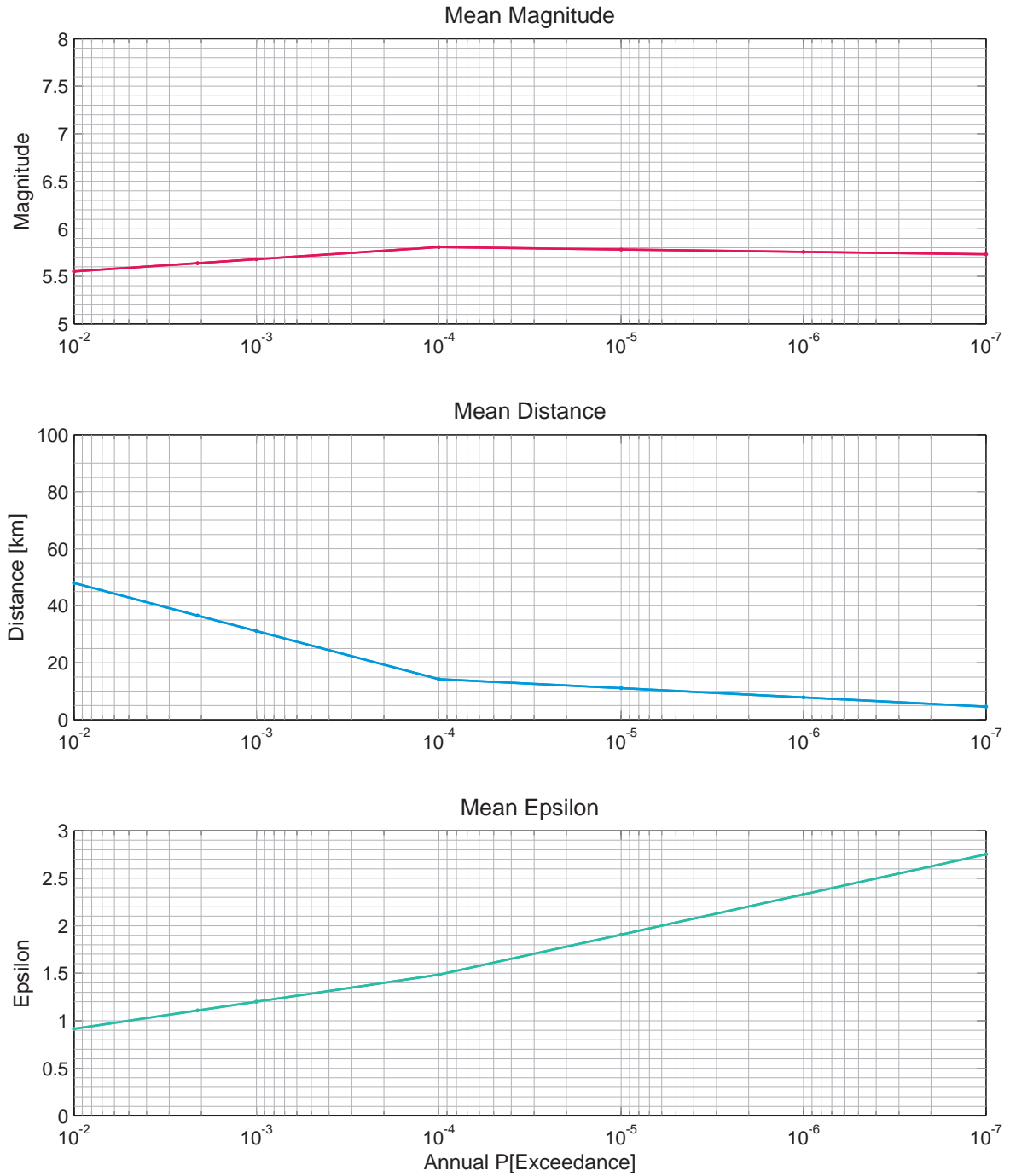


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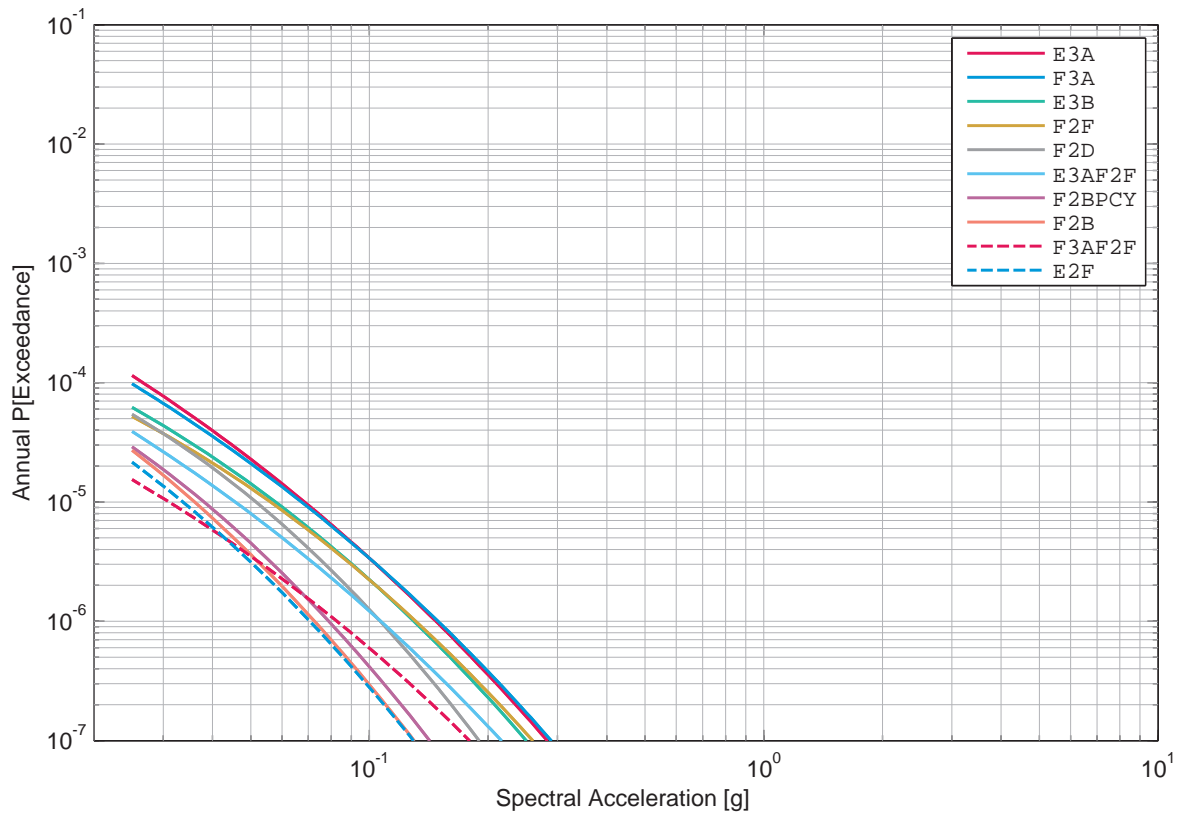


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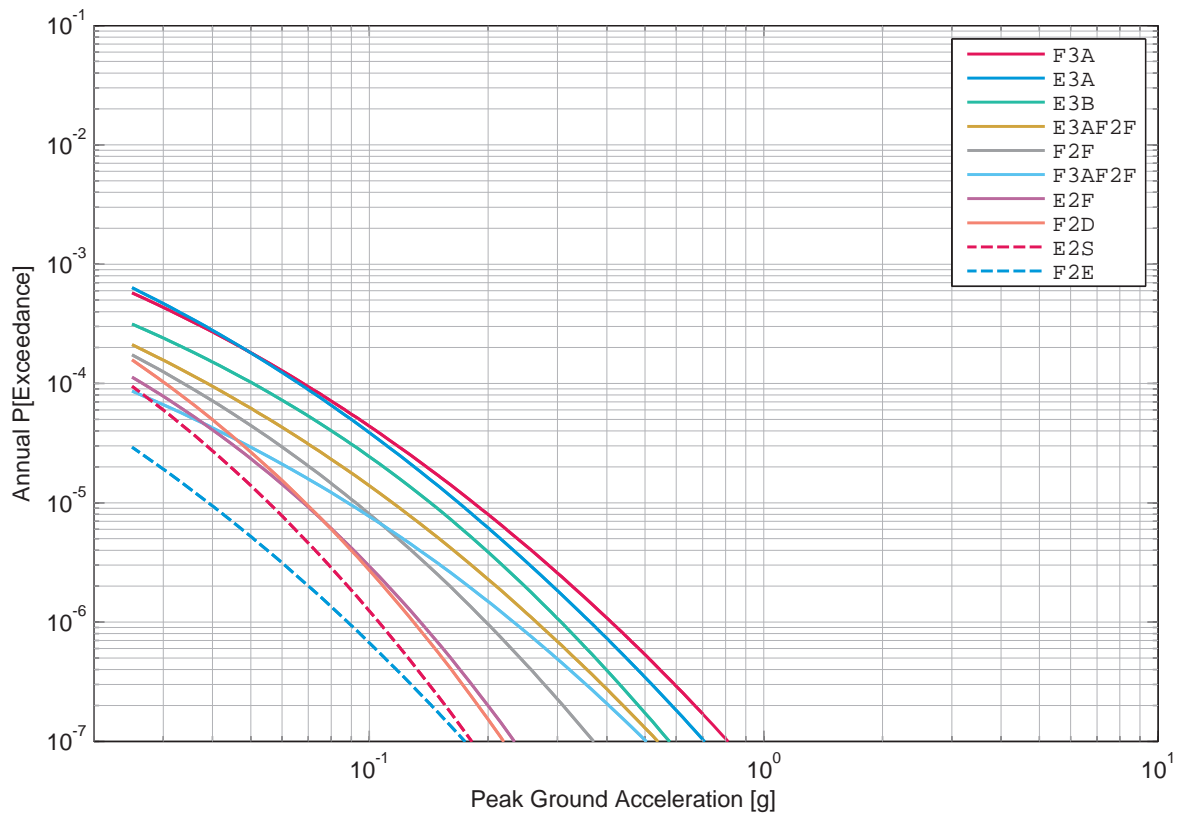


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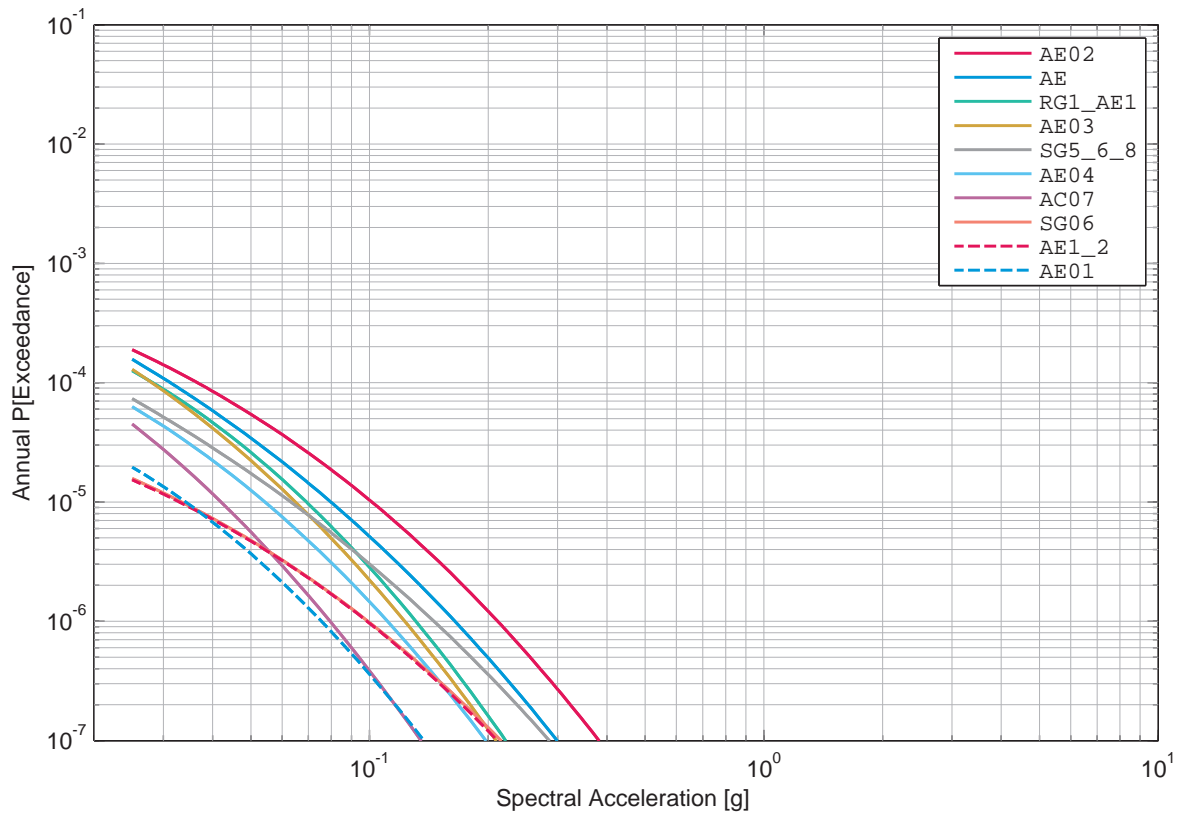


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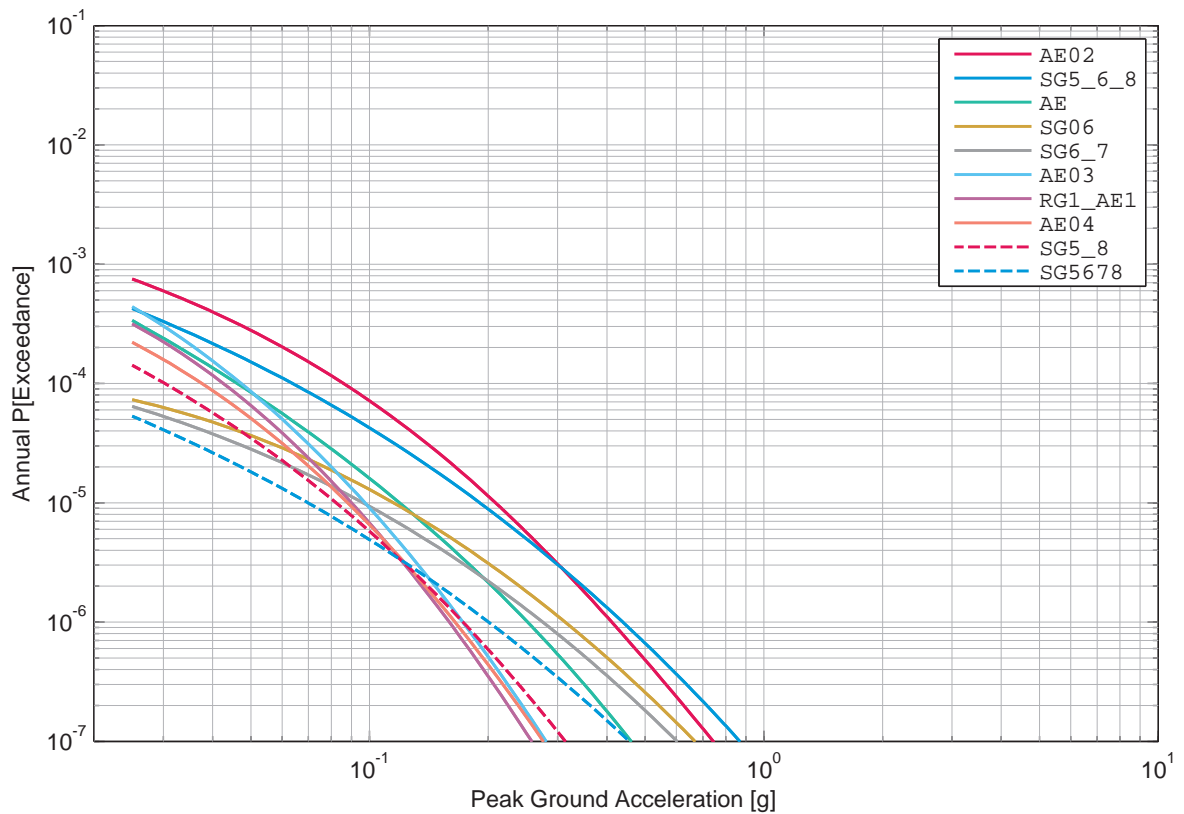


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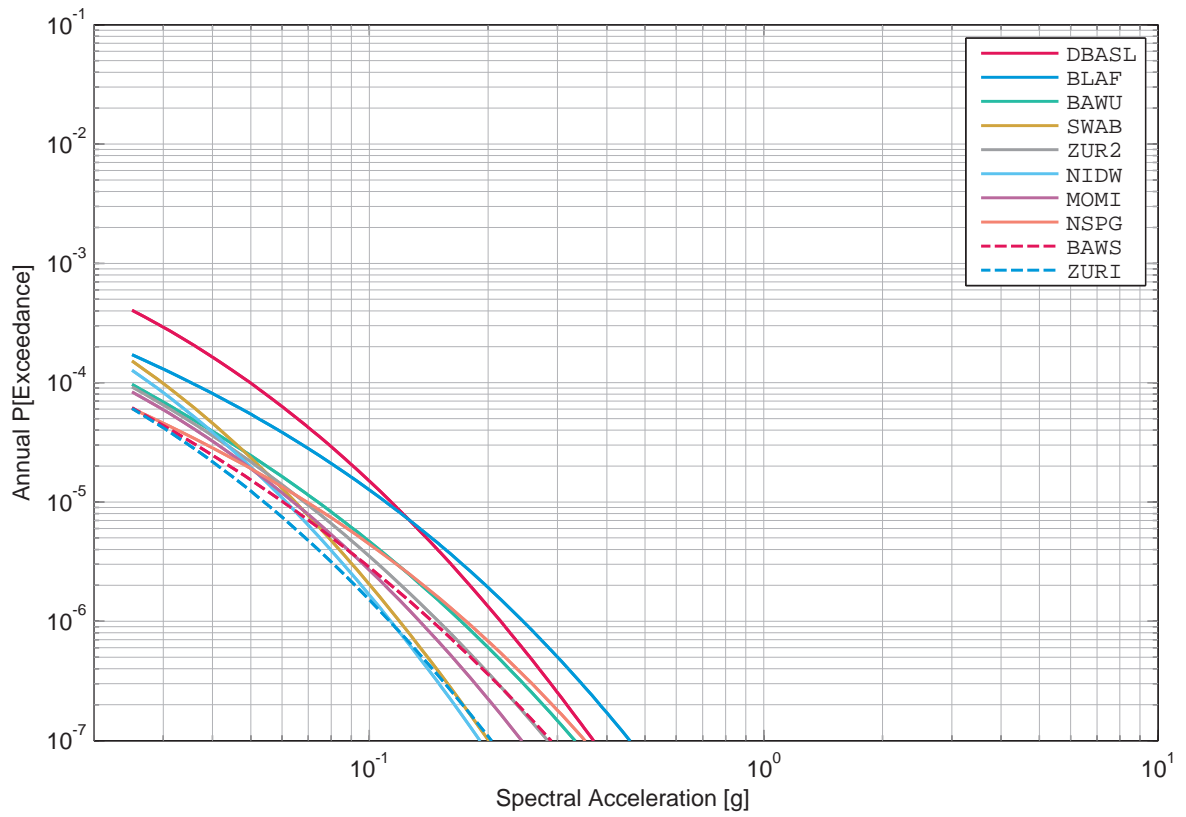


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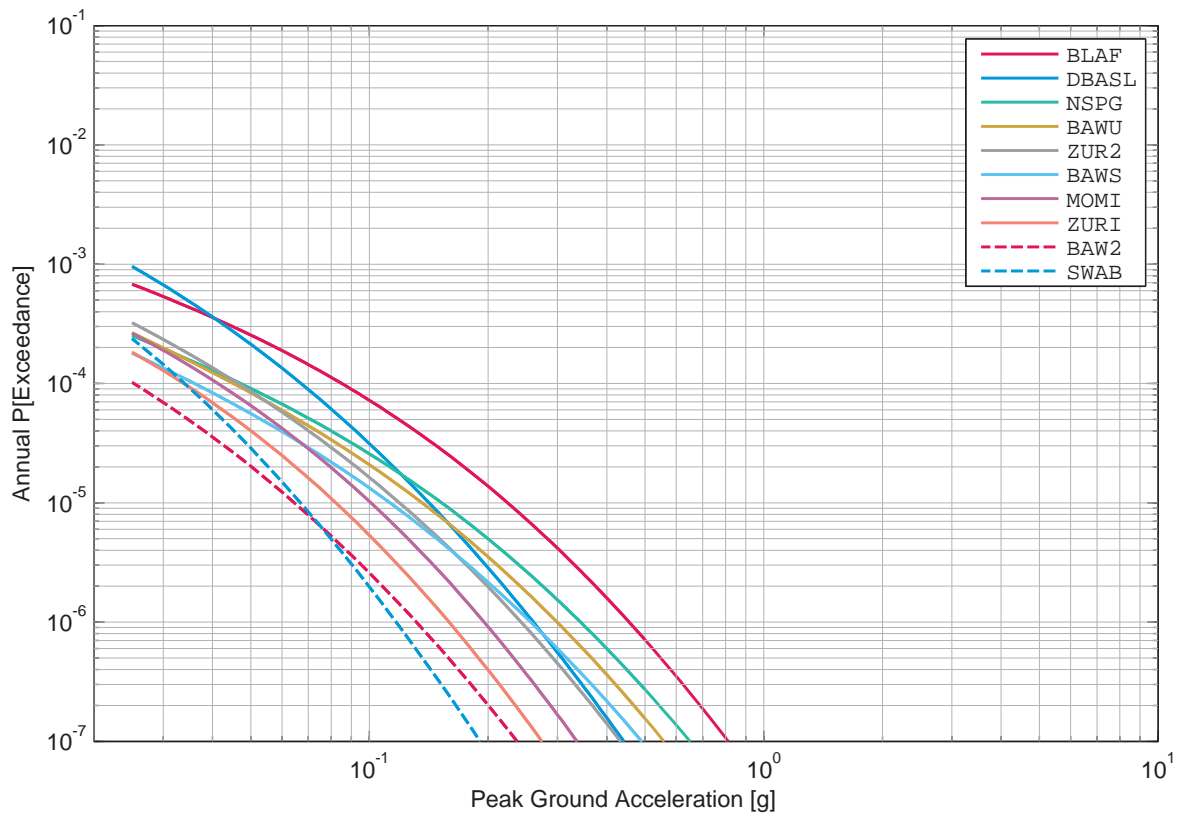


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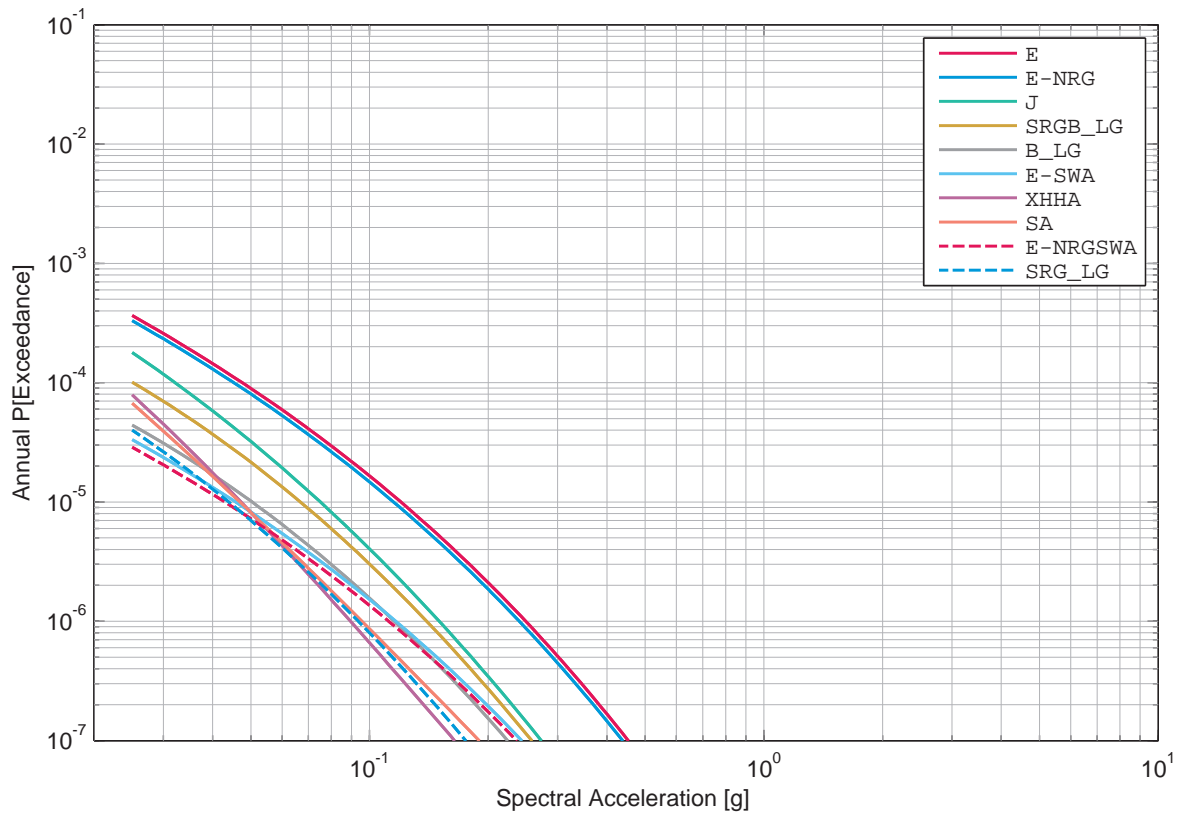


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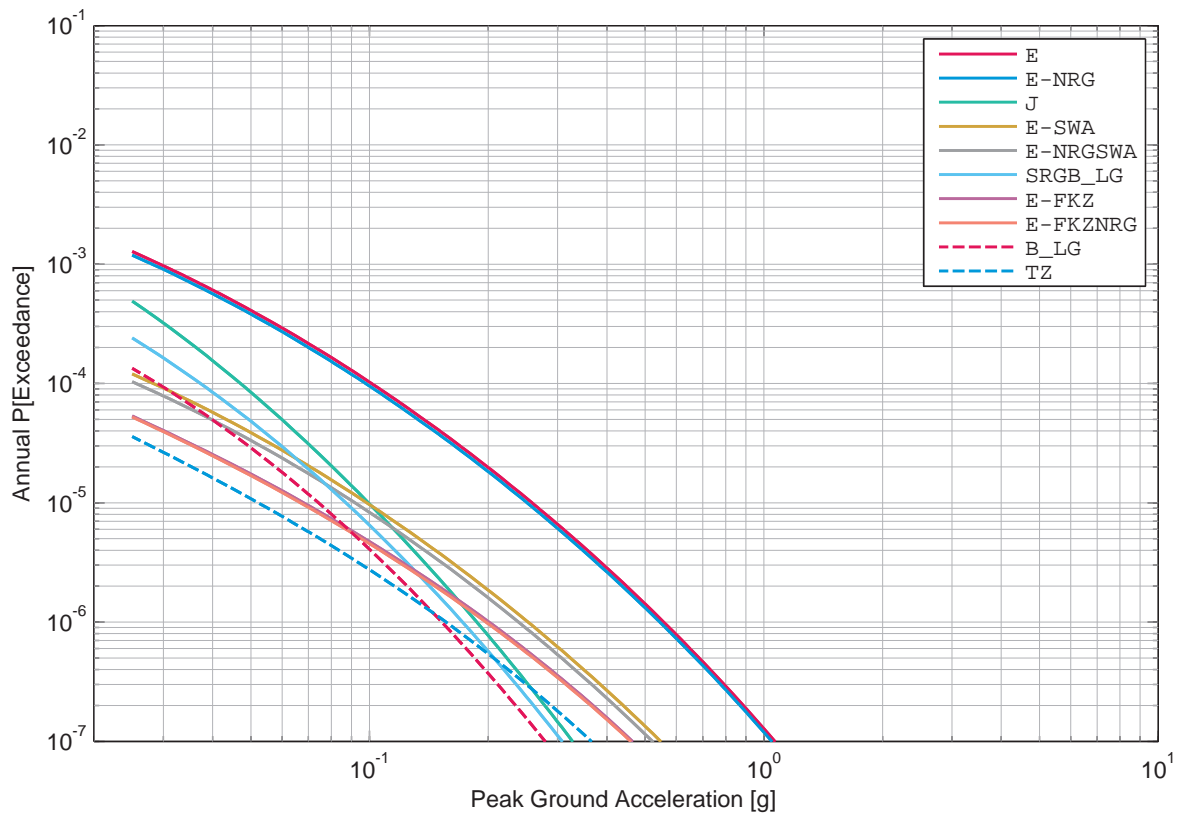


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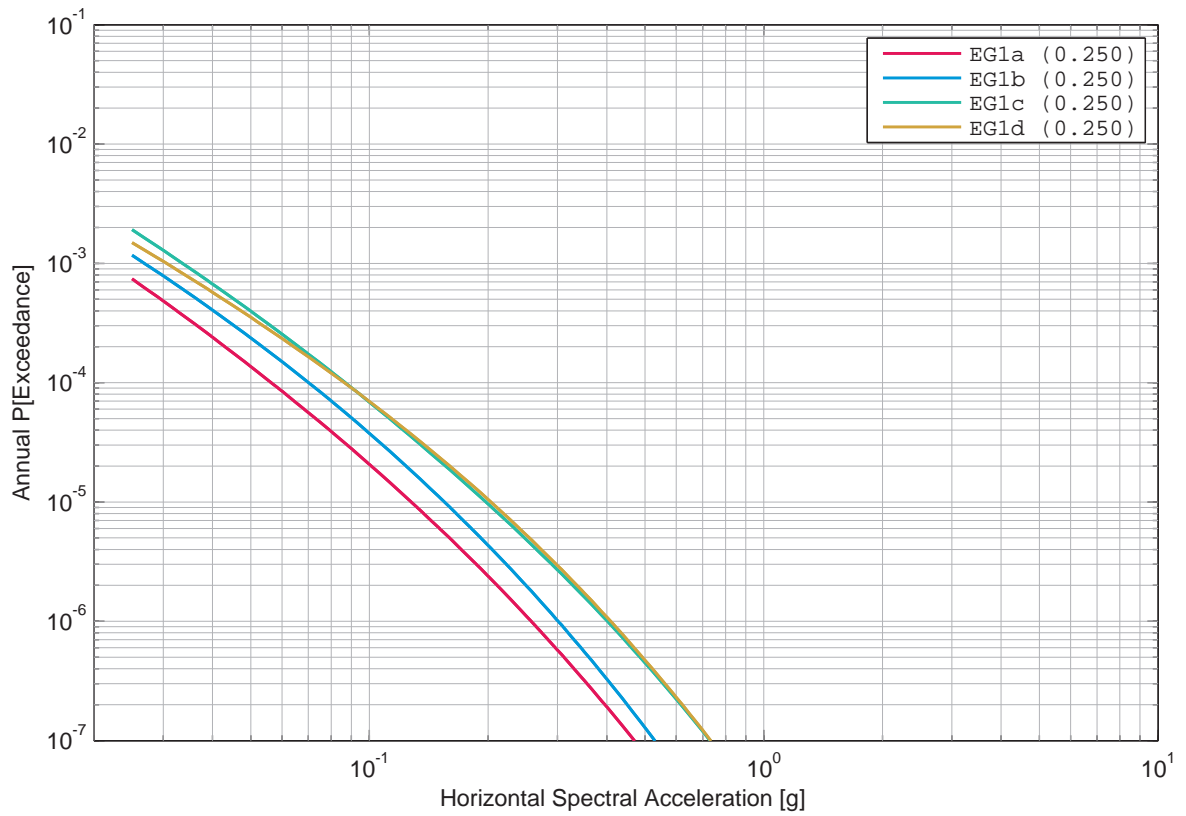


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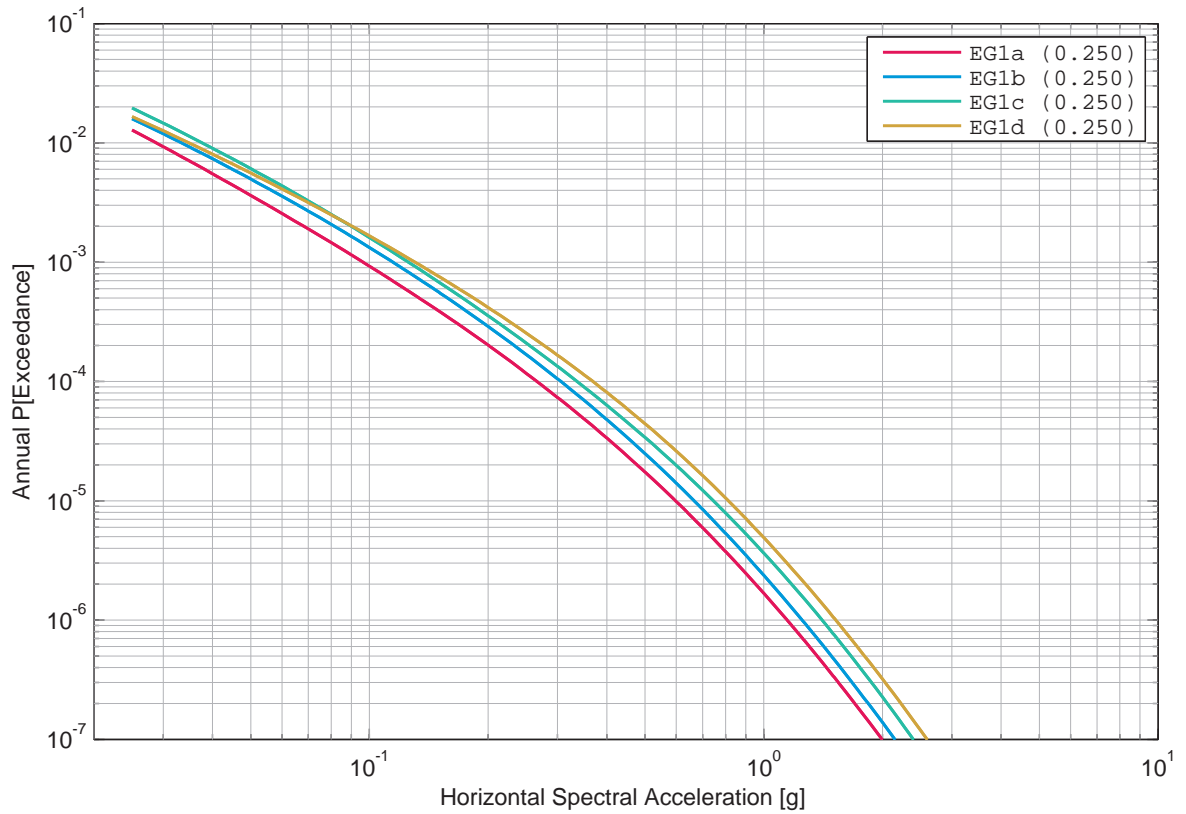


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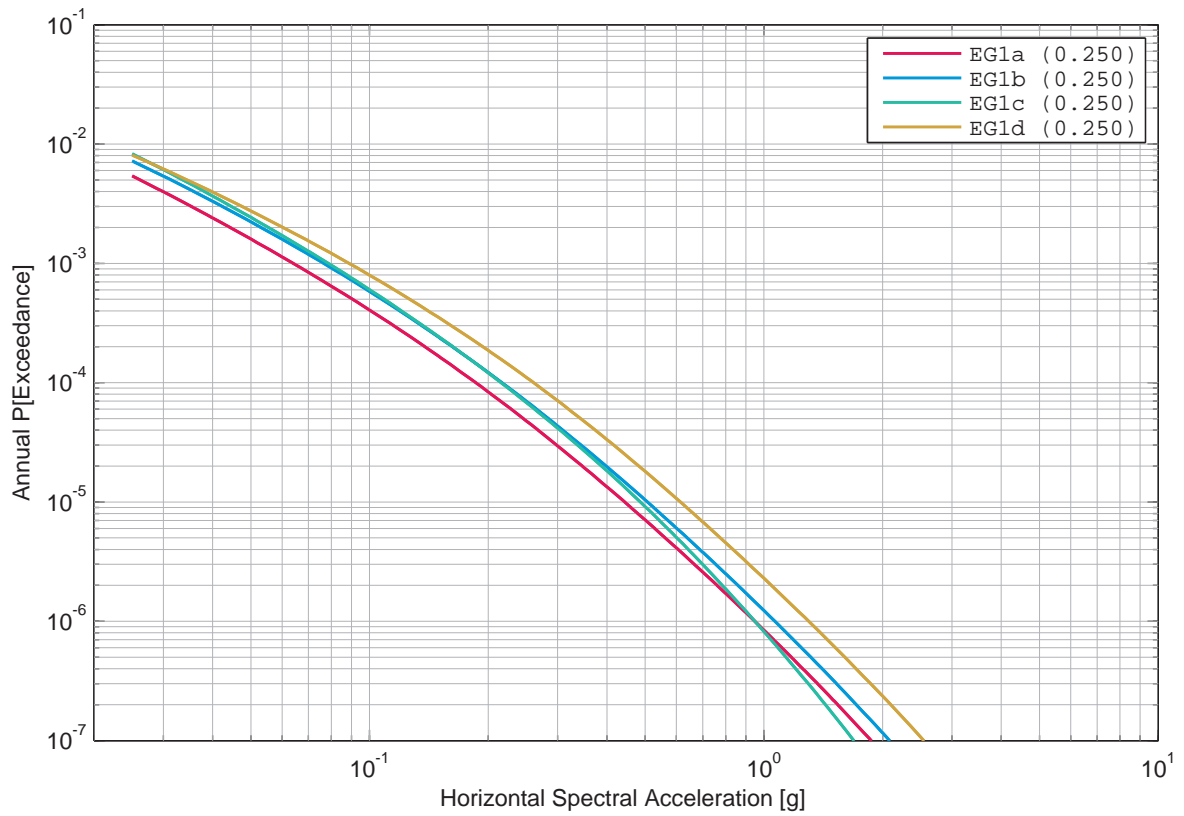


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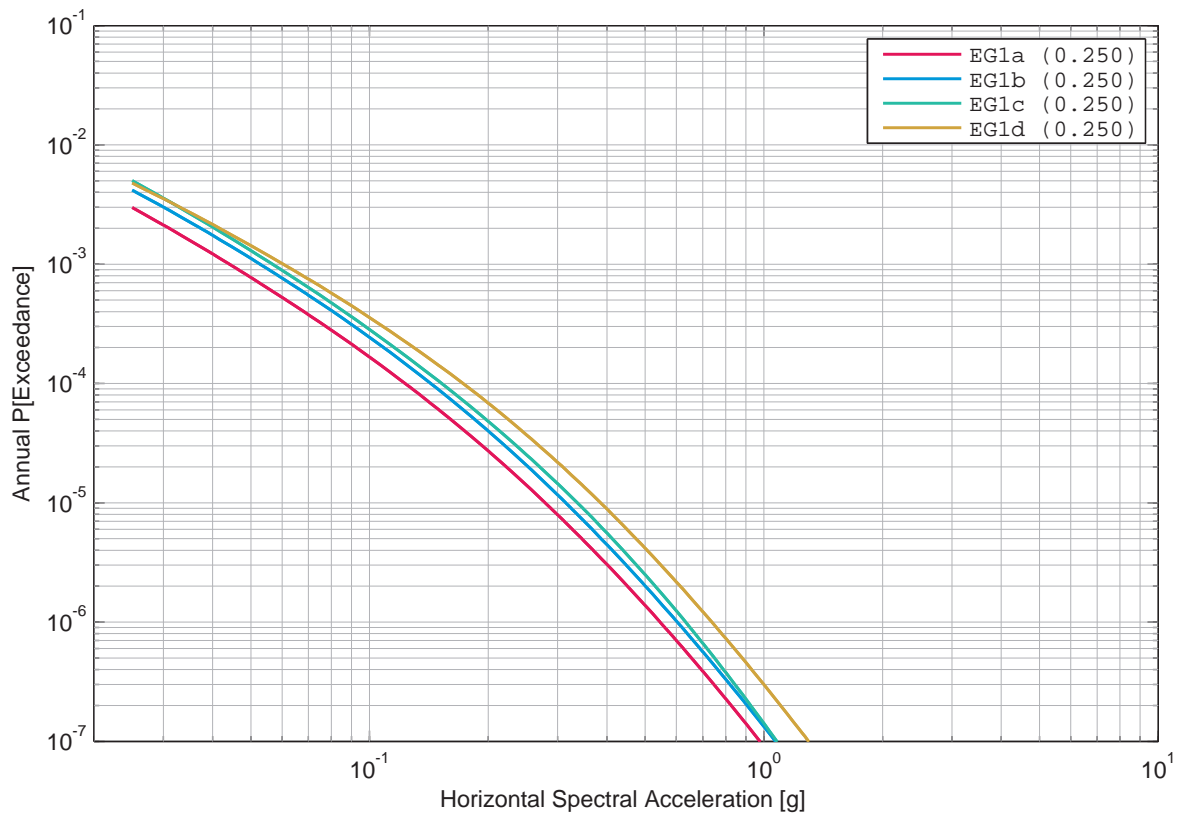


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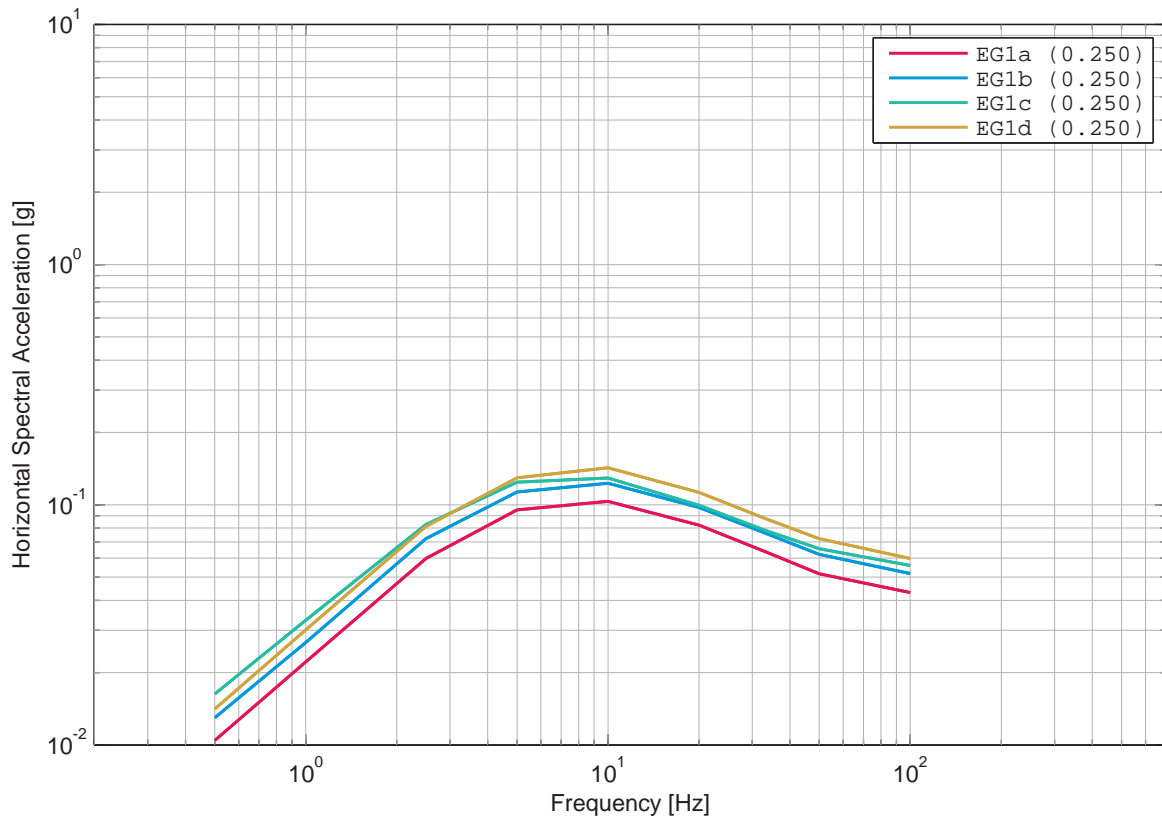


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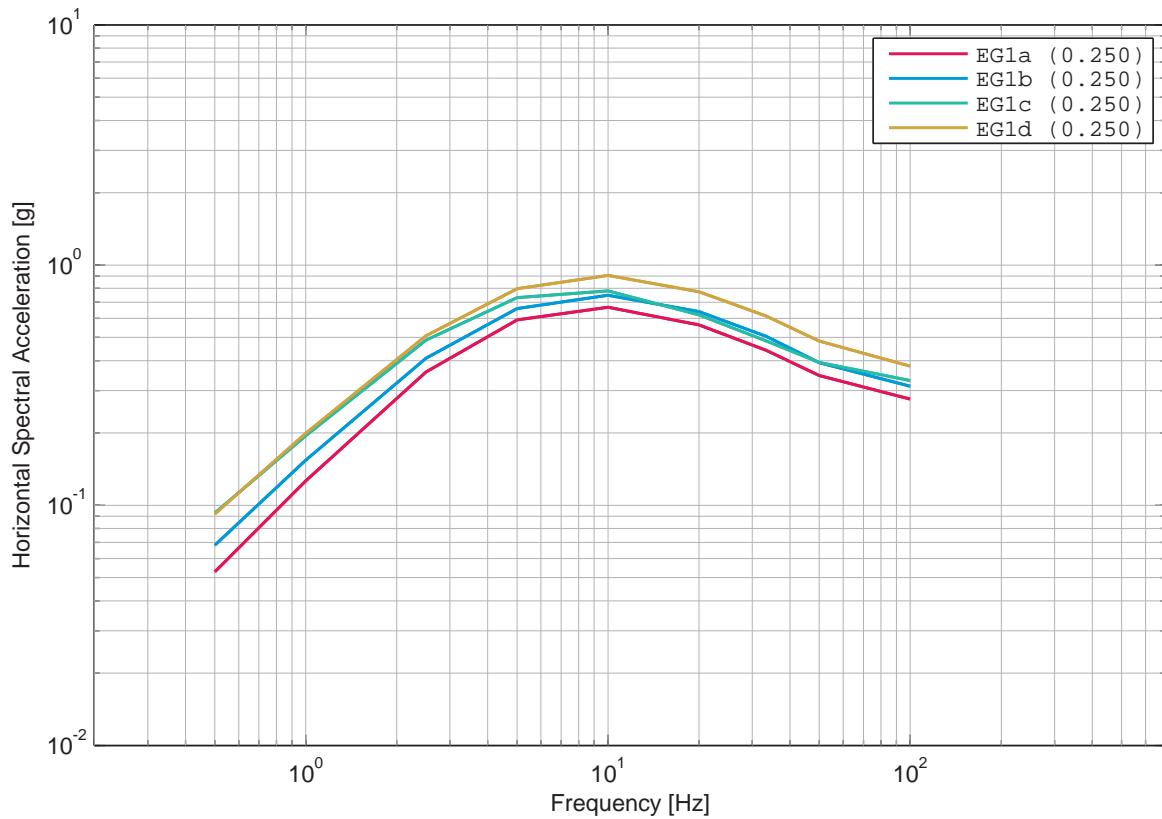


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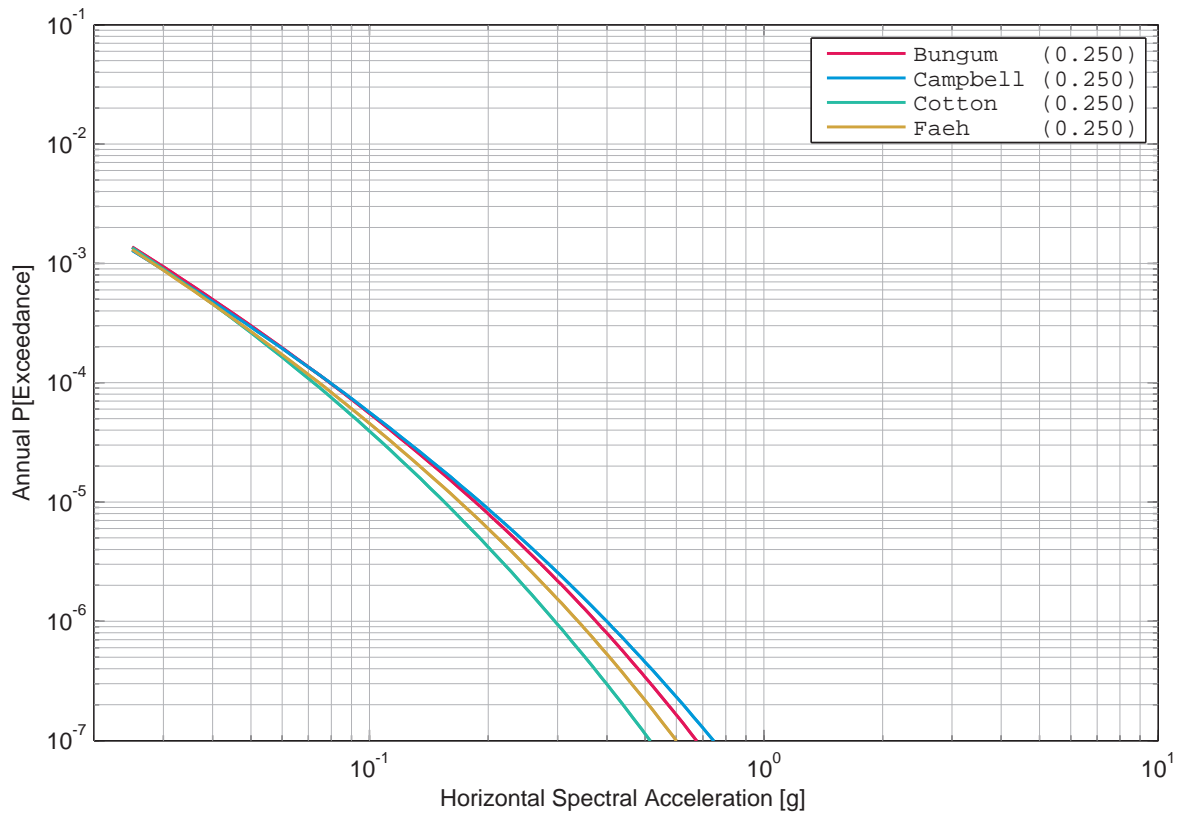


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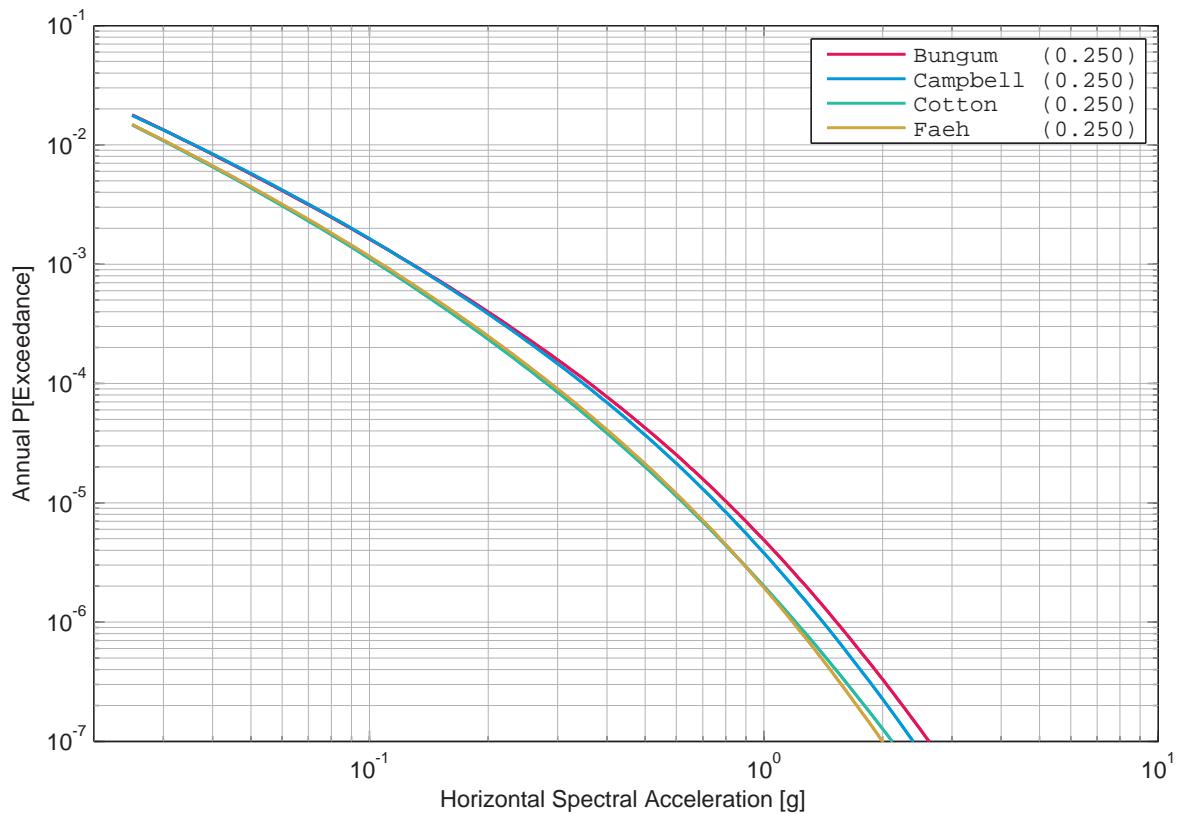


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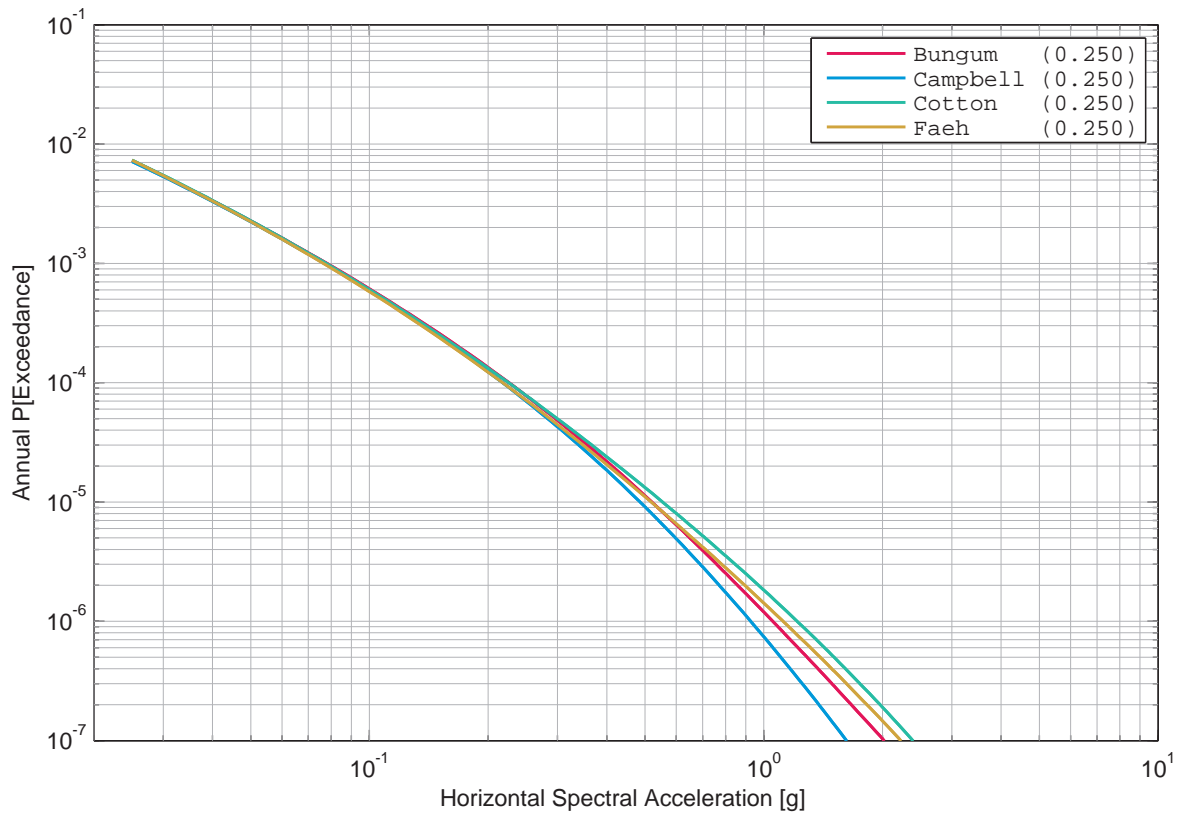


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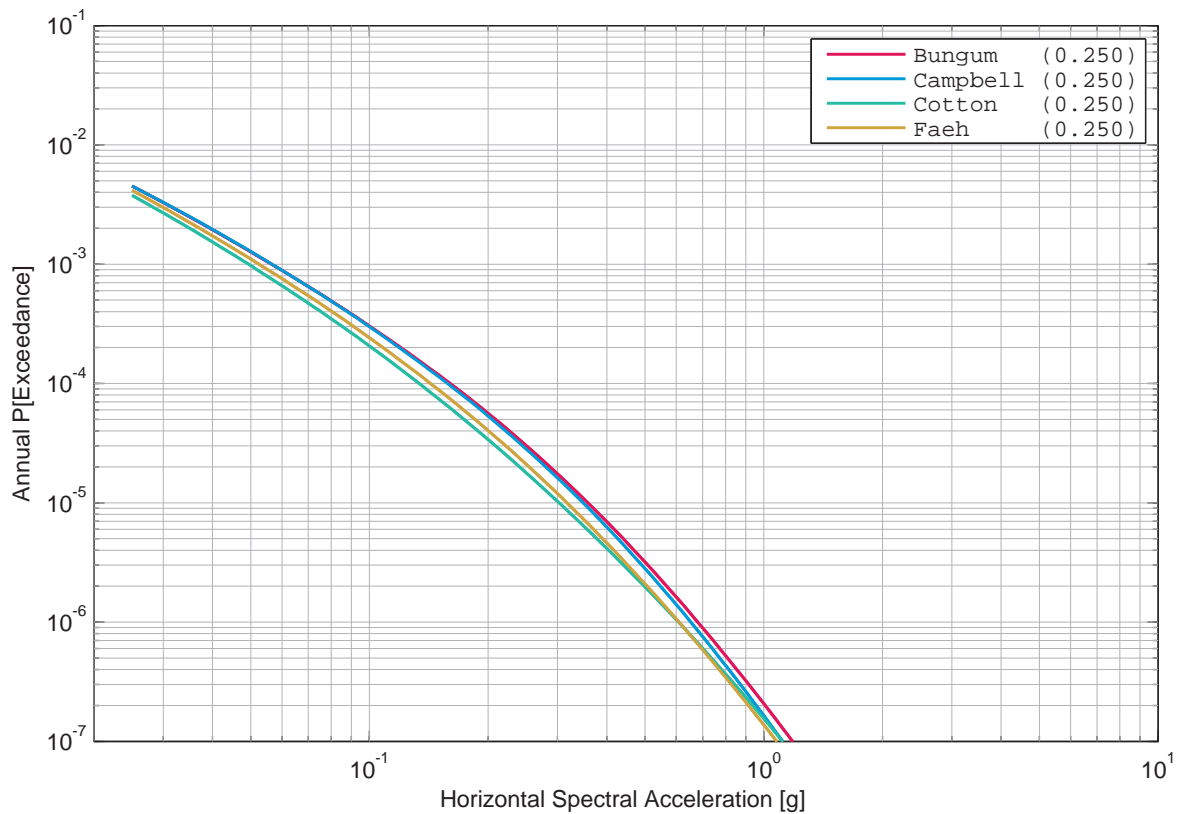


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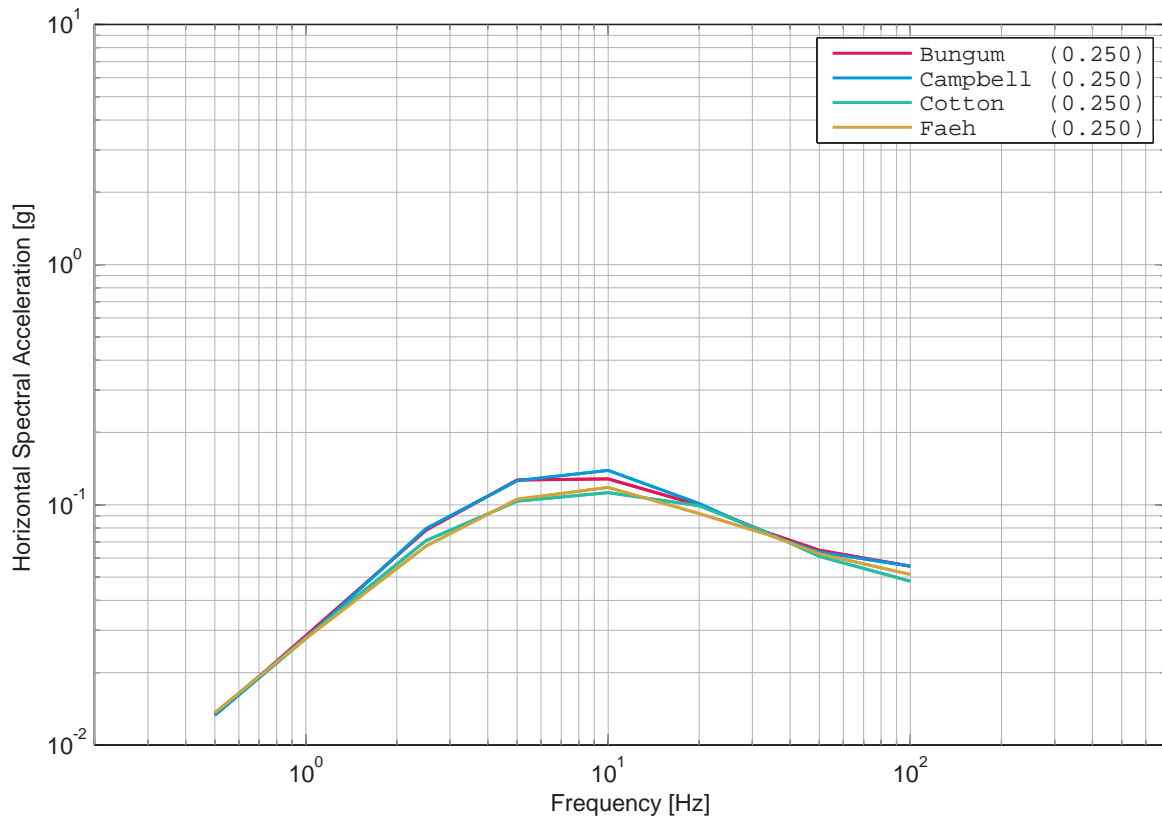


Figure 4.7.11: Leibstadt, horizontal component, rock, uniform hazard spectra (mean) of the four SP2 experts for an annual prob. of exceedance of 1E-03 and 5% damping.

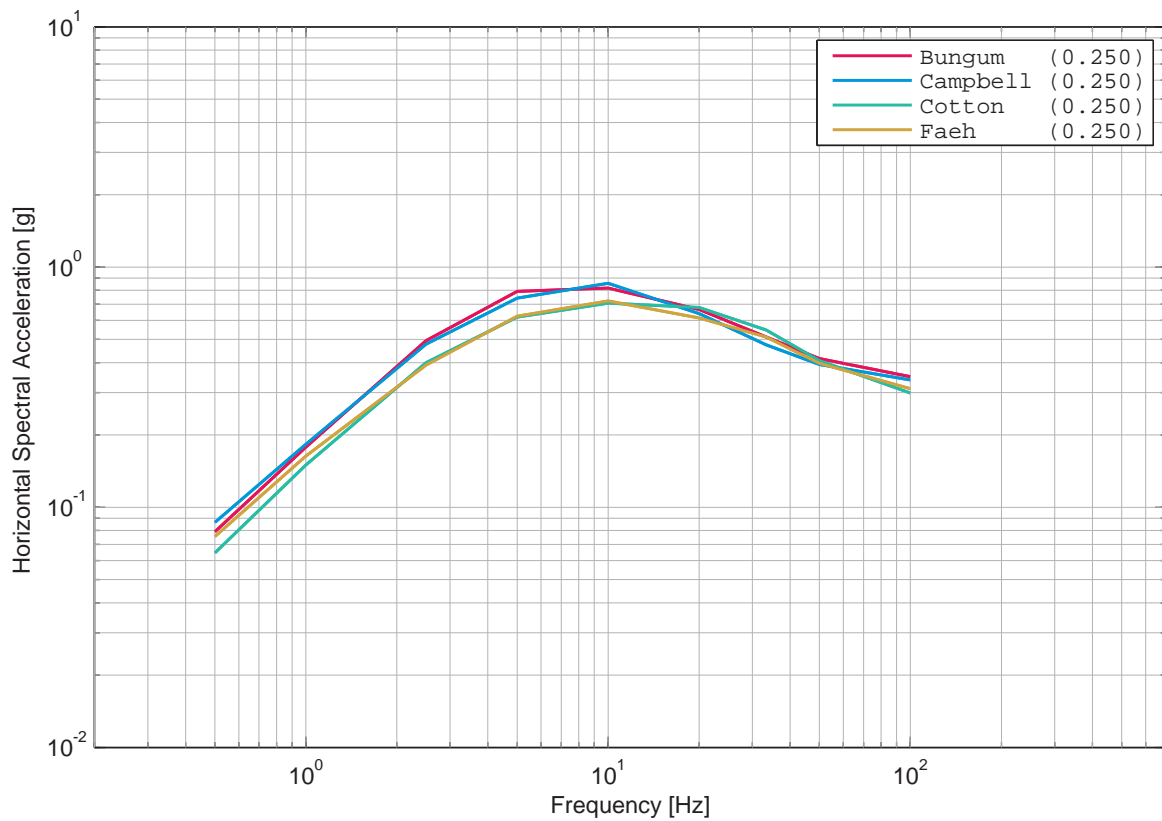


Figure 4.7.12: Leibstadt, horizontal component, rock, uniform hazard spectra (mean) of the four SP2 experts for an annual prob. of exceedance of 1E-05 and 5% damping.

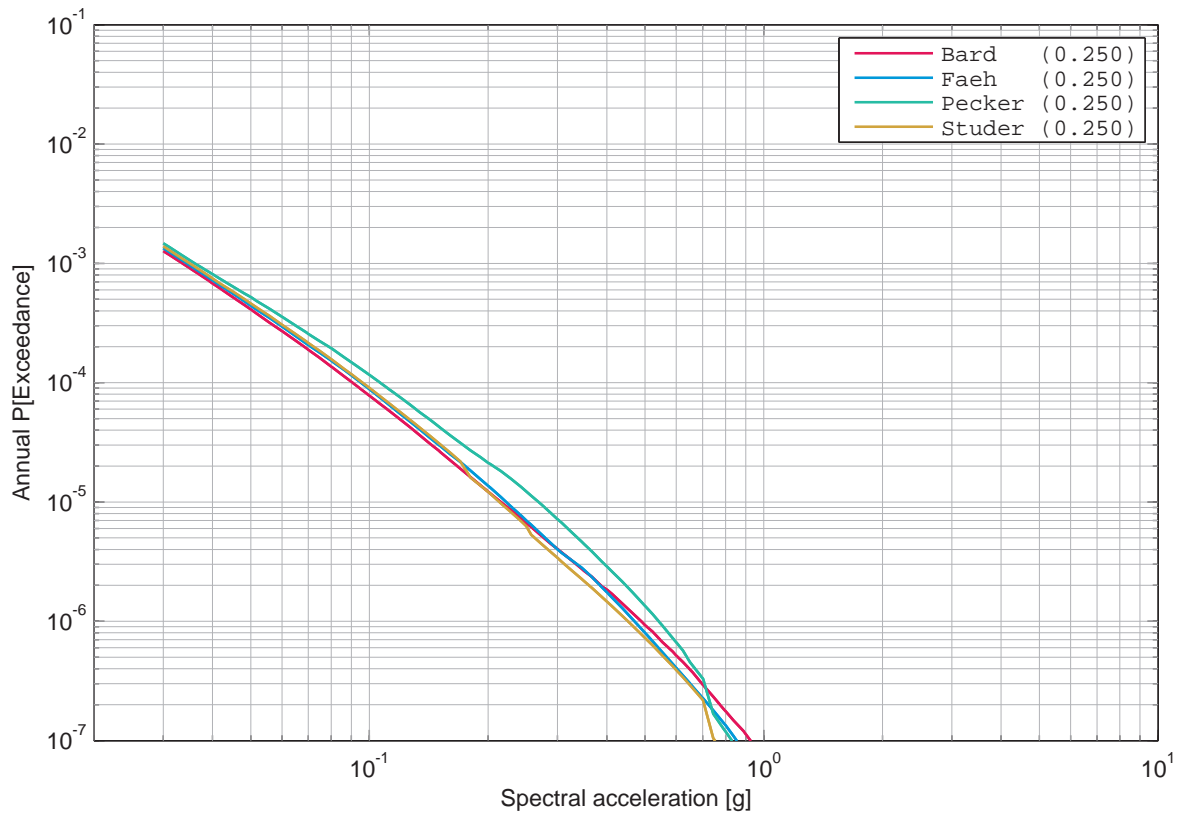


Figure 4.7.13: Leibstadt, horizontal component, soil, mean hazard of the four SP3 experts, 1 Hz.

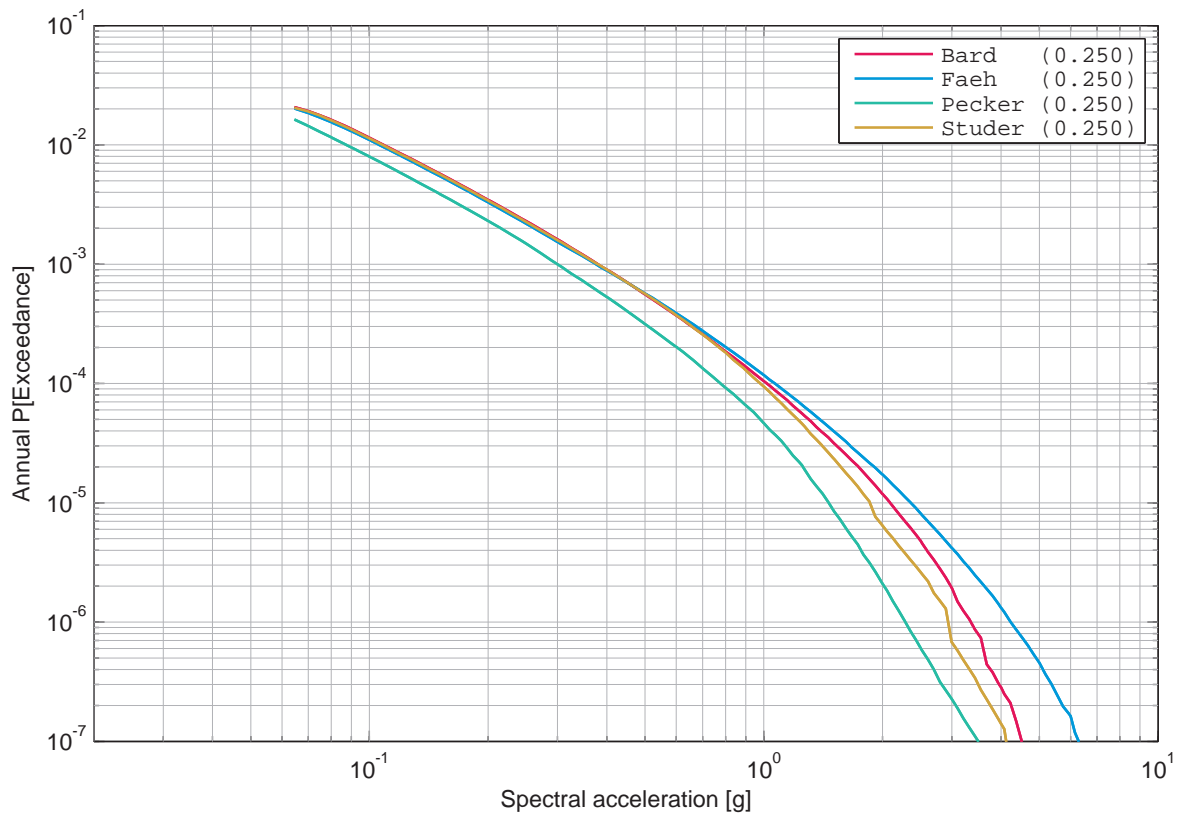


Figure 4.7.14: Leibstadt, horizontal component, soil, mean hazard of the four SP3 experts, 5 Hz.

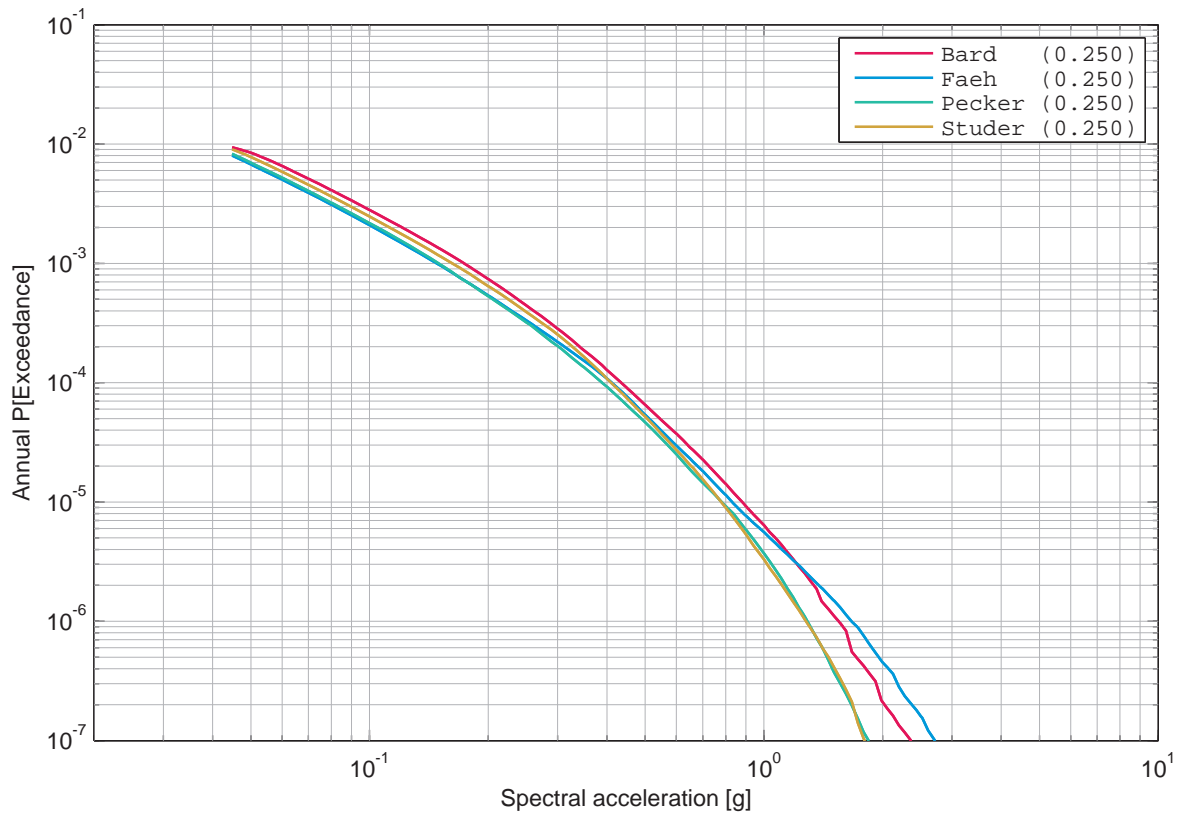


Figure 4.7.15: Leibstadt, horizontal component, soil, mean hazard of the four SP3 experts, 33 Hz.

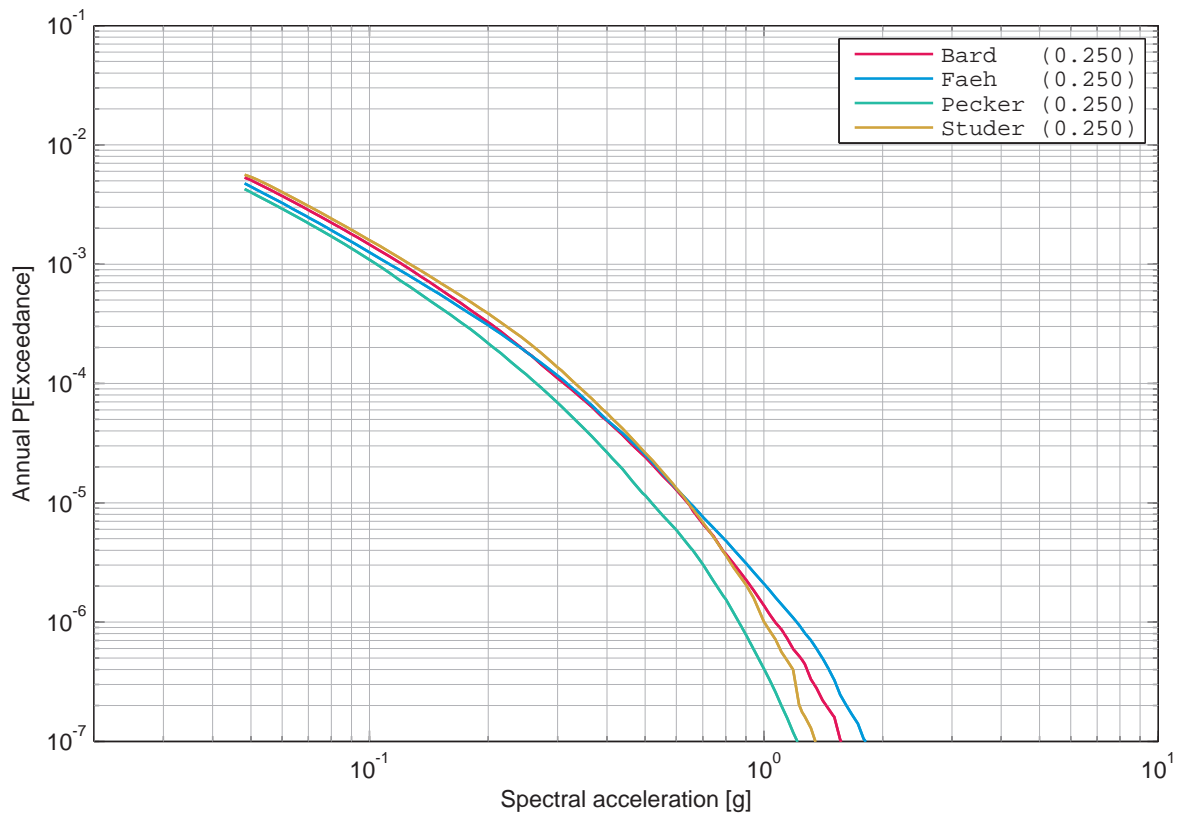


Figure 4.7.16: Leibstadt, horizontal component, soil, mean hazard of the four SP3 experts, 100 Hz.

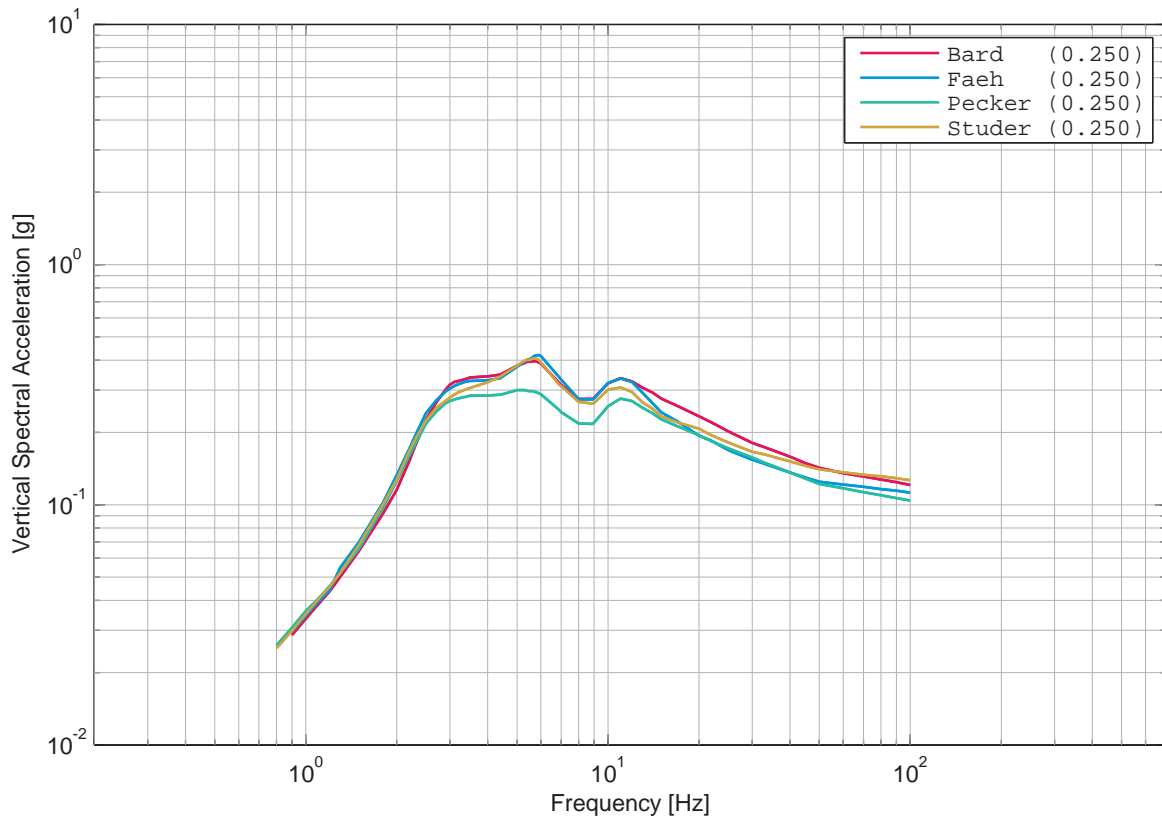


Figure 4.7.17: Leibstadt, horizontal component, soil, uniform hazard spectra (mean) of the four SP3 experts for an annual prob. of exceedance of 1E-03 and 5% damping.

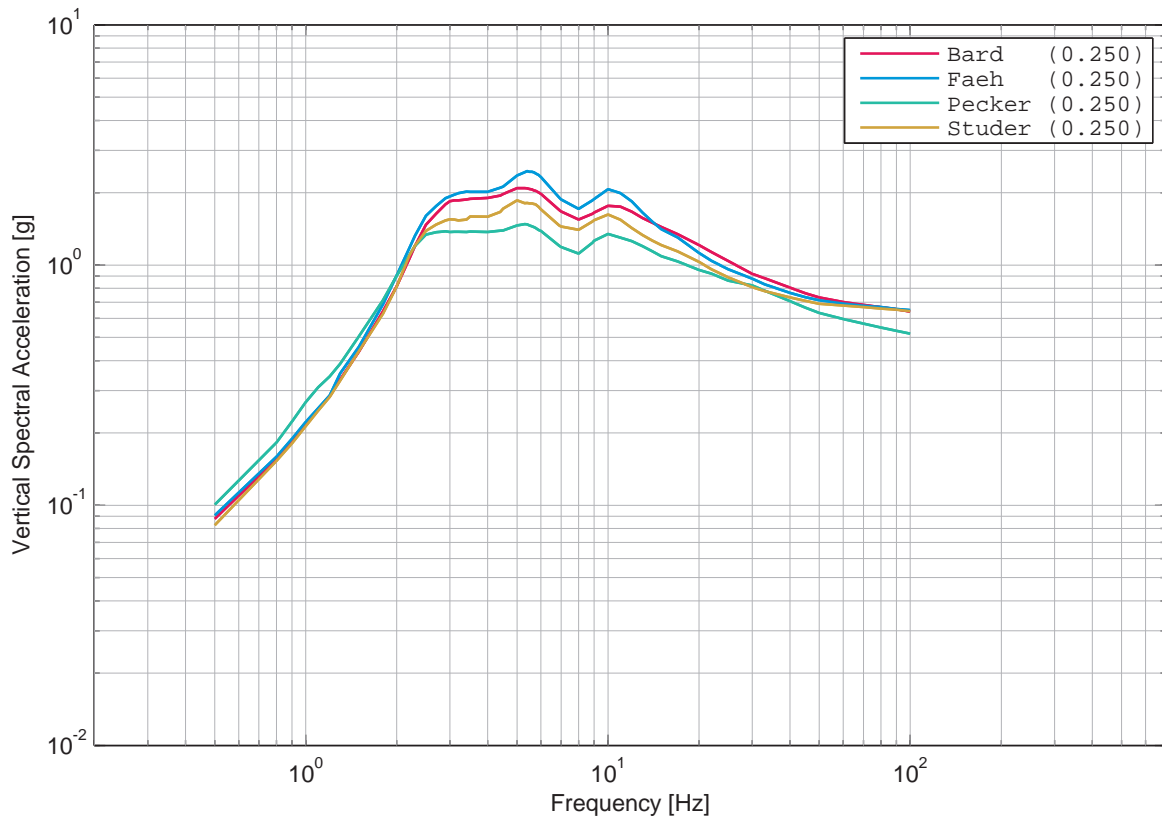


Figure 4.7.18: Leibstadt, horizontal component, soil, uniform hazard spectra (mean) of the four SP3 experts for an annual prob. of exceedance of 1E-05 and 5% damping.

4.8 Leibstadt, SP2 Sensitivities, Horizontal Component

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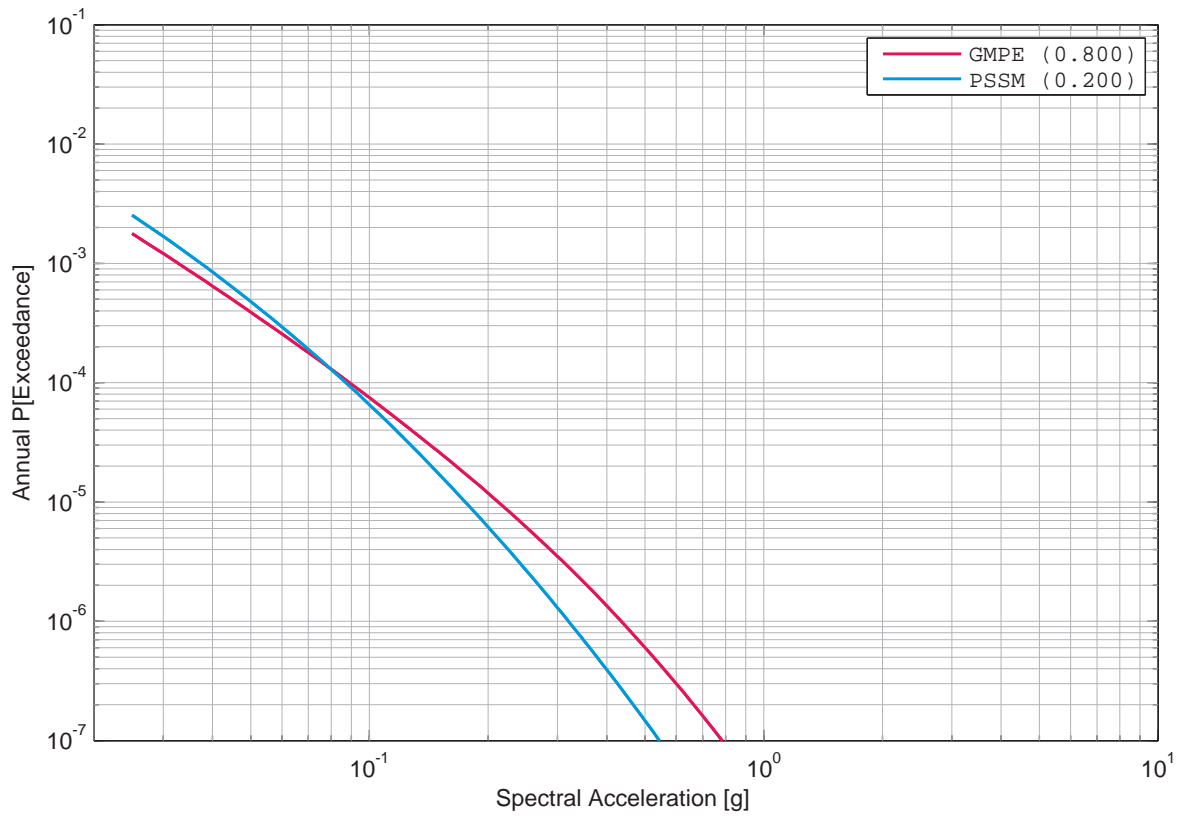


Figure 4.8.1: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the model category, 1 Hz.

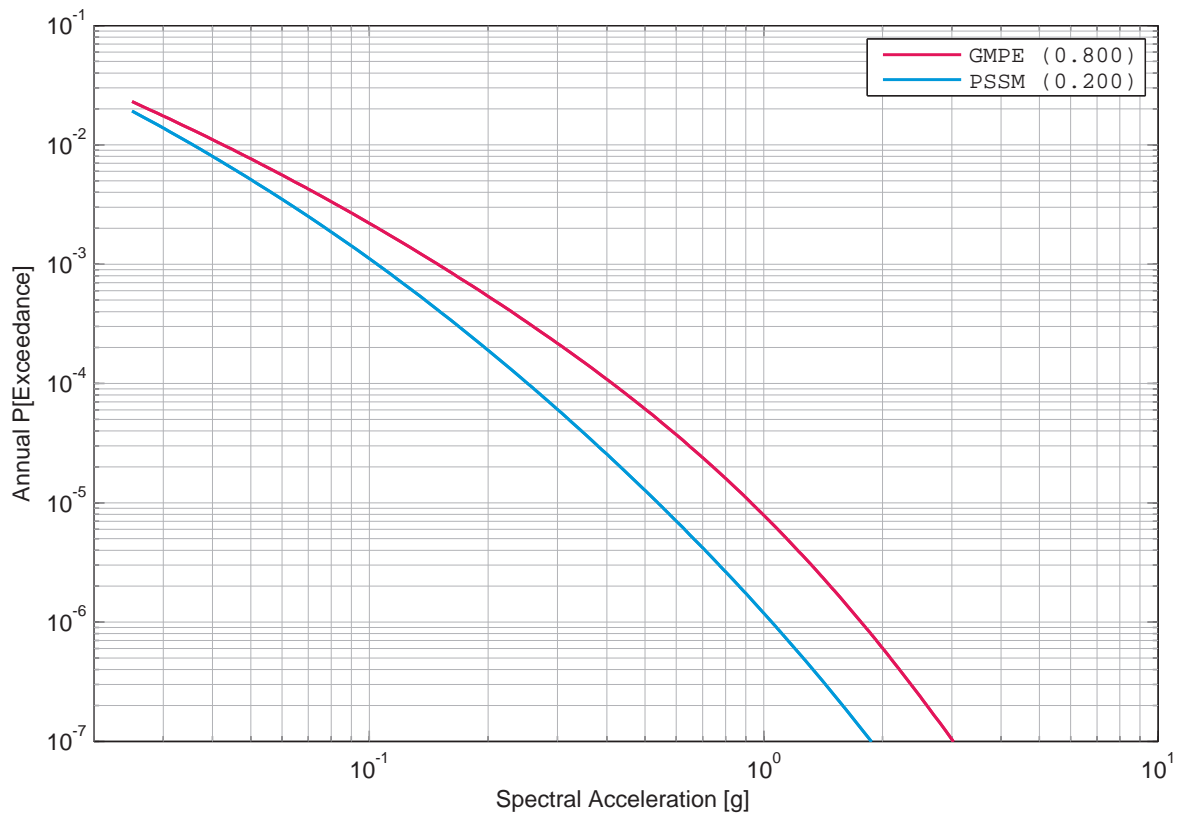


Figure 4.8.2: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the model category, 5 Hz.

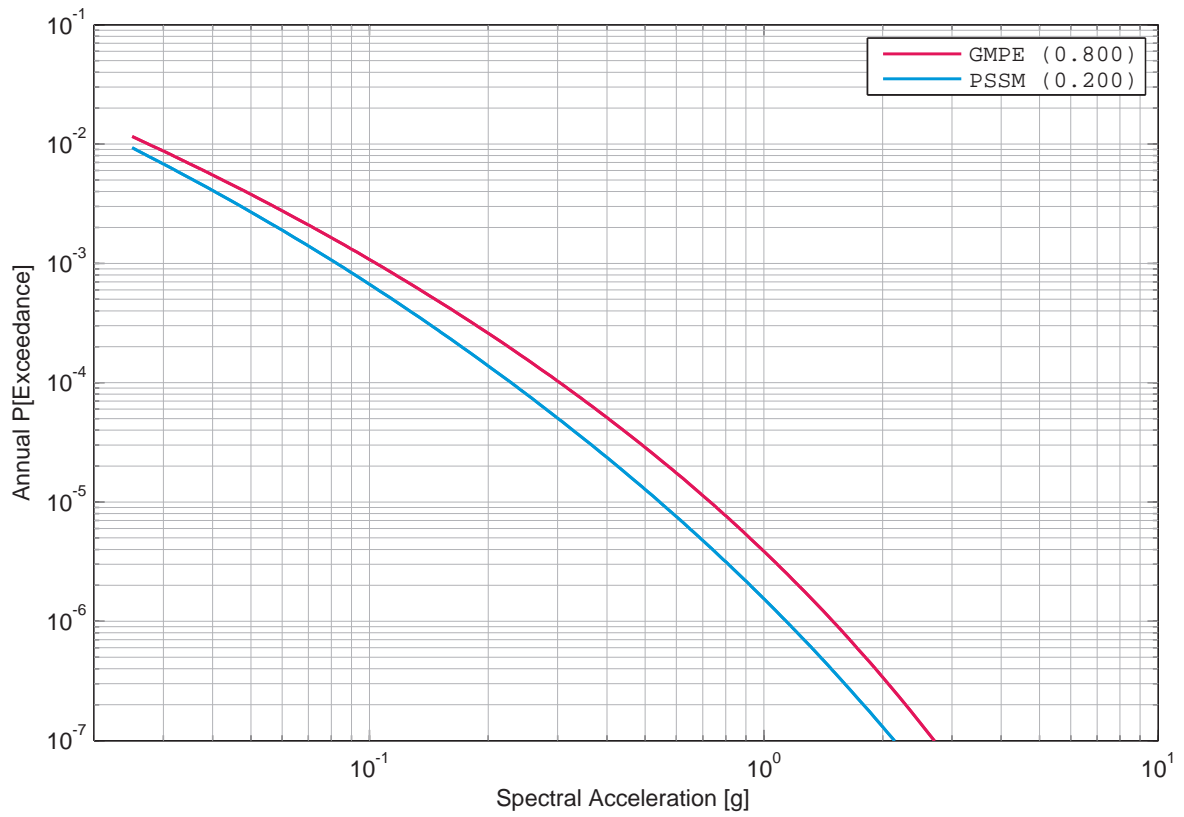


Figure 4.8.3: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the model category, 33 Hz.

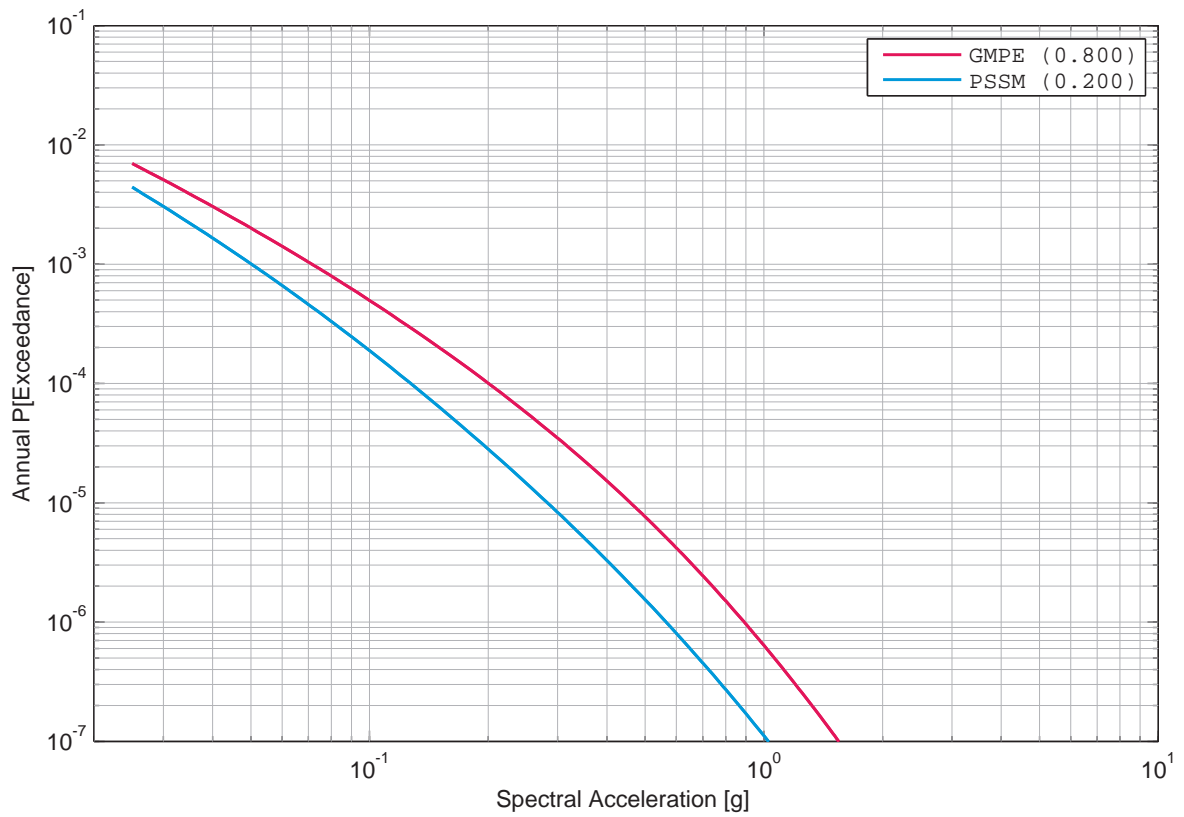


Figure 4.8.4: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the model category, 100 Hz.

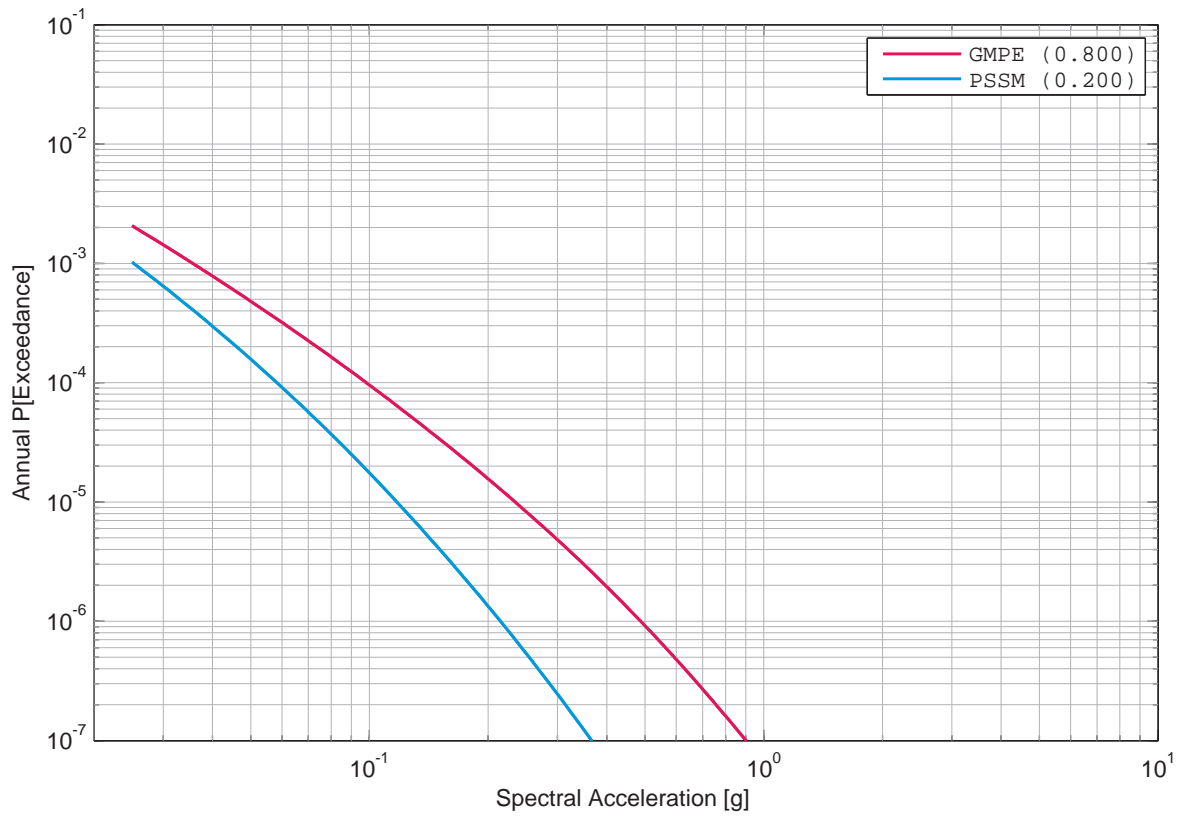


Figure 4.8.5: Leibstadt, horizontal component, rock, Campbell’s sensitivity to the model category, 1 Hz.

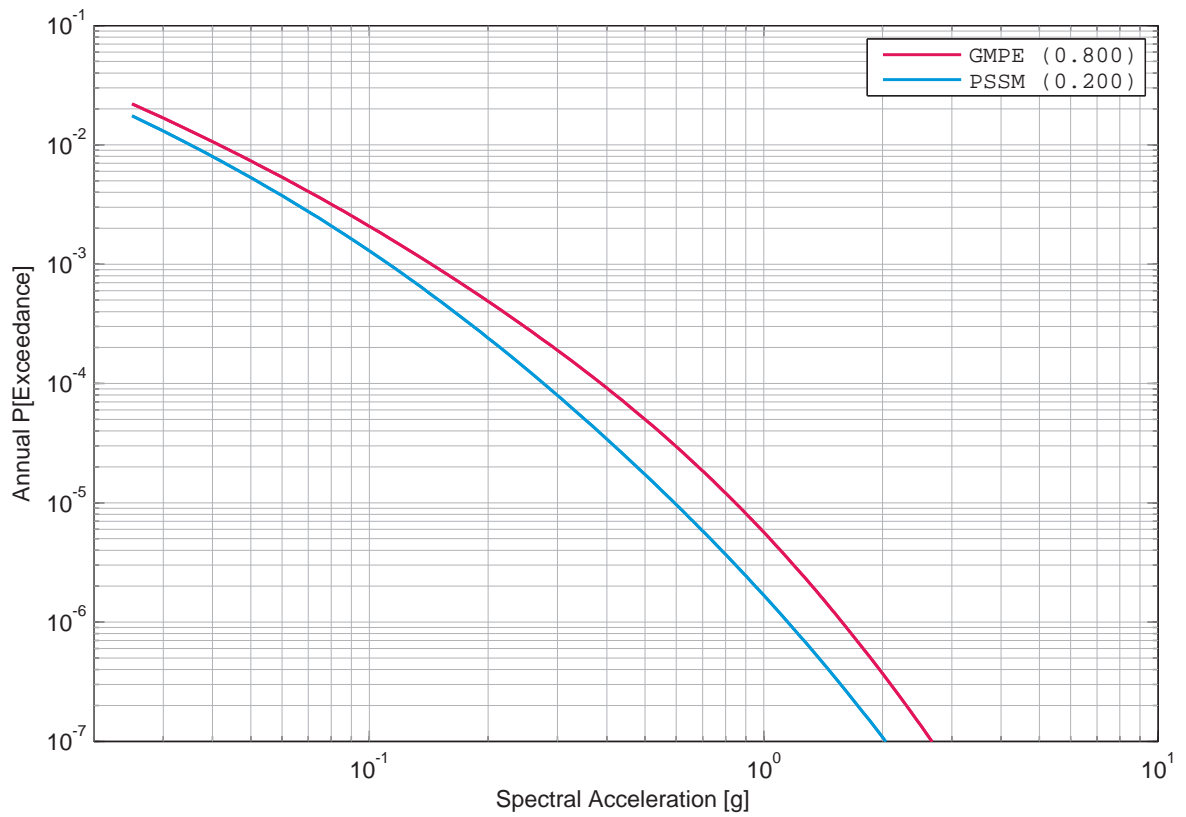


Figure 4.8.6: Leibstadt, horizontal component, rock, Campbell’s sensitivity to the model category, 5 Hz.

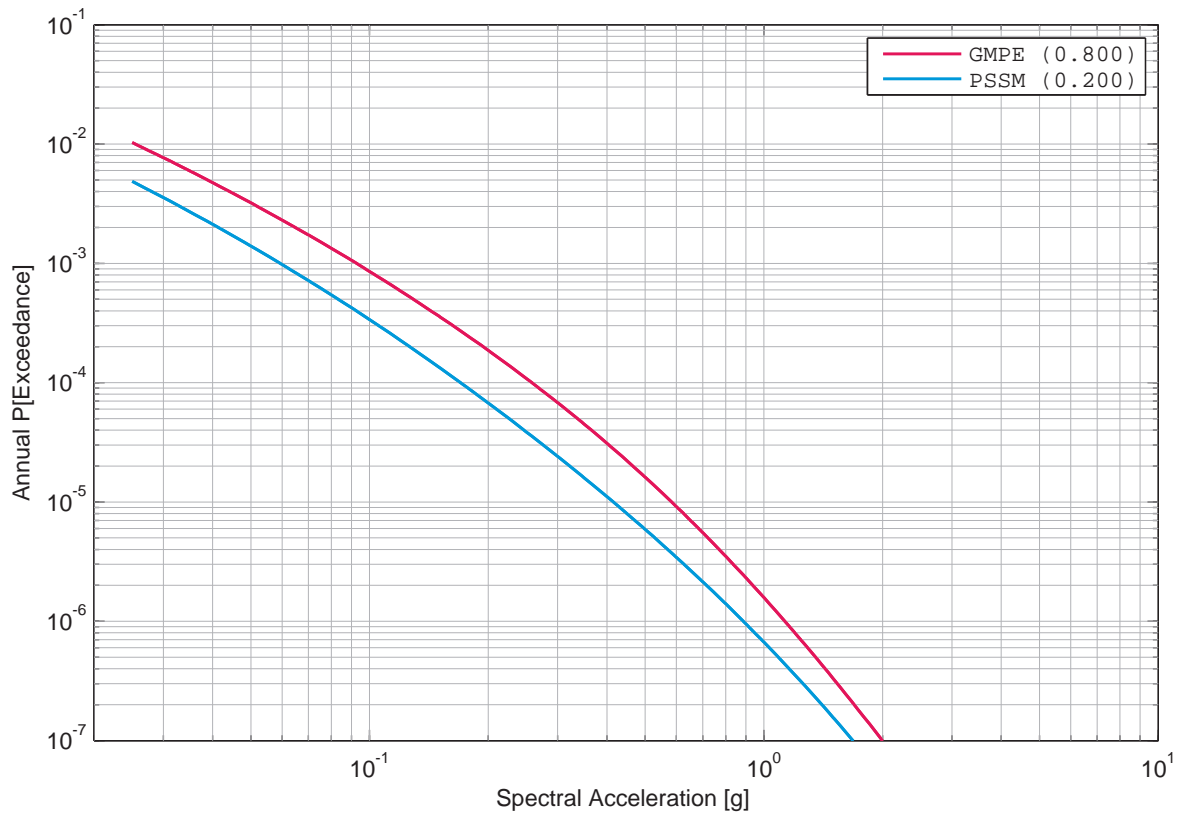


Figure 4.8.7: Leibstadt, horizontal component, rock, Campbell's sensitivity to the model category, 33 Hz.

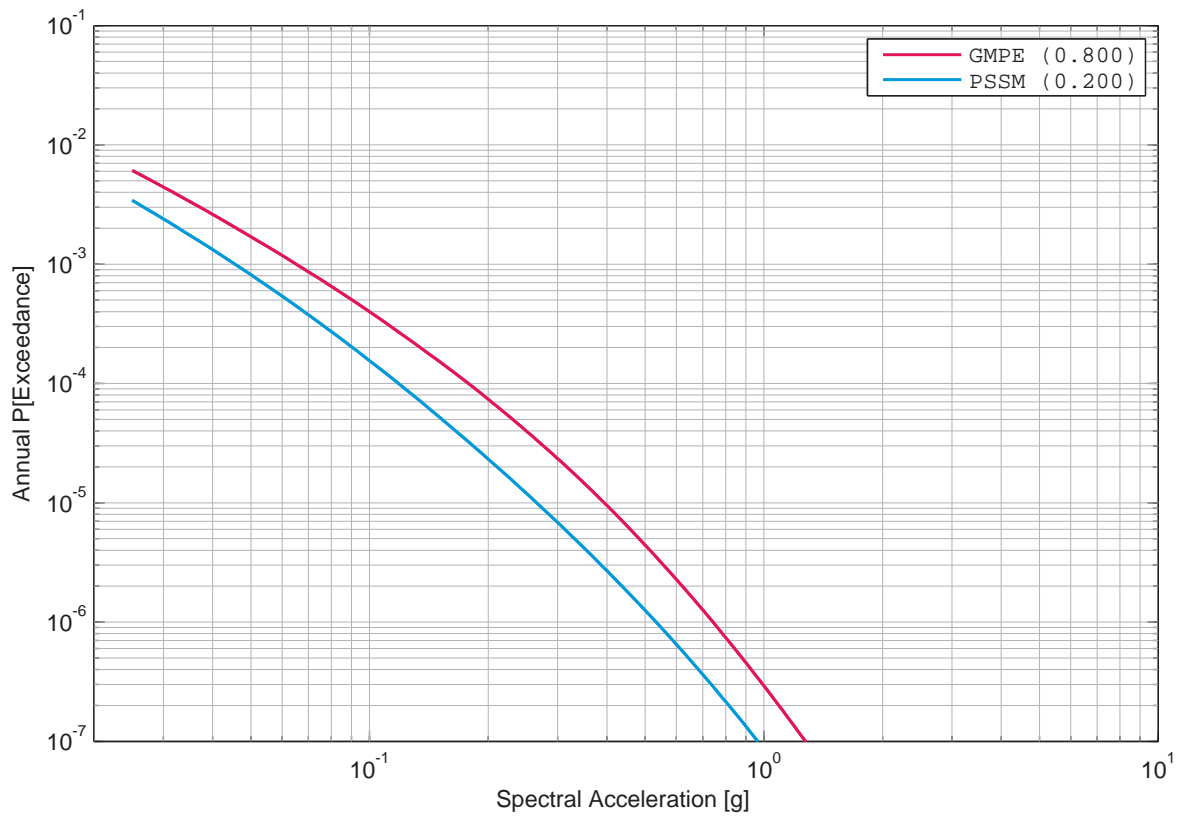


Figure 4.8.8: Leibstadt, horizontal component, rock, Campbell's sensitivity to the model category, 100 Hz.

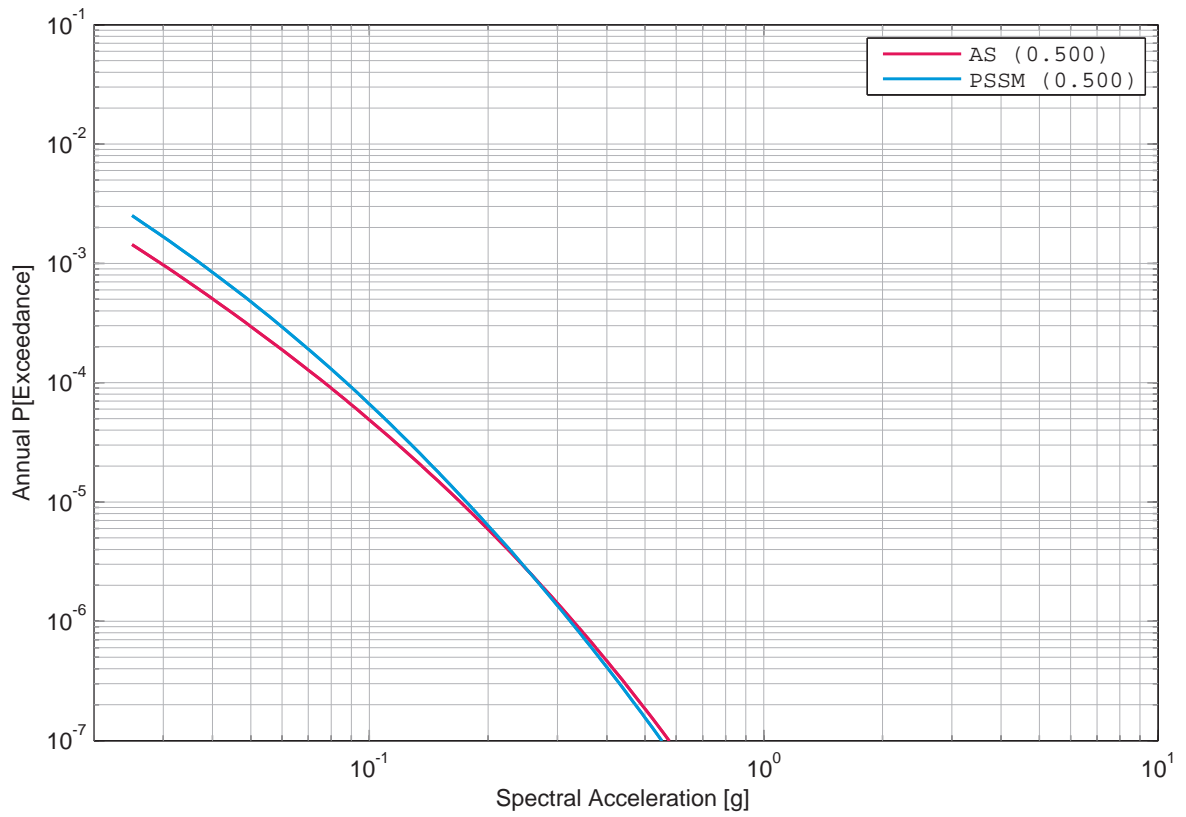


Figure 4.8.9: Leibstadt, horizontal component, rock, Cotton’s sensitivity to the model category, 1 Hz.

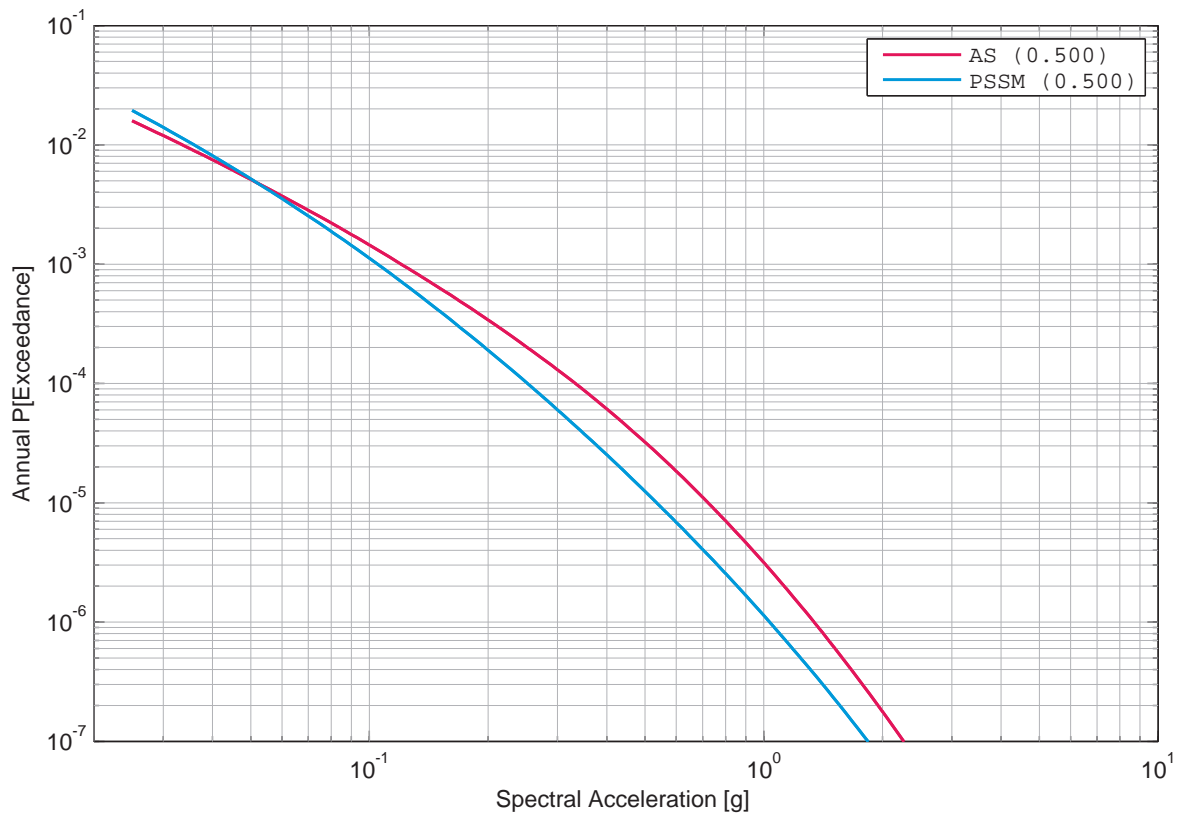


Figure 4.8.10: Leibstadt, horizontal component, rock, Cotton’s sensitivity to the model category, 5 Hz.

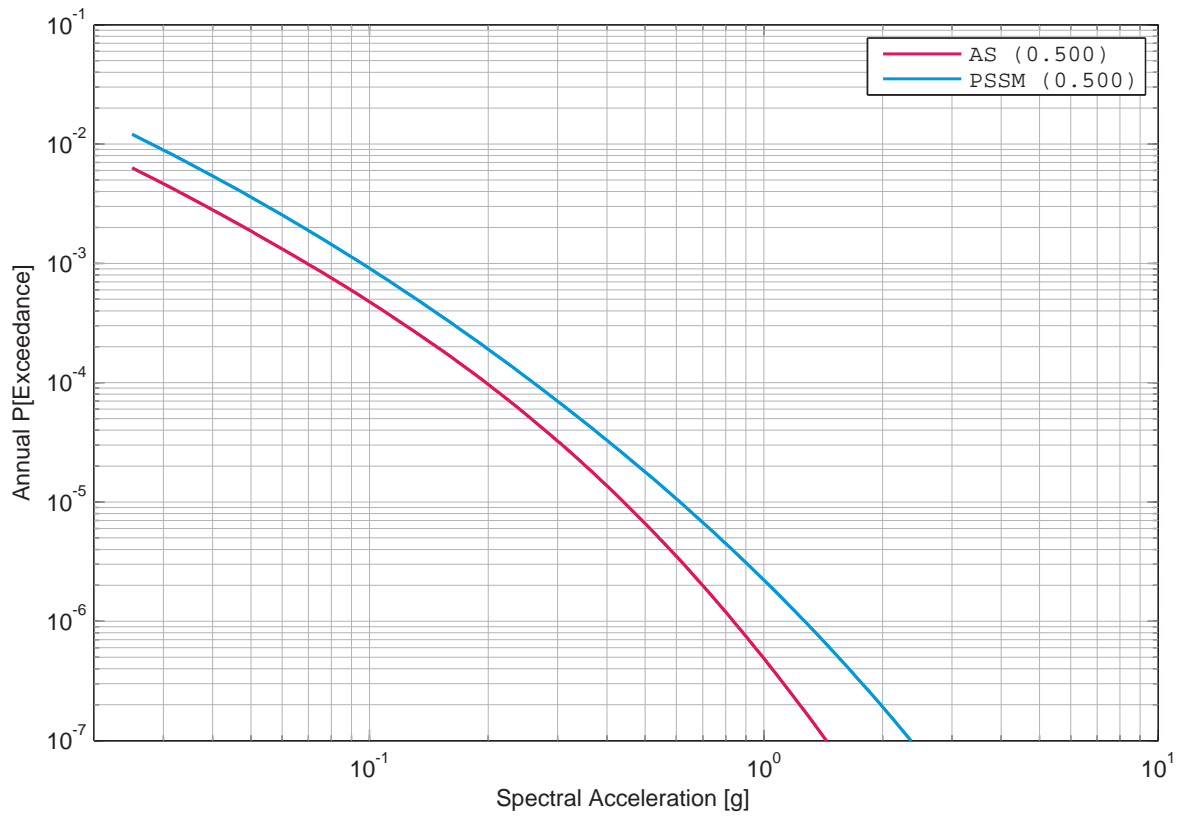


Figure 4.8.11: Leibstadt, horizontal component, rock, Cotton’s sensitivity to the model category, 33 Hz.

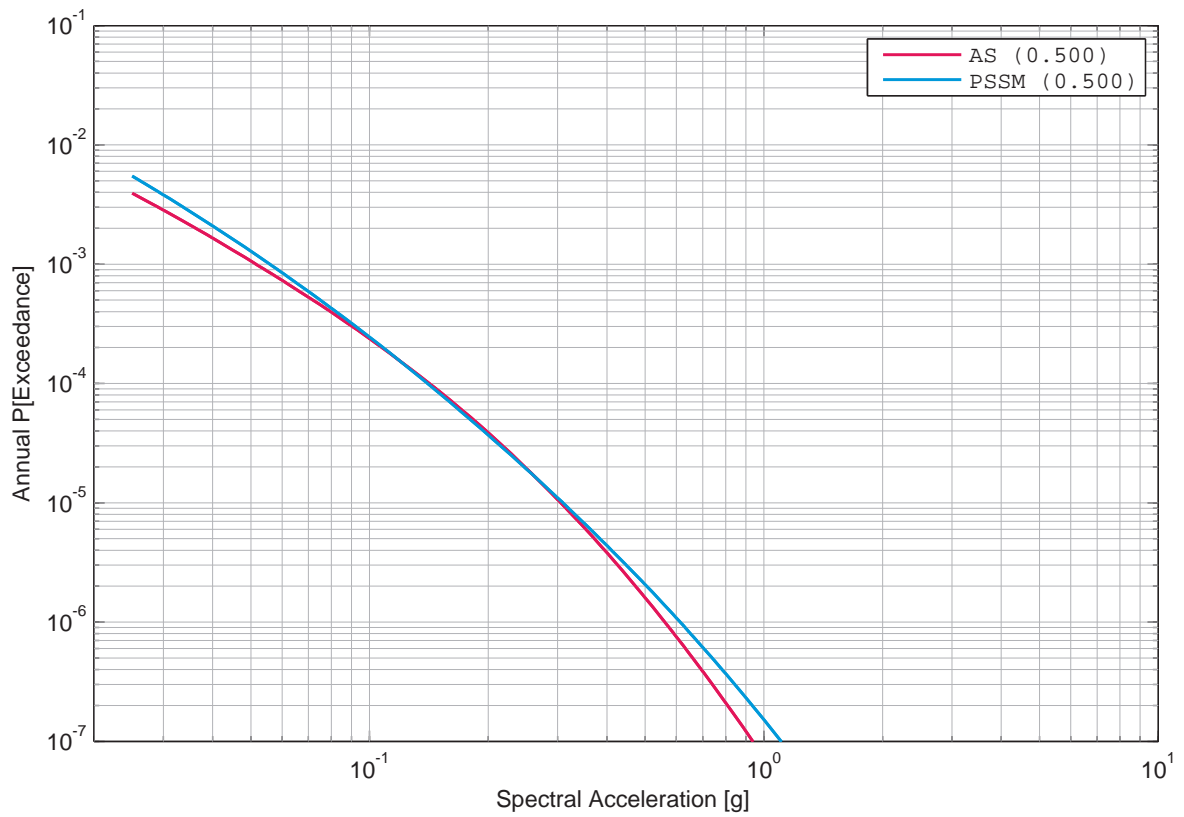


Figure 4.8.12: Leibstadt, horizontal component, rock, Cotton’s sensitivity to the model category, 100 Hz.

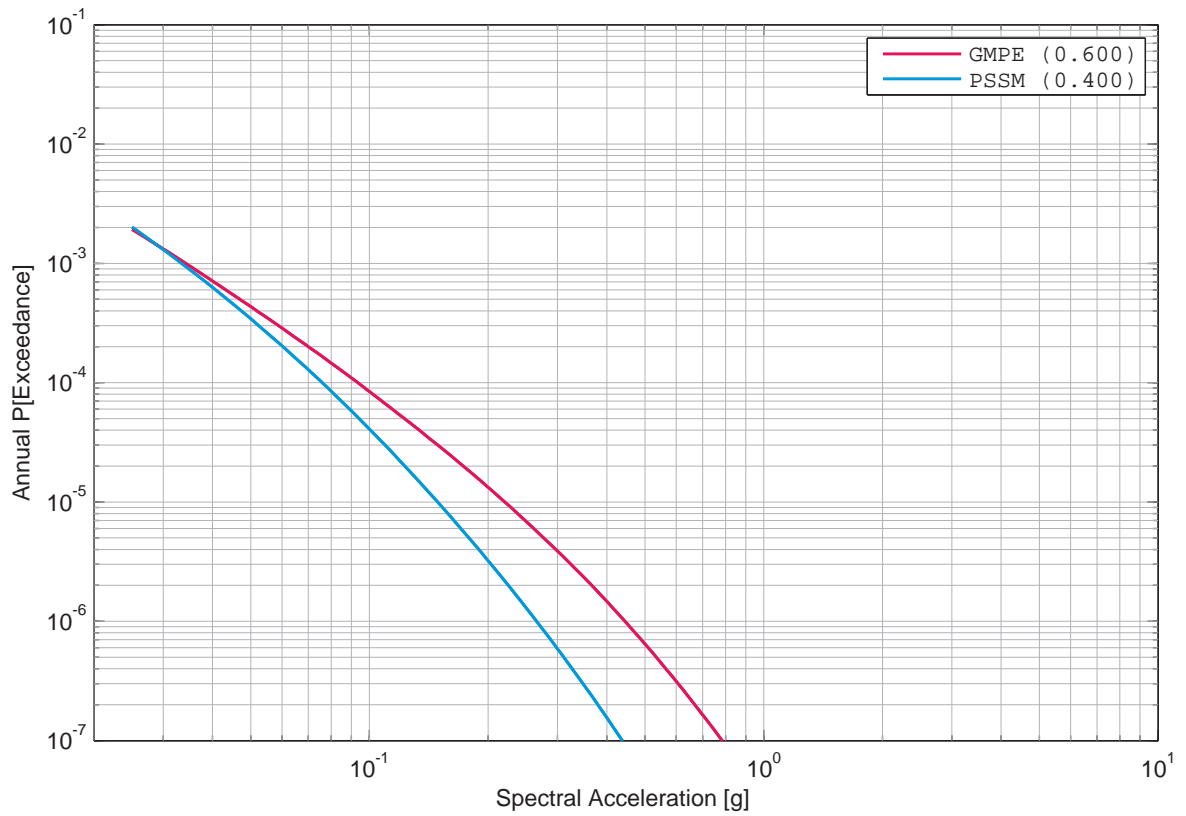


Figure 4.8.13: Leibstadt, horizontal component, rock, Faeh’s sensitivity to the model category, 1 Hz.

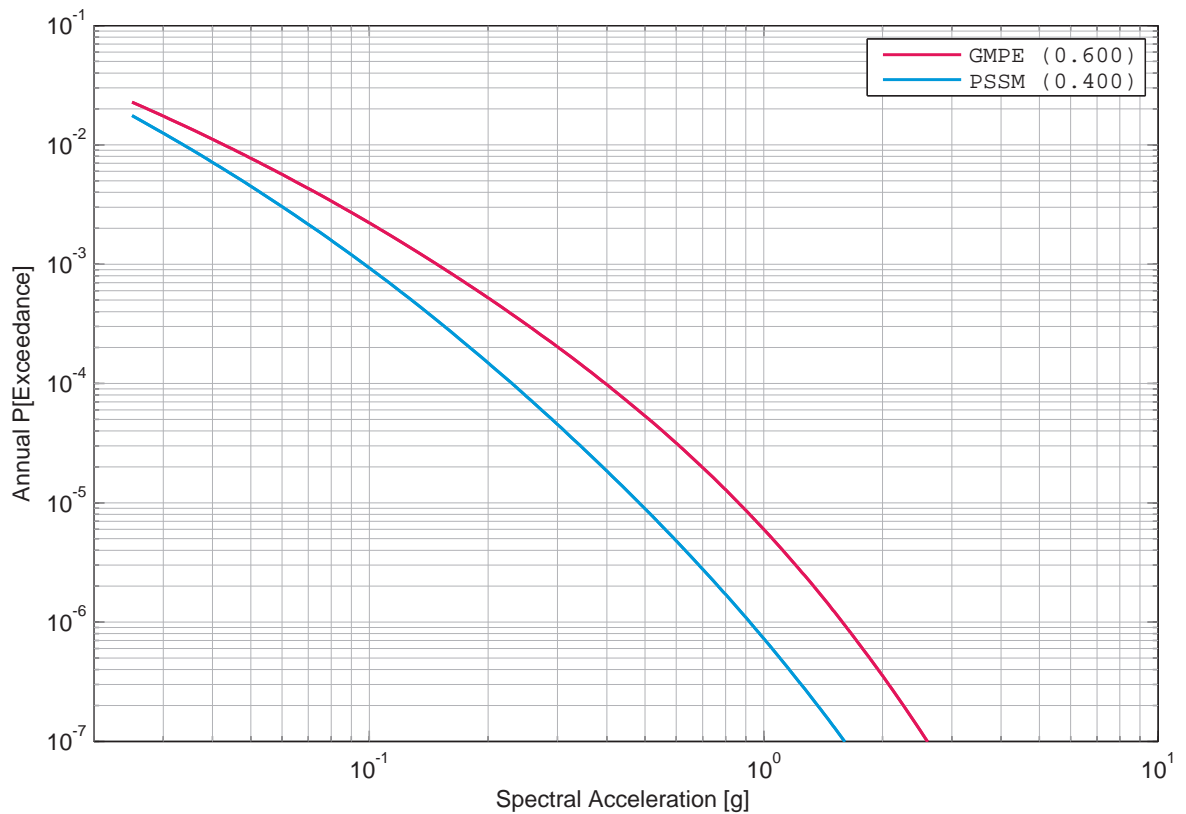


Figure 4.8.14: Leibstadt, horizontal component, rock, Faeh’s sensitivity to the model category, 5 Hz.

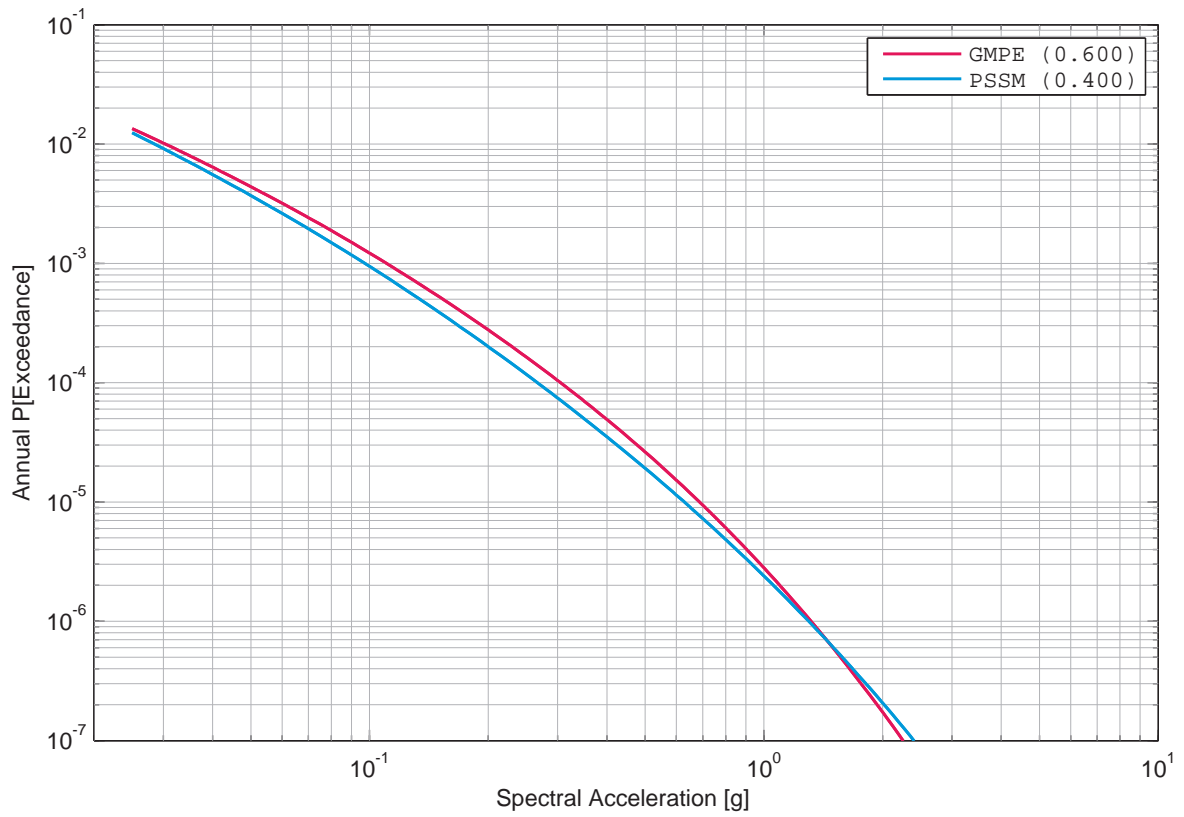


Figure 4.8.15: Leibstadt, horizontal component, rock, Faeh’s sensitivity to the model category, 33 Hz.

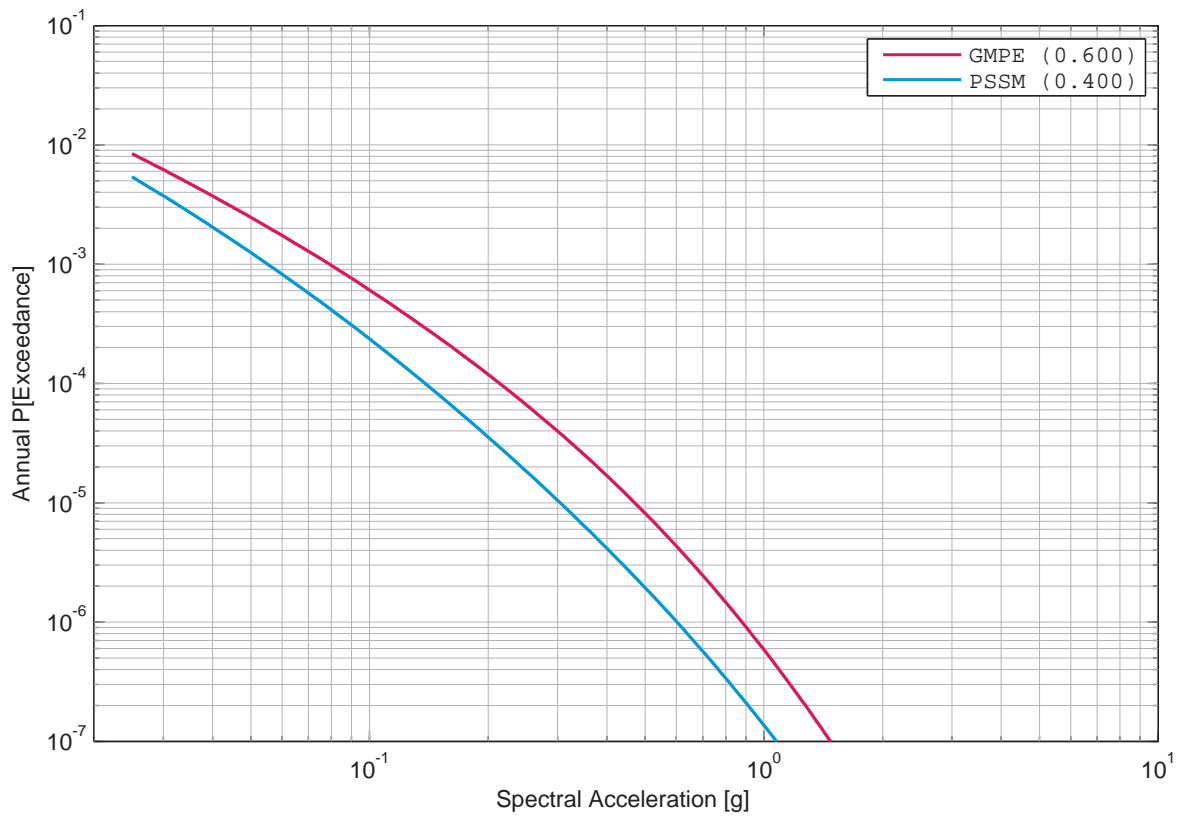


Figure 4.8.16: Leibstadt, horizontal component, rock, Faeh’s sensitivity to the model category, 100 Hz.

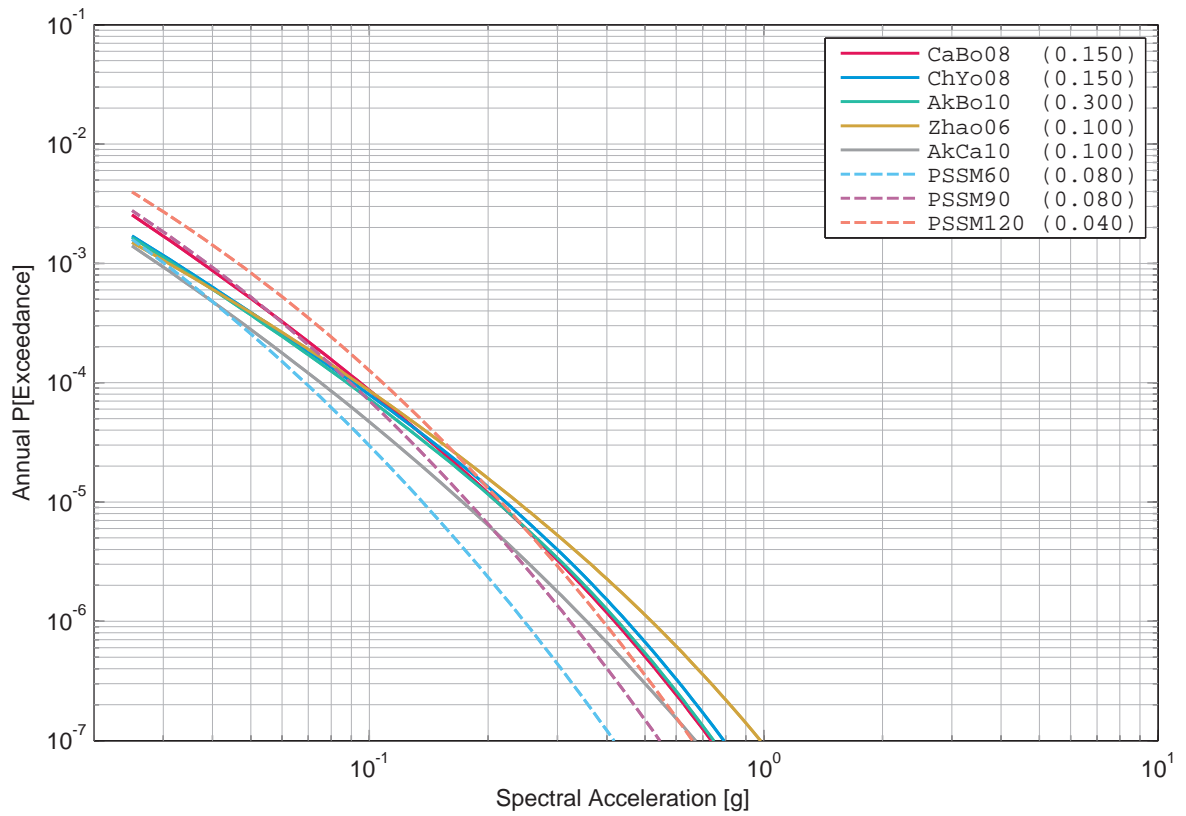


Figure 4.8.17: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the model, 1 Hz.

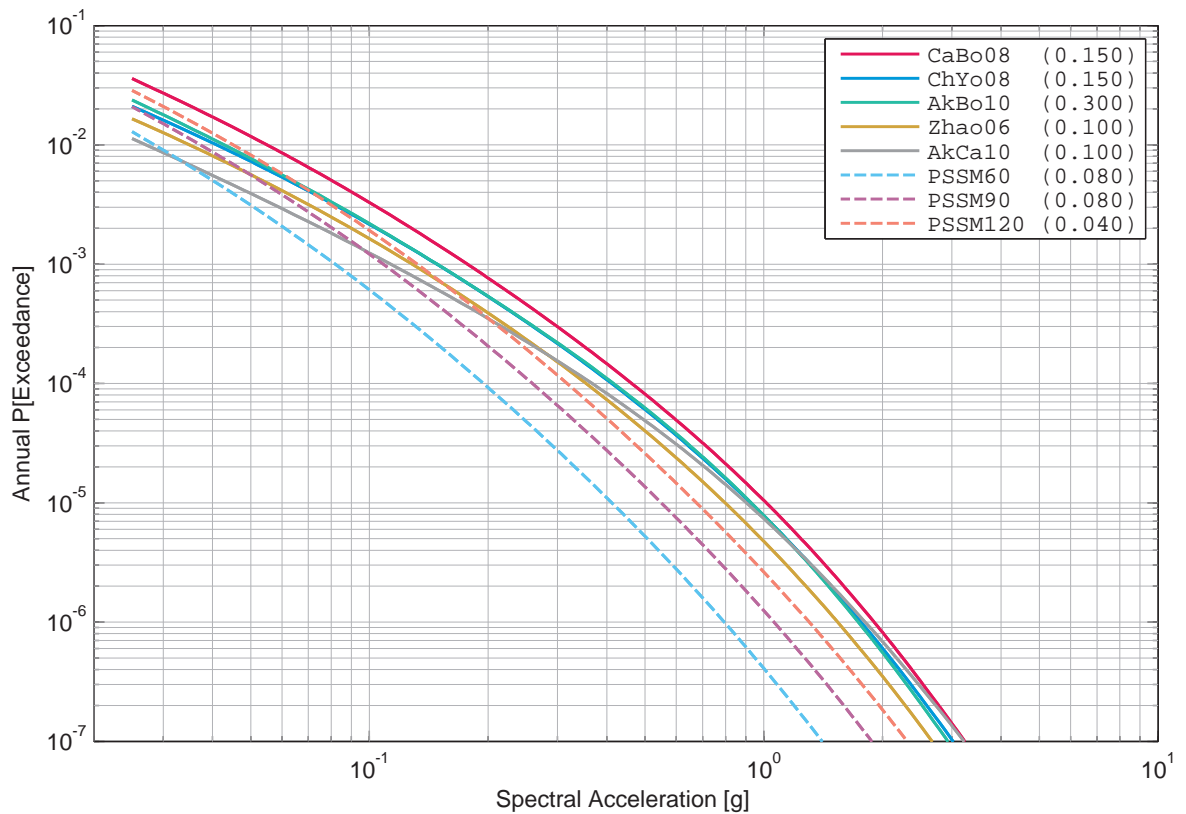


Figure 4.8.18: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the model, 5 Hz.

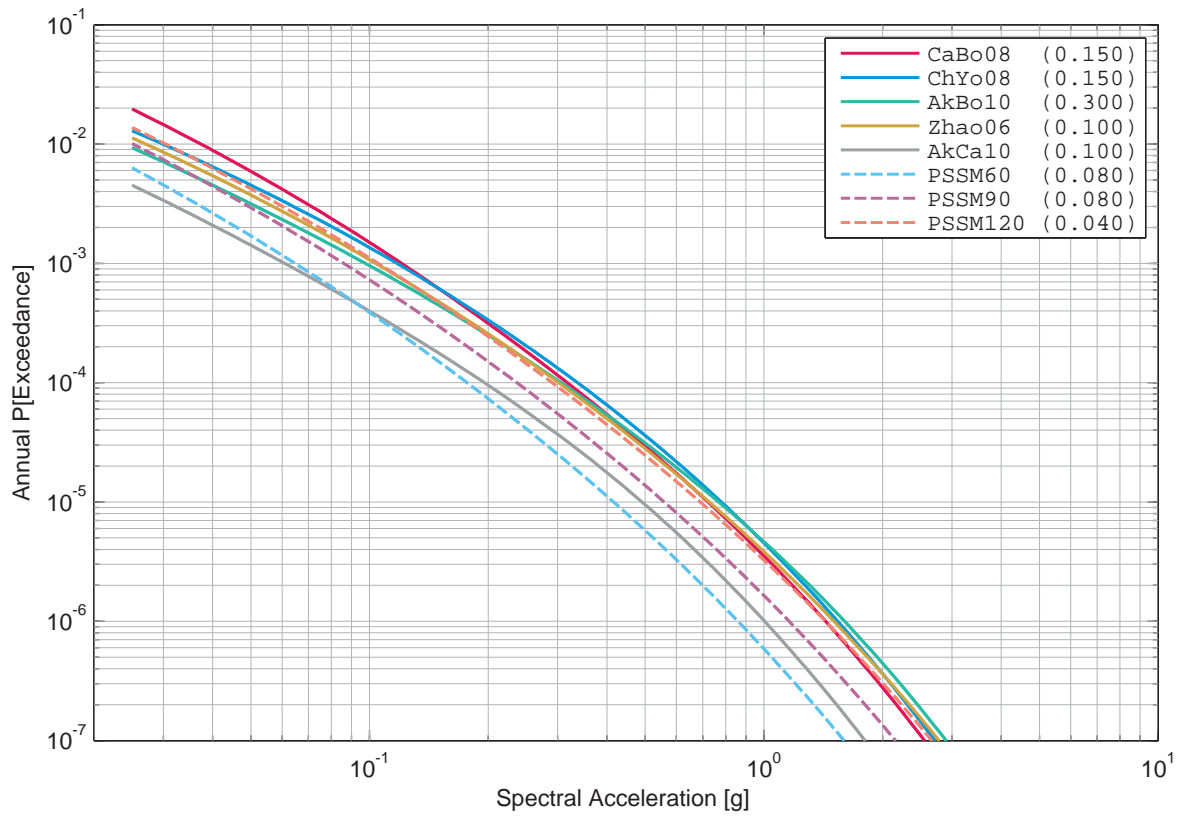


Figure 4.8.19: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the model, 33 Hz.

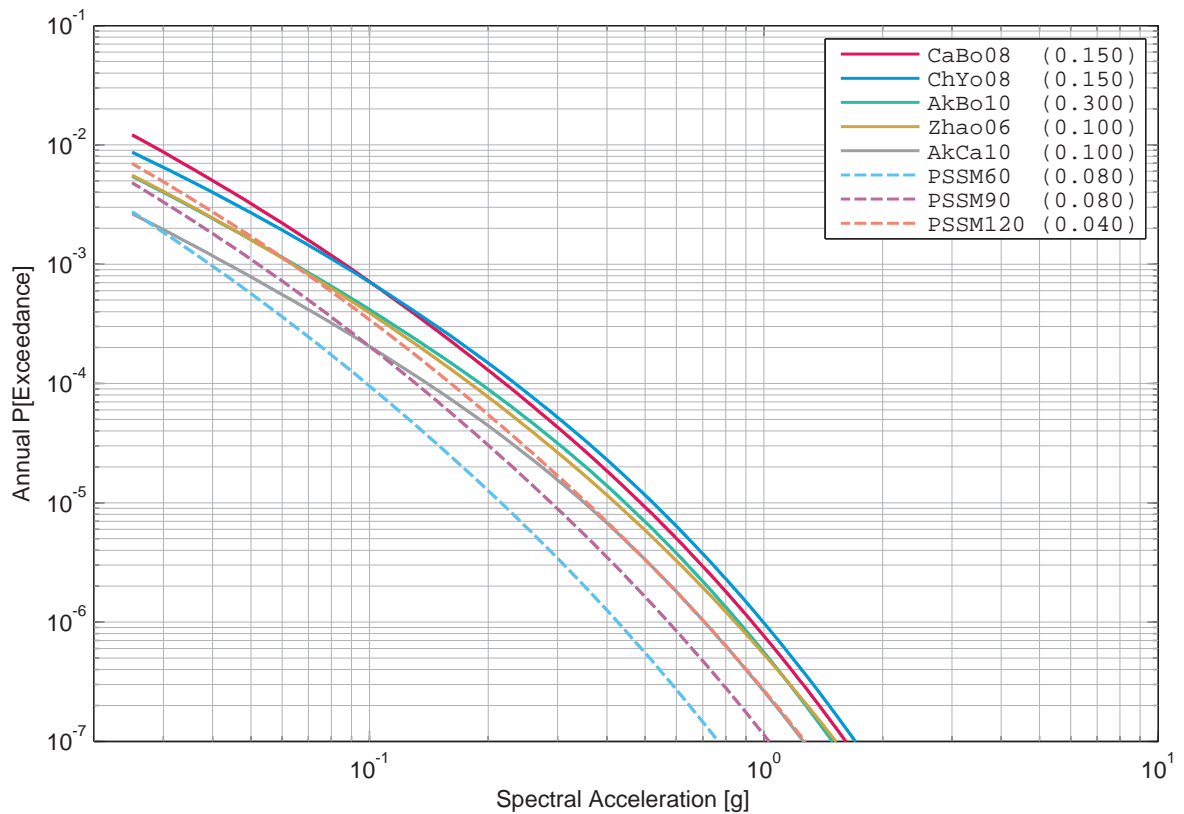


Figure 4.8.20: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the model, 100 Hz.

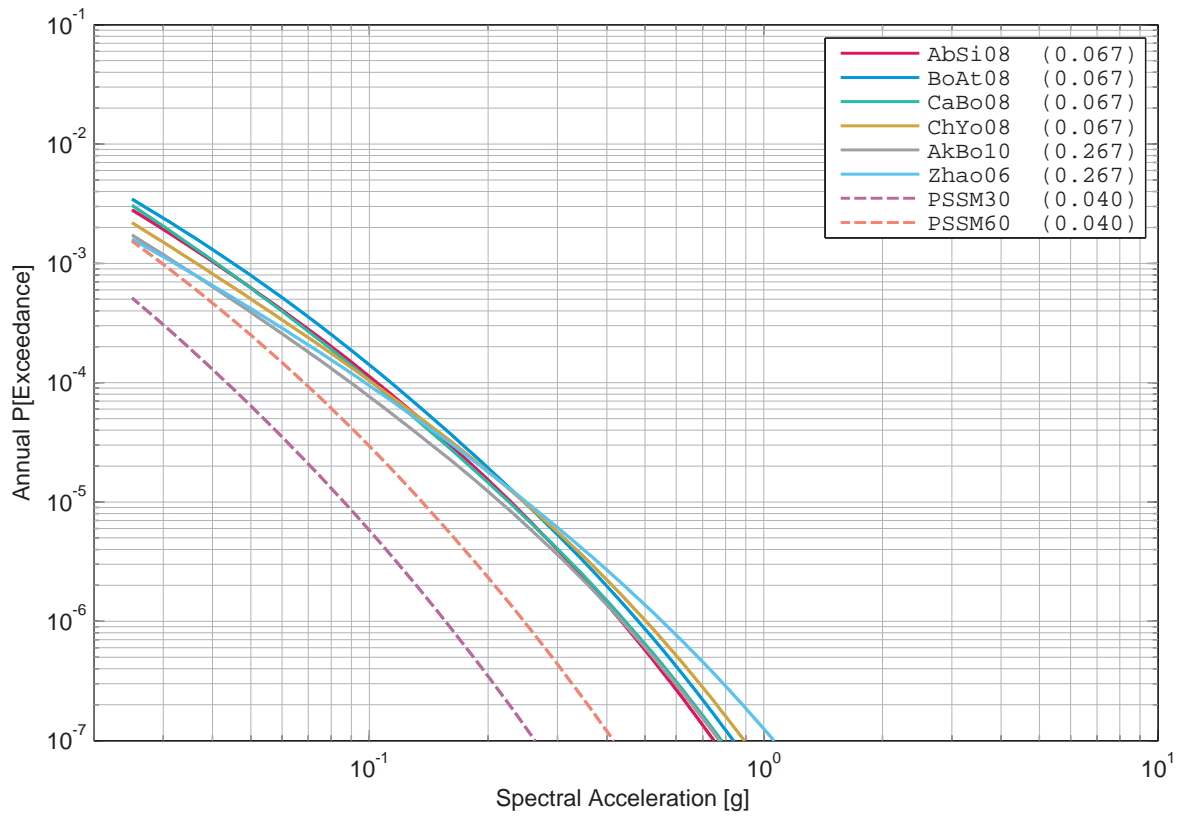


Figure 4.8.21: Leibstadt, horizontal component, rock, Campbell's sensitivity to the model, 1 Hz.

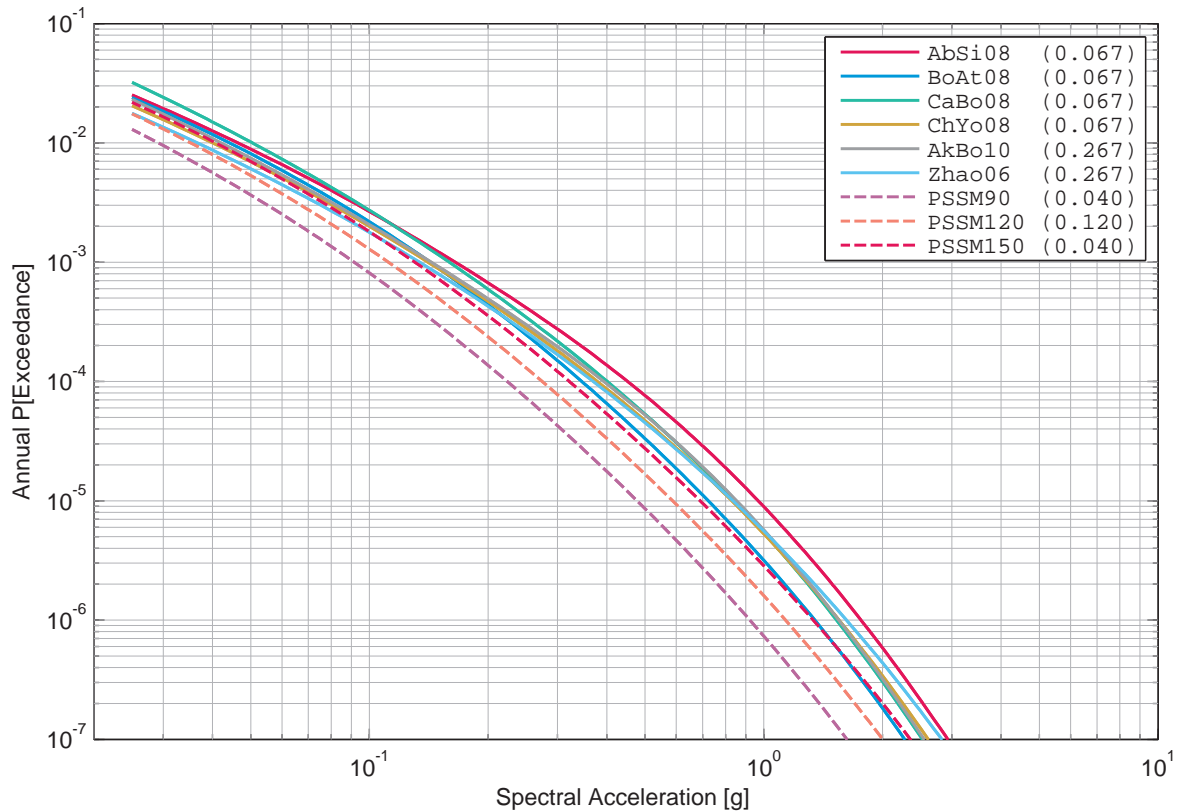


Figure 4.8.22: Leibstadt, horizontal component, rock, Campbell's sensitivity to the model, 5 Hz.

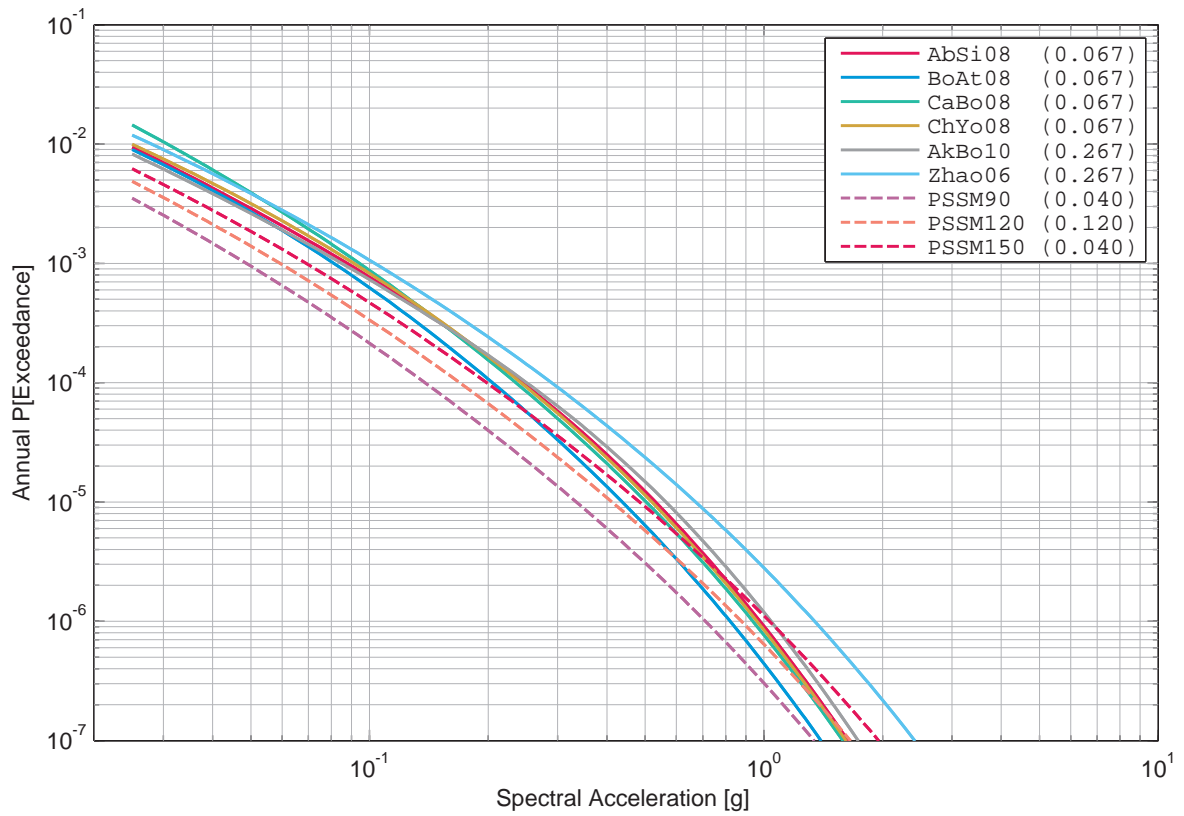


Figure 4.8.23: Leibstadt, horizontal component, rock, Campbell's sensitivity to the model, 33 Hz.

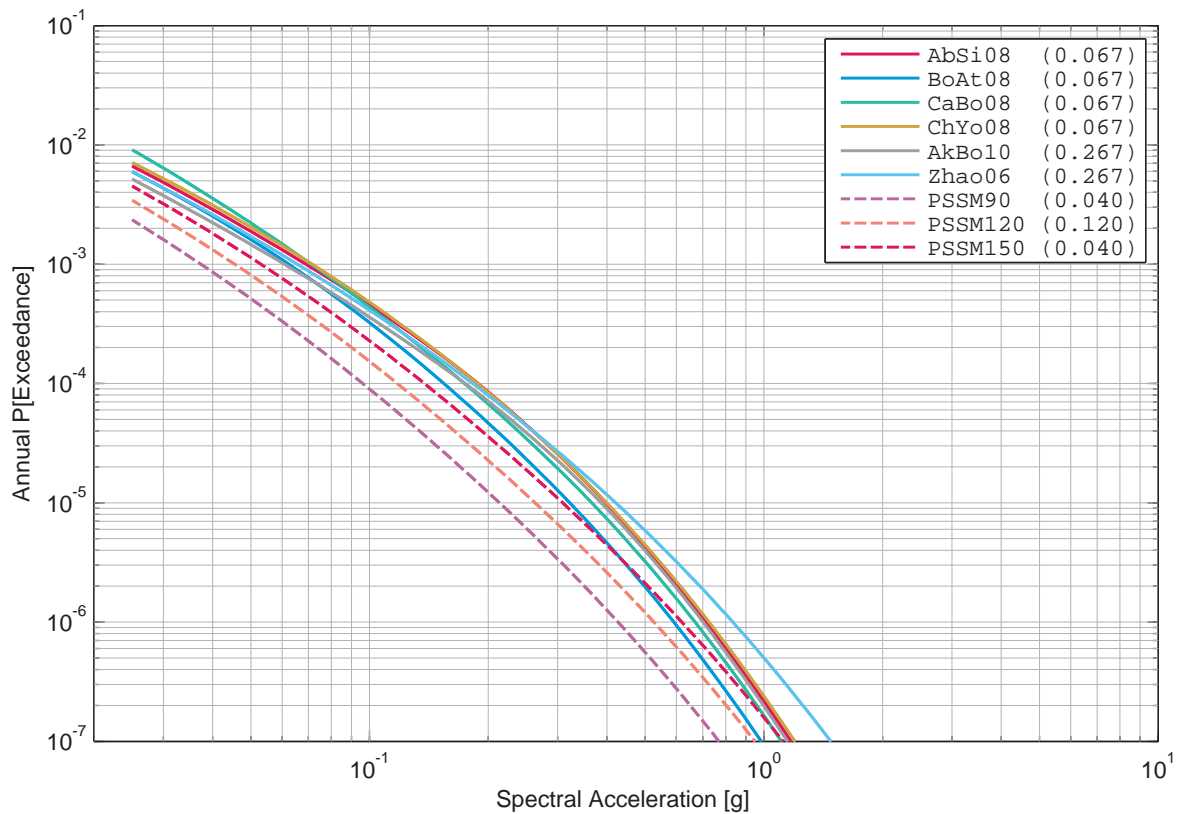


Figure 4.8.24: Leibstadt, horizontal component, rock, Campbell's sensitivity to the model, 100 Hz.

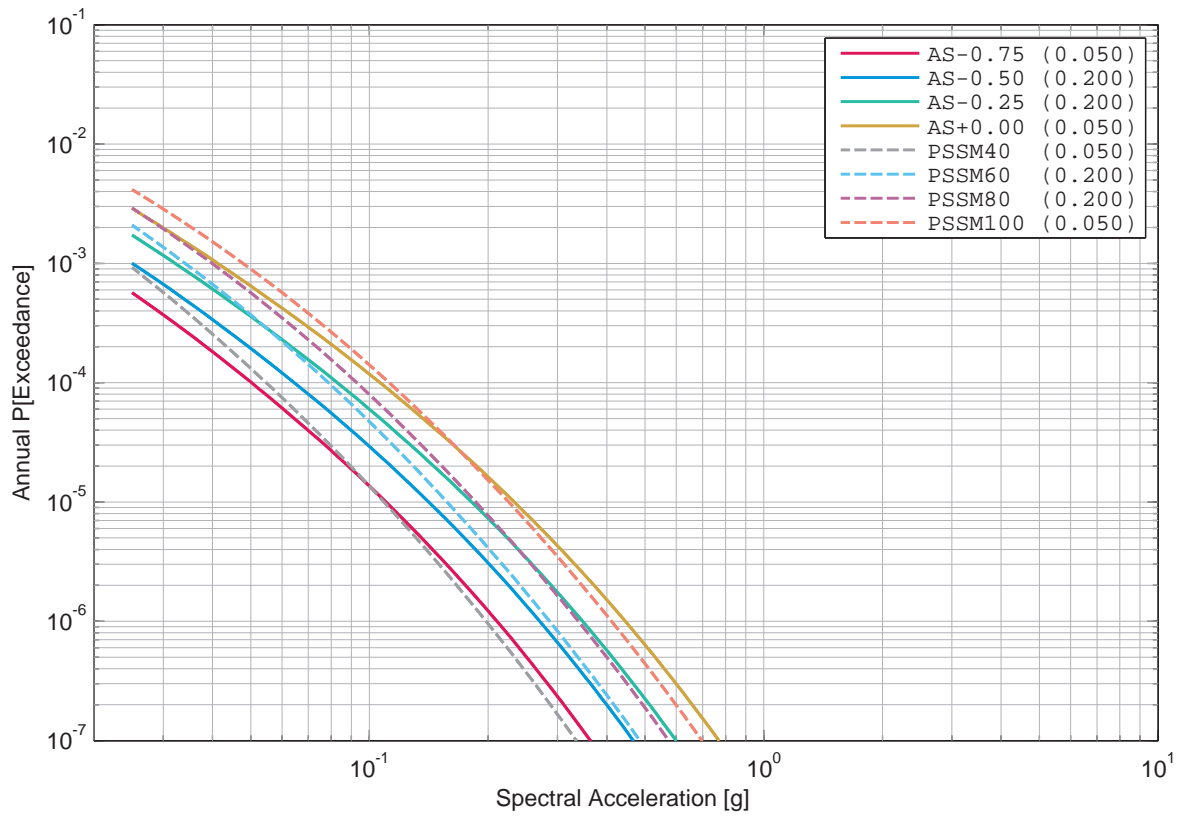


Figure 4.8.25: Leibstadt, horizontal component, rock, Cotton’s sensitivity to the model, 1 Hz.

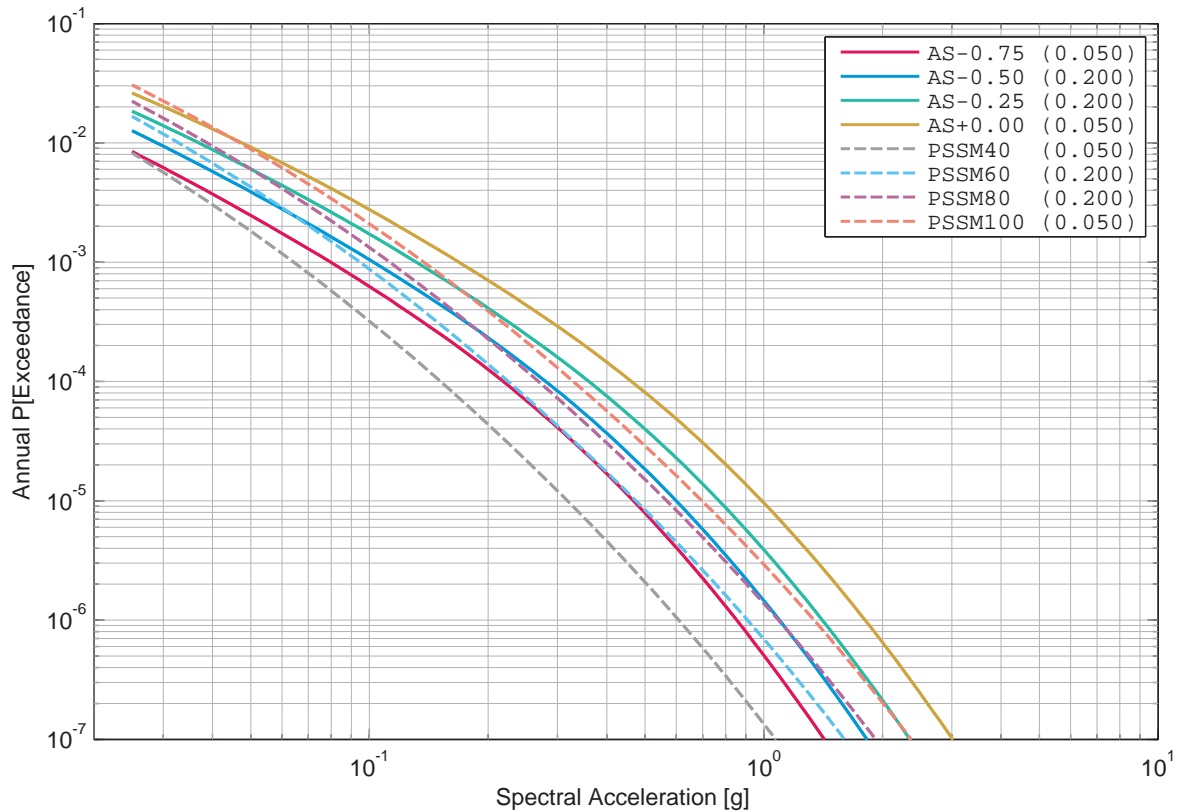


Figure 4.8.26: Leibstadt, horizontal component, rock, Cotton’s sensitivity to the model, 5 Hz.

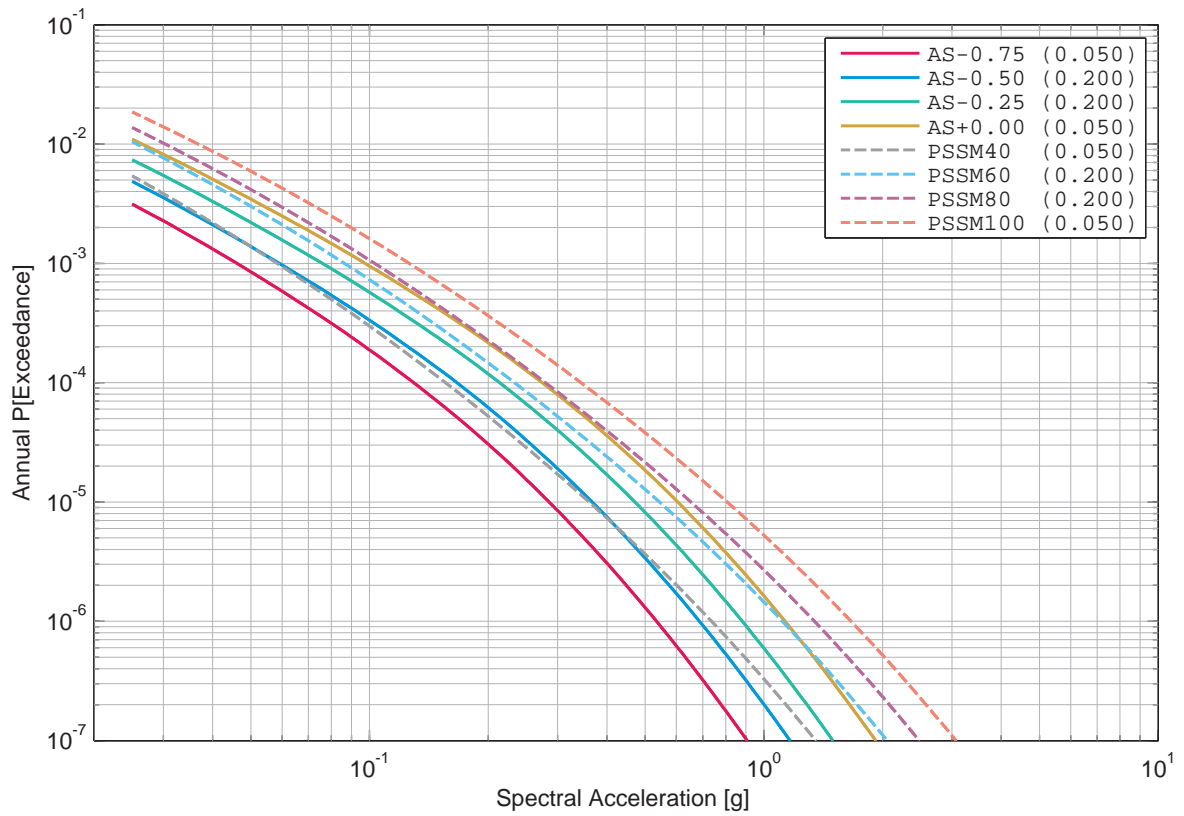


Figure 4.8.27: Leibstadt, horizontal component, rock, Cotton's sensitivity to the model, 33 Hz.

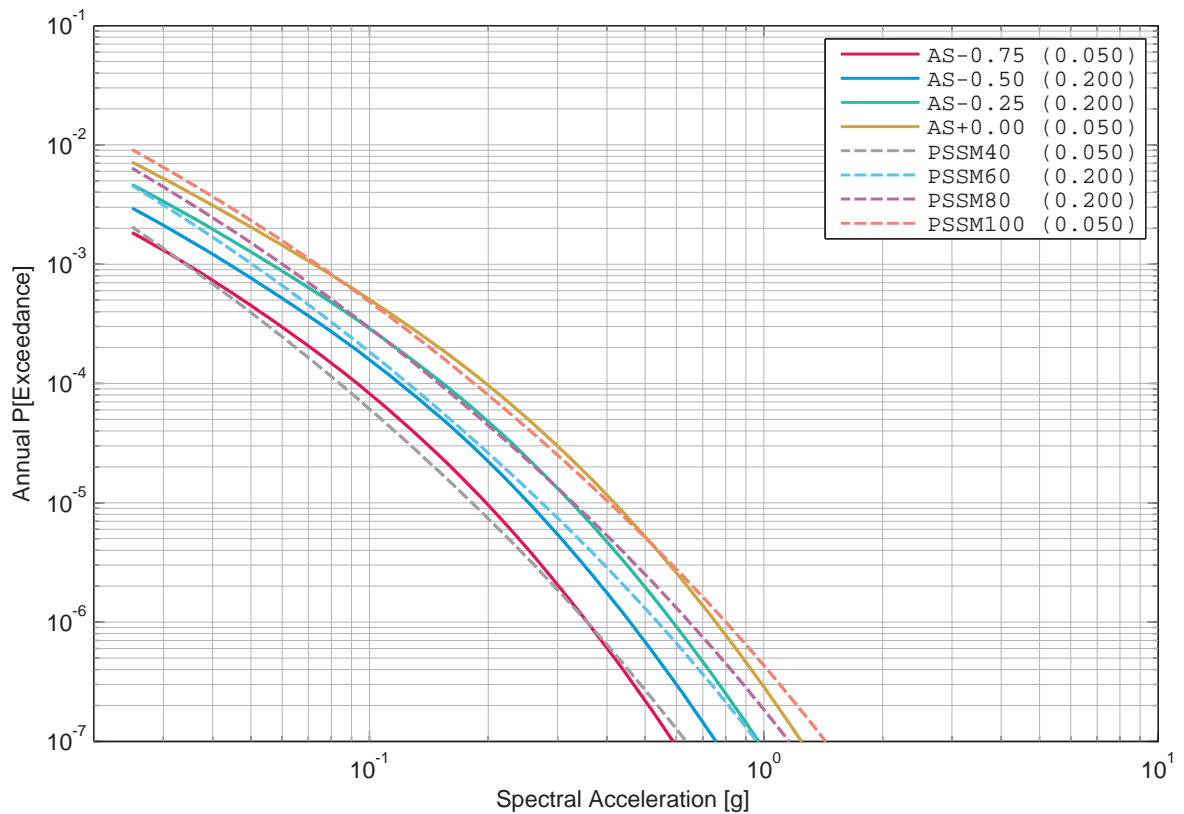


Figure 4.8.28: Leibstadt, horizontal component, rock, Cotton's sensitivity to the model, 100 Hz.

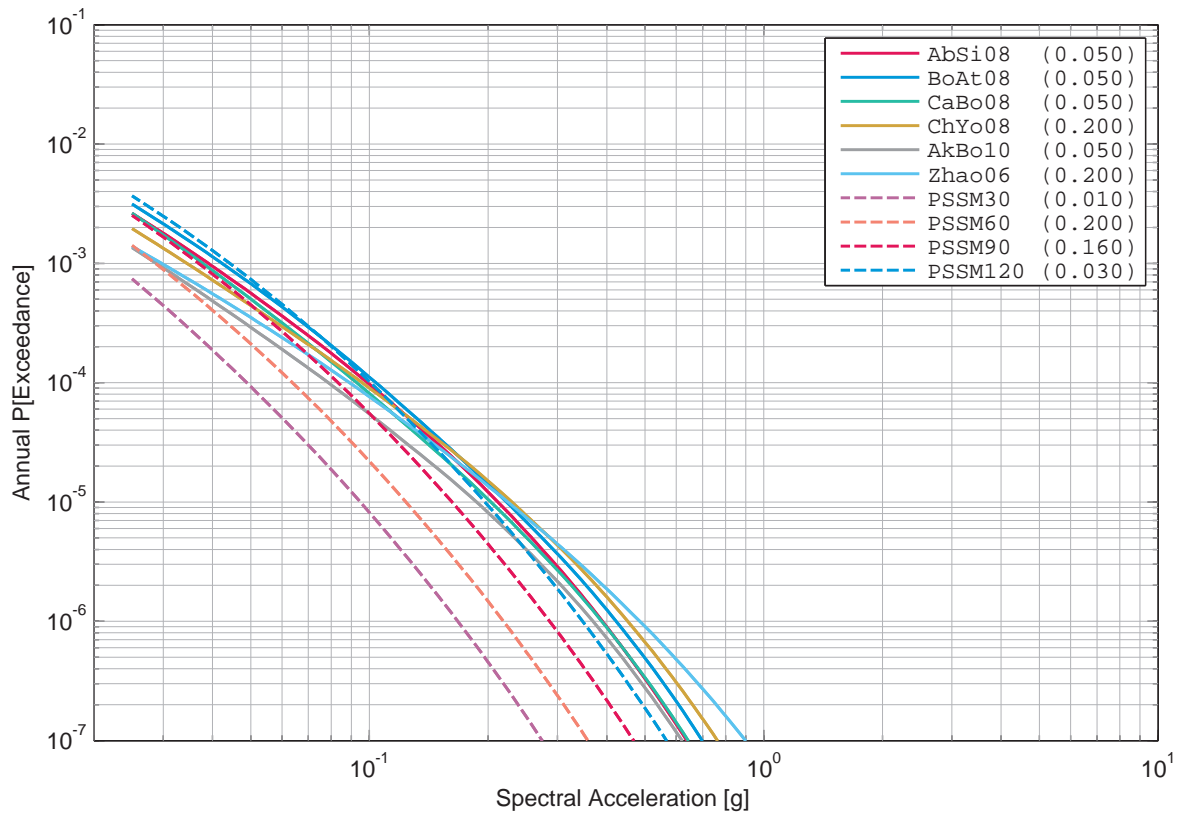


Figure 4.8.29: Leibstadt, horizontal component, rock, Faeh’s sensitivity to the model, 1 Hz.

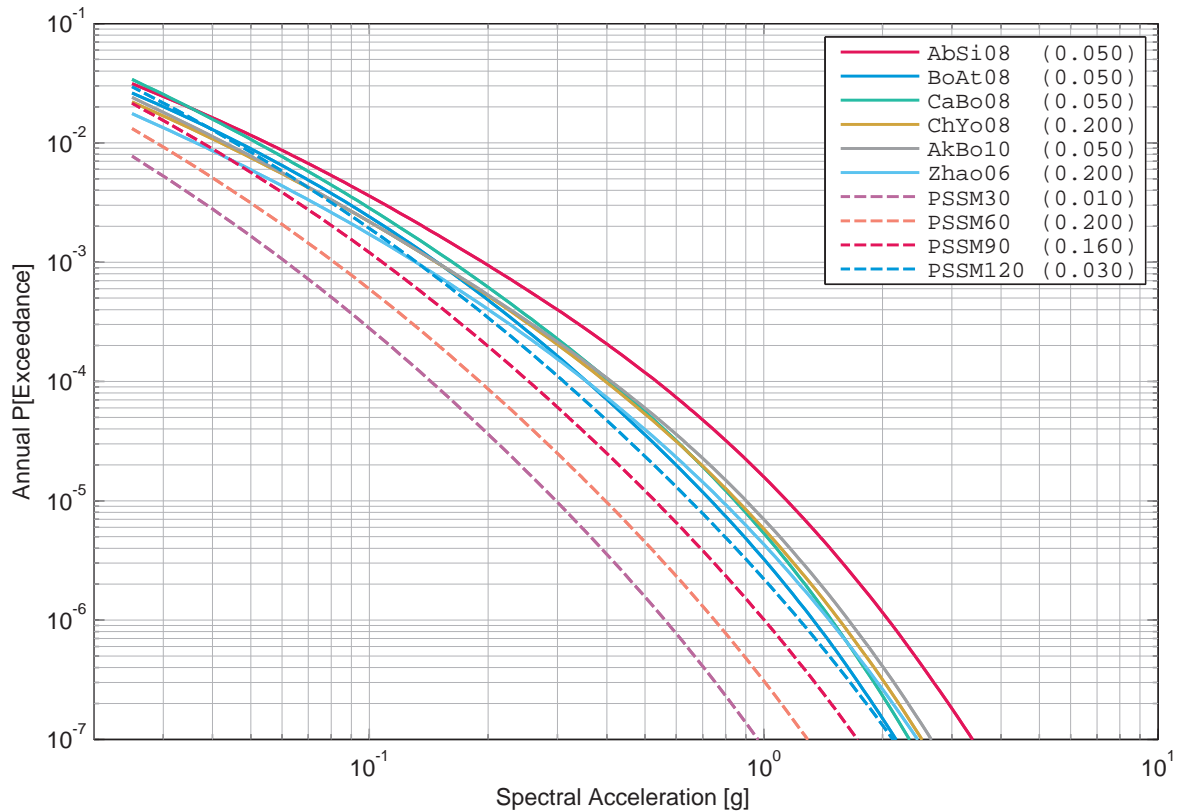


Figure 4.8.30: Leibstadt, horizontal component, rock, Faeh’s sensitivity to the model, 5 Hz.

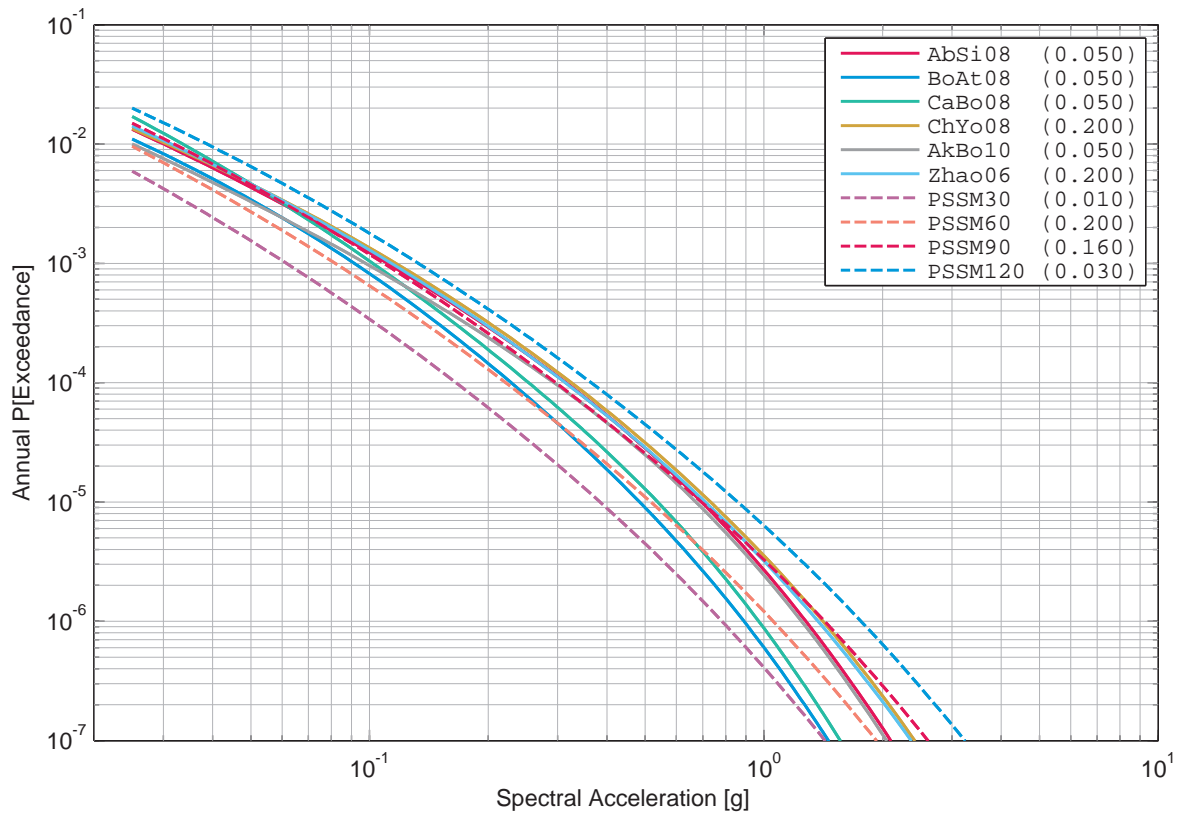


Figure 4.8.31: Leibstadt, horizontal component, rock, Faeh's sensitivity to the model, 33 Hz.

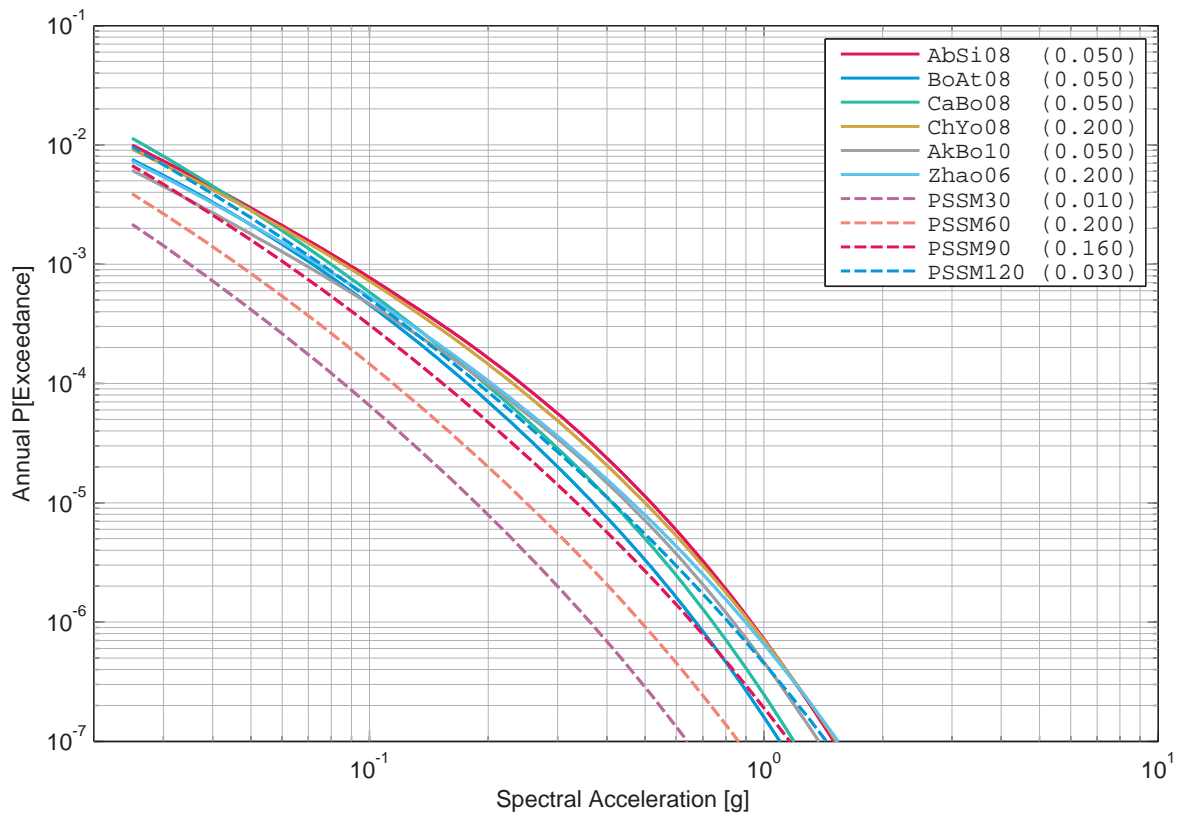


Figure 4.8.32: Leibstadt, horizontal component, rock, Faeh's sensitivity to the model, 100 Hz.

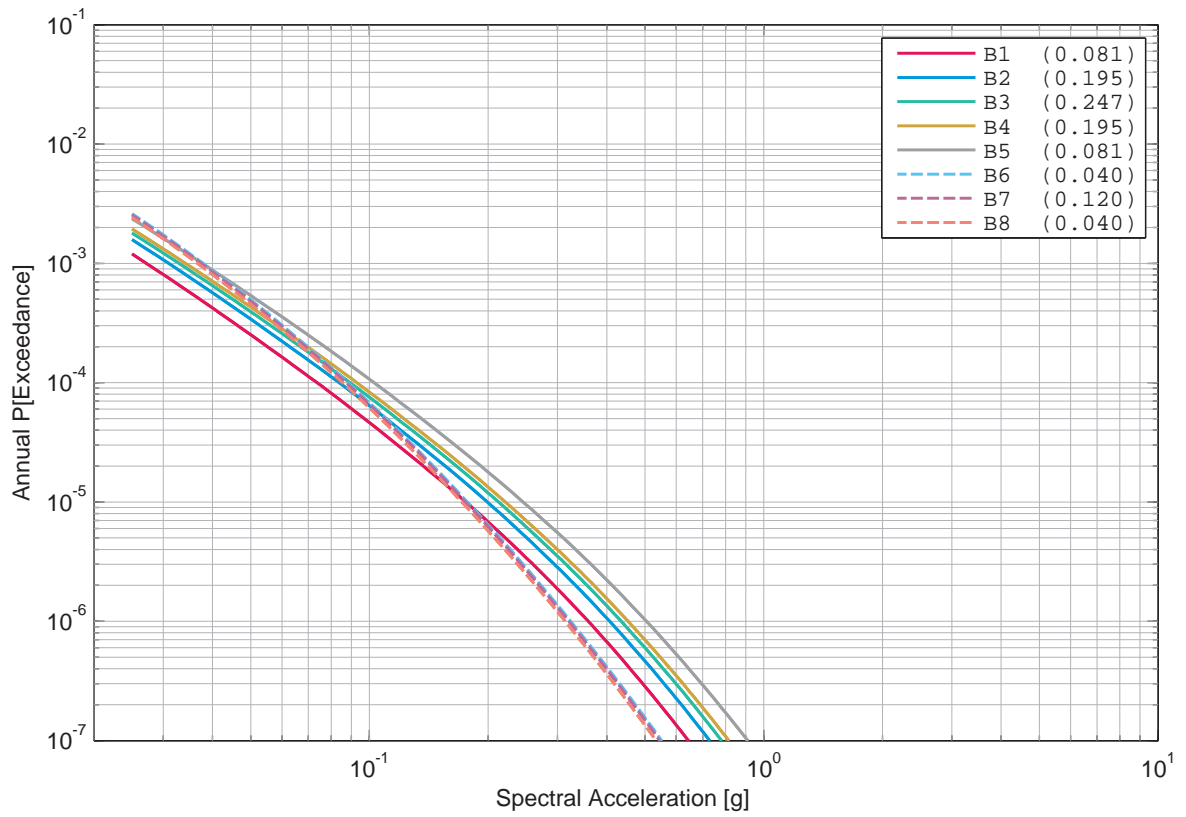


Figure 4.8.33: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the Vs-kappa correction, 1 Hz.

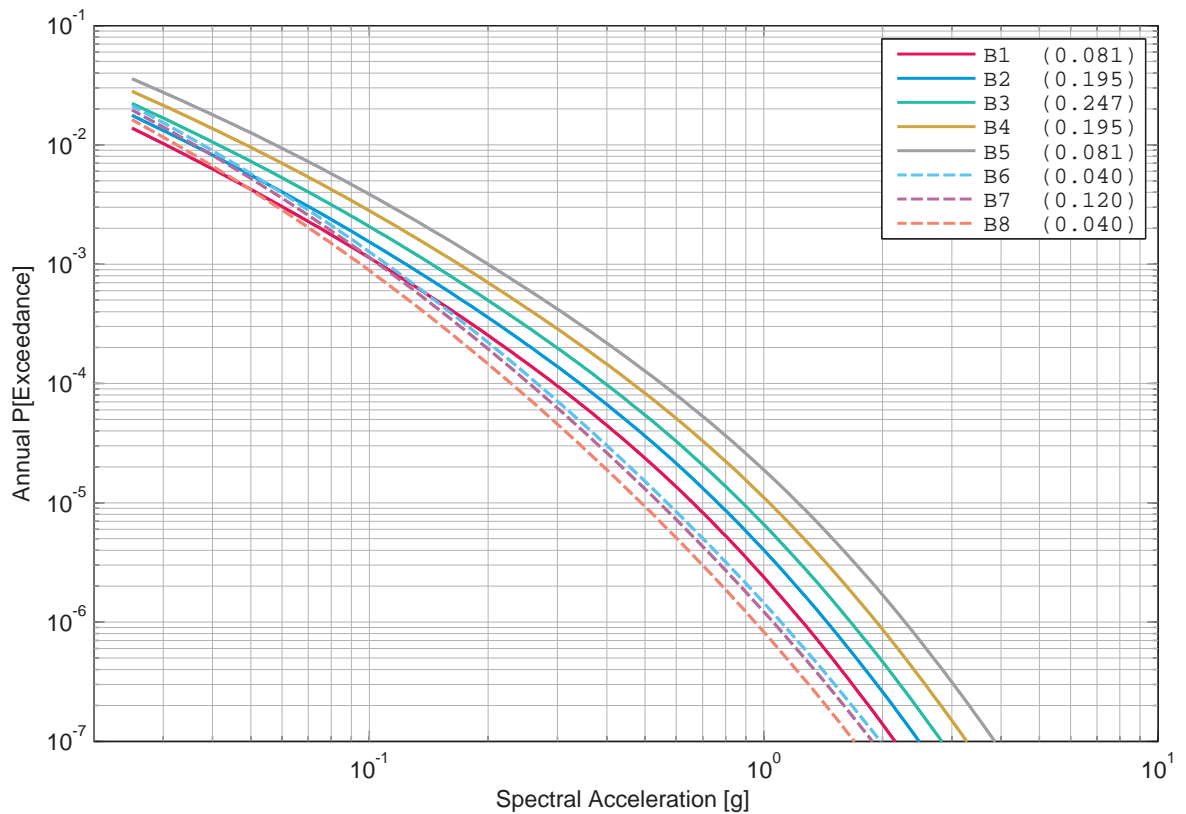


Figure 4.8.34: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the Vs-kappa correction, 5 Hz.

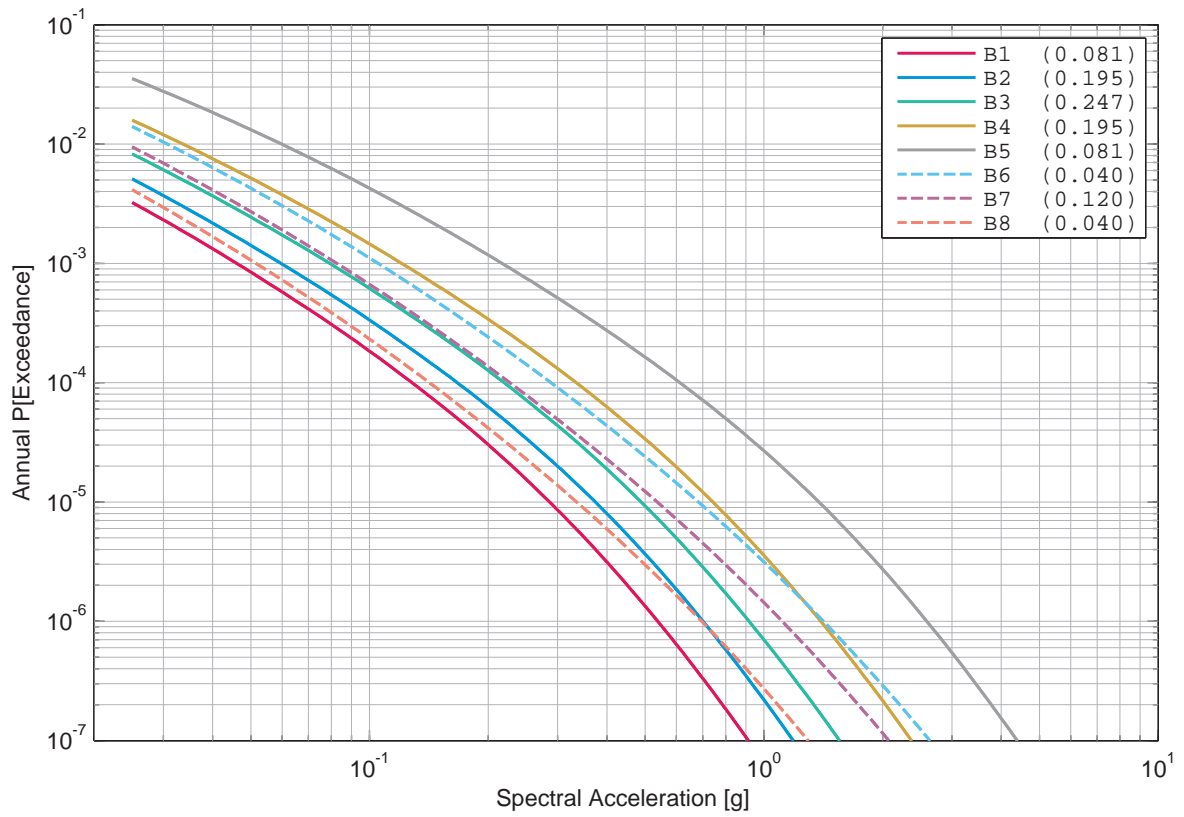


Figure 4.8.35: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the Vs-kappa correction, 33 Hz.

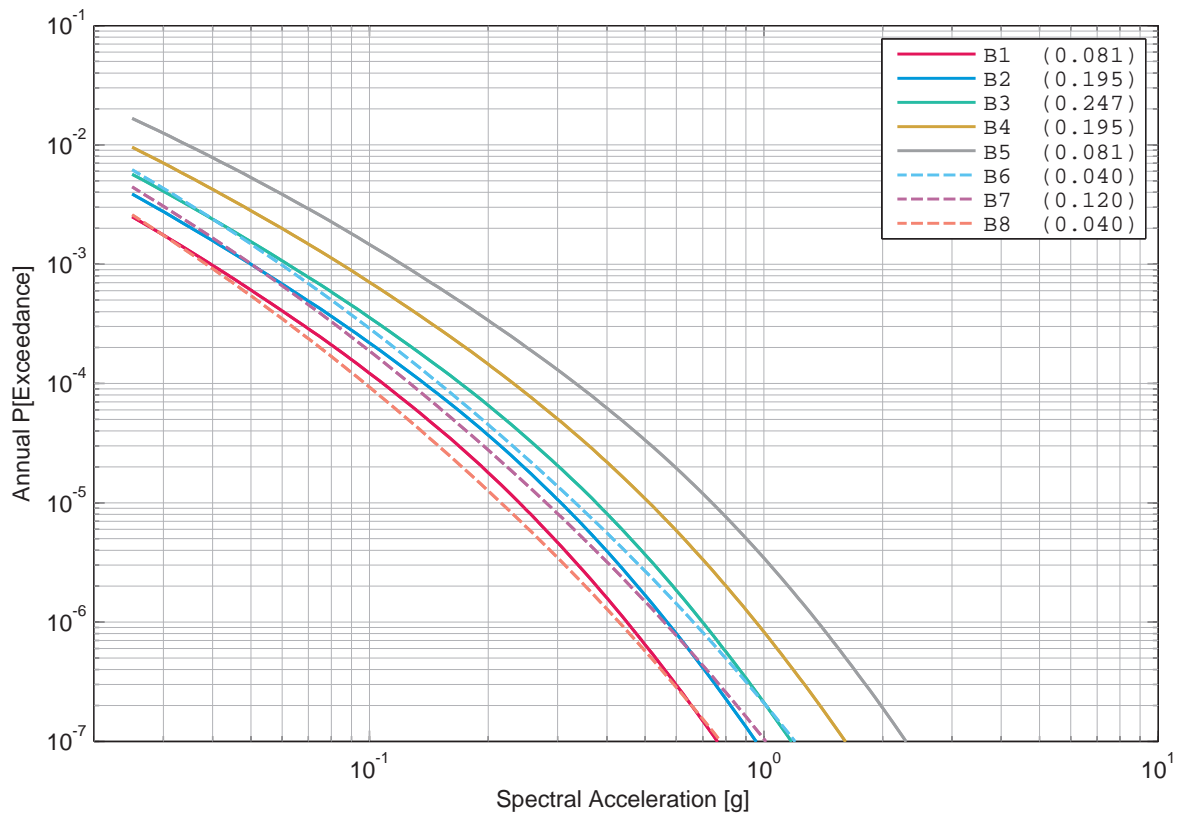


Figure 4.8.36: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the Vs-kappa correction, 100 Hz.

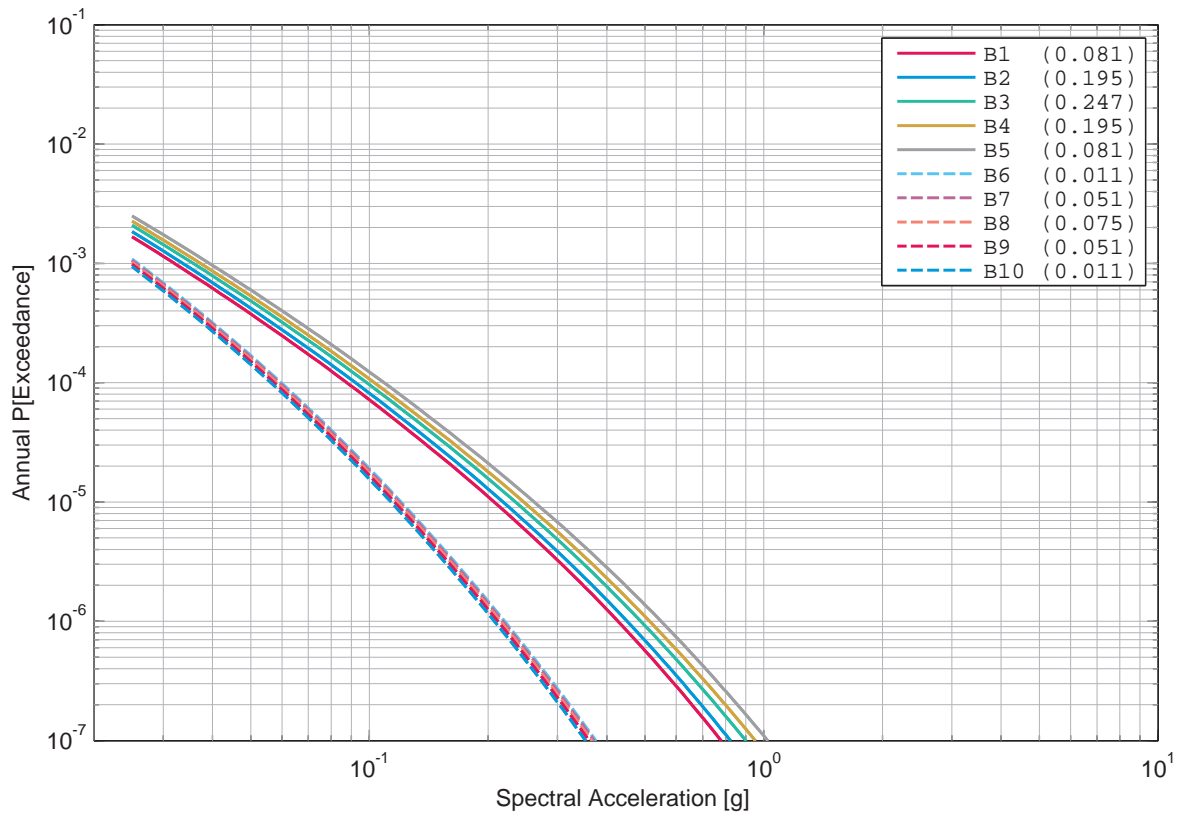


Figure 4.8.37: Leibstadt, horizontal component, rock, Campbell's sensitivity to the Vs-kappa correction, 1 Hz.

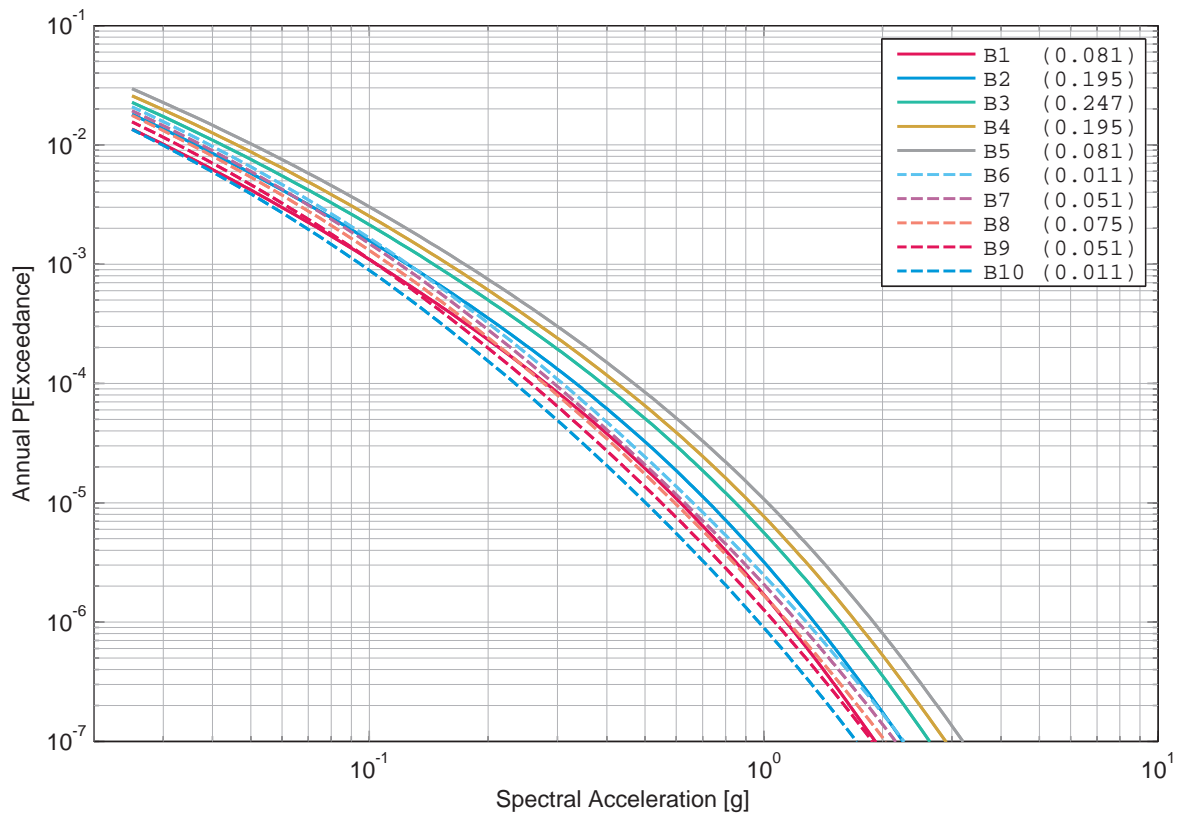


Figure 4.8.38: Leibstadt, horizontal component, rock, Campbell's sensitivity to the Vs-kappa correction, 5 Hz.

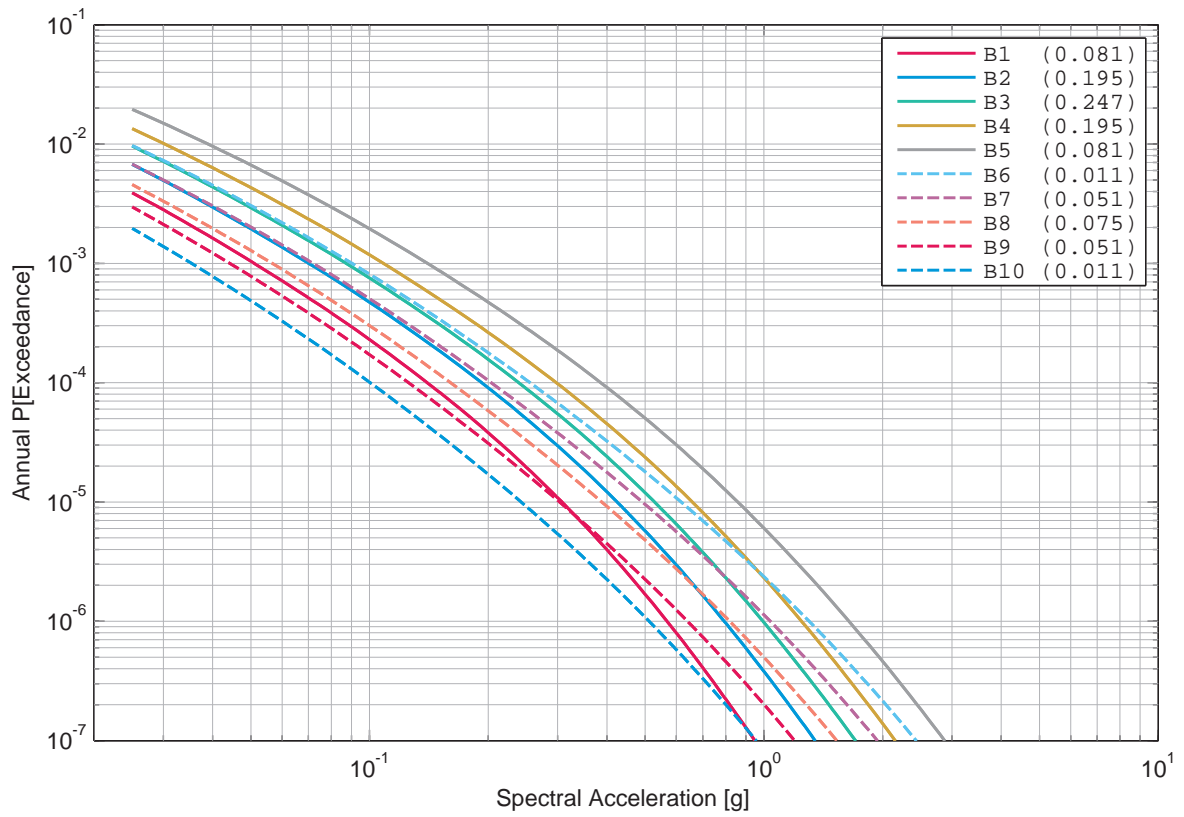


Figure 4.8.39: Leibstadt, horizontal component, rock, Campbell's sensitivity to the Vs-kappa correction, 33 Hz.

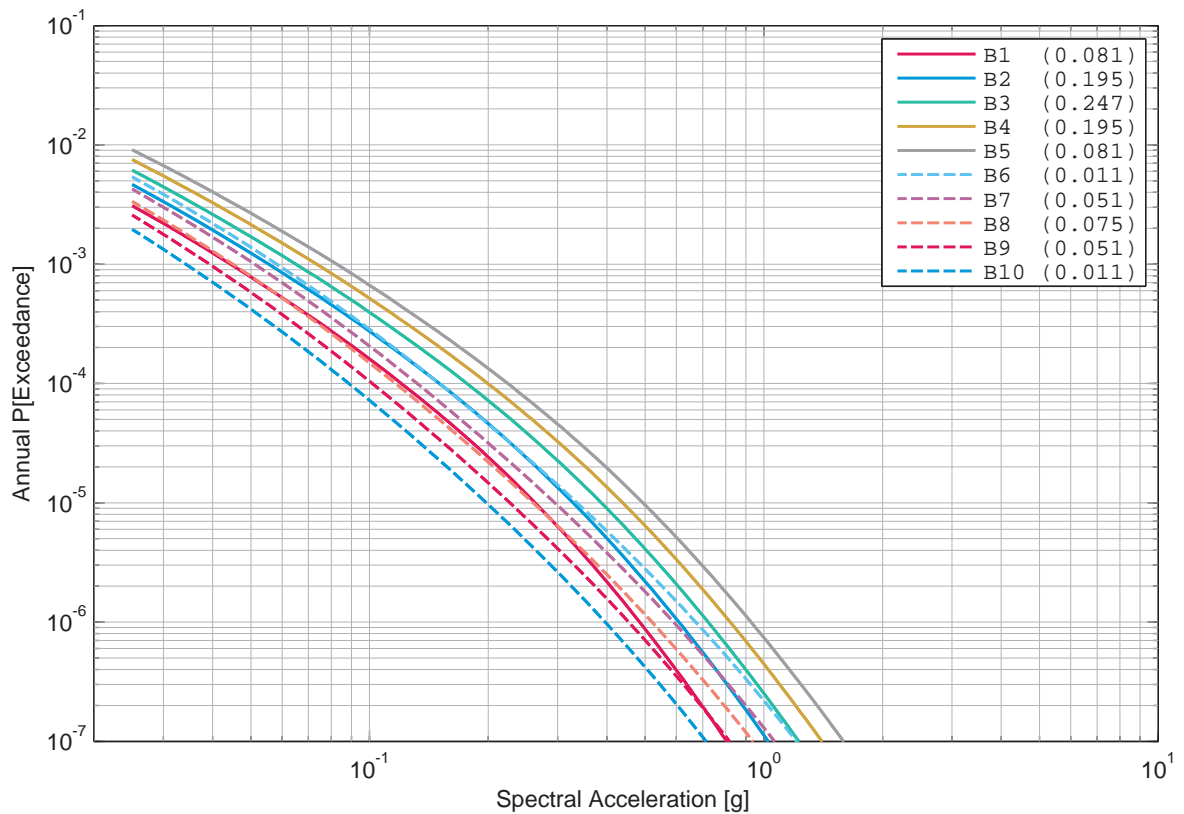


Figure 4.8.40: Leibstadt, horizontal component, rock, Campbell's sensitivity to the Vs-kappa correction, 100 Hz.

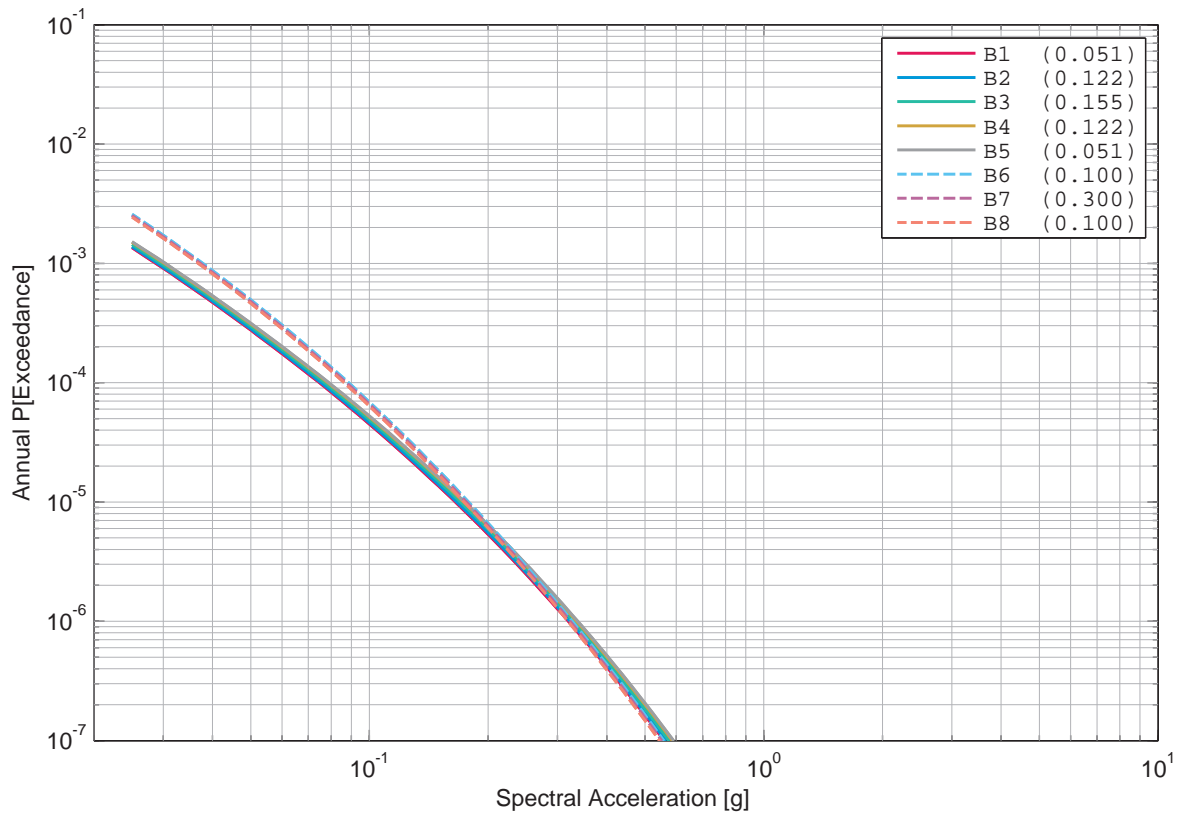


Figure 4.8.41: Leibstadt, horizontal component, rock, Cotton’s sensitivity to the Vs-kappa correction, 1 Hz.

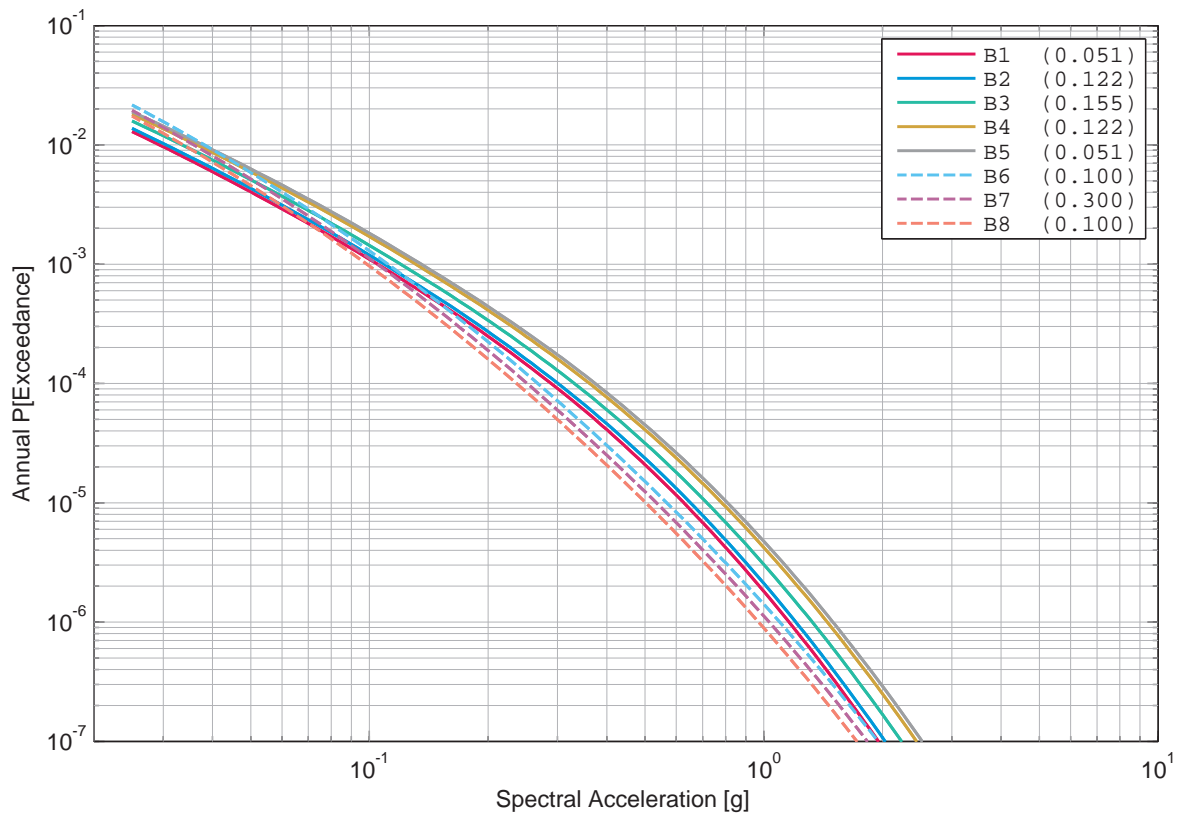


Figure 4.8.42: Leibstadt, horizontal component, rock, Cotton’s sensitivity to the Vs-kappa correction, 5 Hz.

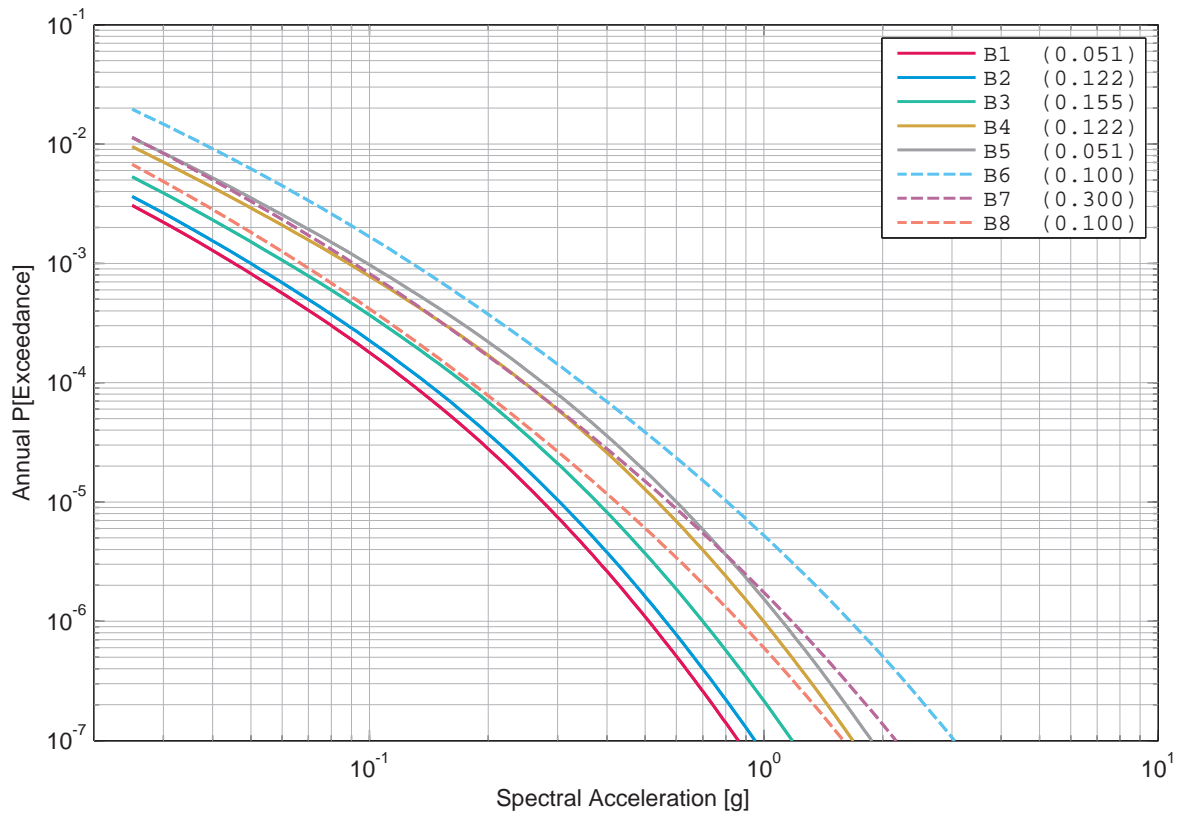


Figure 4.8.43: Leibstadt, horizontal component, rock, Cotton's sensitivity to the Vs-kappa correction, 33 Hz.

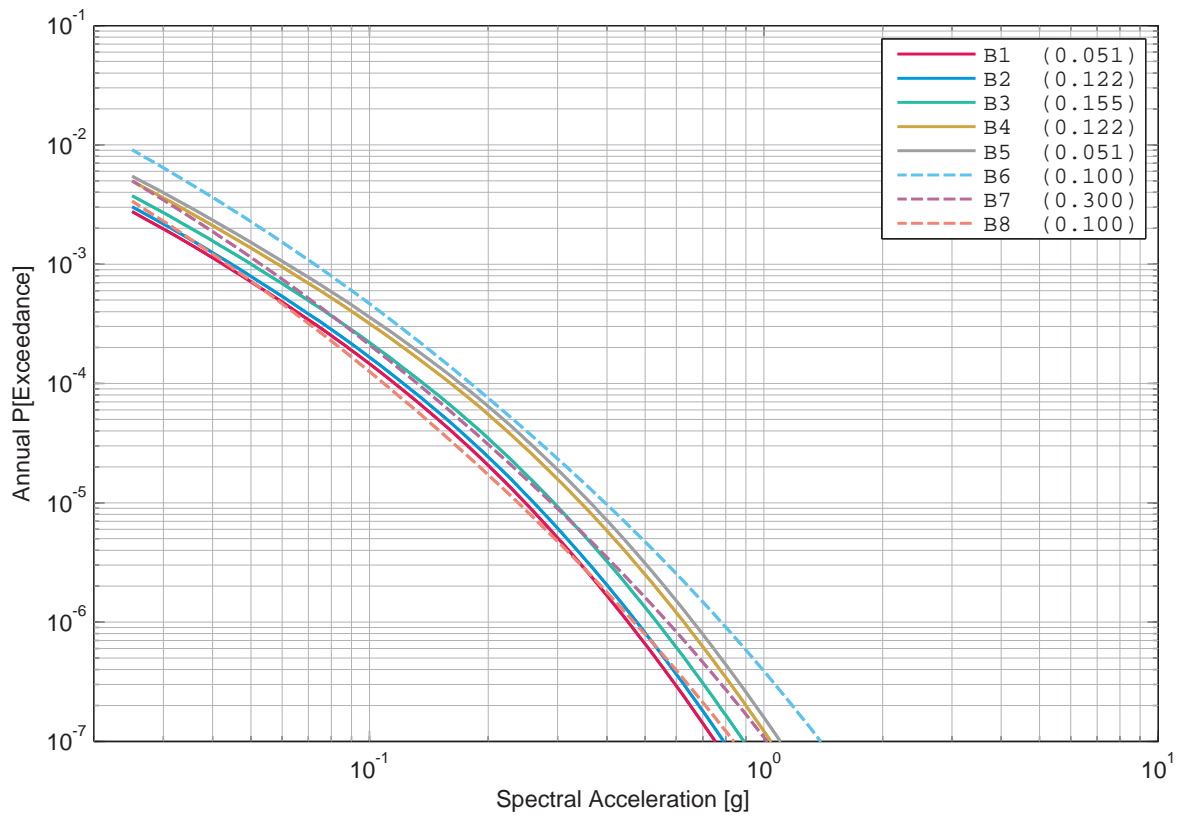


Figure 4.8.44: Leibstadt, horizontal component, rock, Cotton's sensitivity to the Vs-kappa correction, 100 Hz.

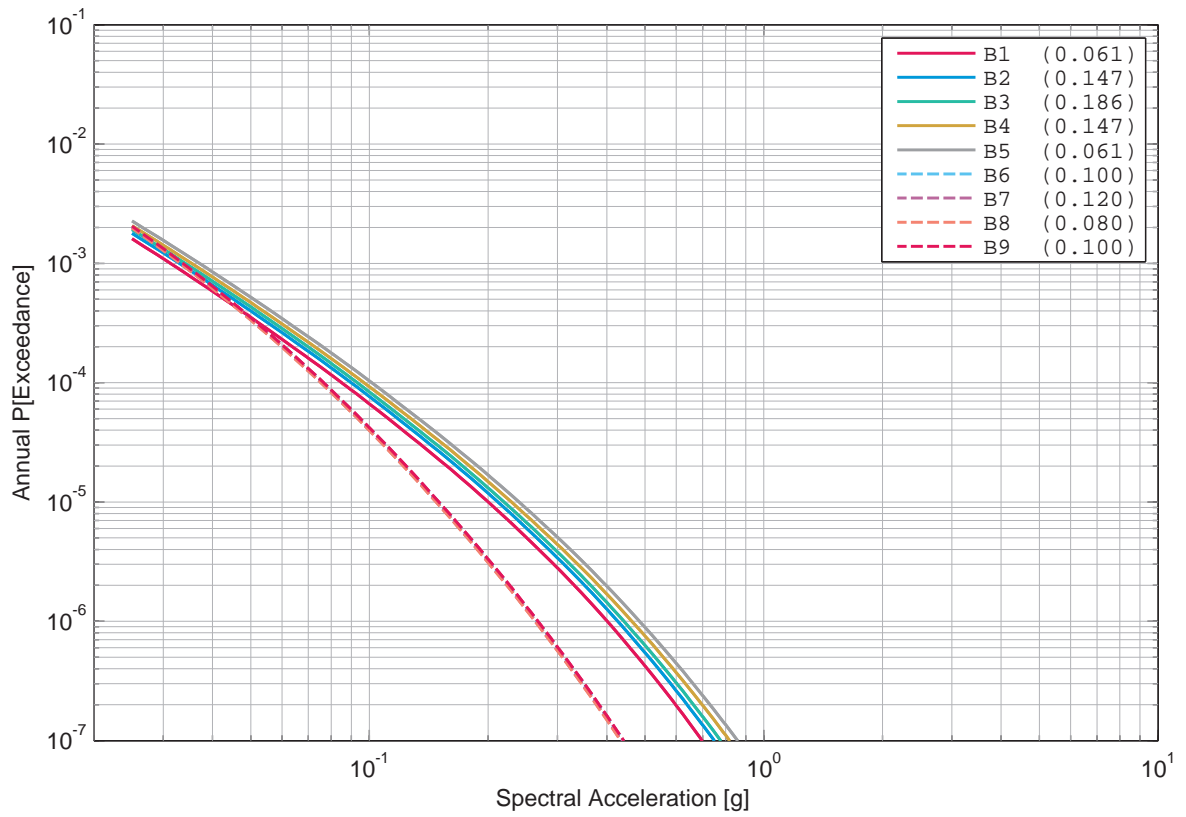


Figure 4.8.45: Leibstadt, horizontal component, rock, Faeh’s sensitivity to the Vs-kappa correction, 1 Hz.

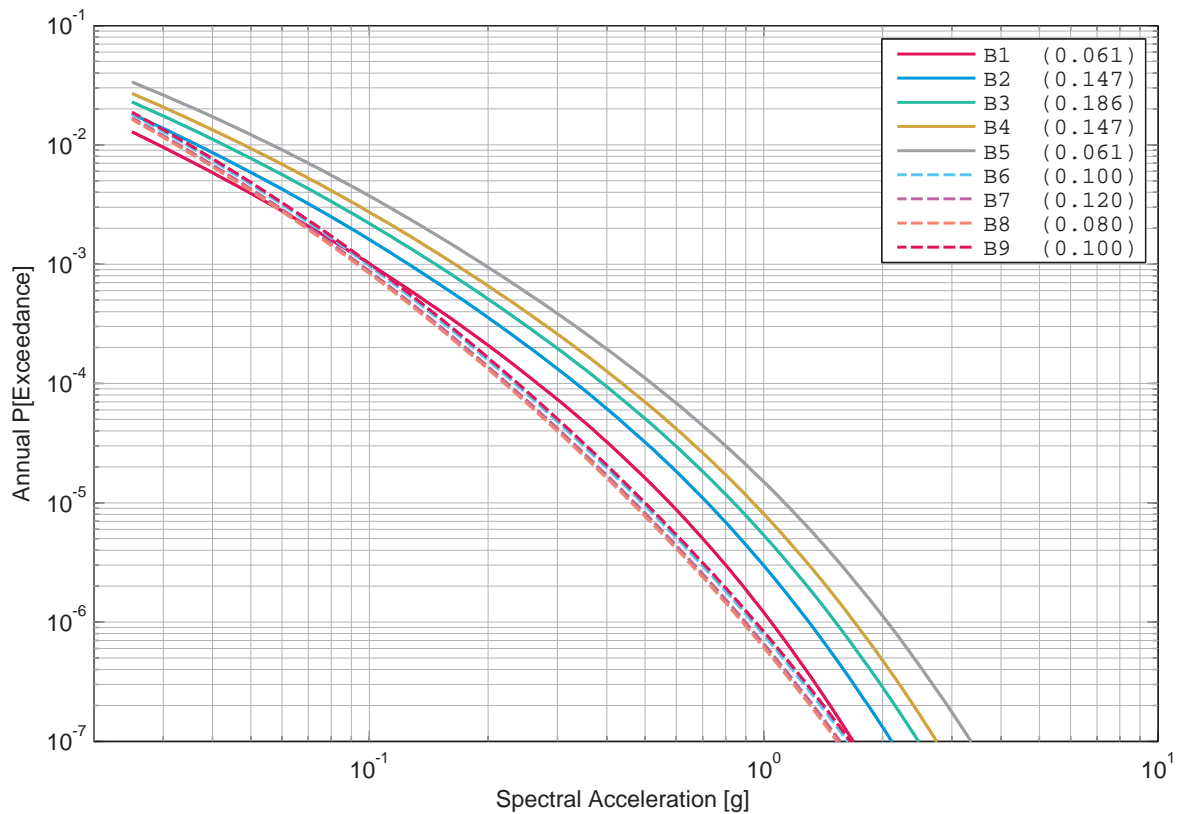


Figure 4.8.46: Leibstadt, horizontal component, rock, Faeh’s sensitivity to the Vs-kappa correction, 5 Hz.

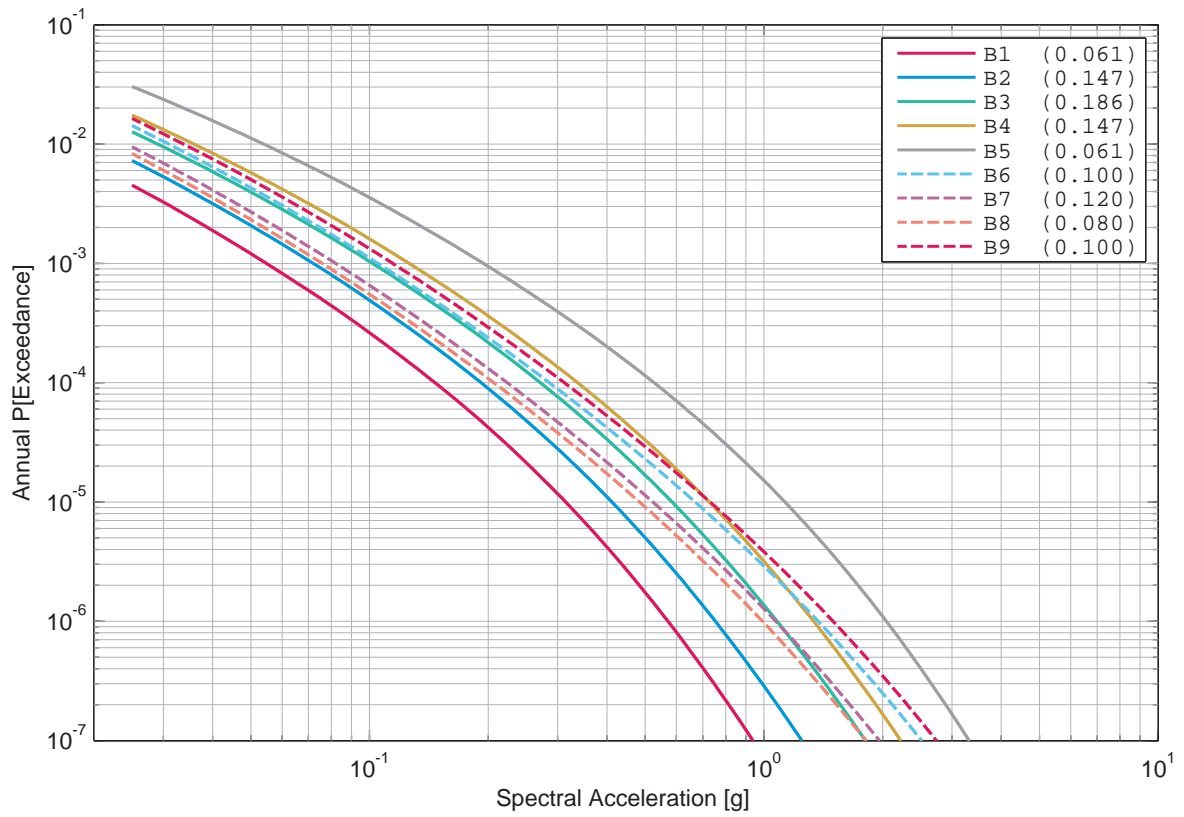


Figure 4.8.47: Leibstadt, horizontal component, rock, Faeh's sensitivity to the Vs-kappa correction, 33 Hz.

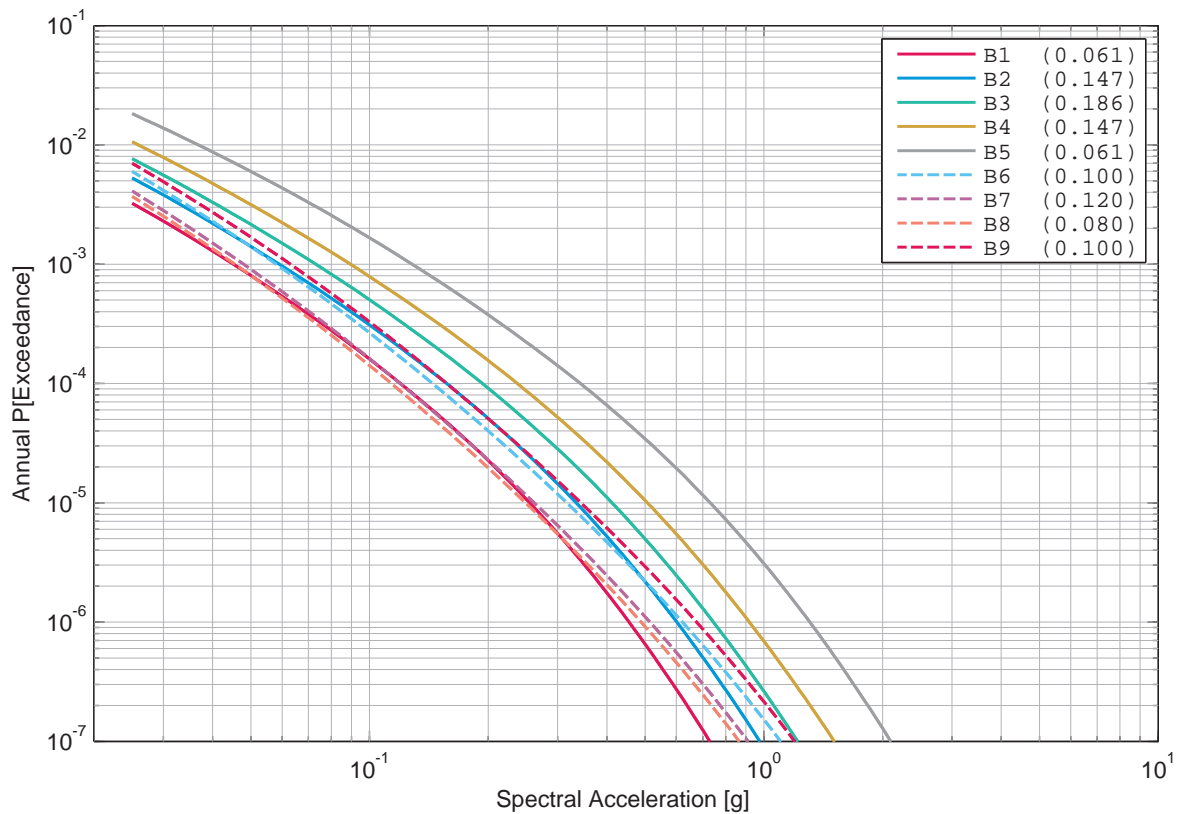


Figure 4.8.48: Leibstadt, horizontal component, rock, Faeh's sensitivity to the Vs-kappa correction, 100 Hz.

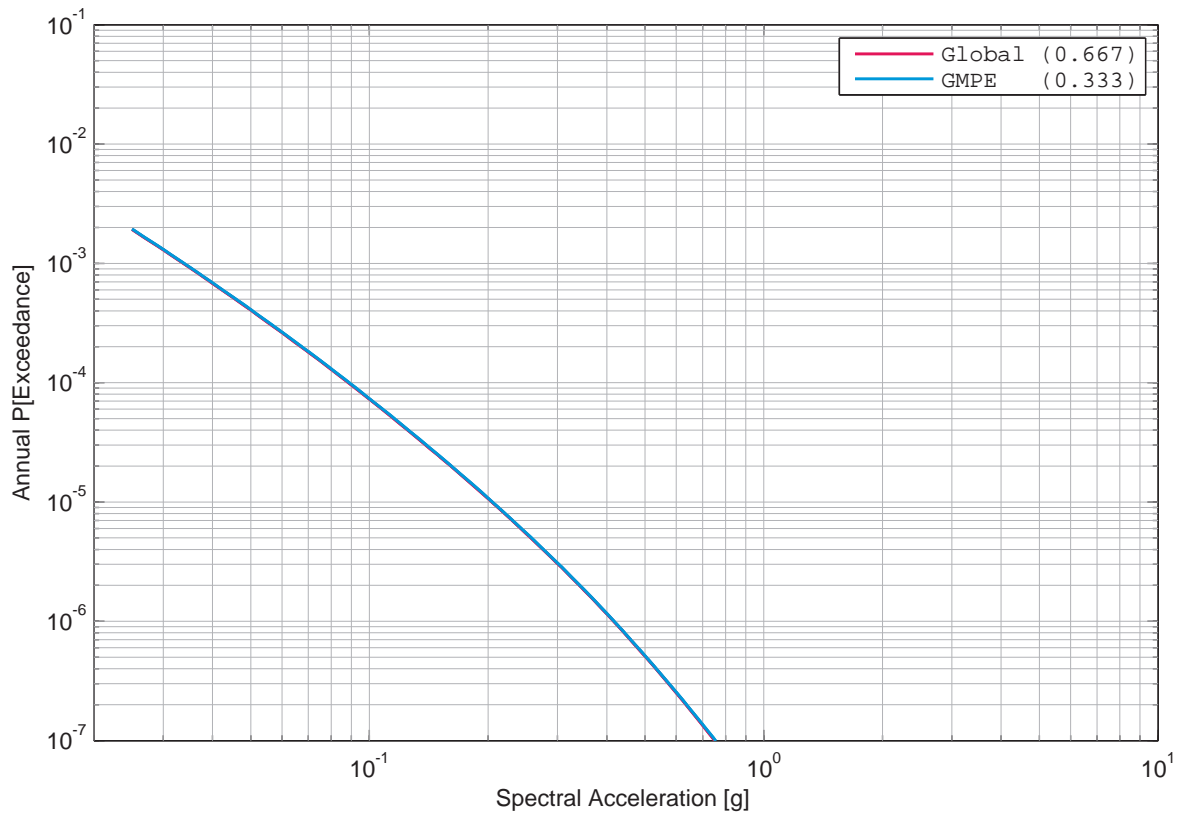


Figure 4.8.49: Leibstadt, horizontal component, rock, Bungum’s sensitivity to tau, 1 Hz.

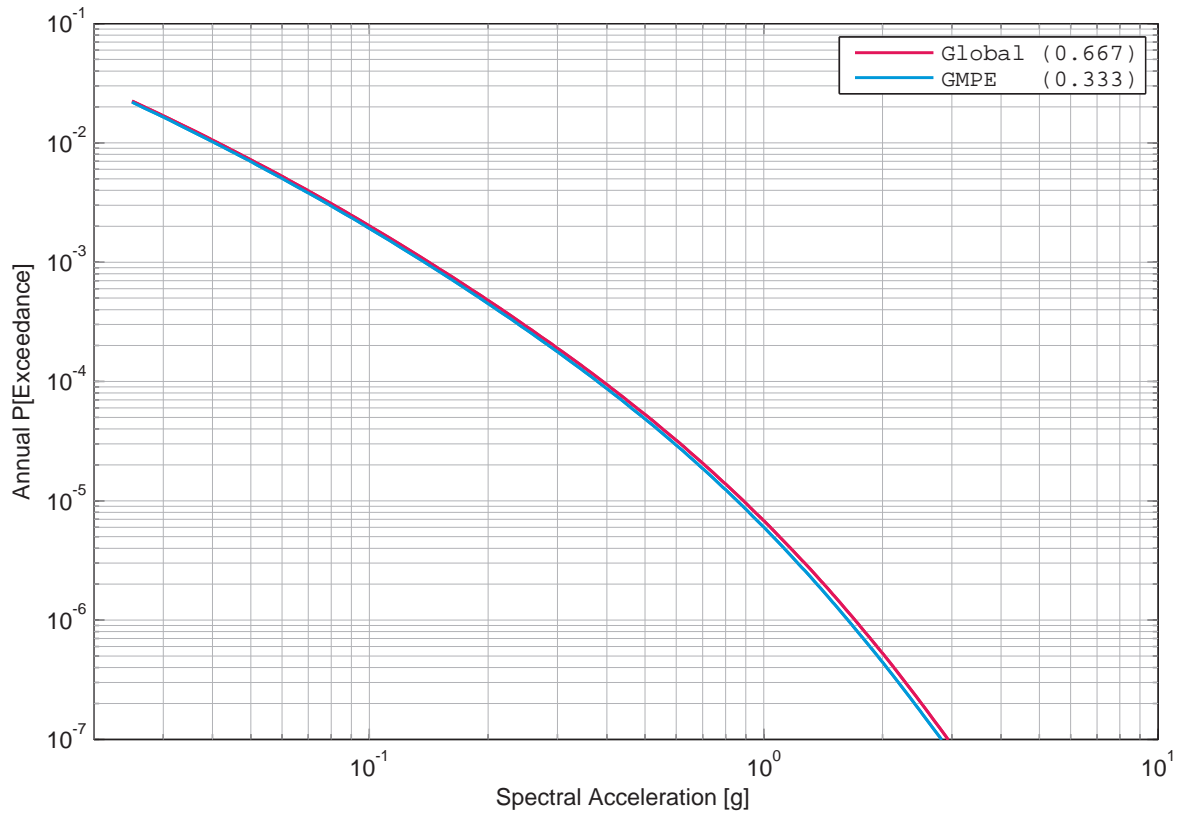


Figure 4.8.50: Leibstadt, horizontal component, rock, Bungum’s sensitivity to tau, 5 Hz.

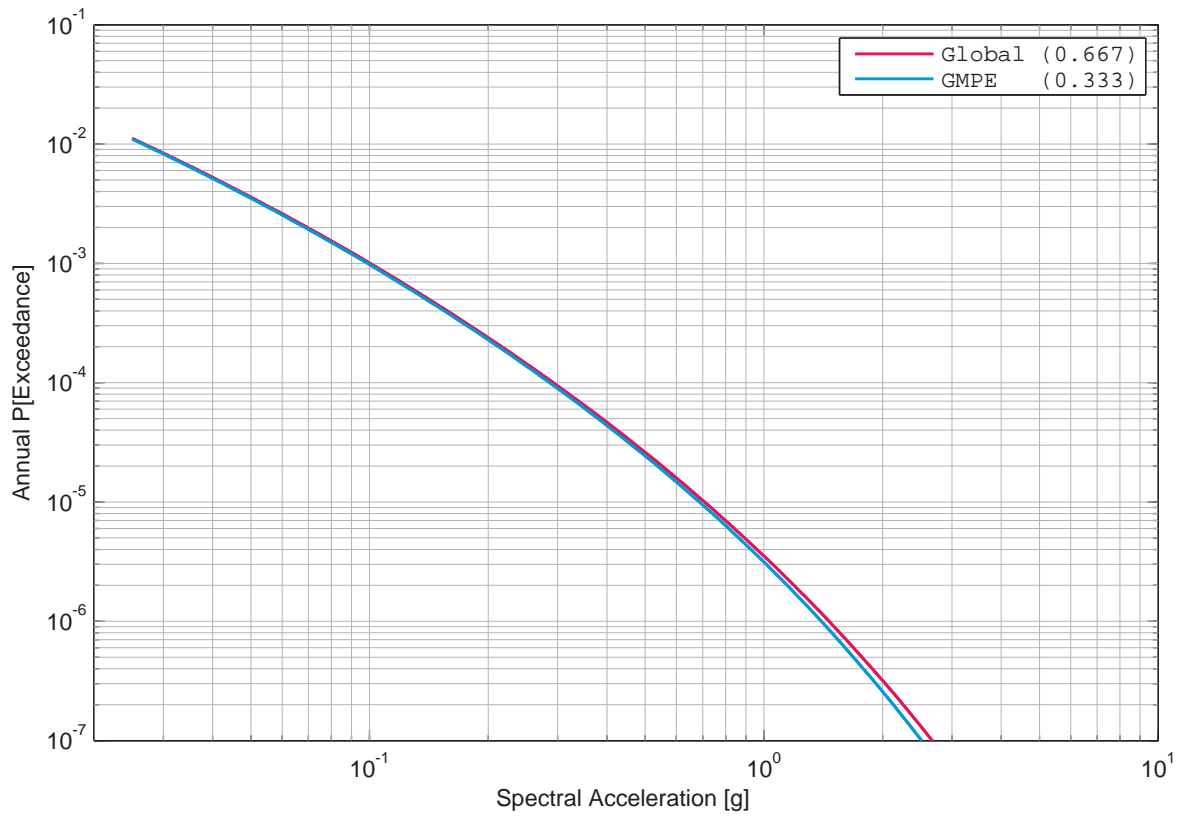


Figure 4.8.51: Leibstadt, horizontal component, rock, Bungum’s sensitivity to tau, 33 Hz.

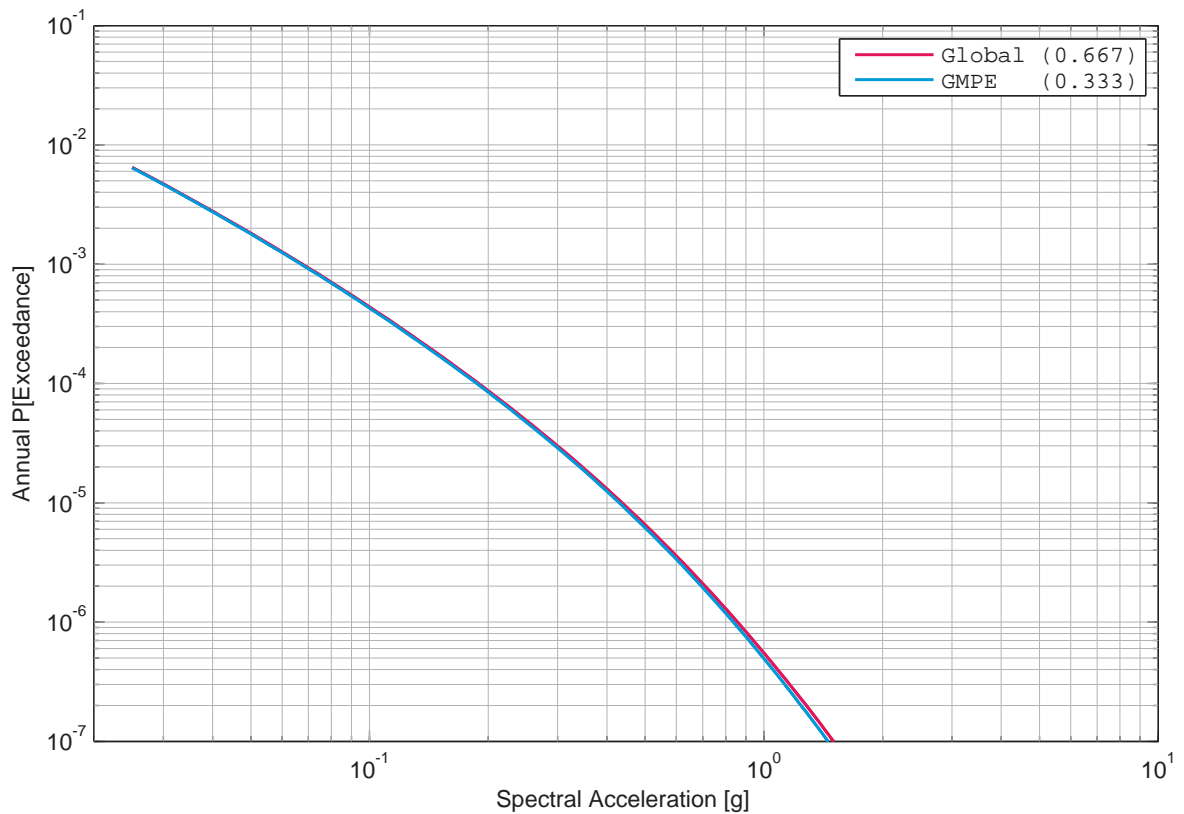


Figure 4.8.52: Leibstadt, horizontal component, rock, Bungum’s sensitivity to tau, 100 Hz.

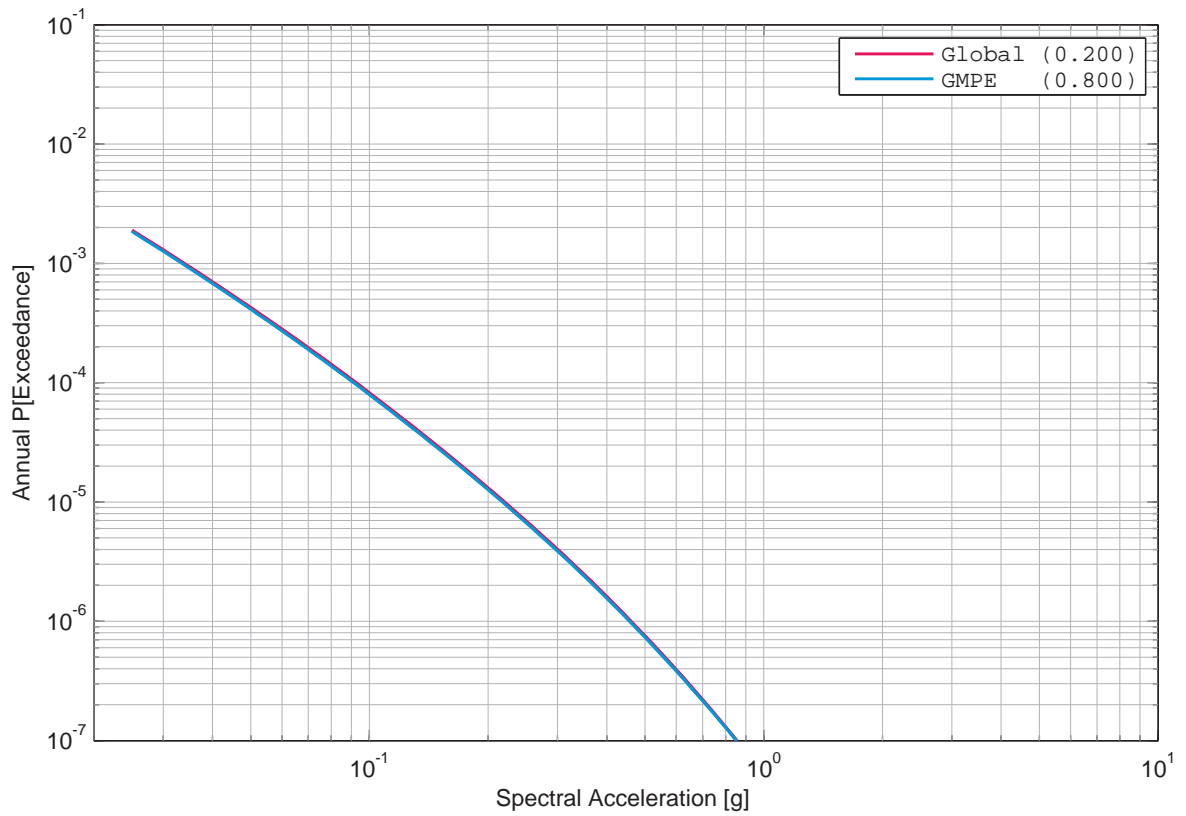


Figure 4.8.53: Leibstadt, horizontal component, rock, Campbell's sensitivity to tau, 1 Hz.

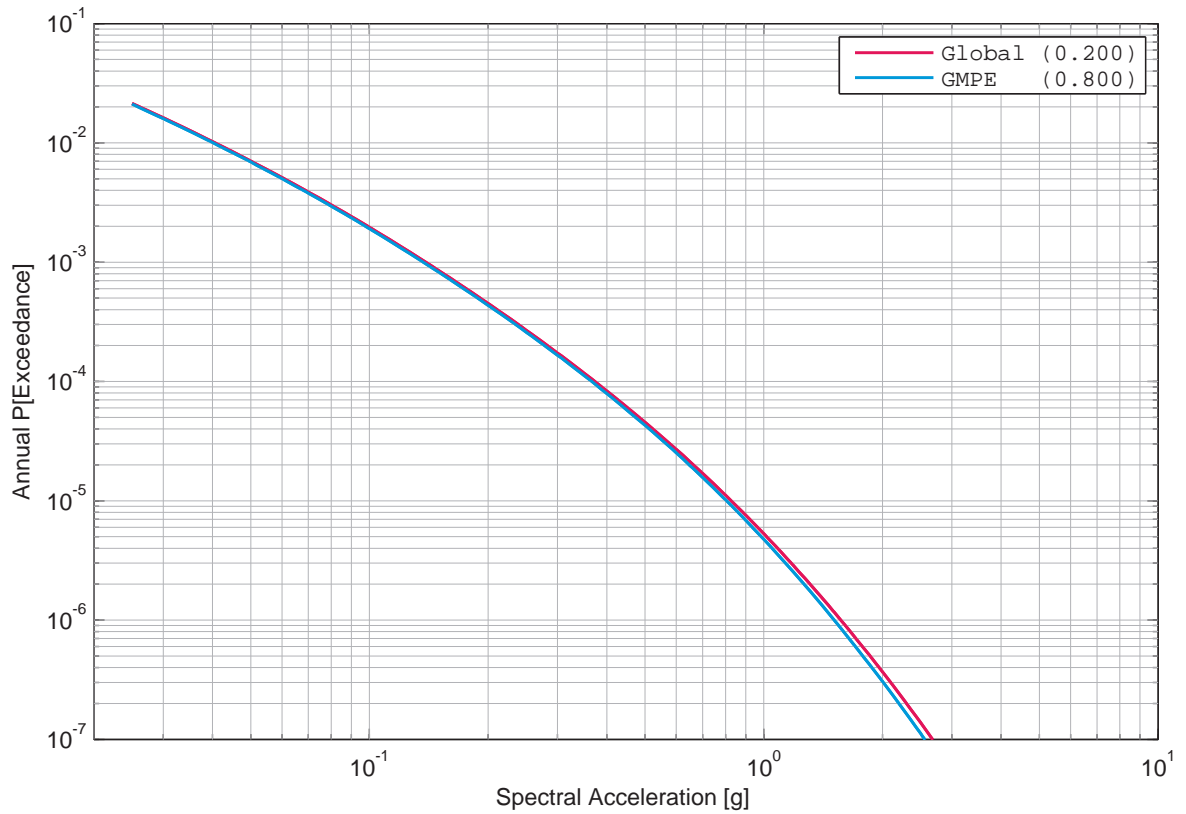


Figure 4.8.54: Leibstadt, horizontal component, rock, Campbell's sensitivity to tau, 5 Hz.

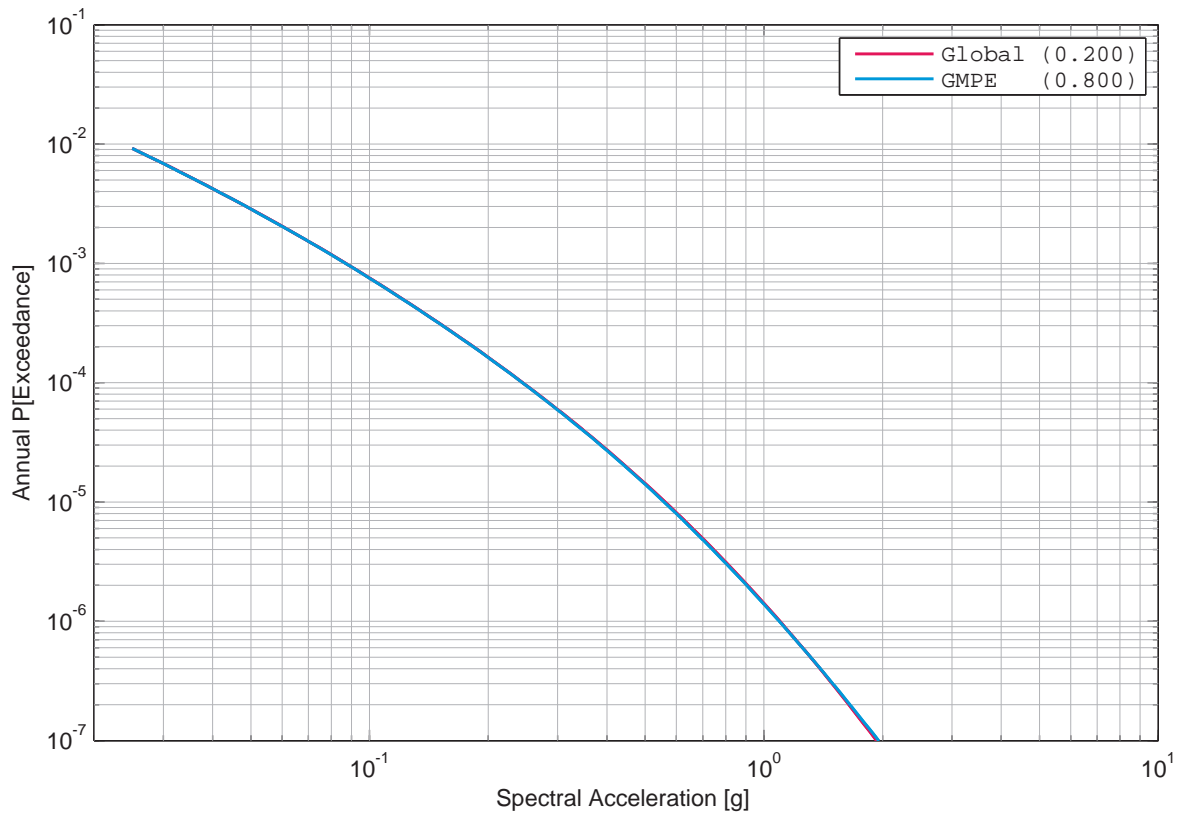


Figure 4.8.55: Leibstadt, horizontal component, rock, Campbell's sensitivity to tau, 33 Hz.

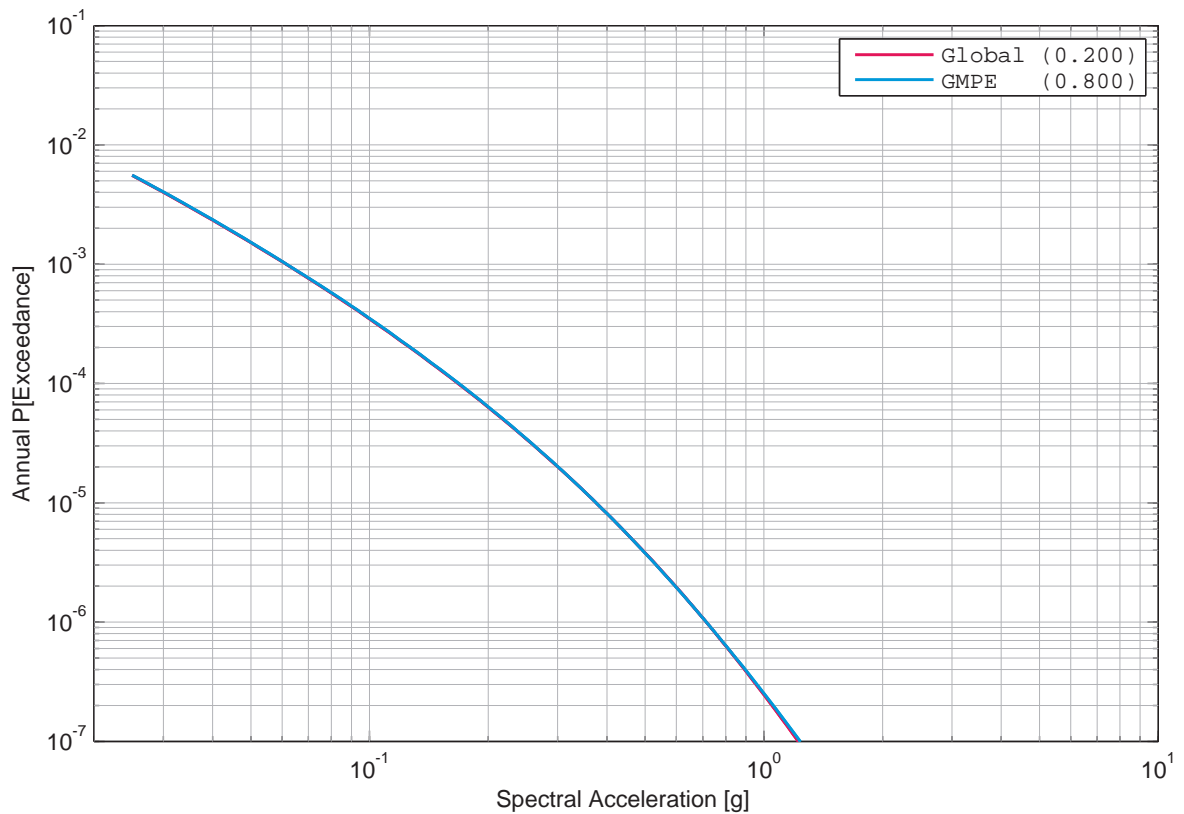


Figure 4.8.56: Leibstadt, horizontal component, rock, Campbell's sensitivity to tau, 100 Hz.

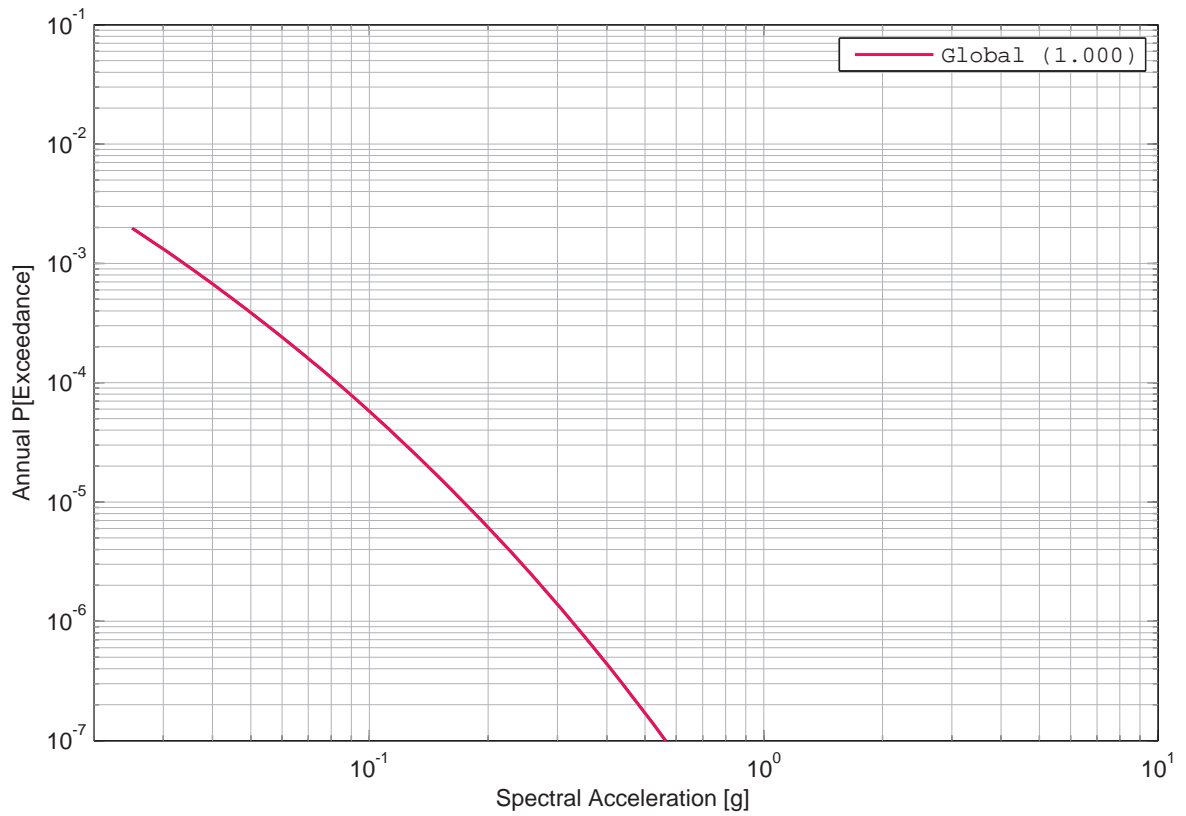


Figure 4.8.57: Leibstadt, horizontal component, rock, Cotton’s sensitivity to tau, 1 Hz.

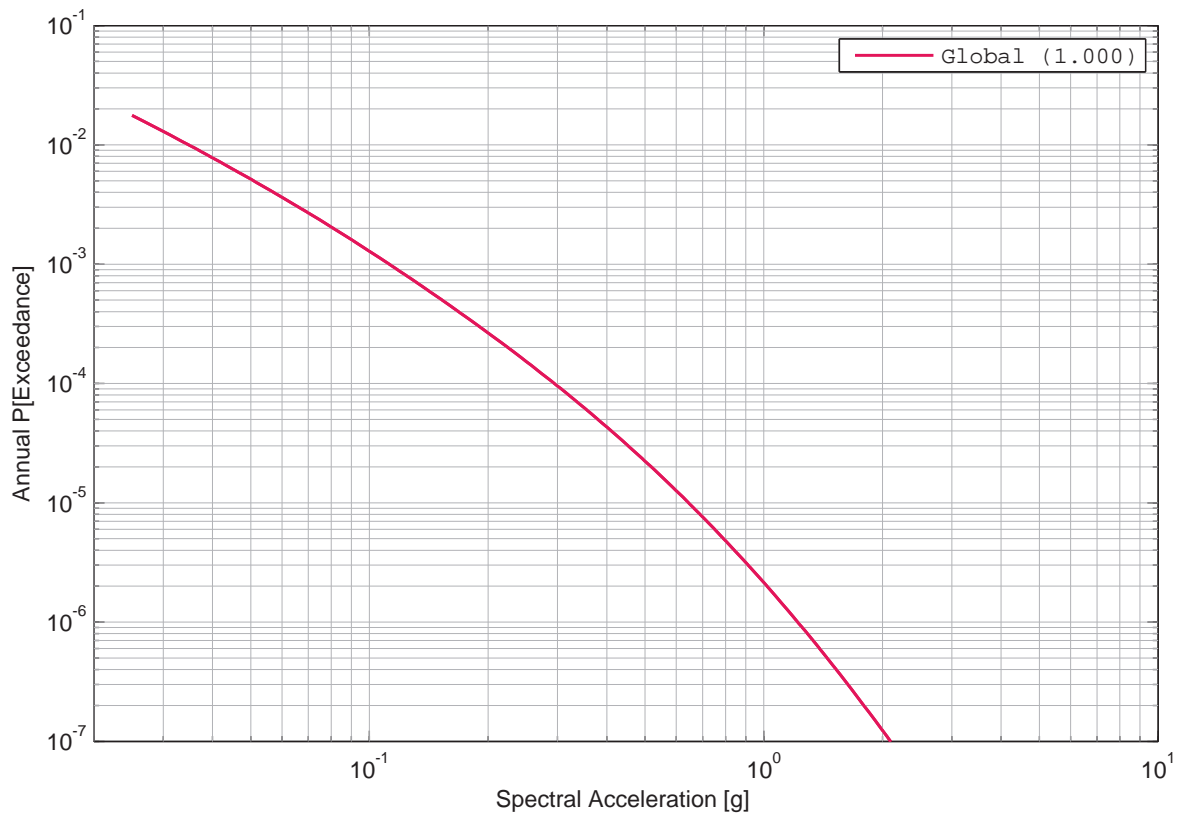


Figure 4.8.58: Leibstadt, horizontal component, rock, Cotton’s sensitivity to tau, 5 Hz.

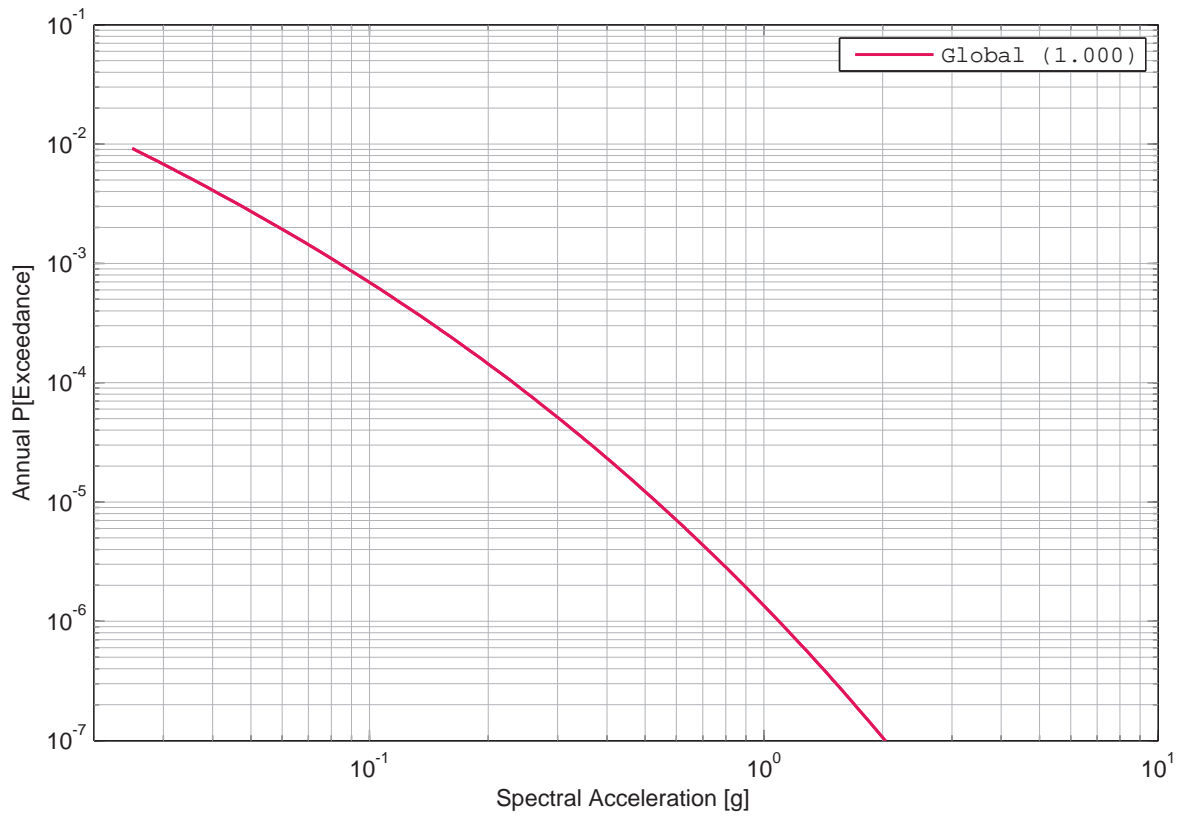


Figure 4.8.59: Leibstadt, horizontal component, rock, Cotton’s sensitivity to tau, 33 Hz.

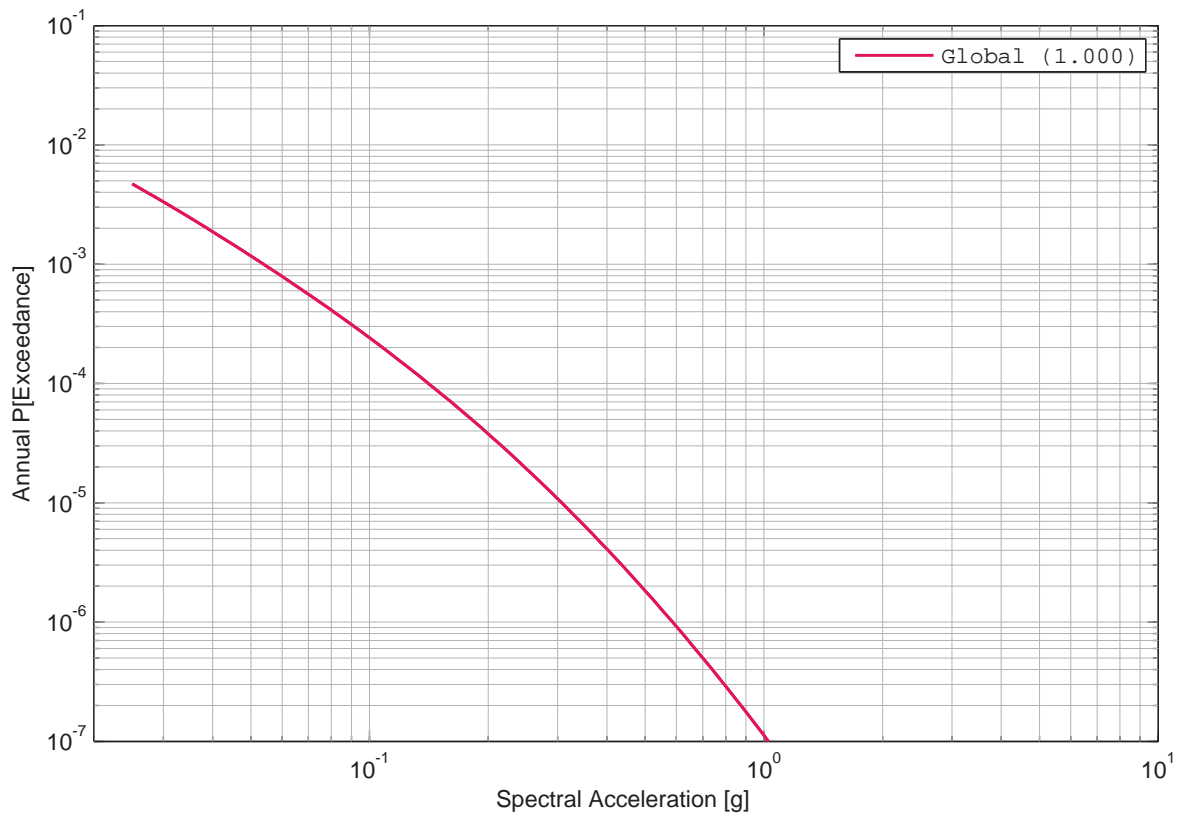


Figure 4.8.60: Leibstadt, horizontal component, rock, Cotton’s sensitivity to tau, 100 Hz.

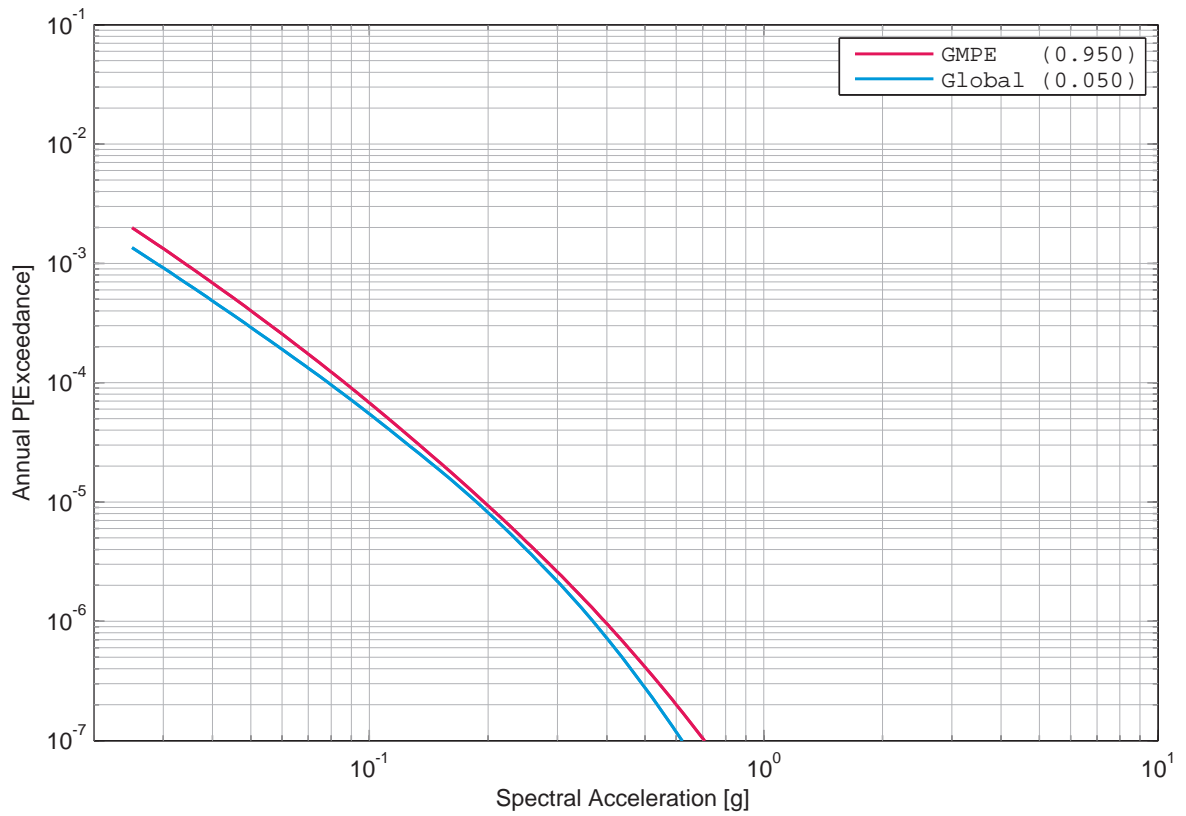


Figure 4.8.61: Leibstadt, horizontal component, rock, Faeh's sensitivity to tau, 1 Hz.

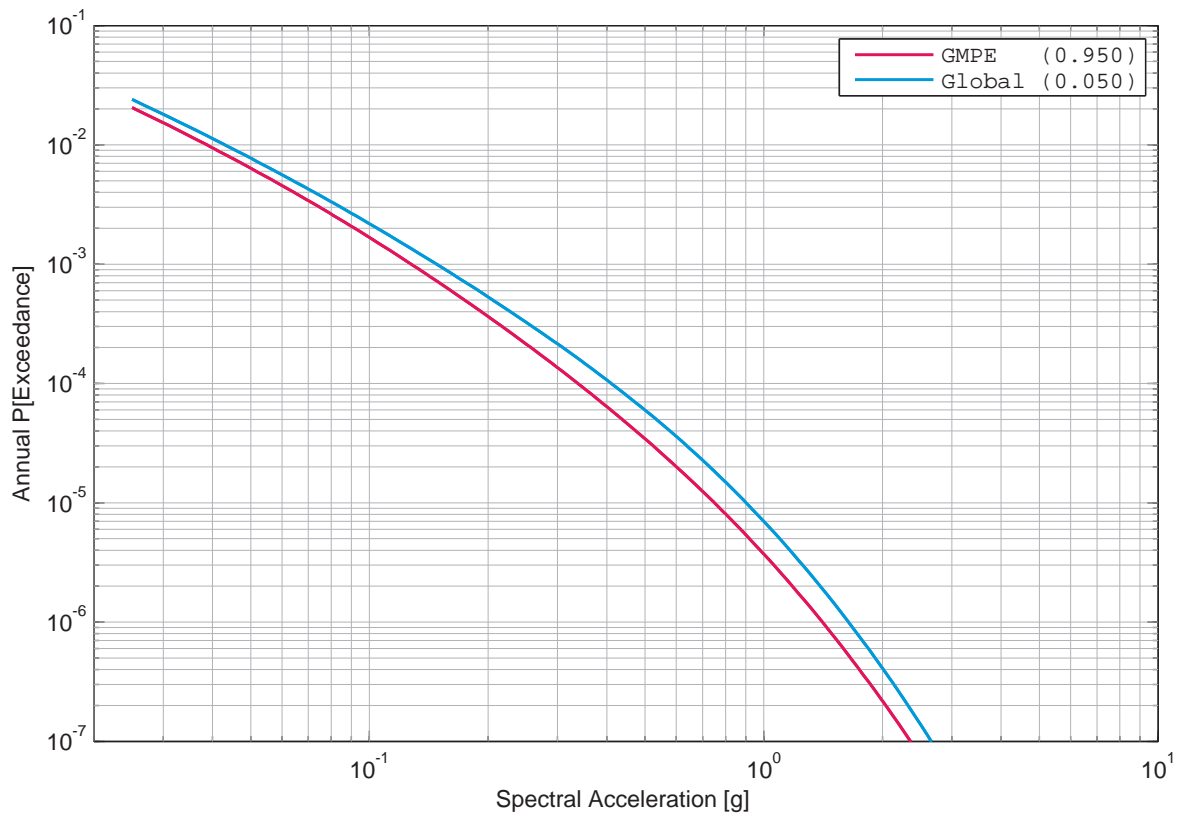


Figure 4.8.62: Leibstadt, horizontal component, rock, Faeh's sensitivity to tau, 5 Hz.

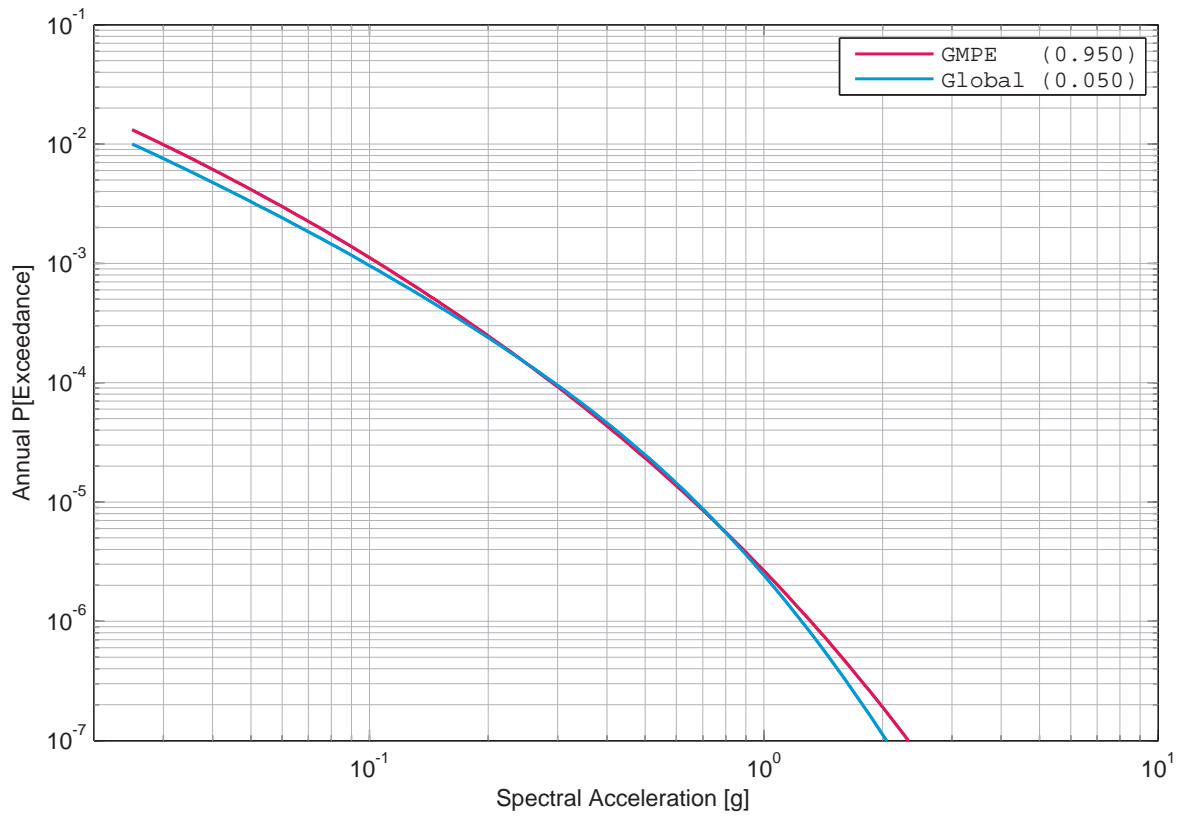


Figure 4.8.63: Leibstadt, horizontal component, rock, Faeh's sensitivity to tau, 33 Hz.

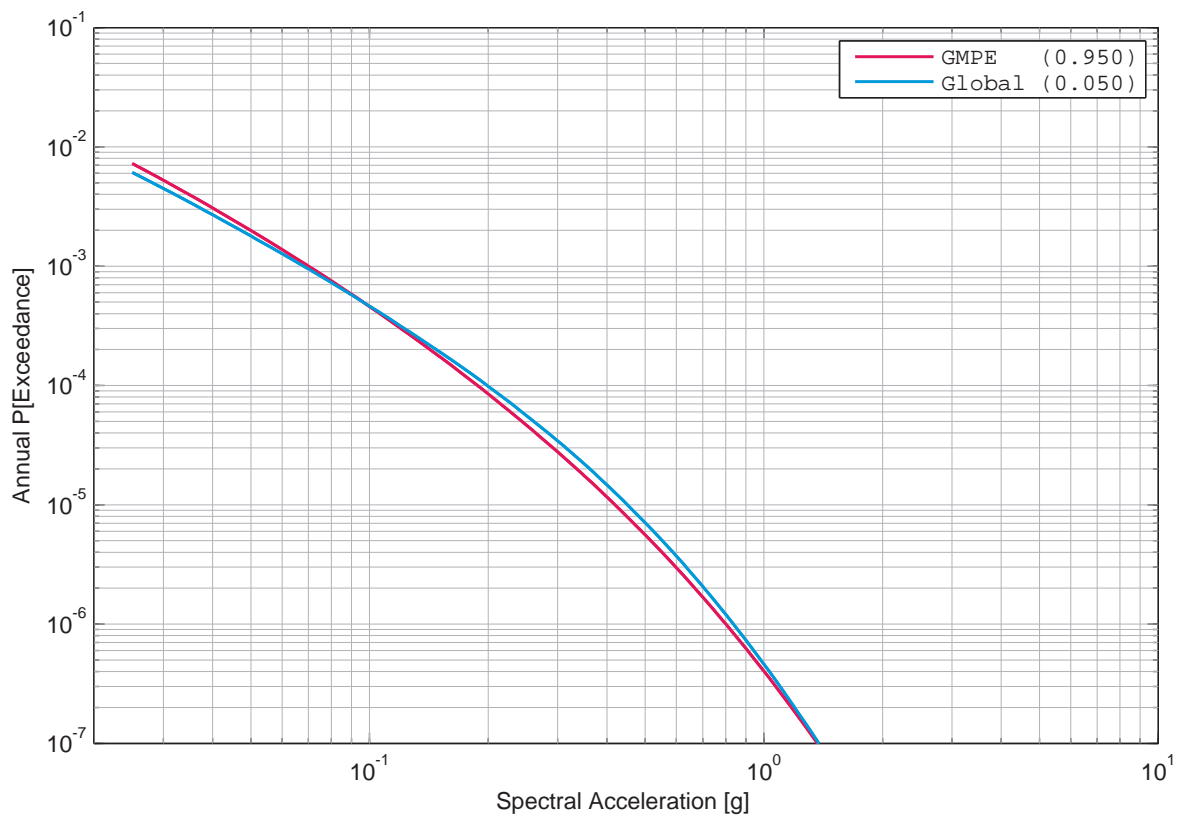


Figure 4.8.64: Leibstadt, horizontal component, rock, Faeh's sensitivity to tau, 100 Hz.

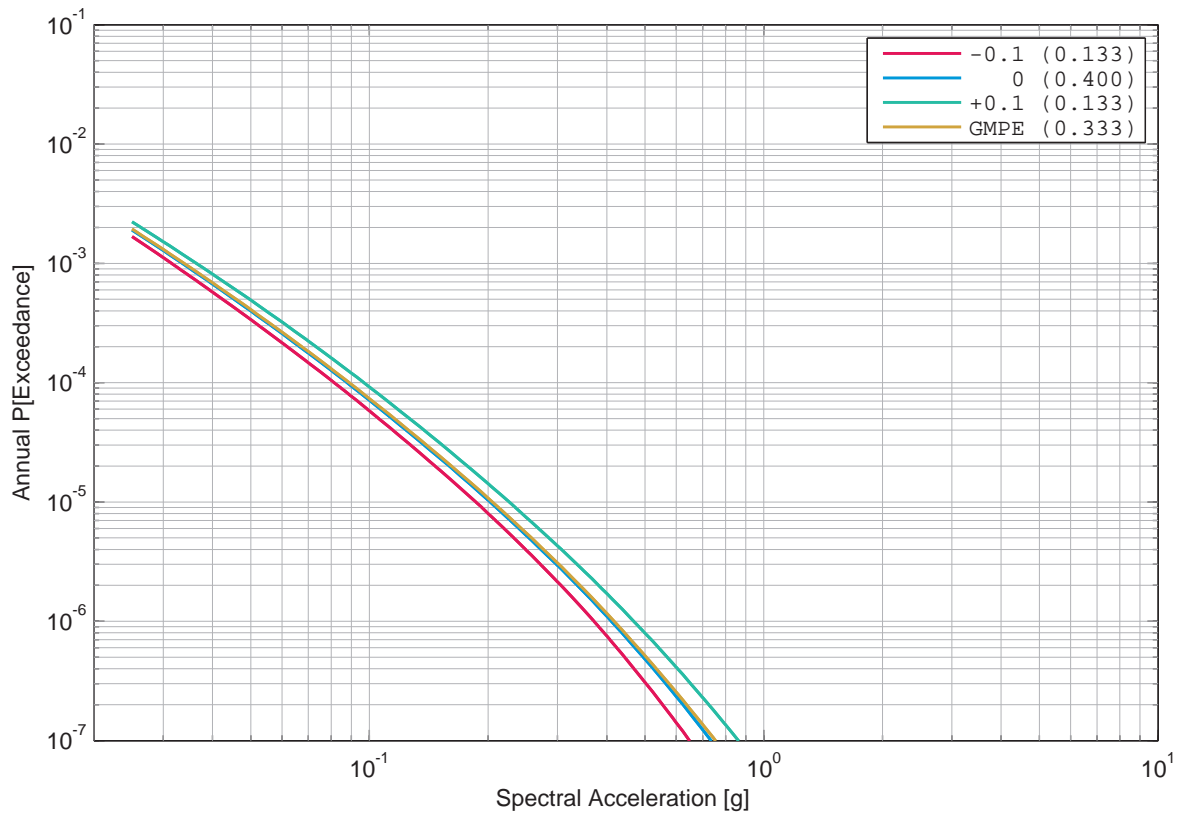


Figure 4.8.65: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 1 Hz.

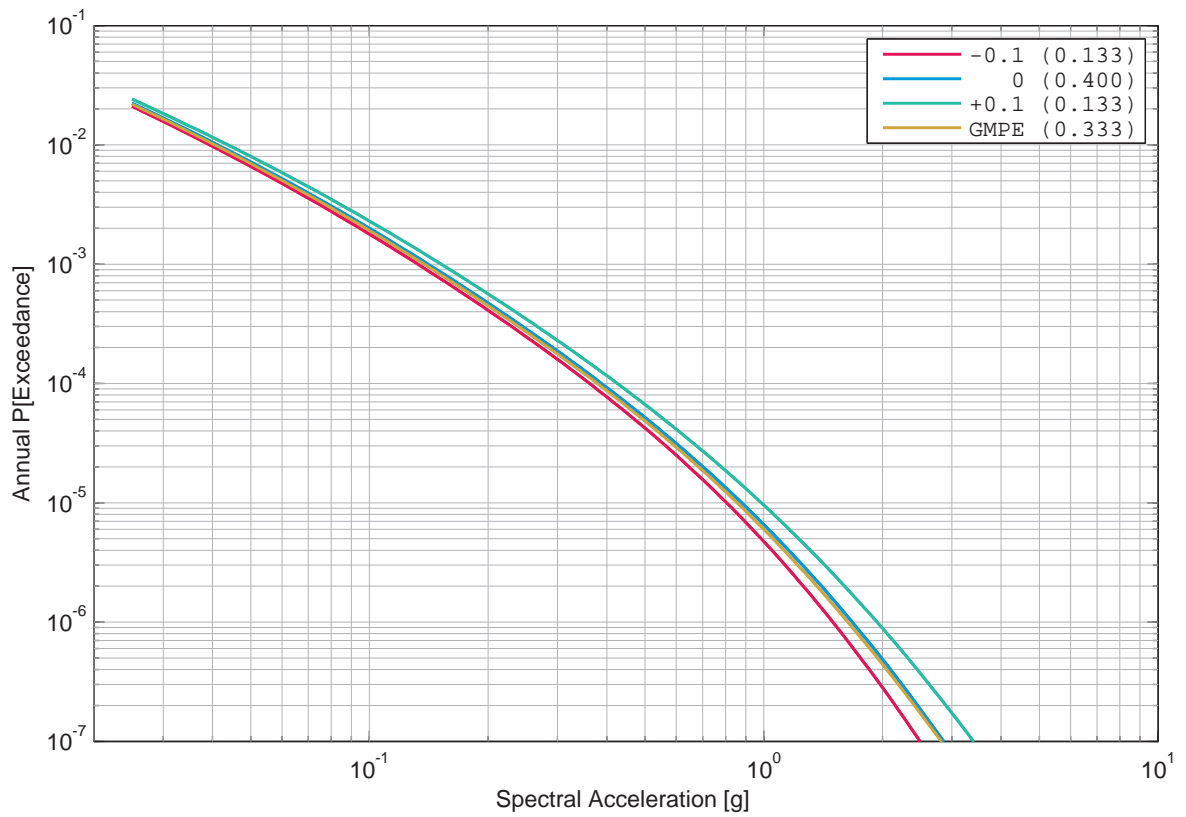


Figure 4.8.66: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 5 Hz.

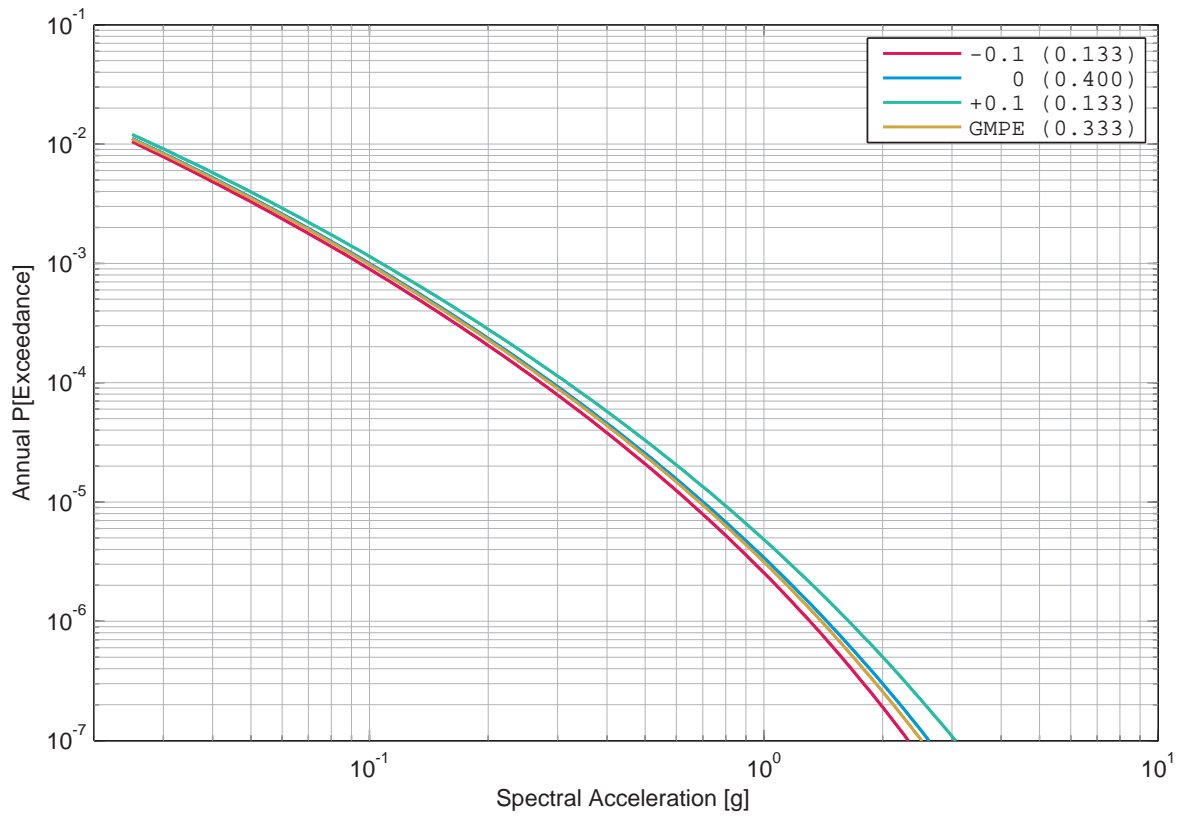


Figure 4.8.67: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 33 Hz.

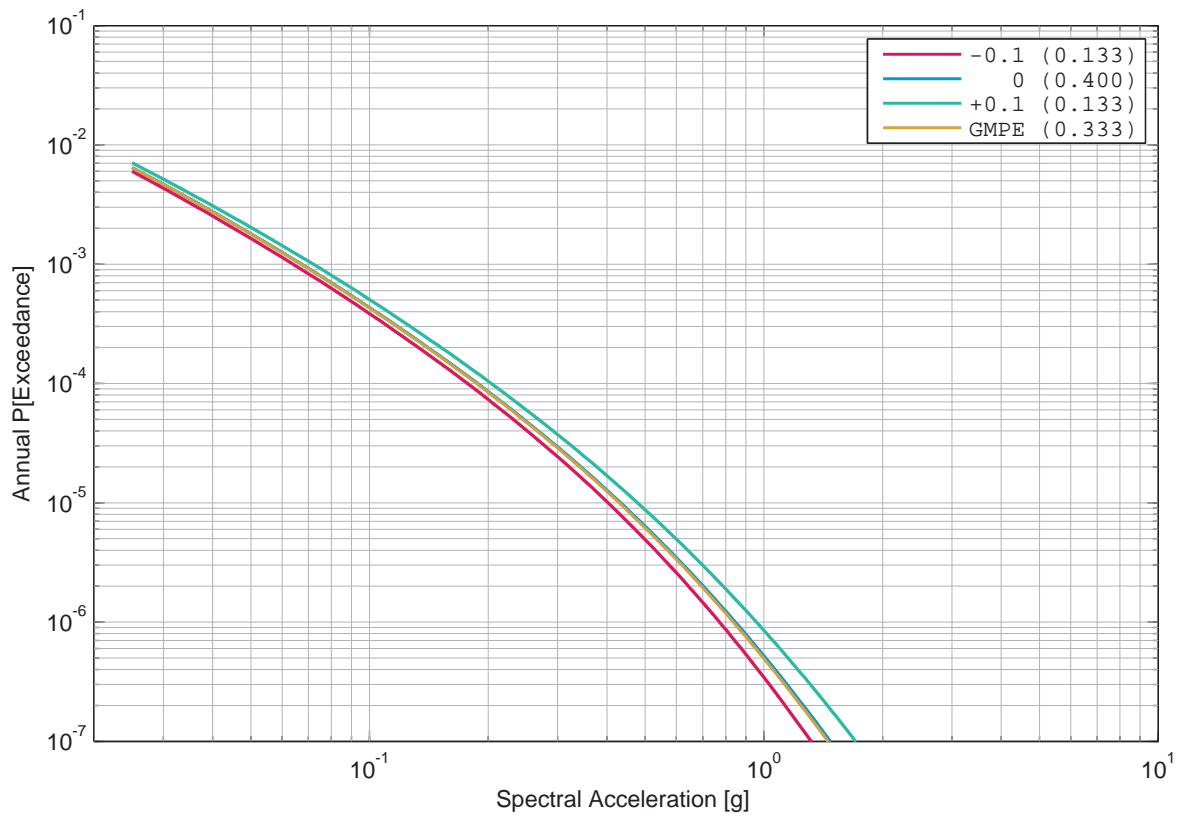


Figure 4.8.68: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 100 Hz.

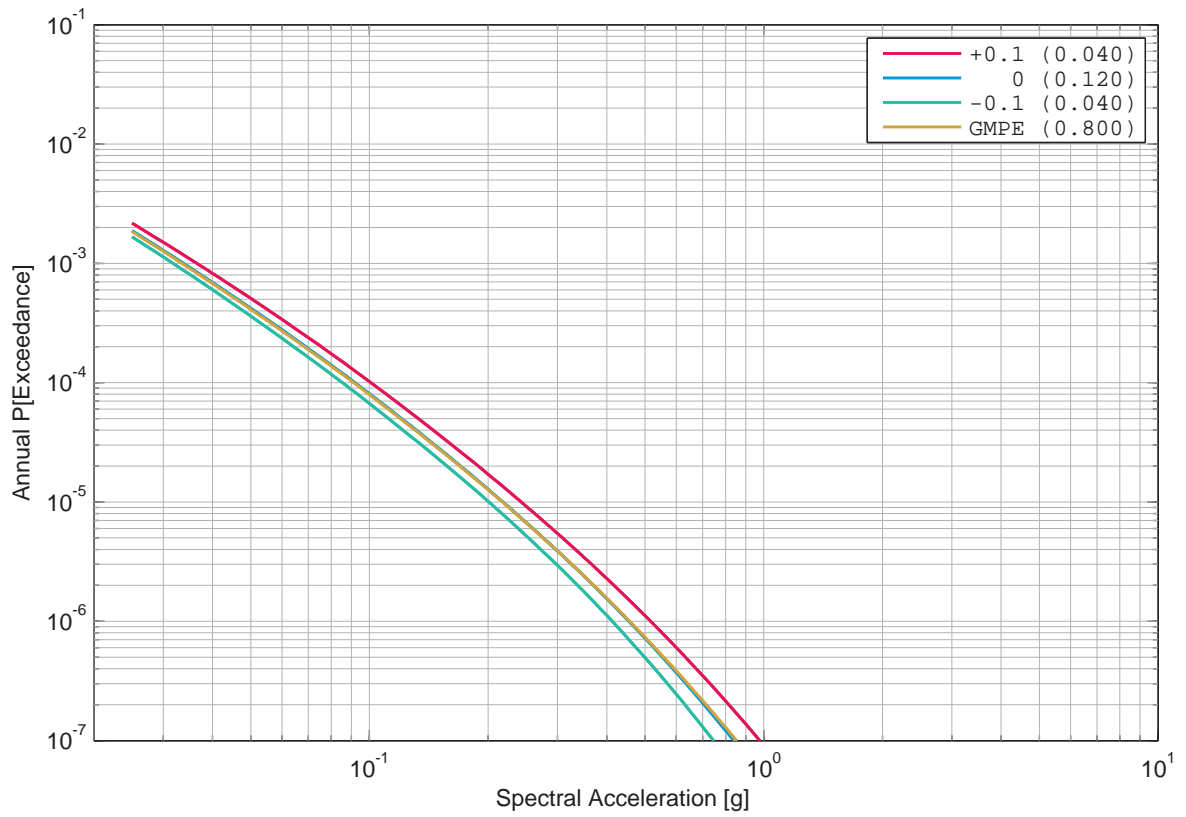


Figure 4.8.69: Leibstadt, horizontal component, rock, Campbell’s sensitivity to the tau uncertainty, 1 Hz.

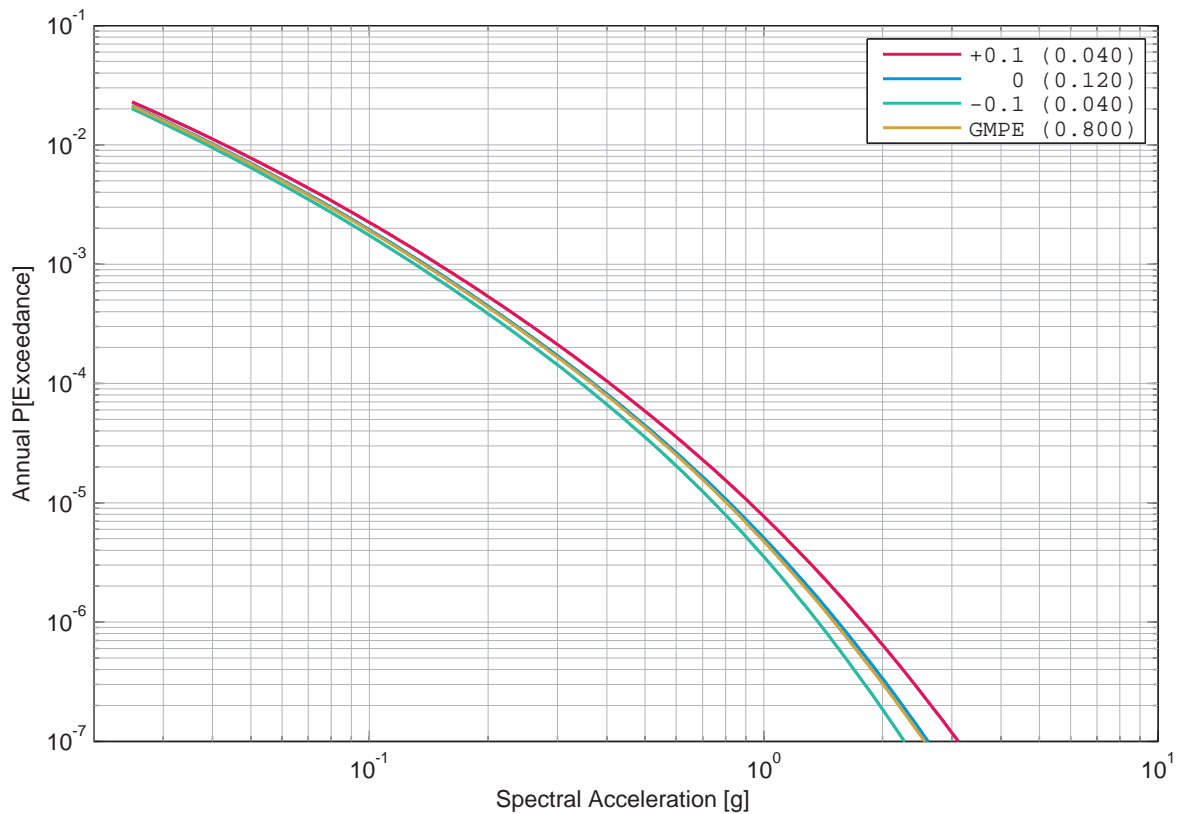


Figure 4.8.70: Leibstadt, horizontal component, rock, Campbell’s sensitivity to the tau uncertainty, 5 Hz.

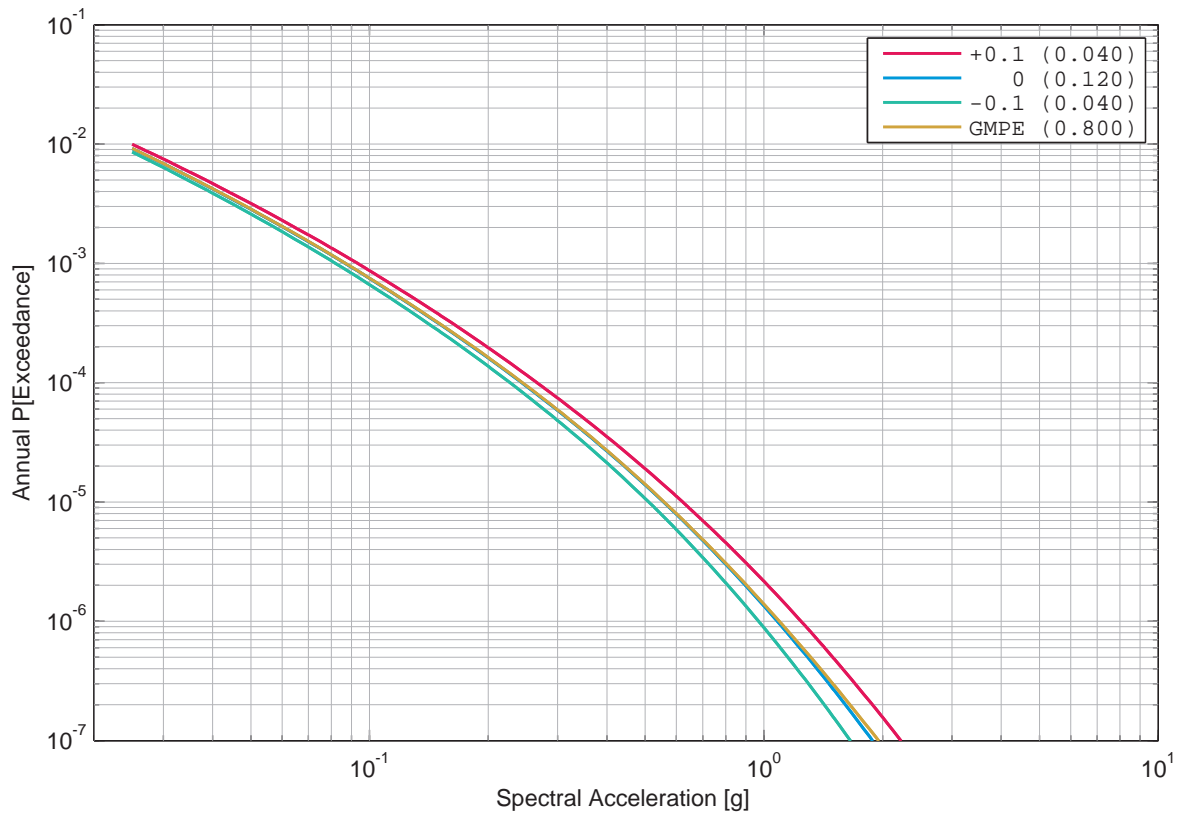


Figure 4.8.71: Leibstadt, horizontal component, rock, Campbell's sensitivity to the tau uncertainty, 33 Hz.

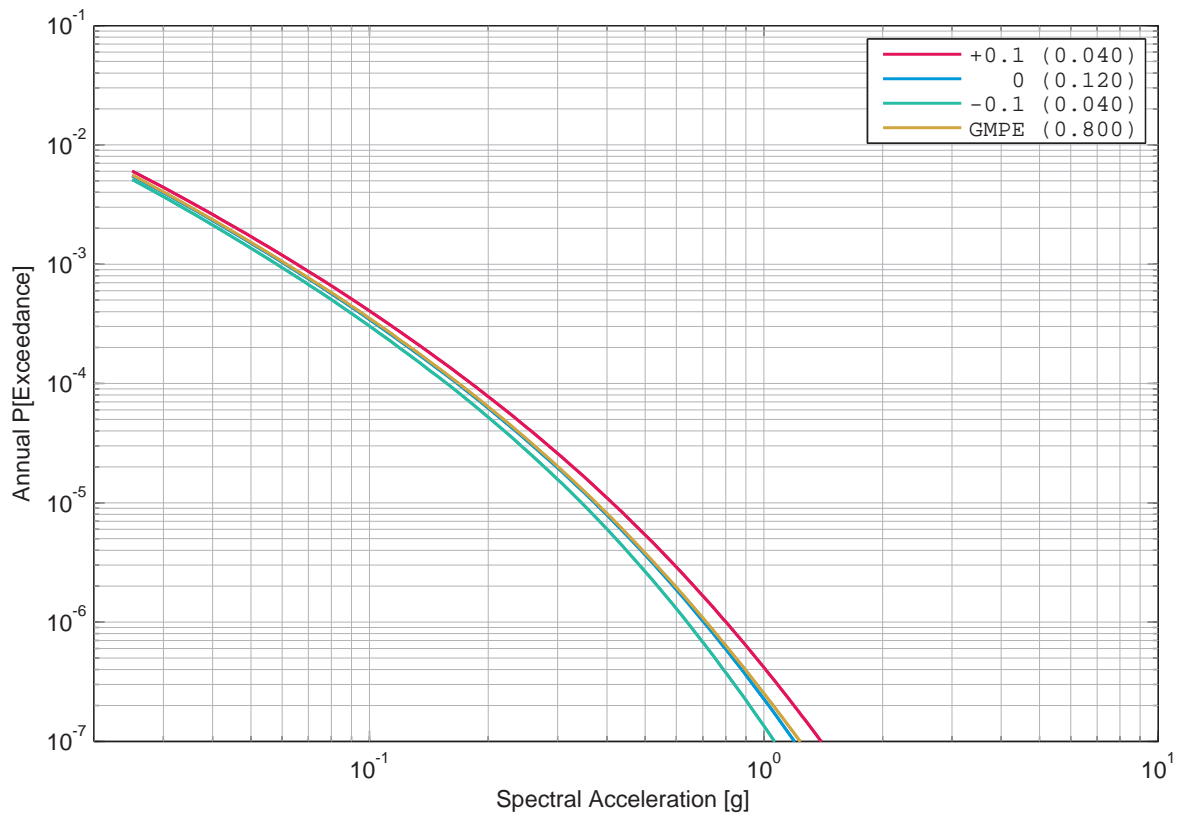


Figure 4.8.72: Leibstadt, horizontal component, rock, Campbell's sensitivity to the tau uncertainty, 100 Hz.

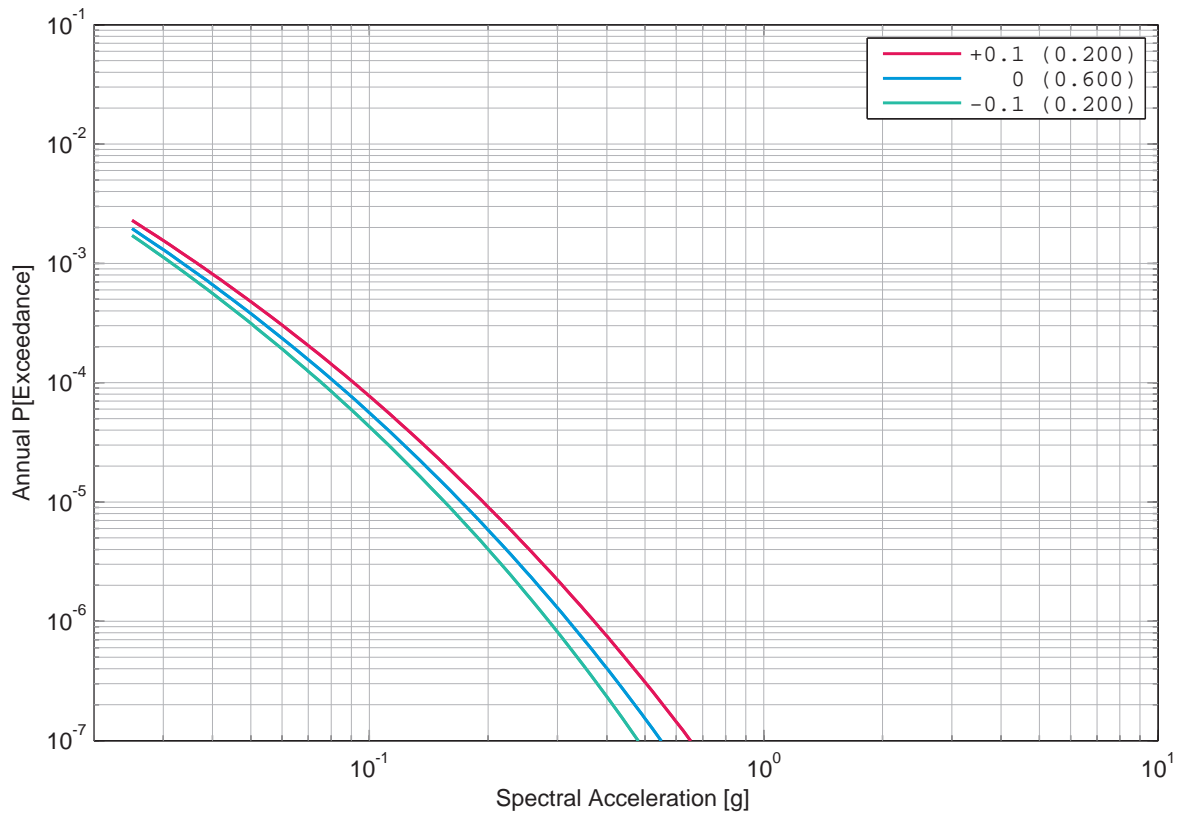


Figure 4.8.73: Leibstadt, horizontal component, rock, Cotton’s sensitivity to the tau uncertainty, 1 Hz.

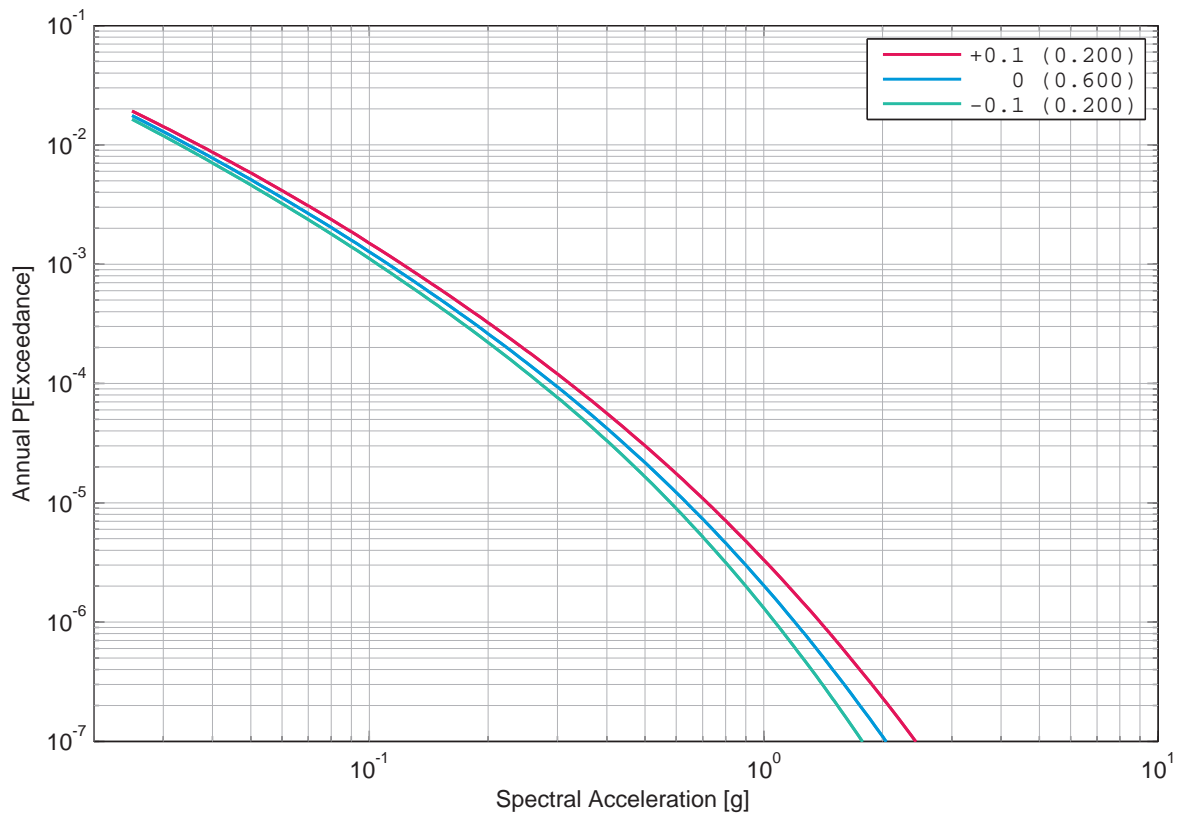


Figure 4.8.74: Leibstadt, horizontal component, rock, Cotton’s sensitivity to the tau uncertainty, 5 Hz.

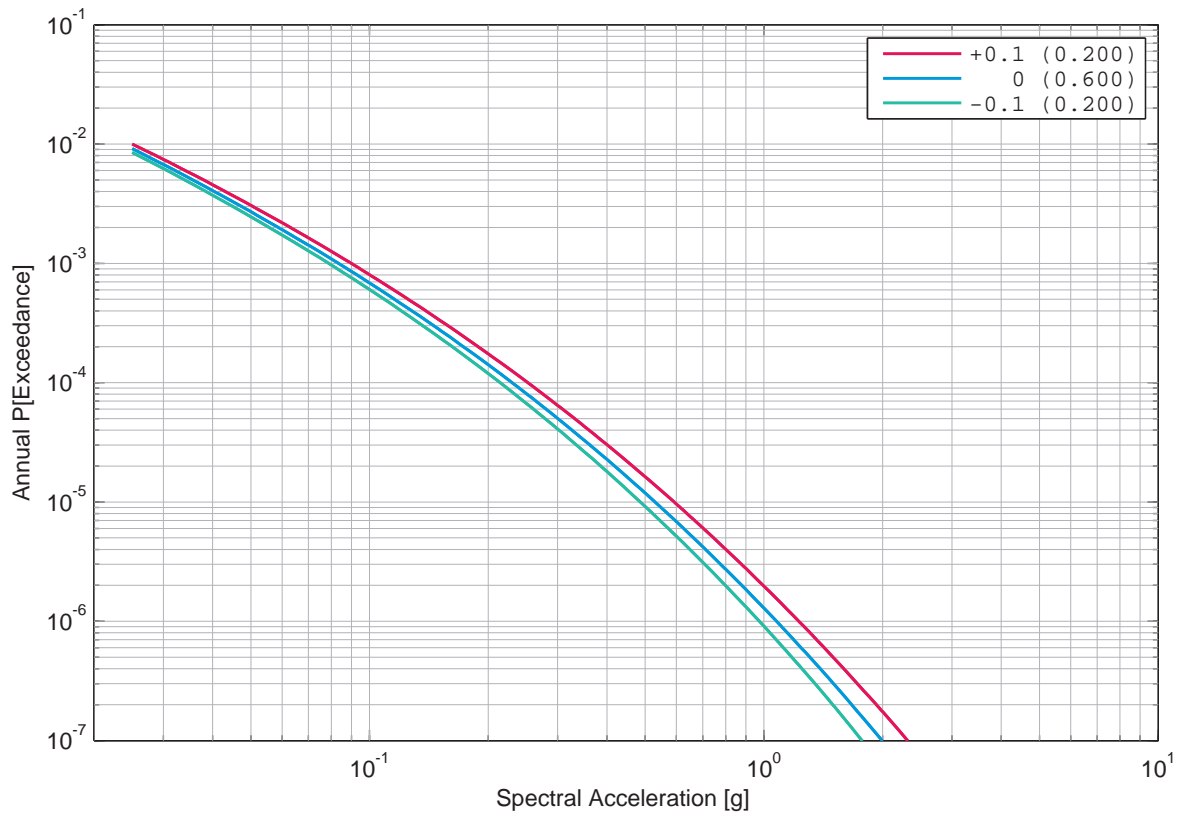


Figure 4.8.75: Leibstadt, horizontal component, rock, Cotton’s sensitivity to the tau uncertainty, 33 Hz.

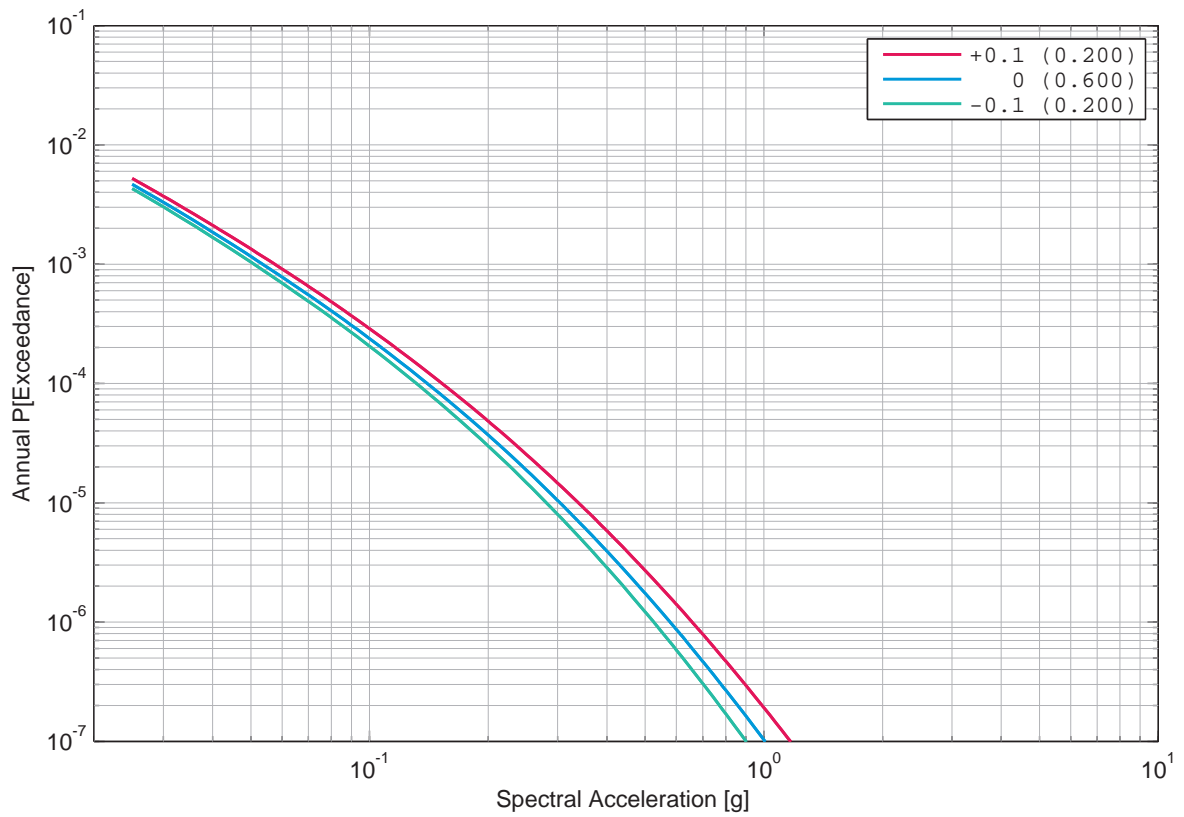


Figure 4.8.76: Leibstadt, horizontal component, rock, Cotton’s sensitivity to the tau uncertainty, 100 Hz.

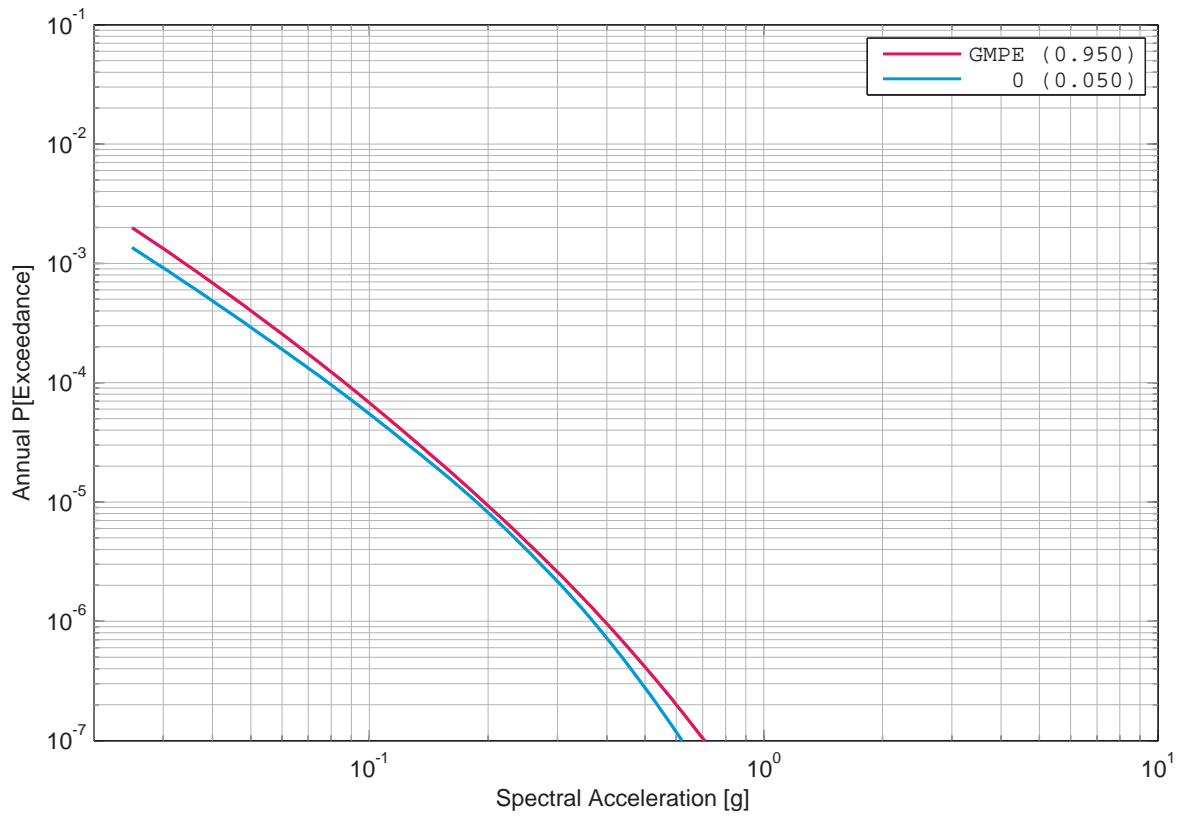


Figure 4.8.77: Leibstadt, horizontal component, rock, Faeh’s sensitivity to the tau uncertainty, 1 Hz.

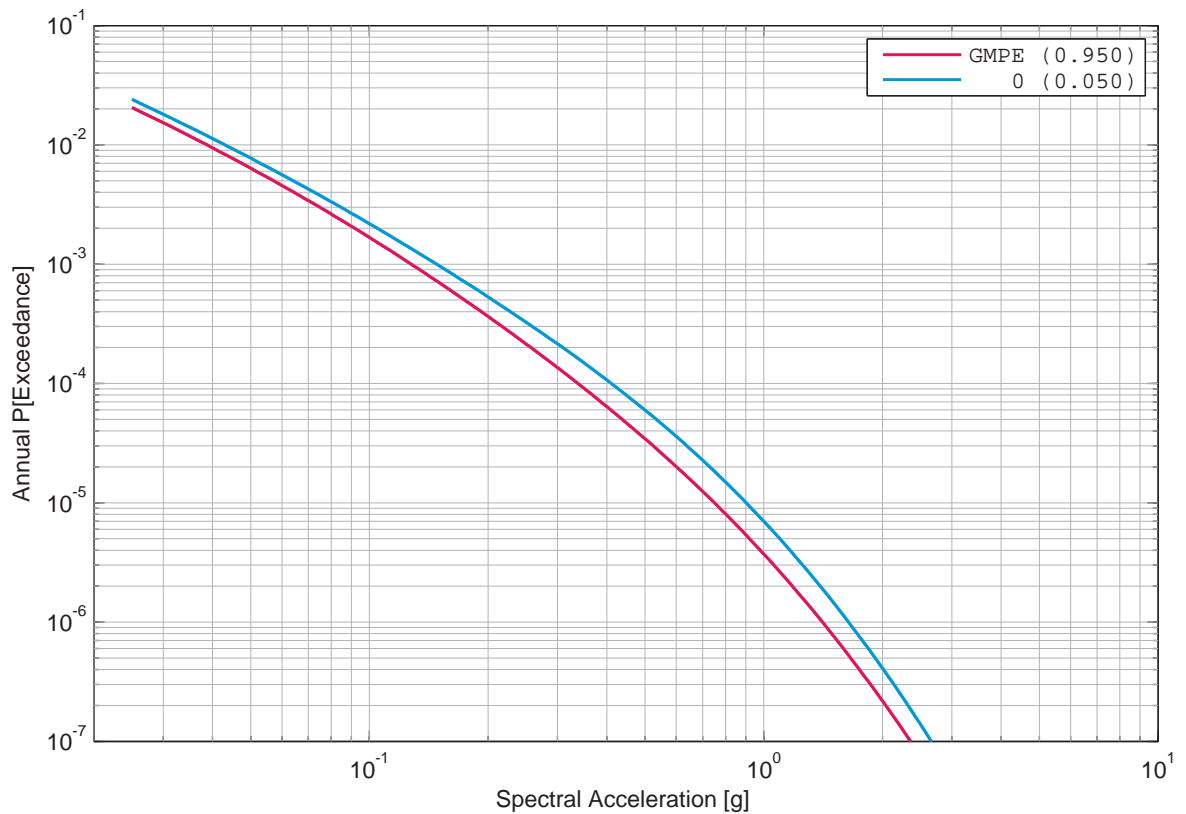


Figure 4.8.78: Leibstadt, horizontal component, rock, Faeh’s sensitivity to the tau uncertainty, 5 Hz.

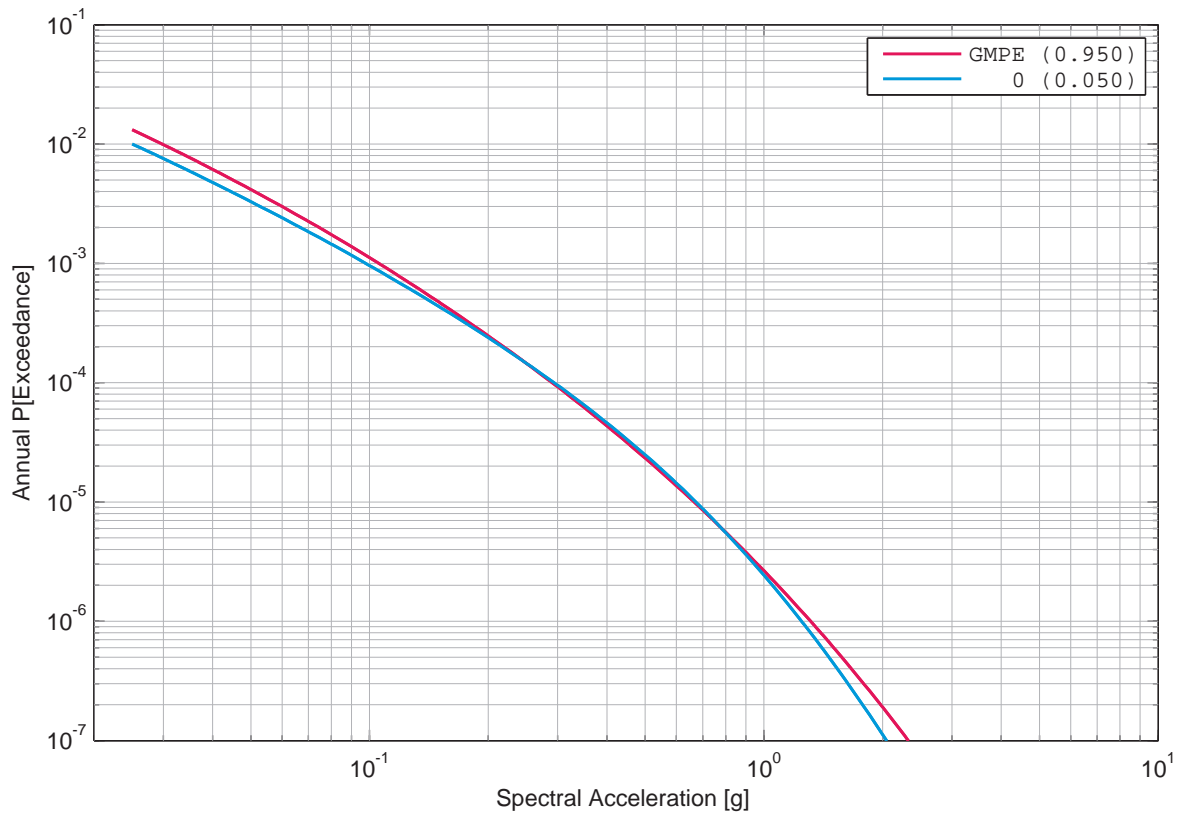


Figure 4.8.79: Leibstadt, horizontal component, rock, Faeh's sensitivity to the tau uncertainty, 33 Hz.

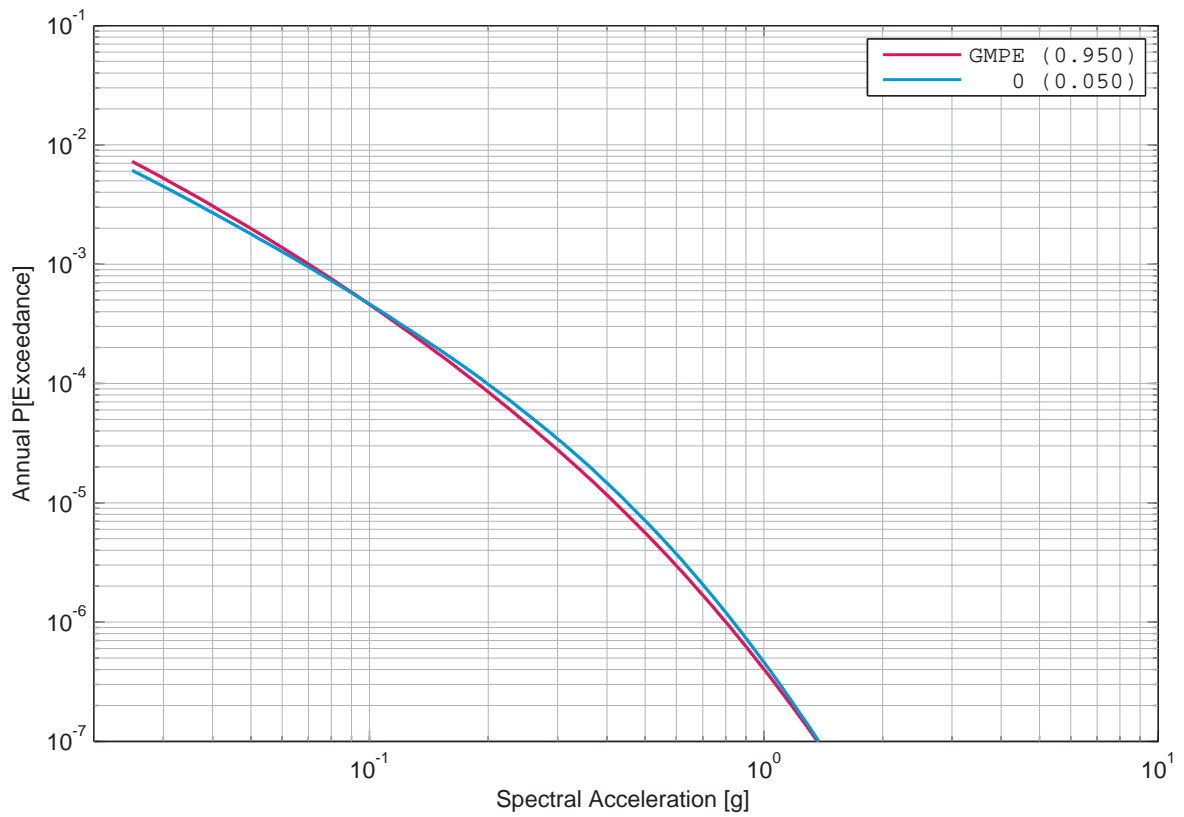


Figure 4.8.80: Leibstadt, horizontal component, rock, Faeh's sensitivity to the tau uncertainty, 100 Hz.

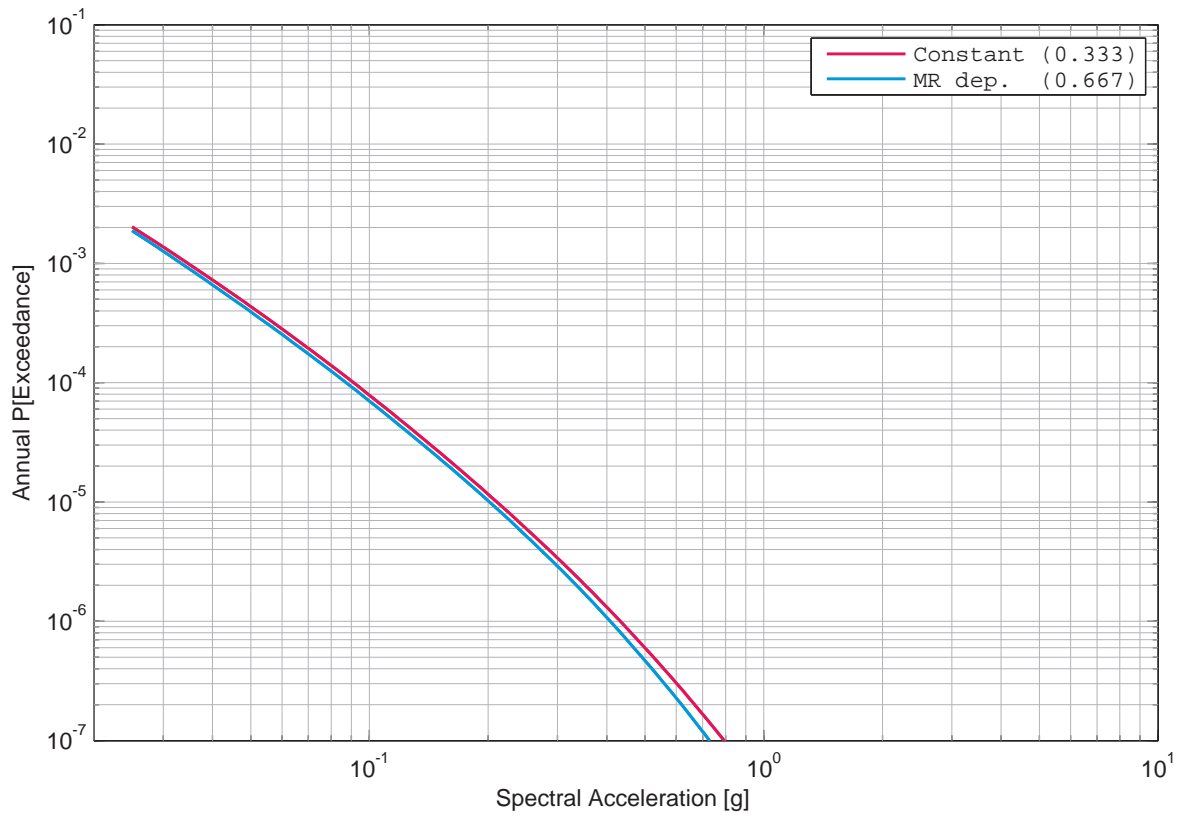


Figure 4.8.81: Leibstadt, horizontal component, rock, Bungum’s sensitivity to phi, 1 Hz.

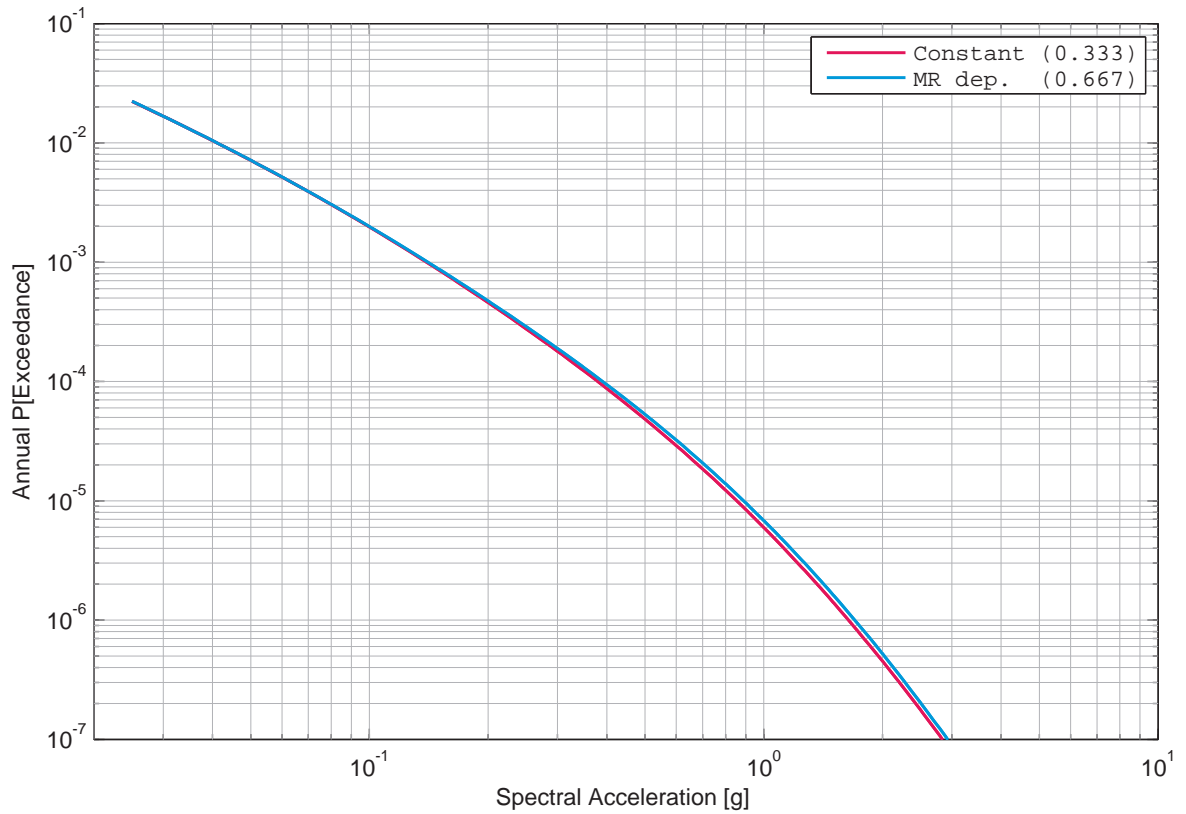


Figure 4.8.82: Leibstadt, horizontal component, rock, Bungum’s sensitivity to phi, 5 Hz.

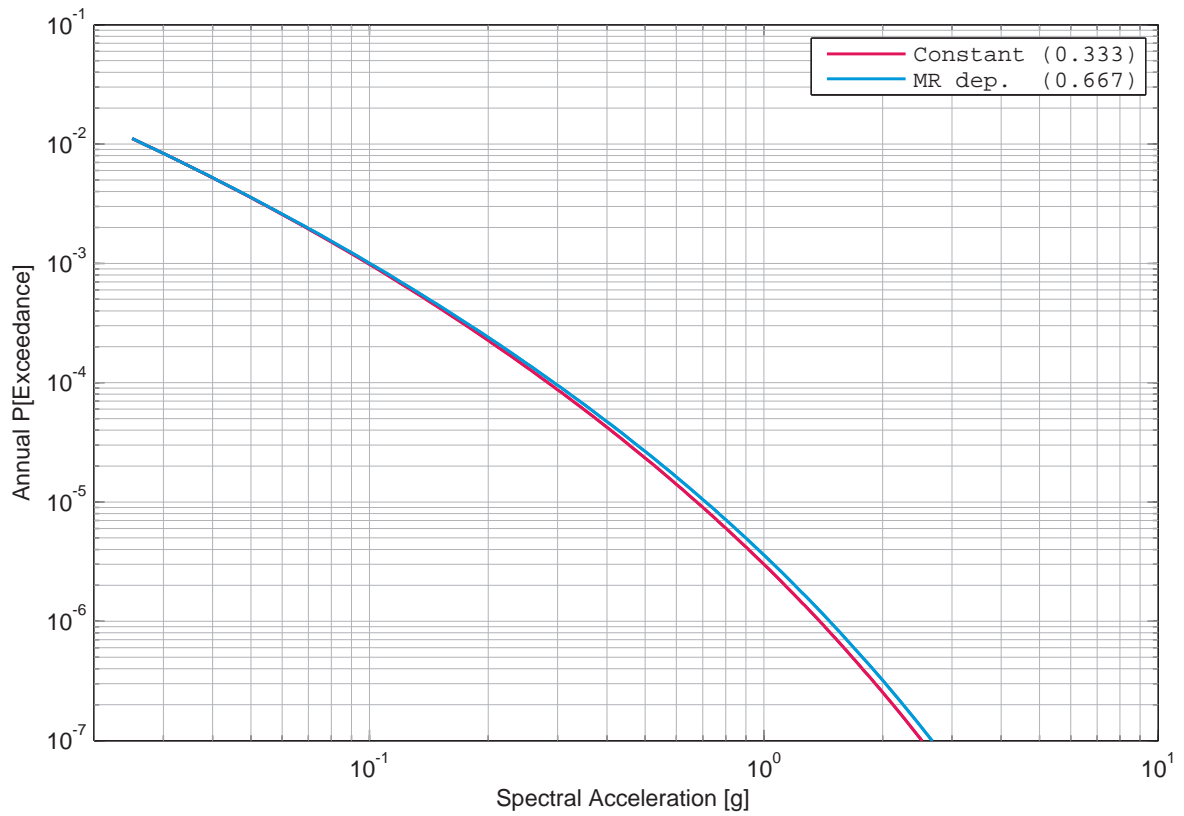


Figure 4.8.83: Leibstadt, horizontal component, rock, Bungum's sensitivity to phi, 33 Hz.

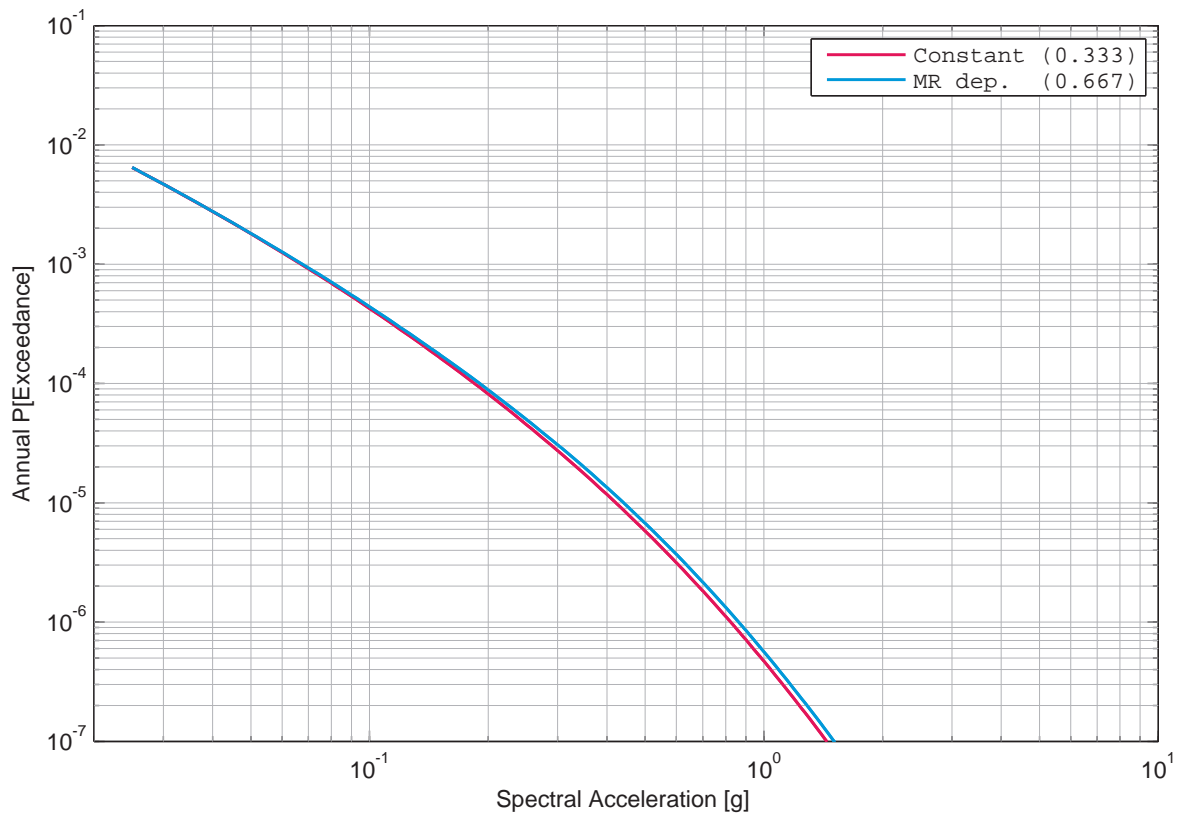


Figure 4.8.84: Leibstadt, horizontal component, rock, Bungum's sensitivity to phi, 100 Hz.

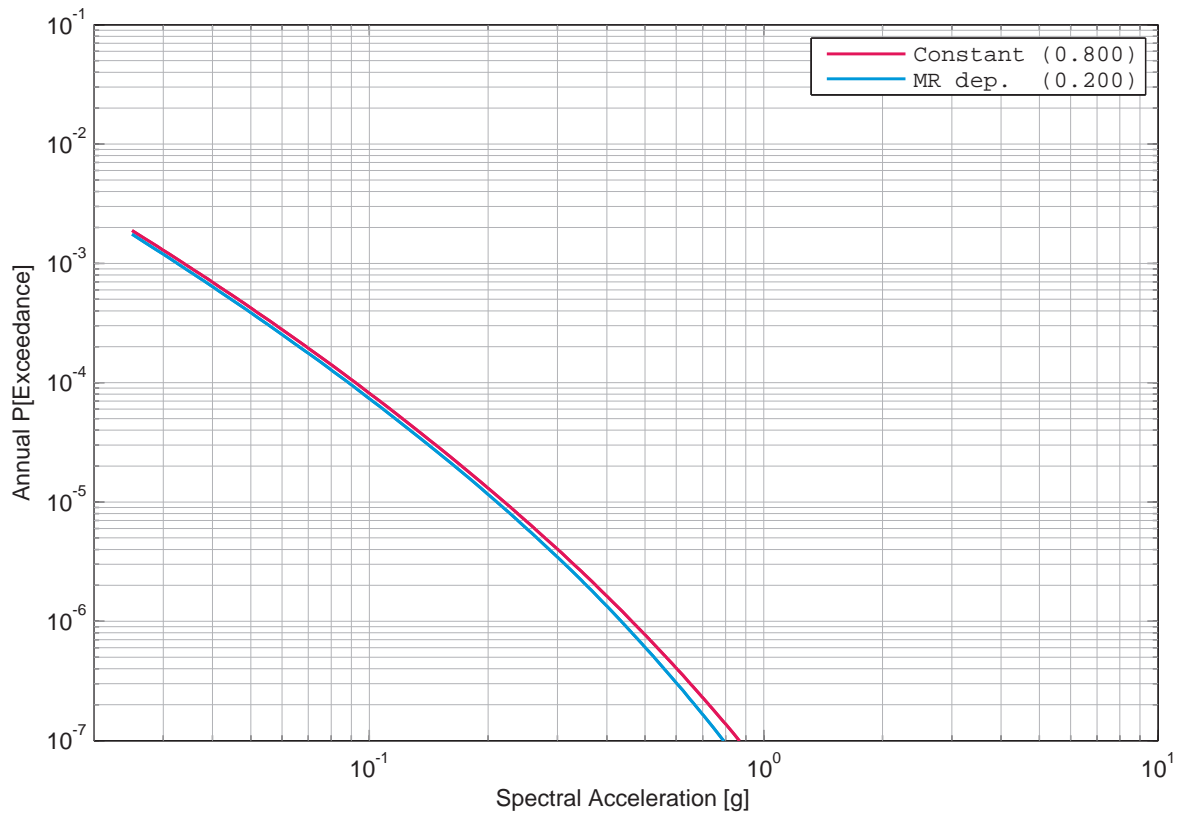


Figure 4.8.85: Leibstadt, horizontal component, rock, Campbell's sensitivity to phi, 1 Hz.

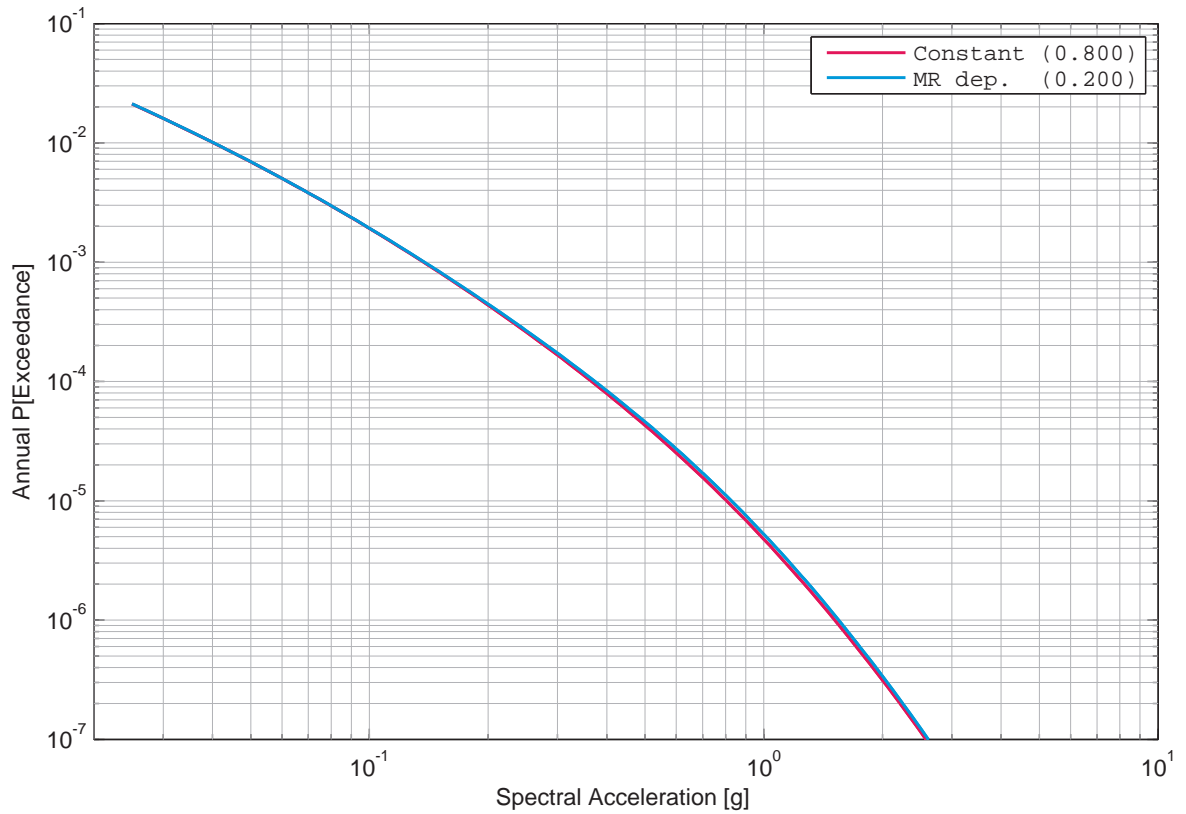


Figure 4.8.86: Leibstadt, horizontal component, rock, Campbell's sensitivity to phi, 5 Hz.

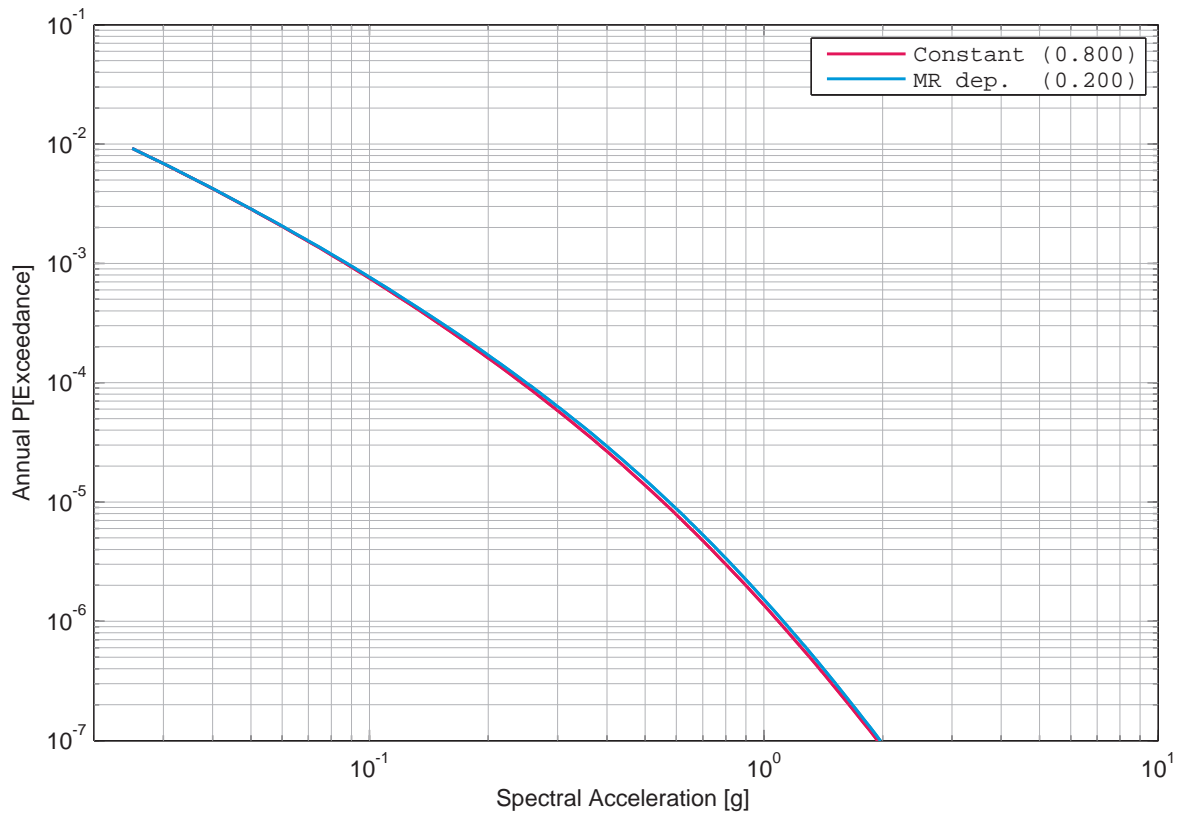


Figure 4.8.87: Leibstadt, horizontal component, rock, Campbell's sensitivity to phi, 33 Hz.

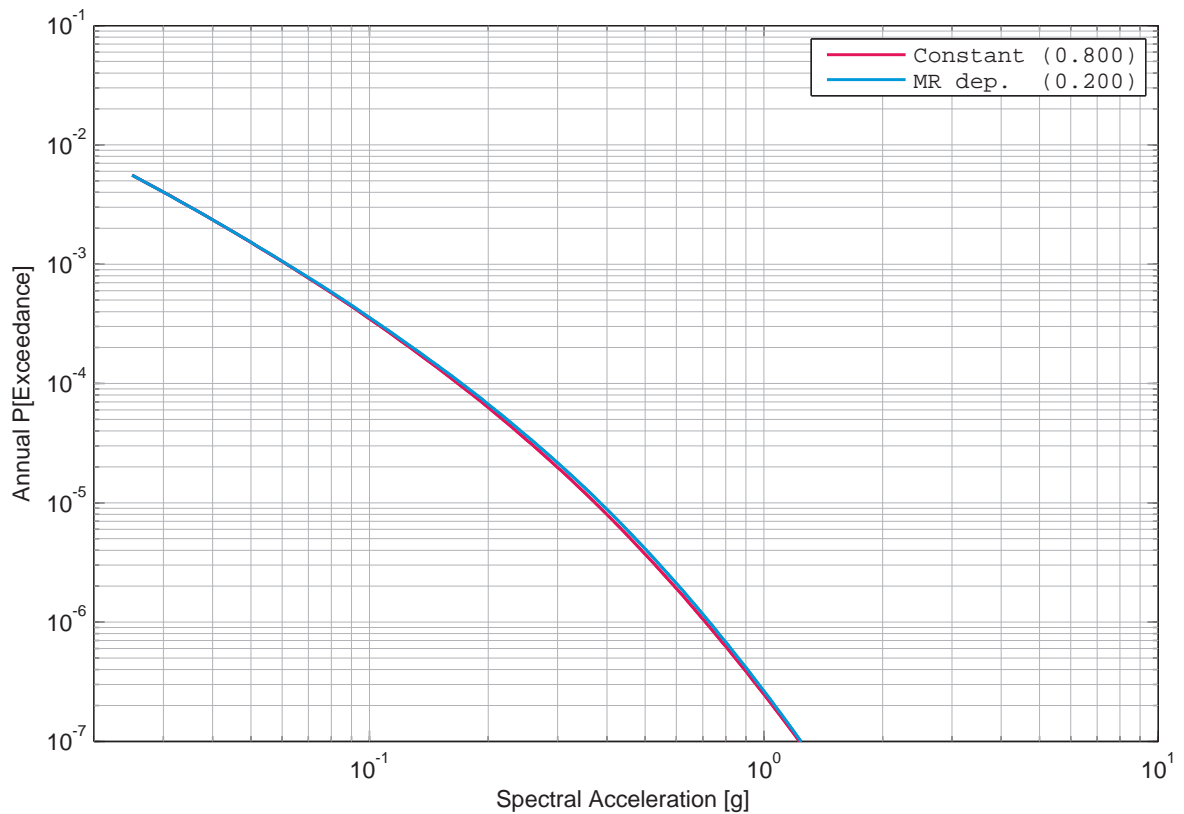


Figure 4.8.88: Leibstadt, horizontal component, rock, Campbell's sensitivity to phi, 100 Hz.

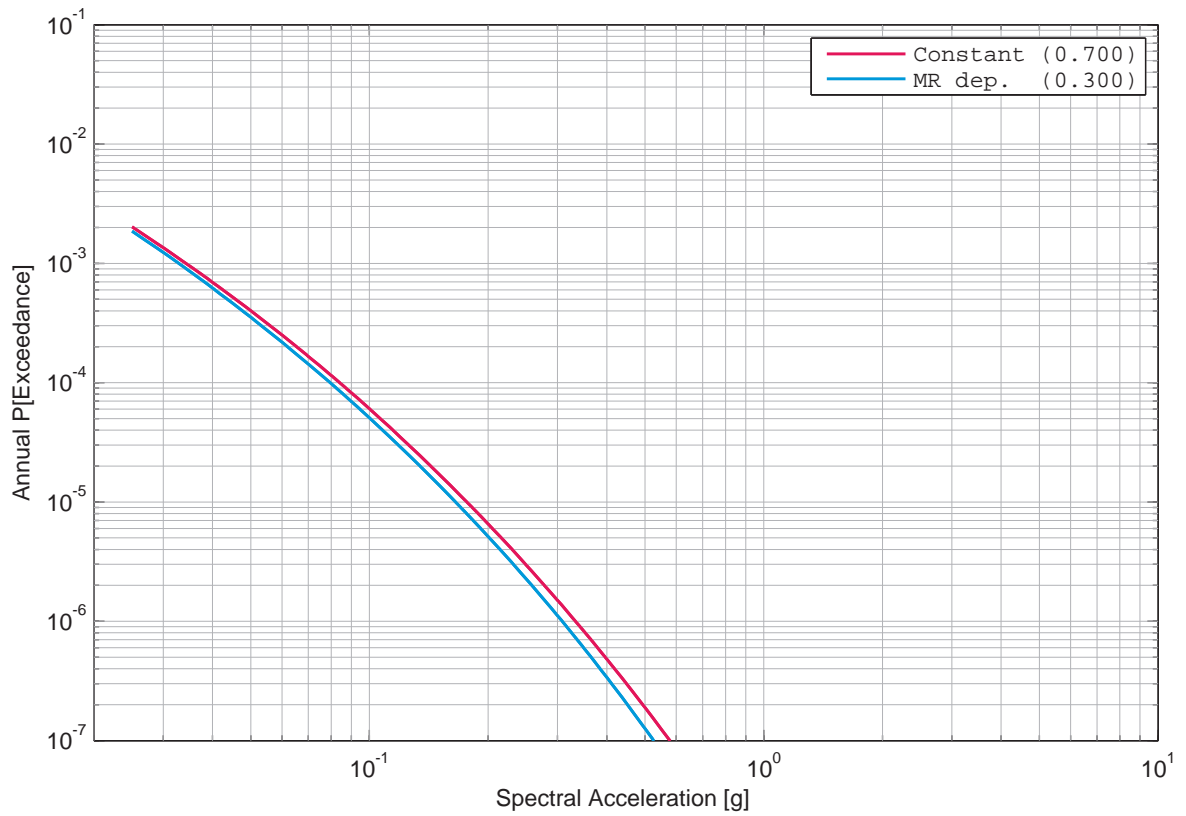


Figure 4.8.89: Leibstadt, horizontal component, rock, Cotton’s sensitivity to phi, 1 Hz.

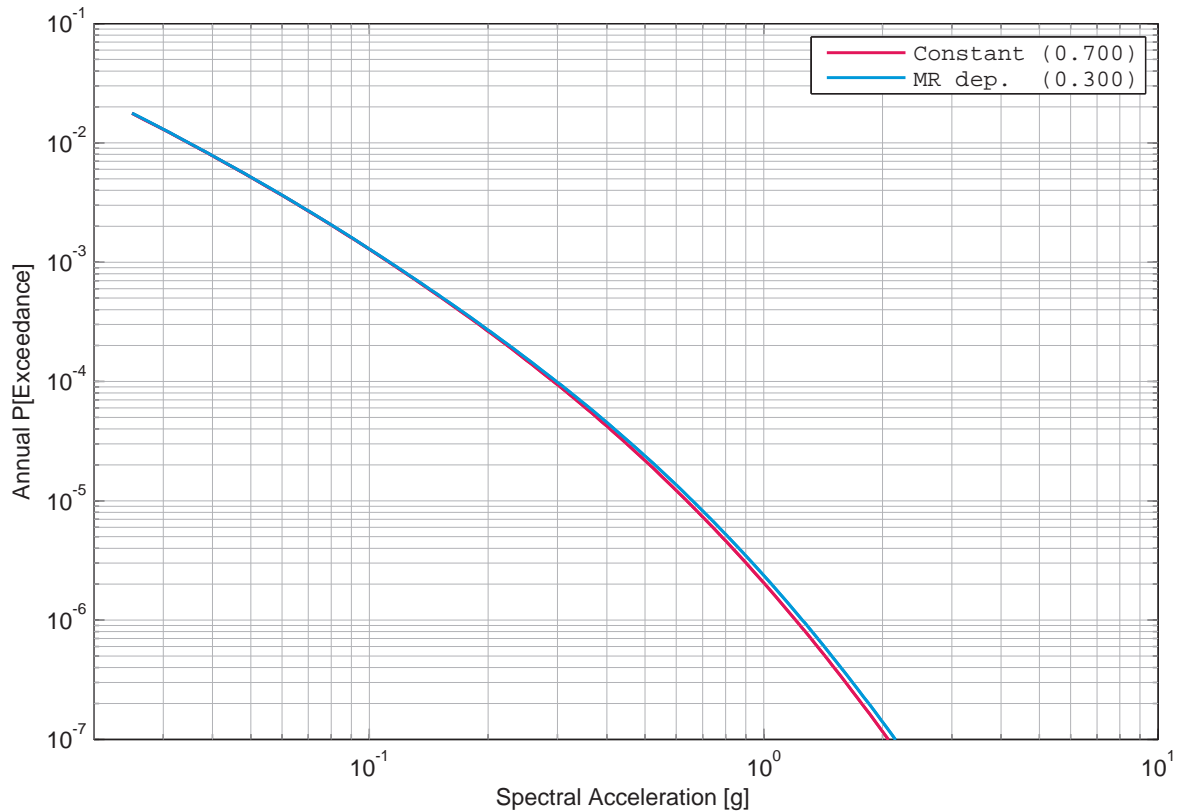


Figure 4.8.90: Leibstadt, horizontal component, rock, Cotton’s sensitivity to phi, 5 Hz.

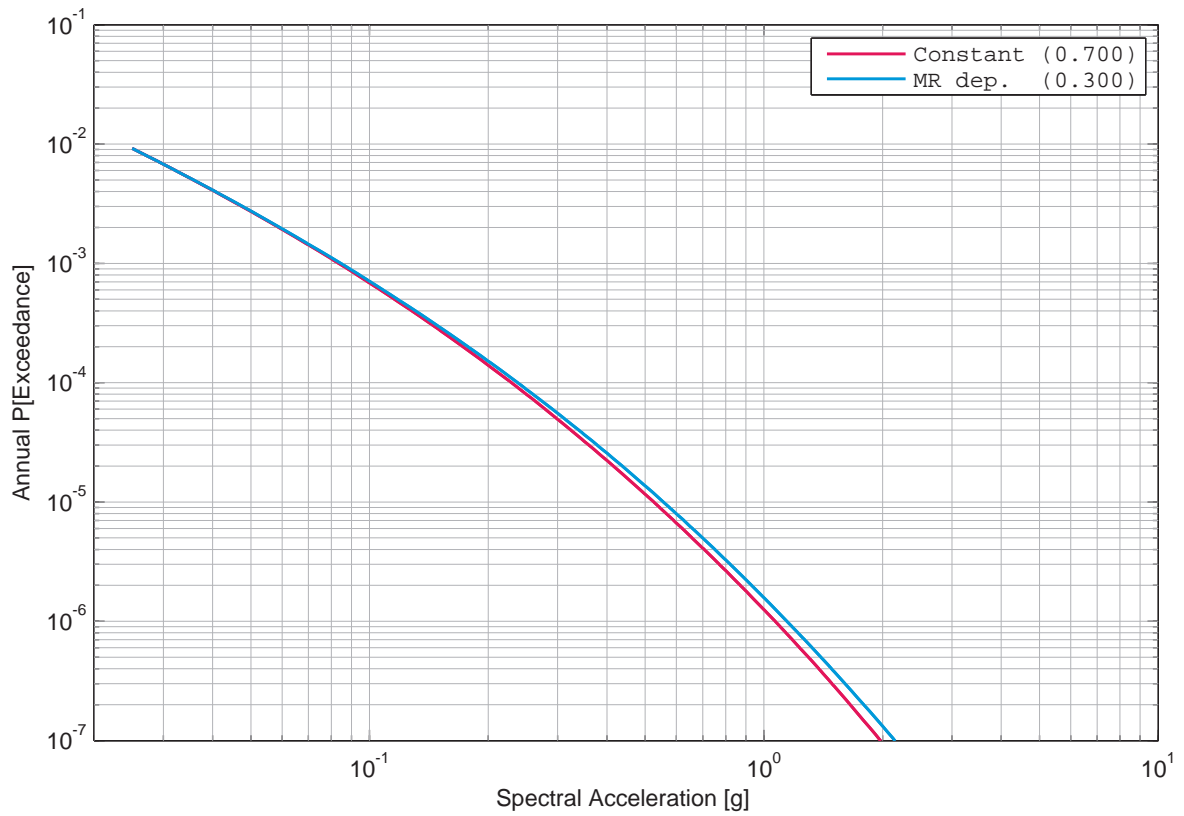


Figure 4.8.91: Leibstadt, horizontal component, rock, Cotton's sensitivity to phi, 33 Hz.

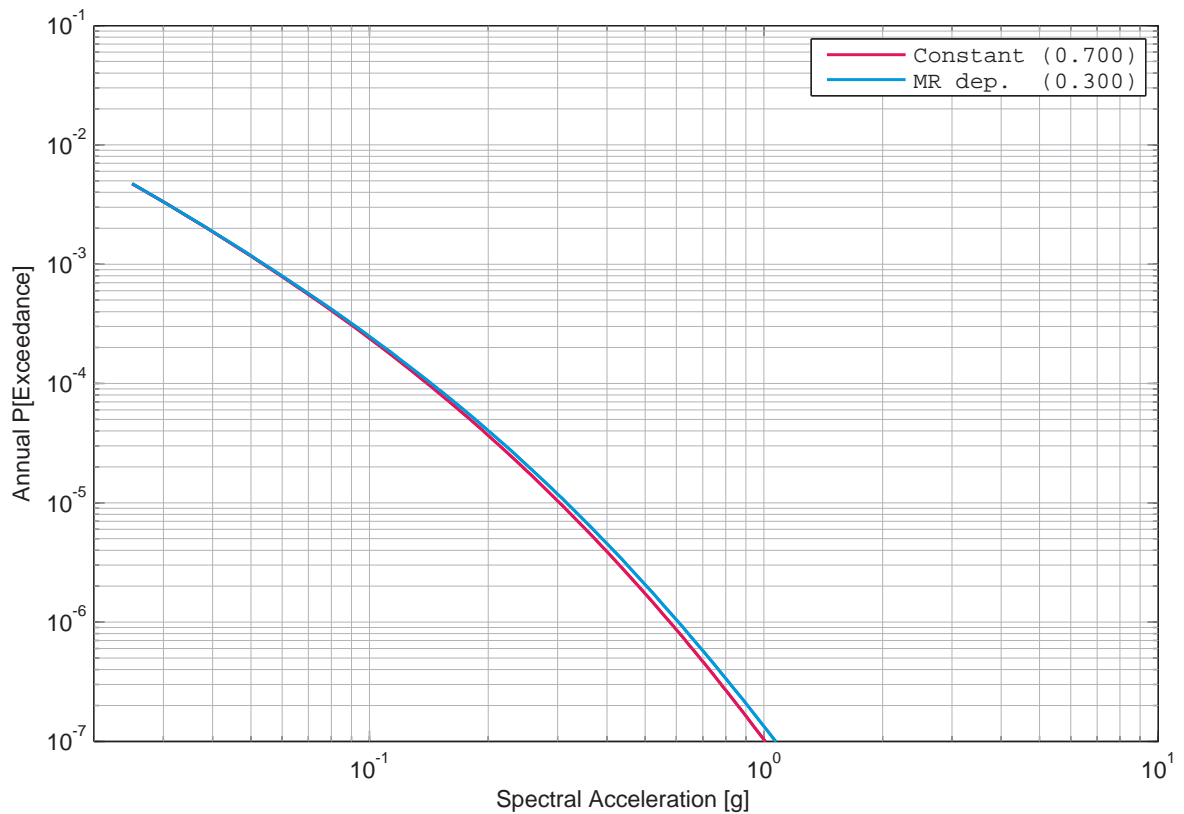


Figure 4.8.92: Leibstadt, horizontal component, rock, Cotton's sensitivity to phi, 100 Hz.

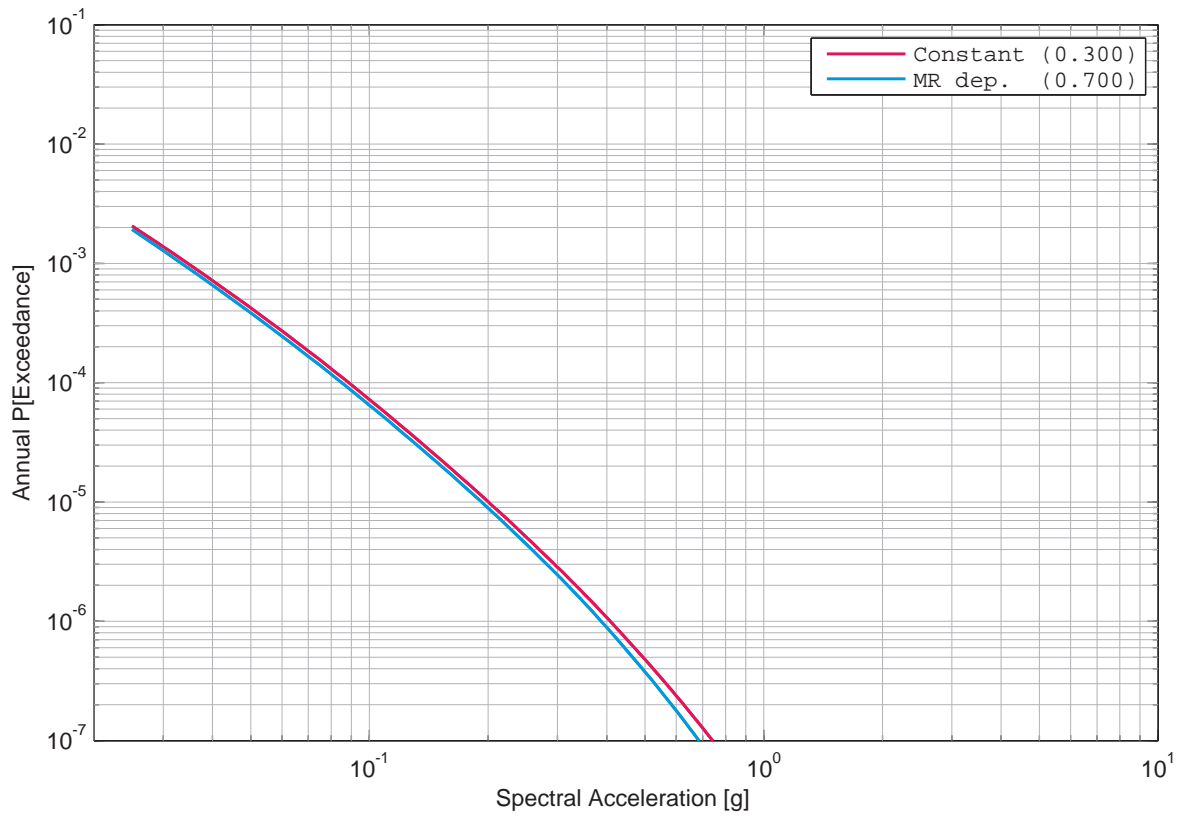


Figure 4.8.93: Leibstadt, horizontal component, rock, Faeh's sensitivity to phi, 1 Hz.

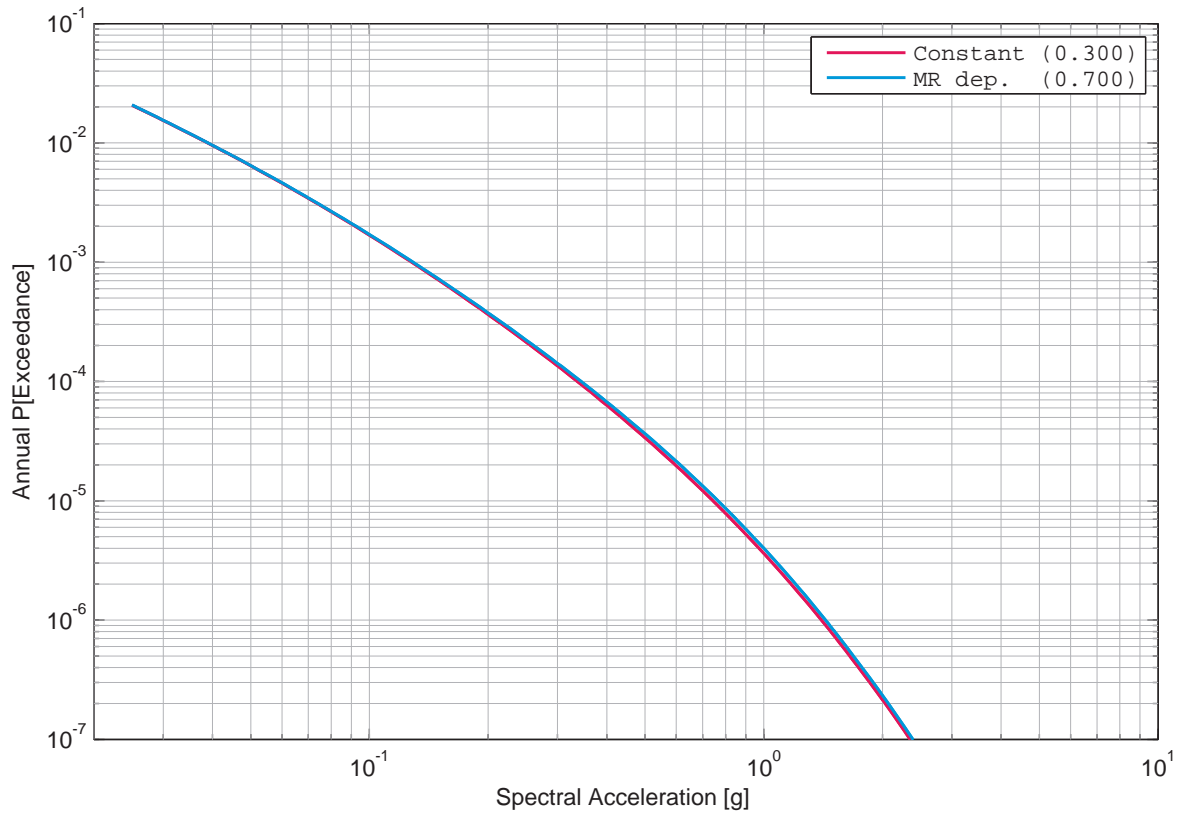


Figure 4.8.94: Leibstadt, horizontal component, rock, Faeh's sensitivity to phi, 5 Hz.

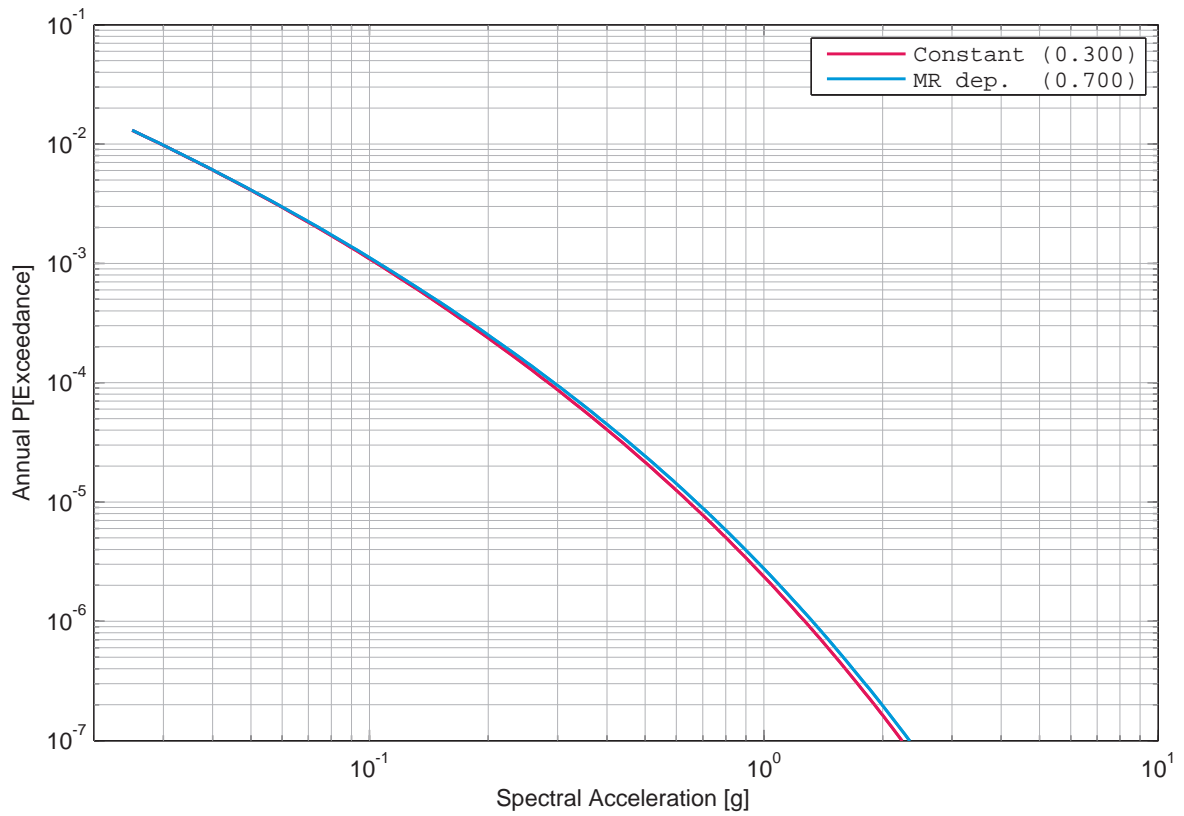


Figure 4.8.95: Leibstadt, horizontal component, rock, Faeh's sensitivity to phi, 33 Hz.

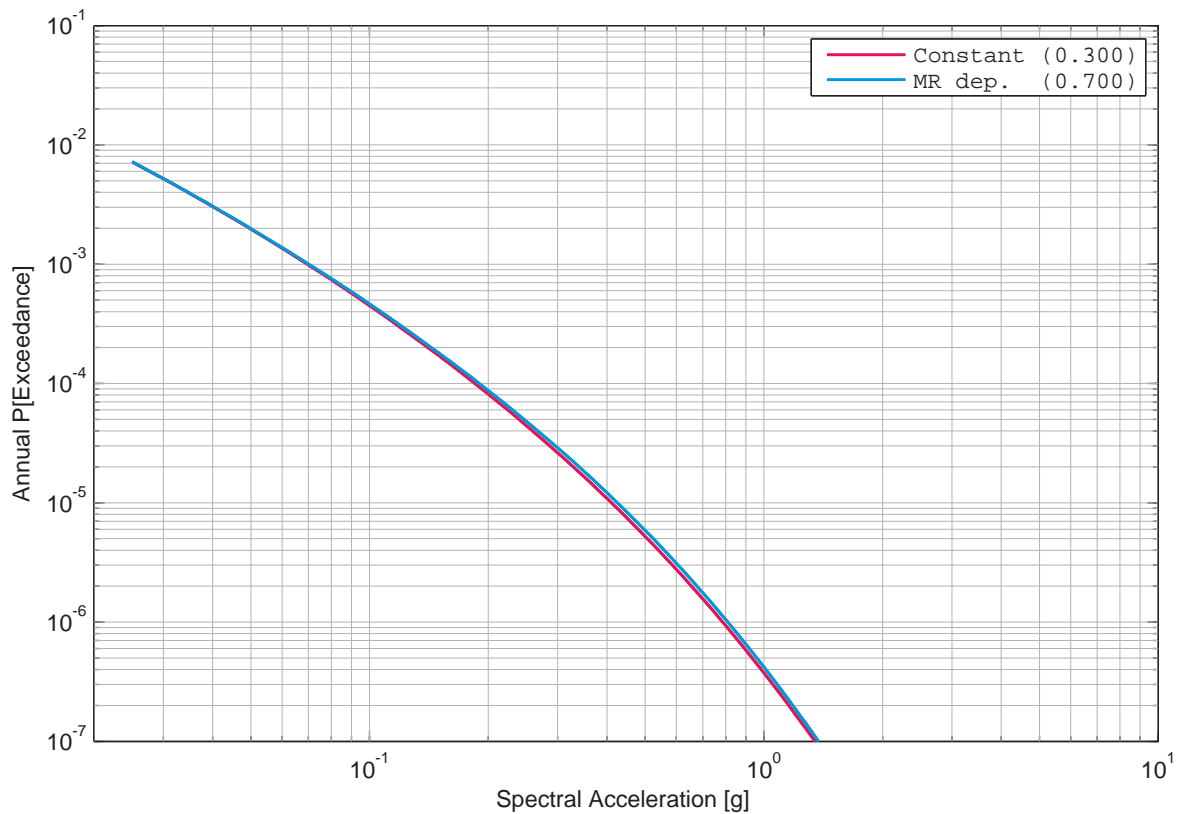


Figure 4.8.96: Leibstadt, horizontal component, rock, Faeh's sensitivity to phi, 100 Hz.

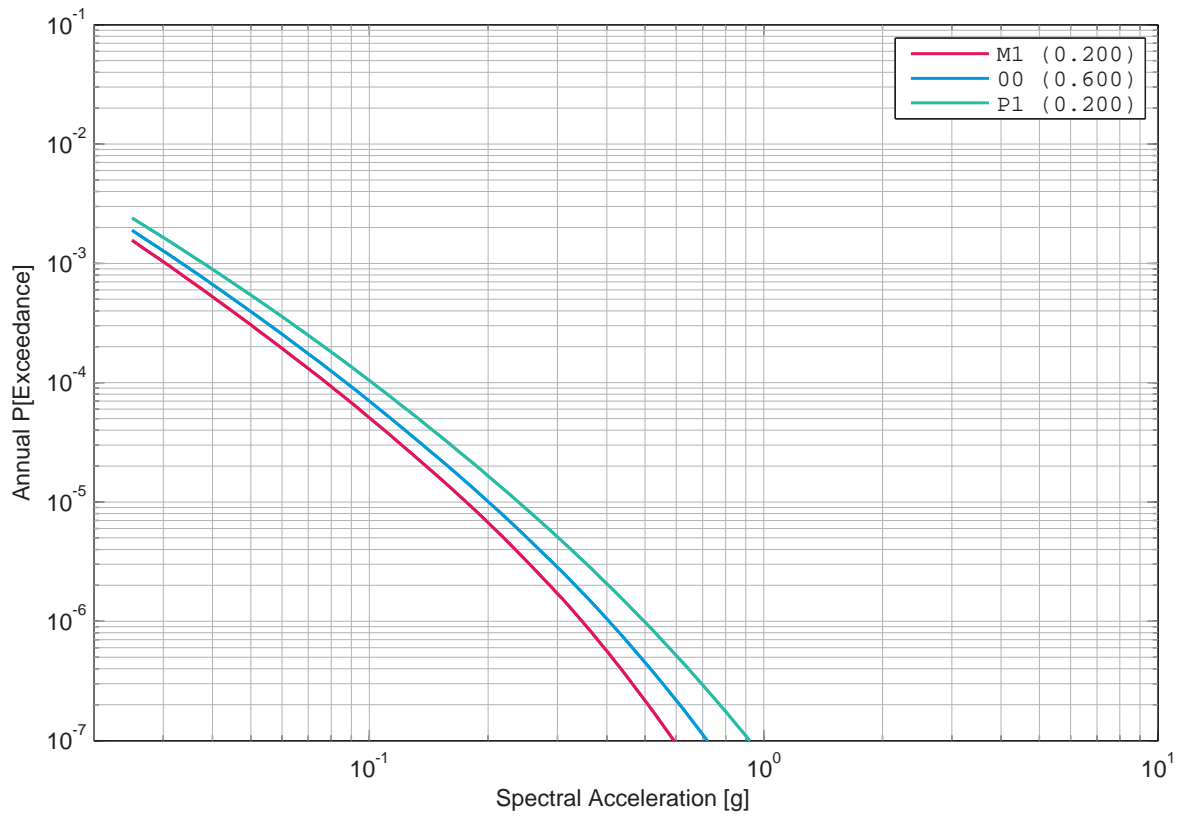


Figure 4.8.97: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the phi uncertainty, 1 Hz.

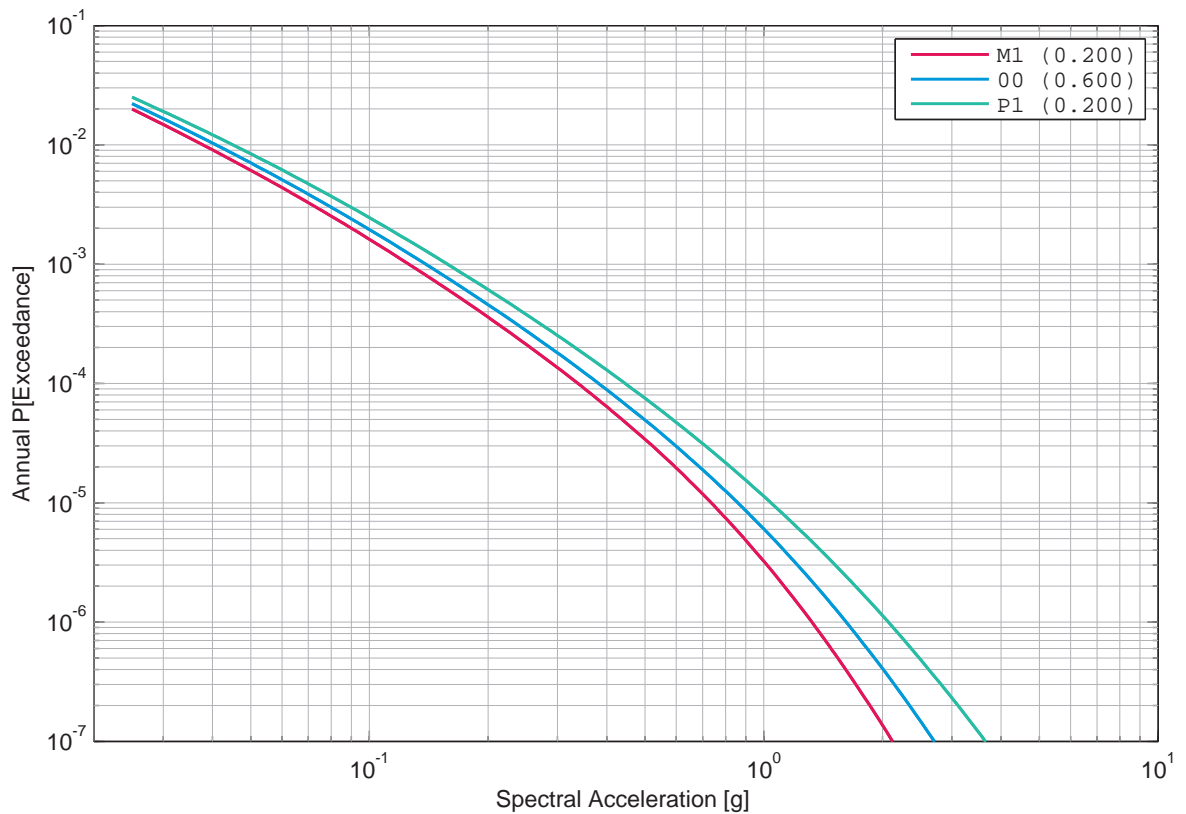


Figure 4.8.98: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the phi uncertainty, 5 Hz.

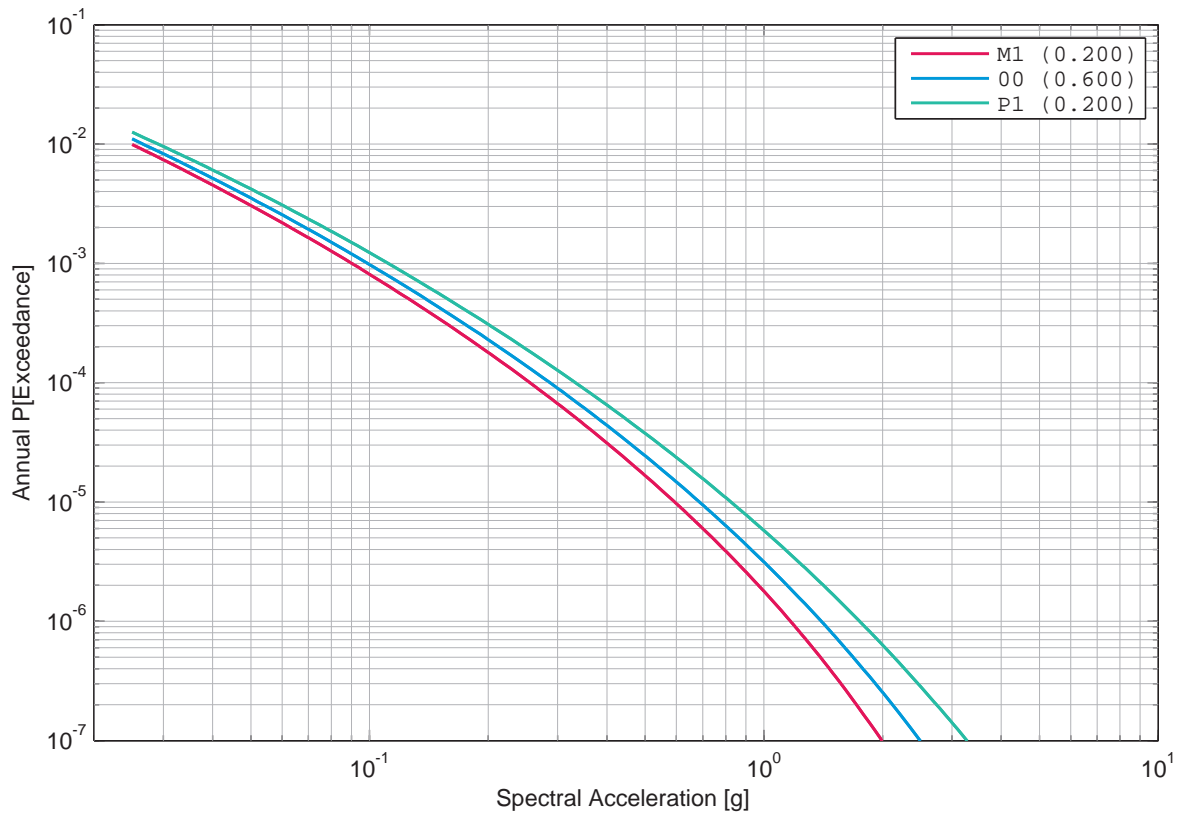


Figure 4.8.99: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the phi uncertainty, 33 Hz.

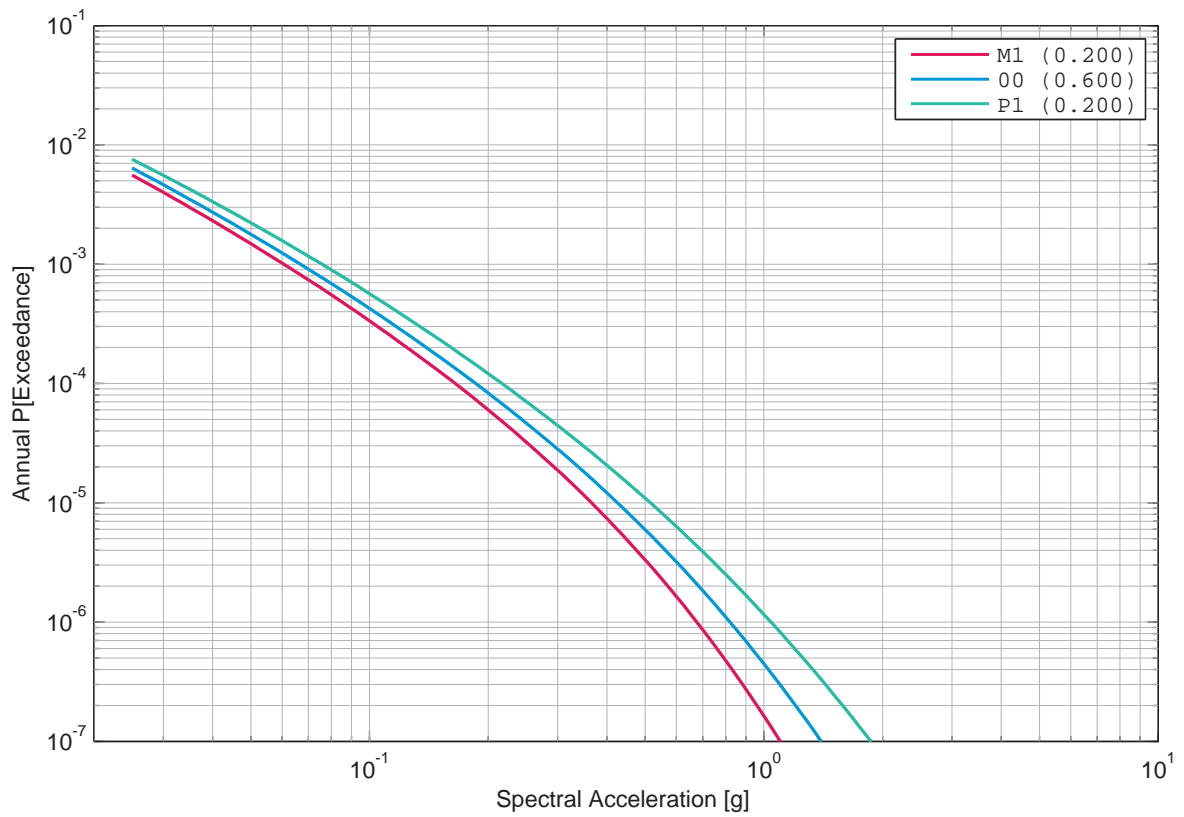


Figure 4.8.100: Leibstadt, horizontal component, rock, Bungum’s sensitivity to the phi uncertainty, 100 Hz.

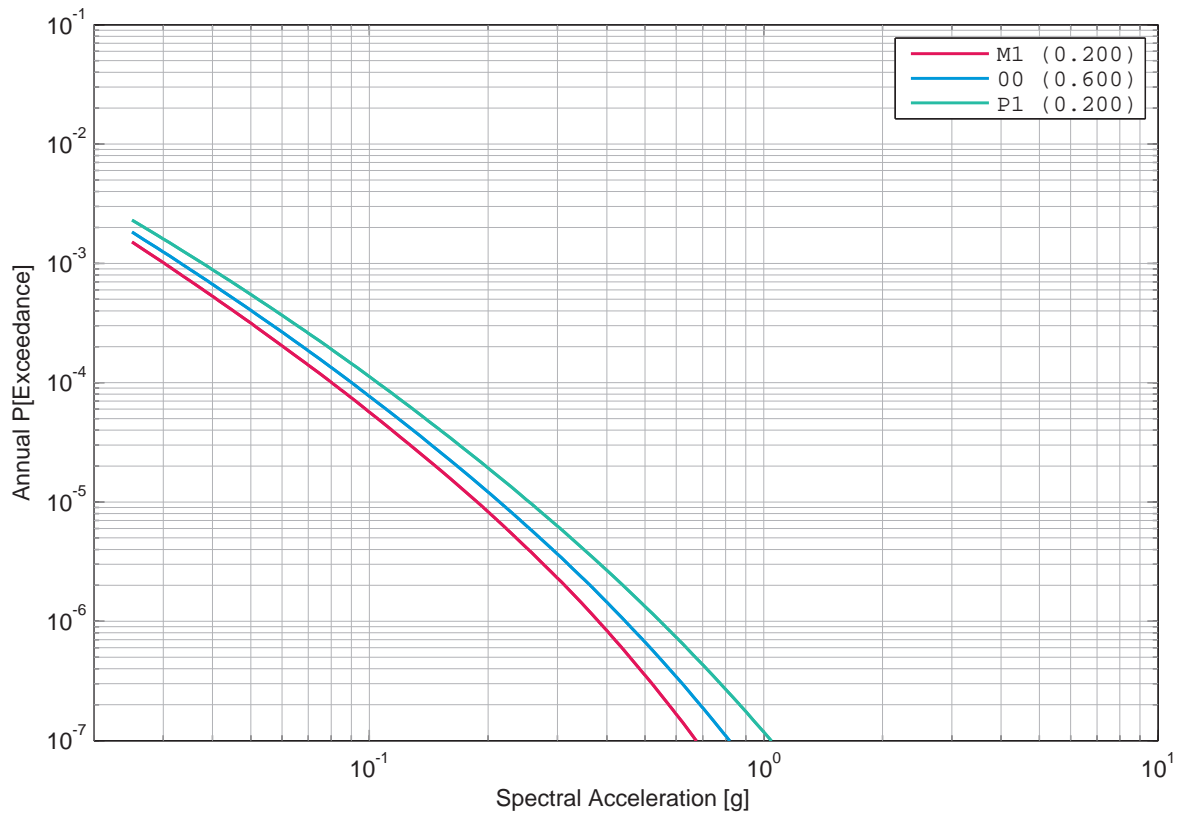


Figure 4.8.101: Leibstadt, horizontal component, rock, Campbell's sensitivity to the phi uncertainty, 1 Hz.

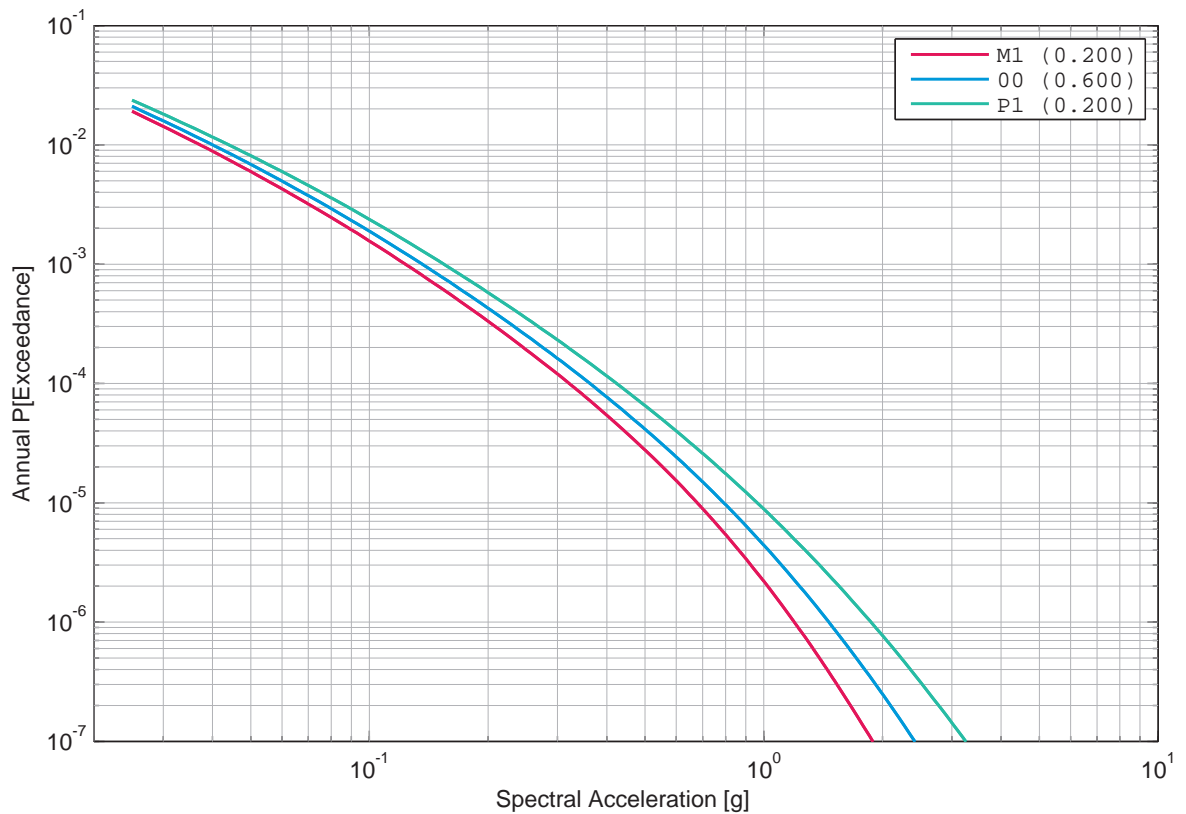


Figure 4.8.102: Leibstadt, horizontal component, rock, Campbell's sensitivity to the phi uncertainty, 5 Hz.

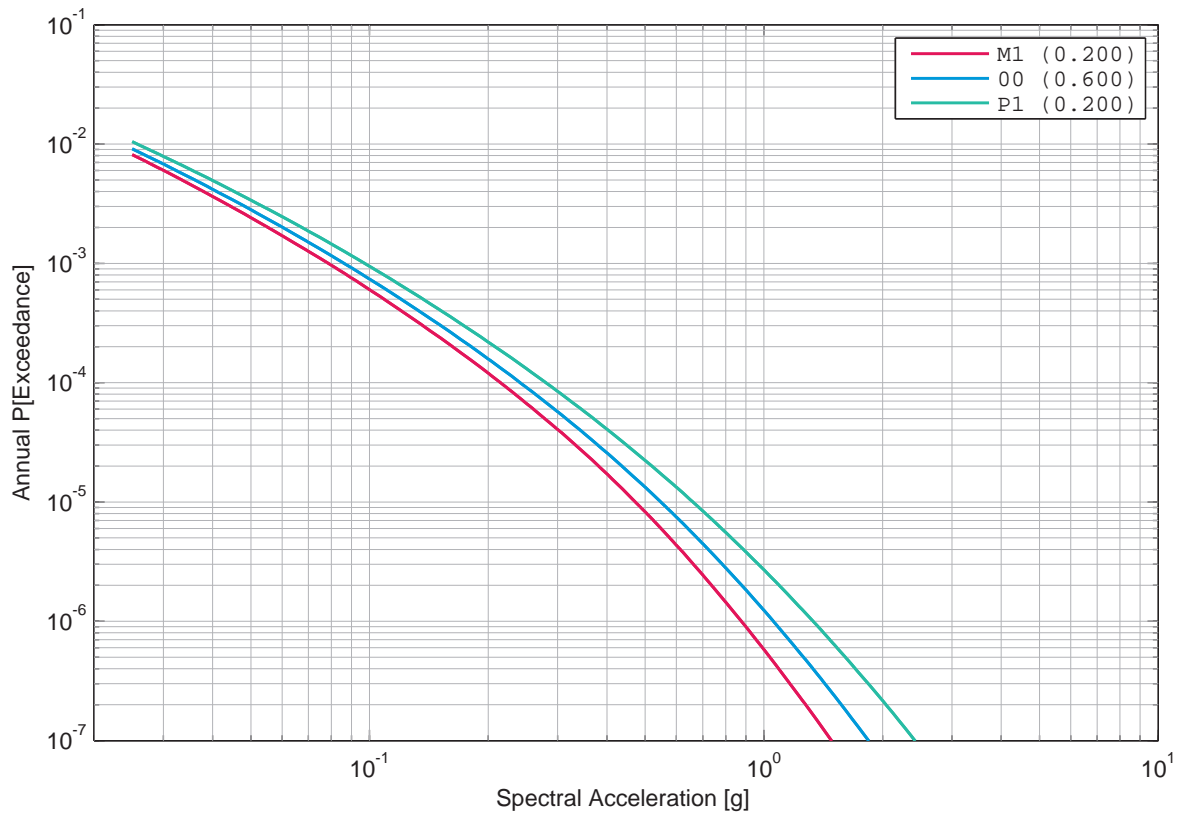


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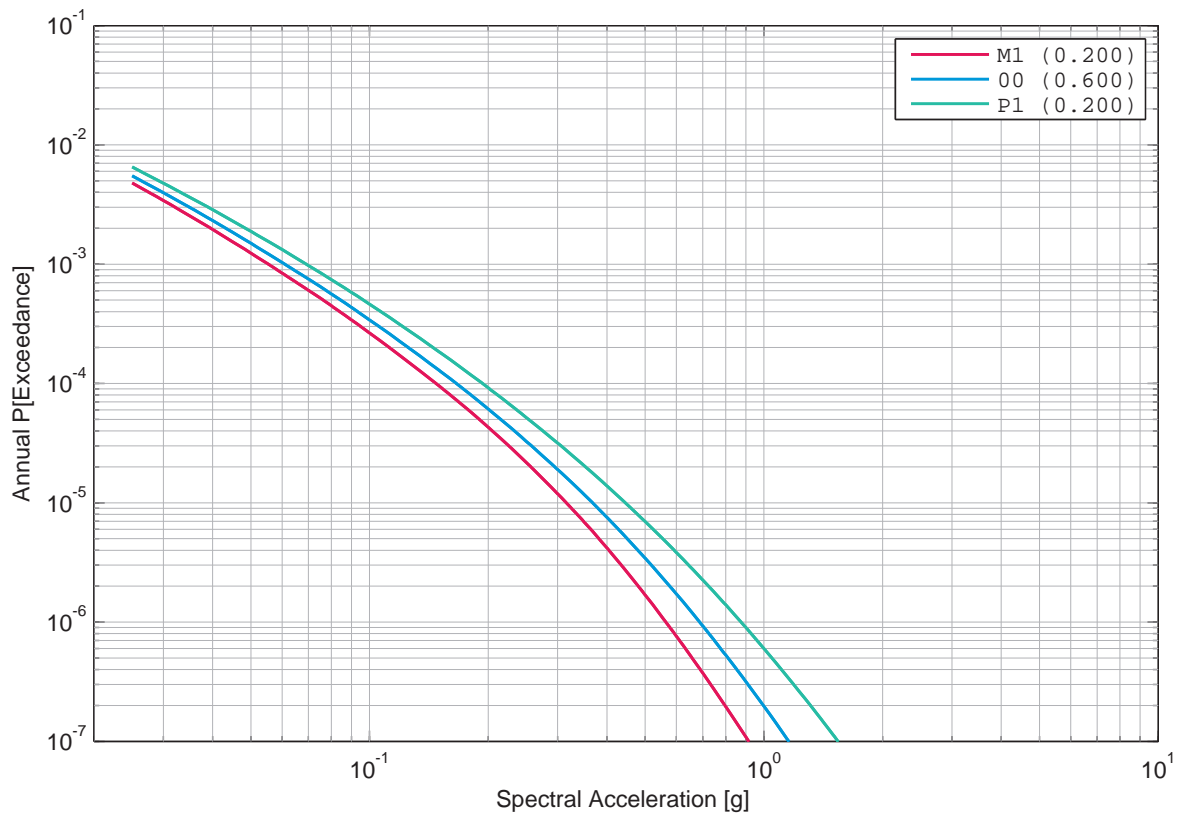


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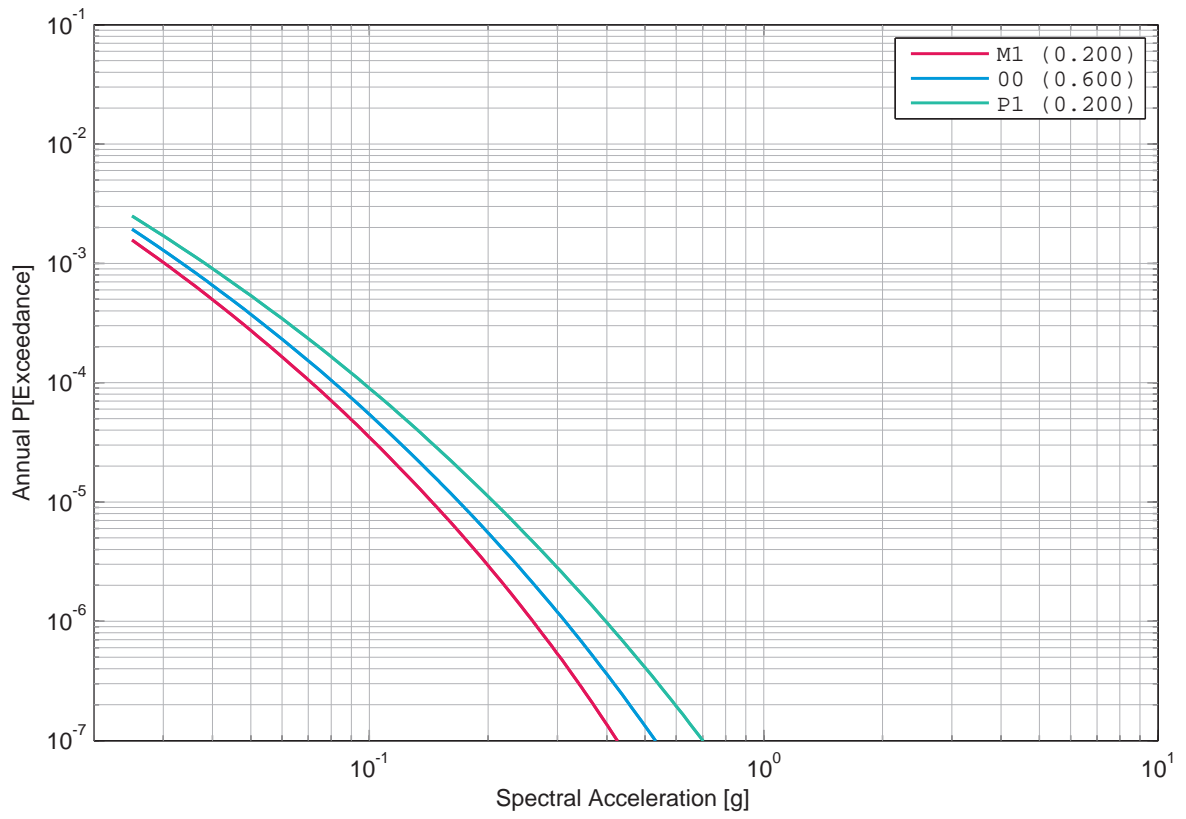


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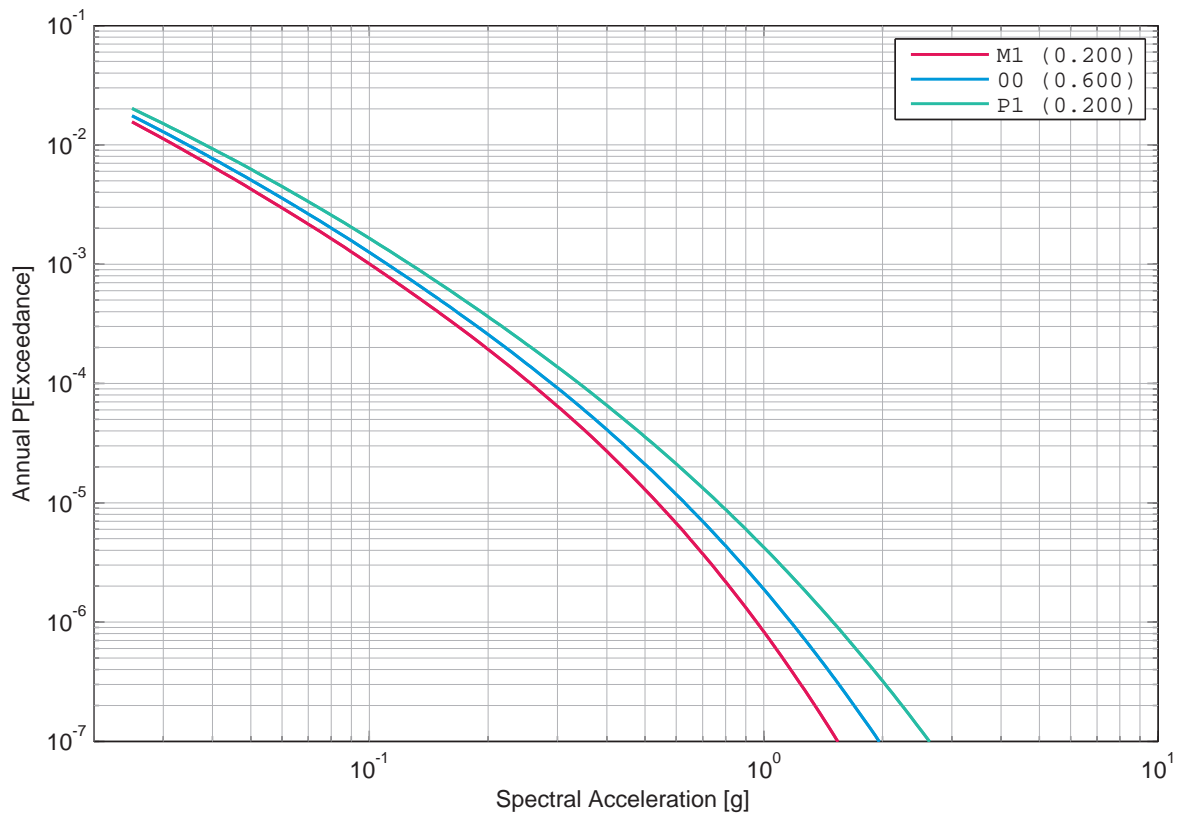


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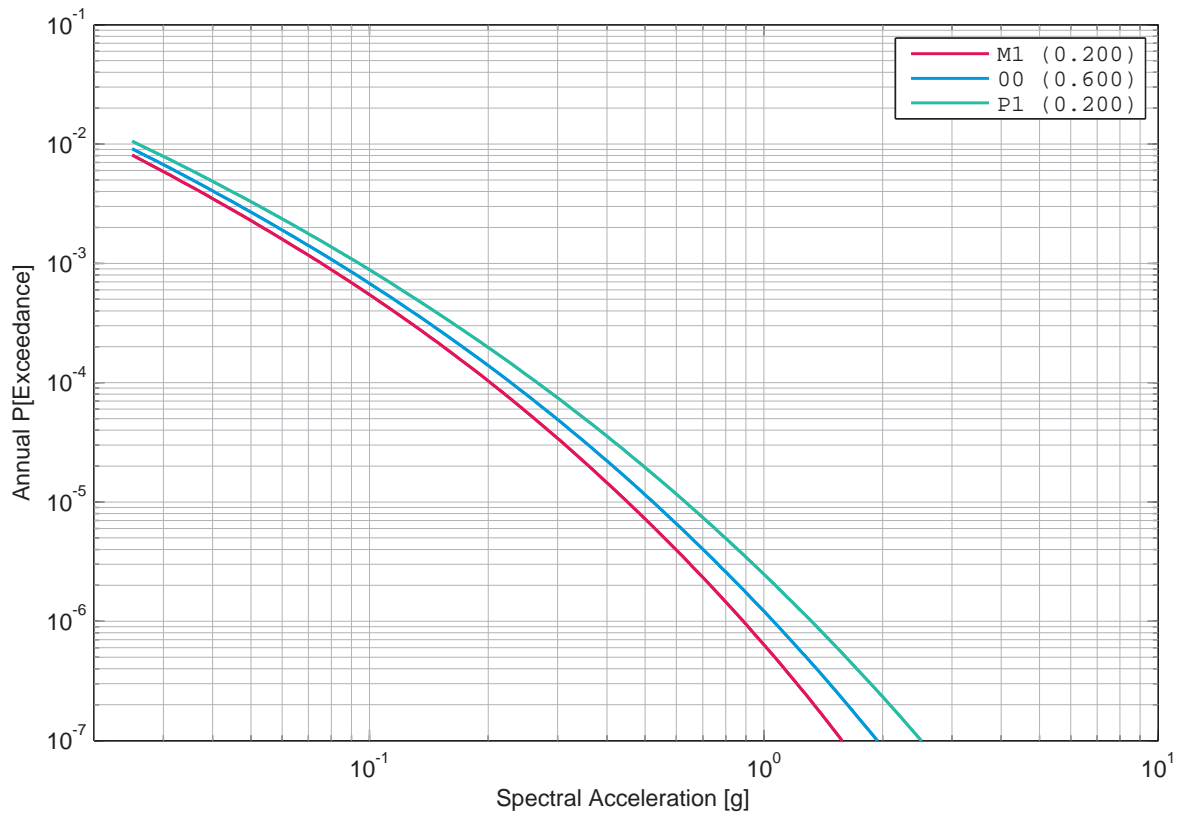


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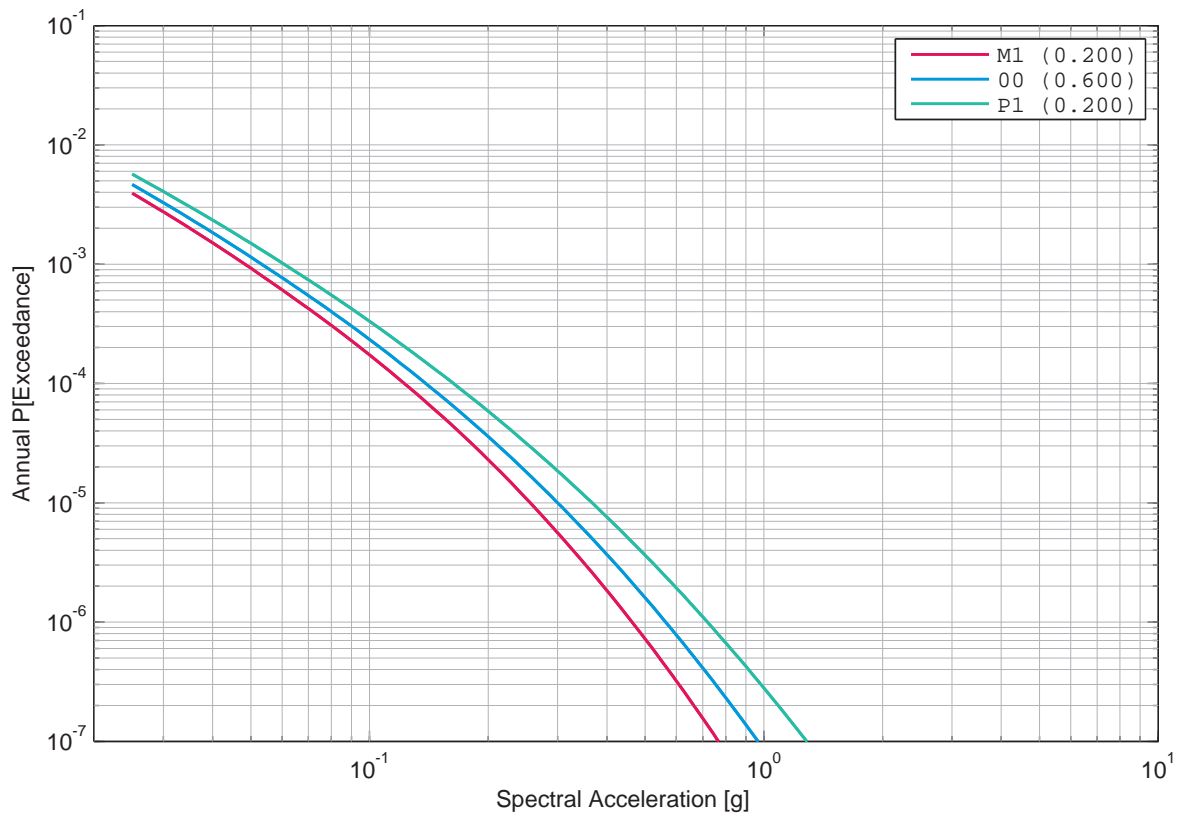


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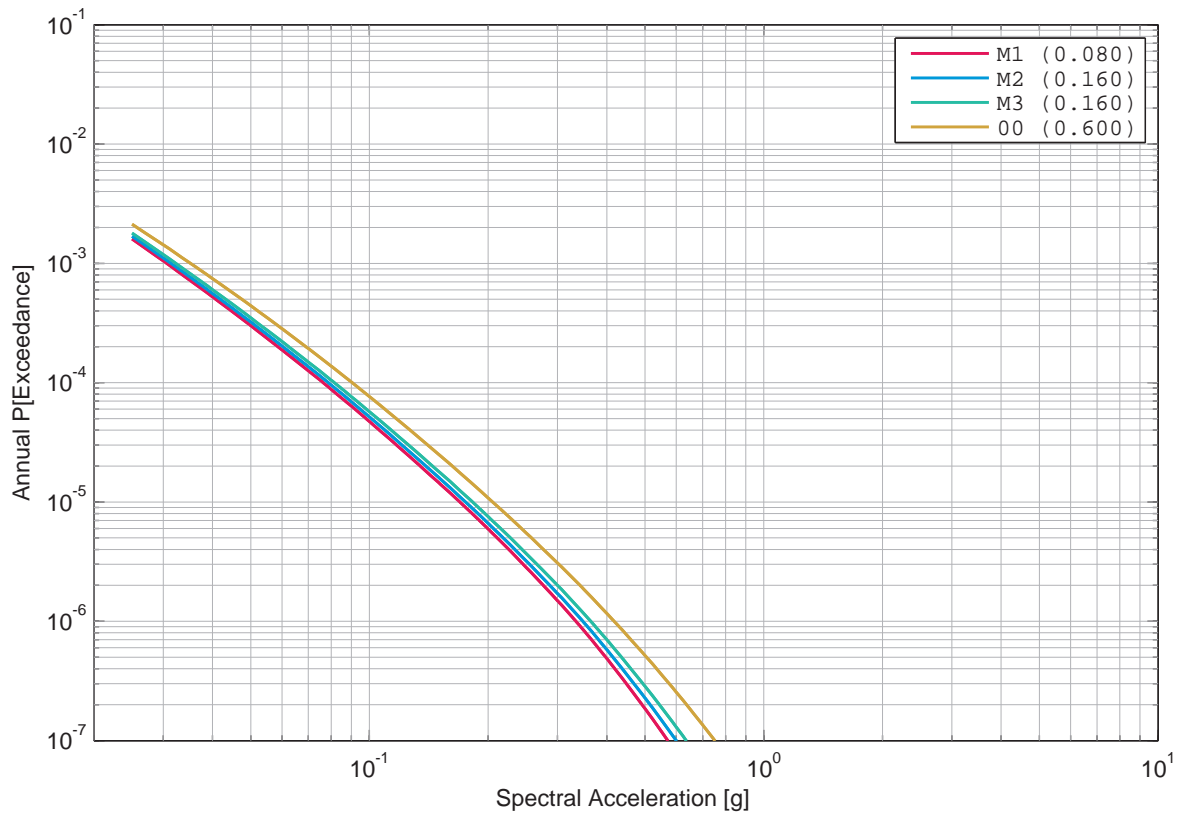


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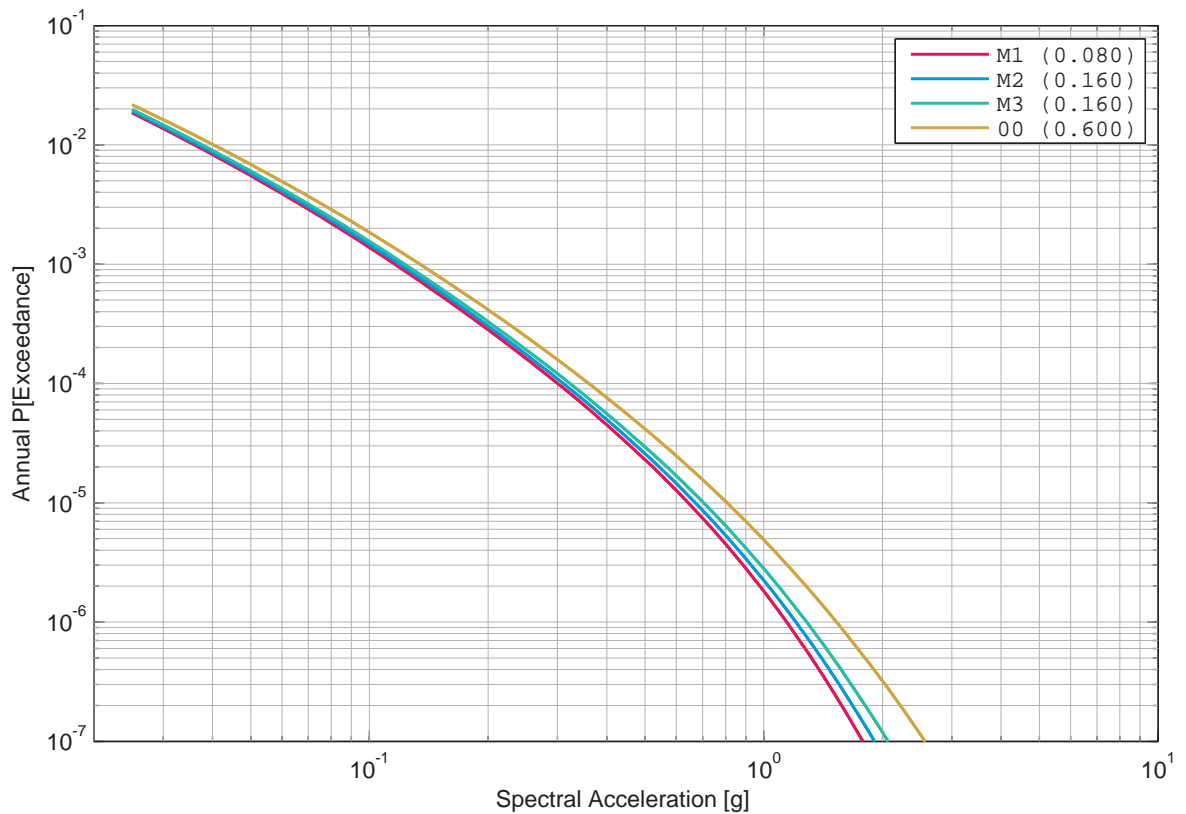


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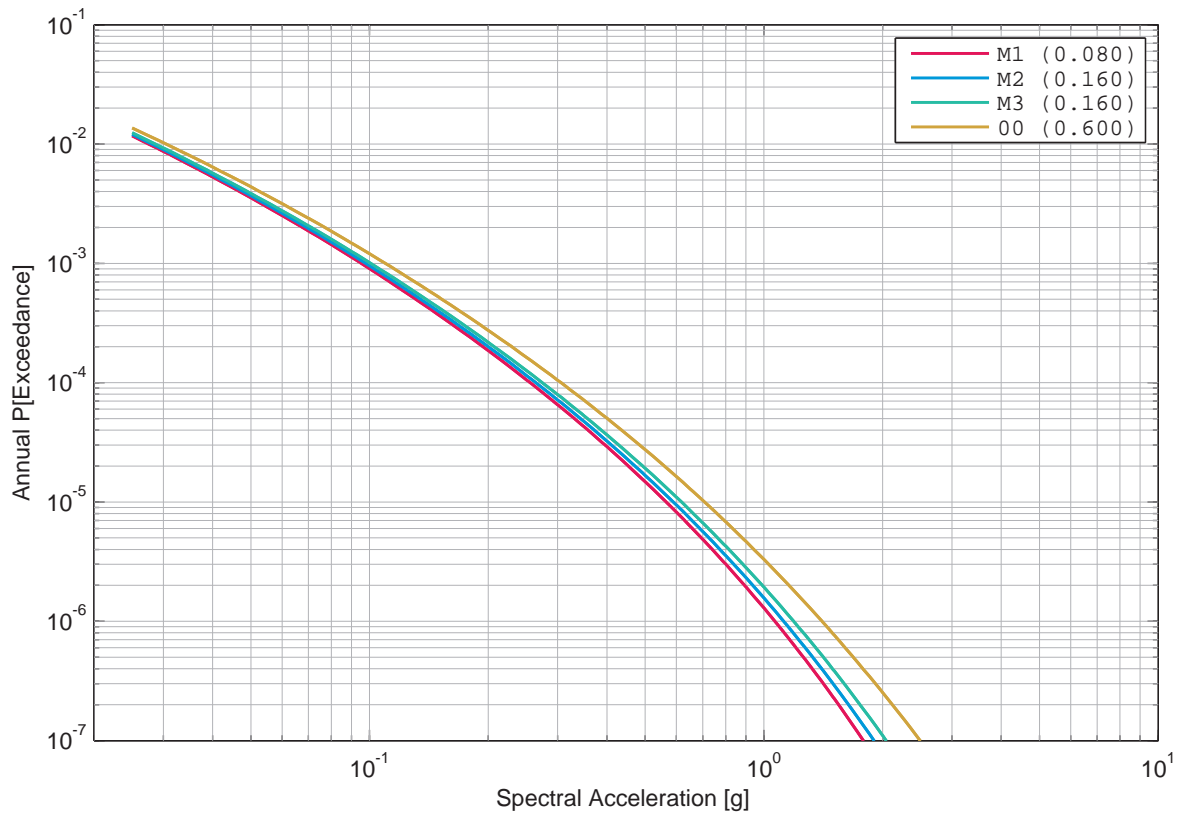


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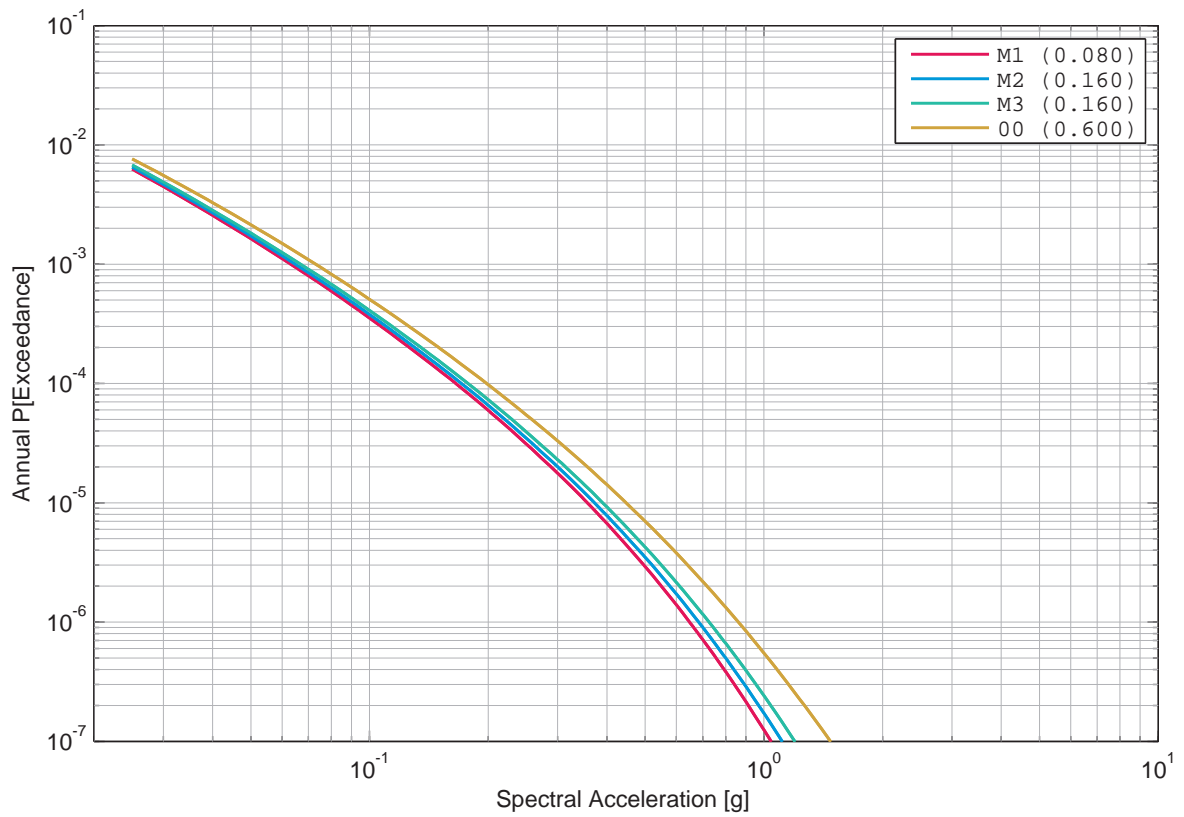


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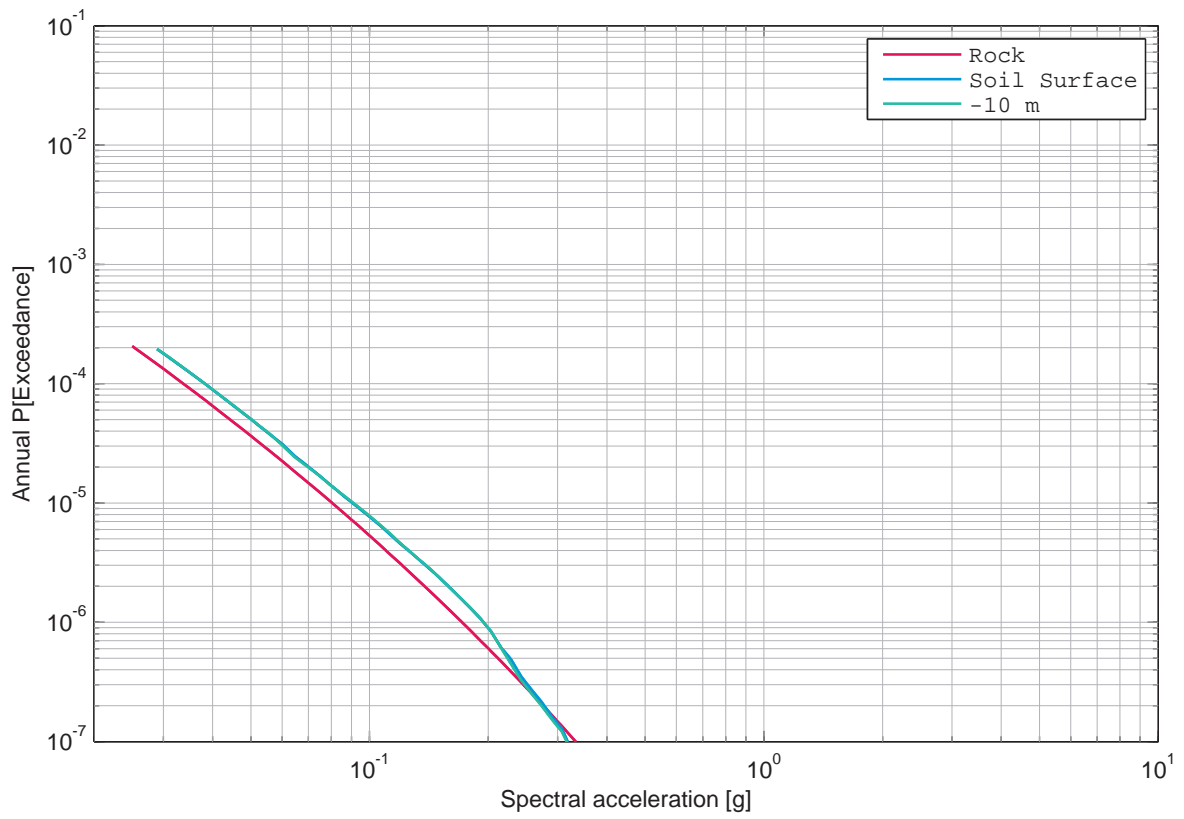


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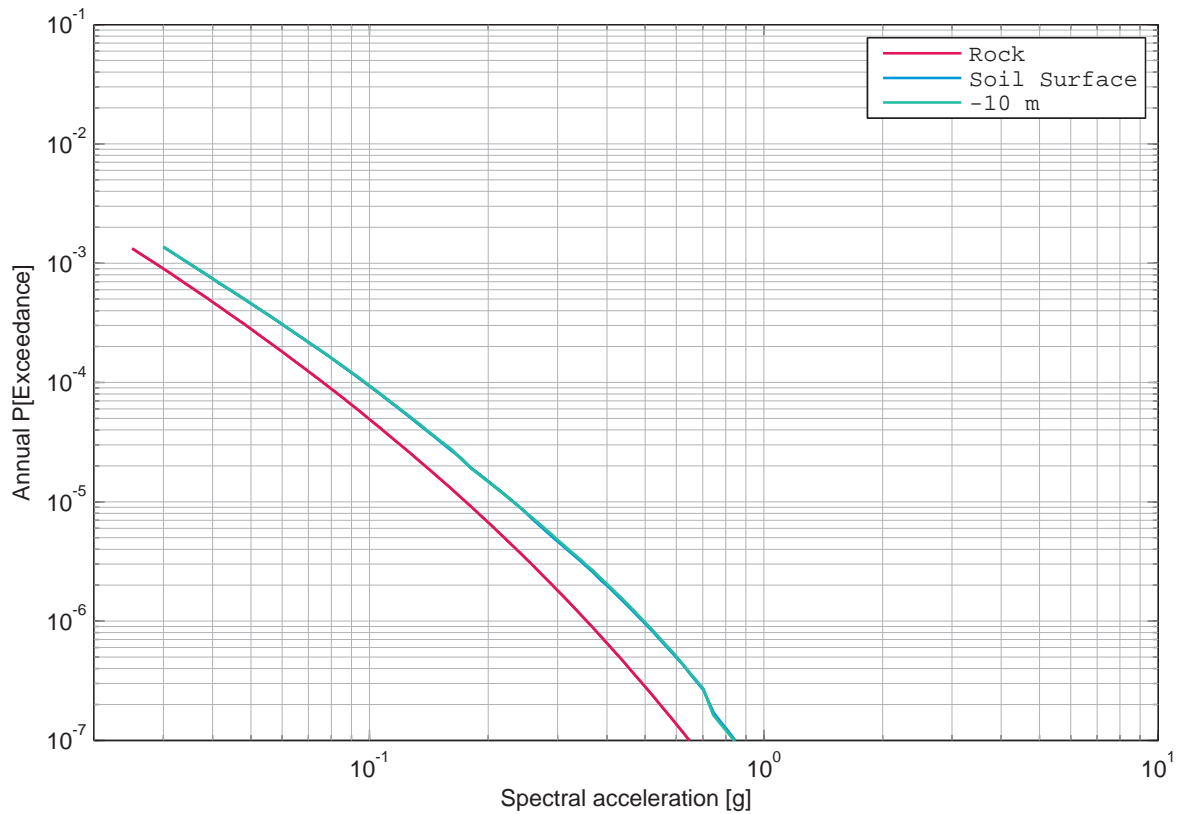


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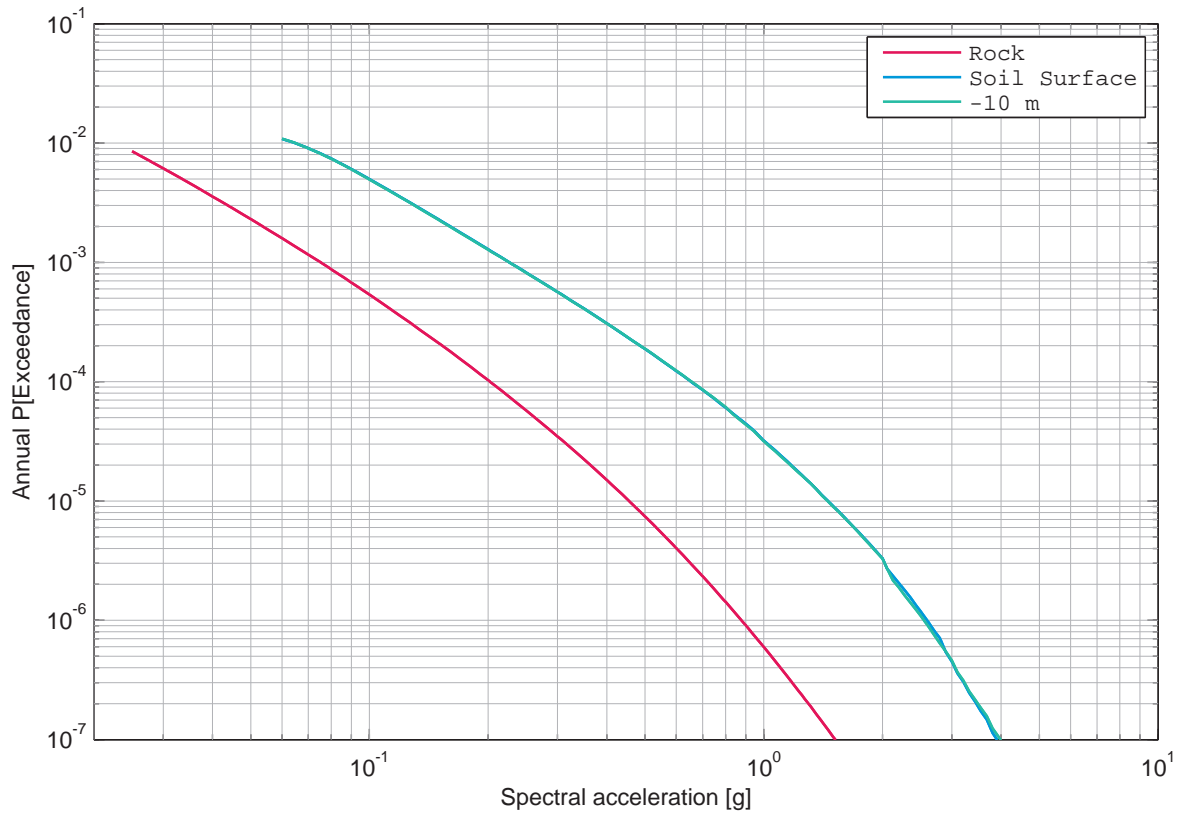


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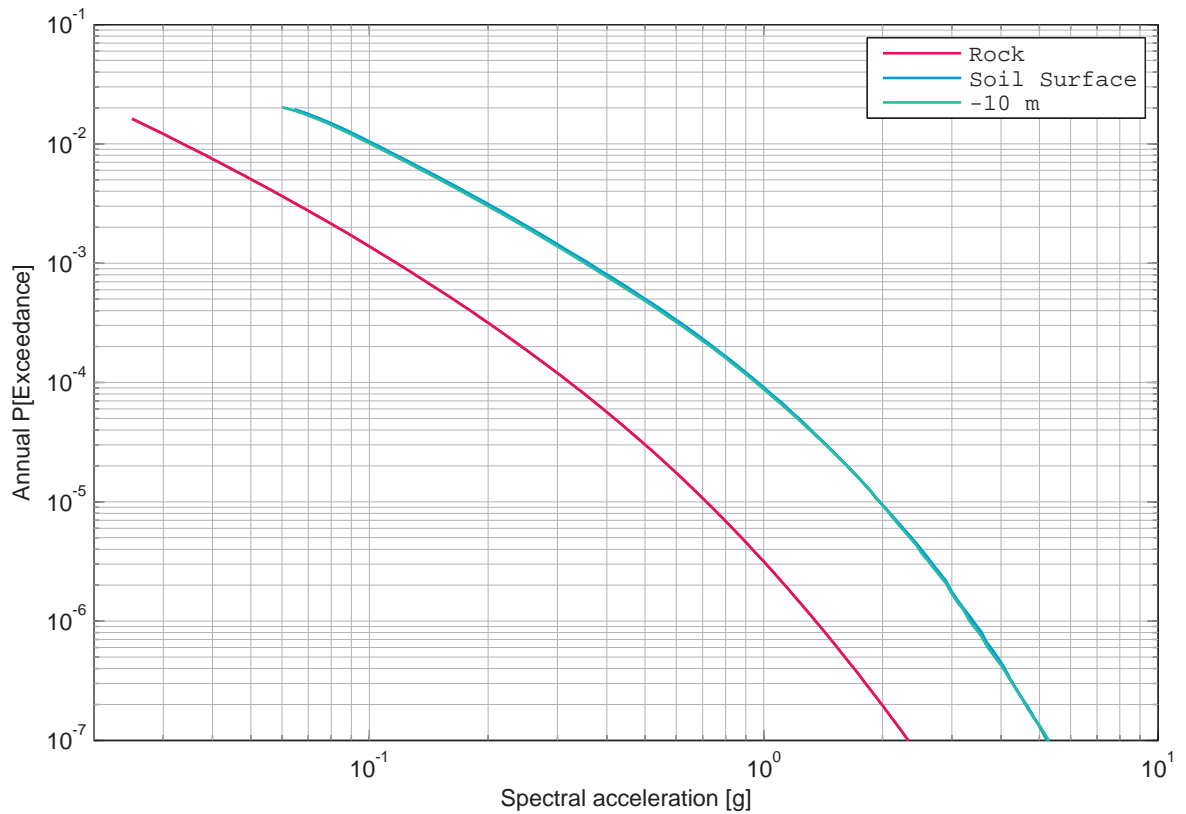


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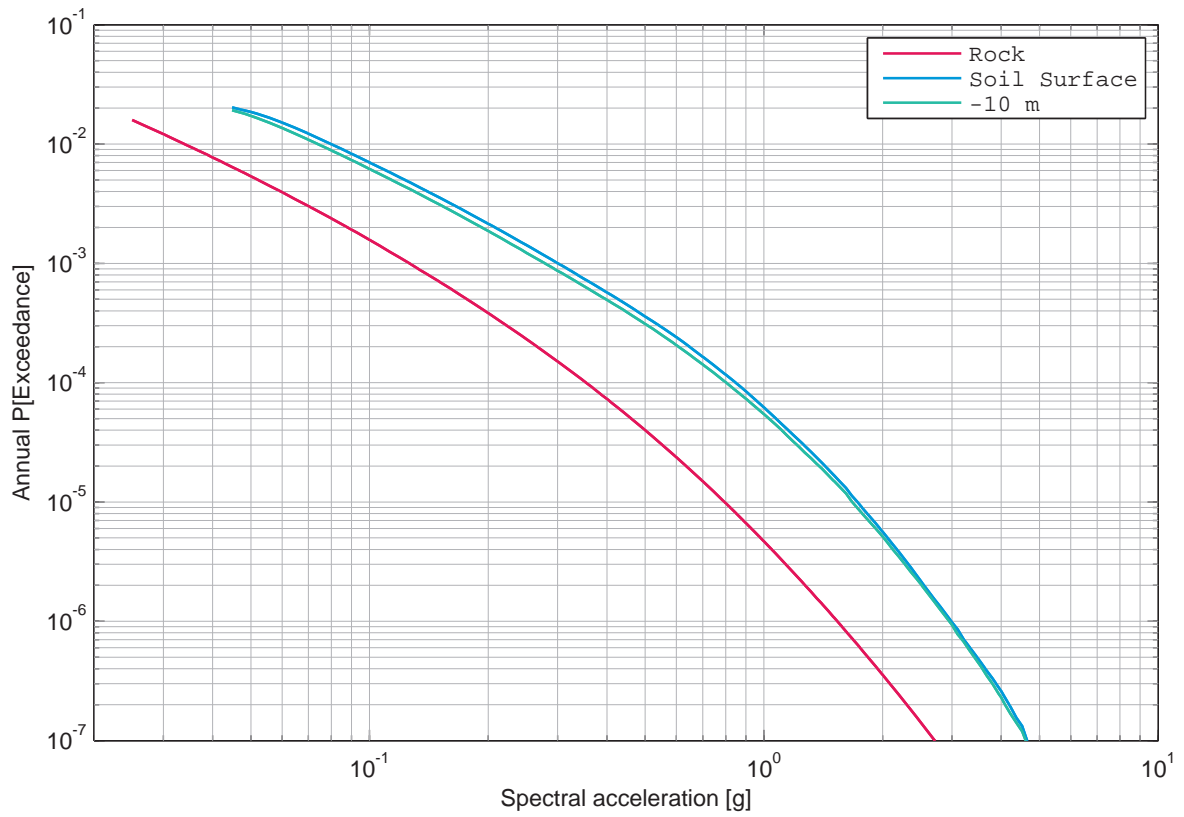


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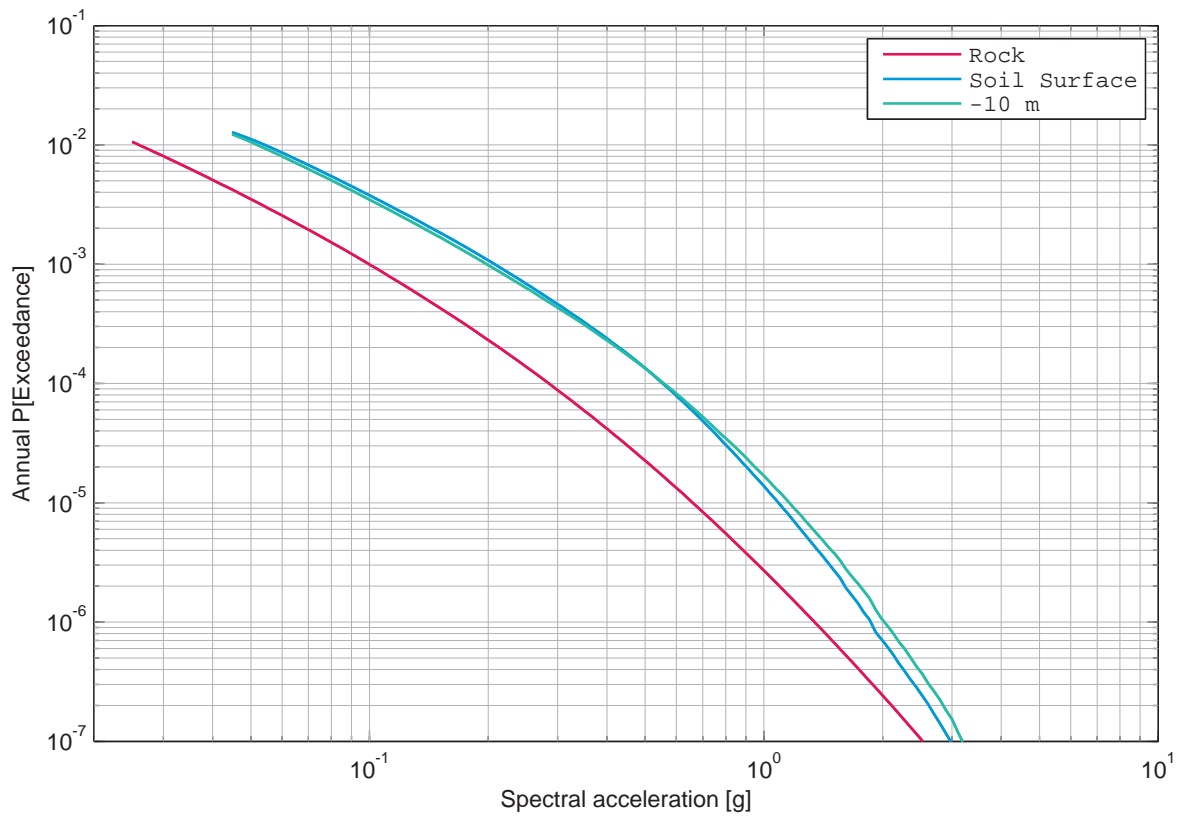


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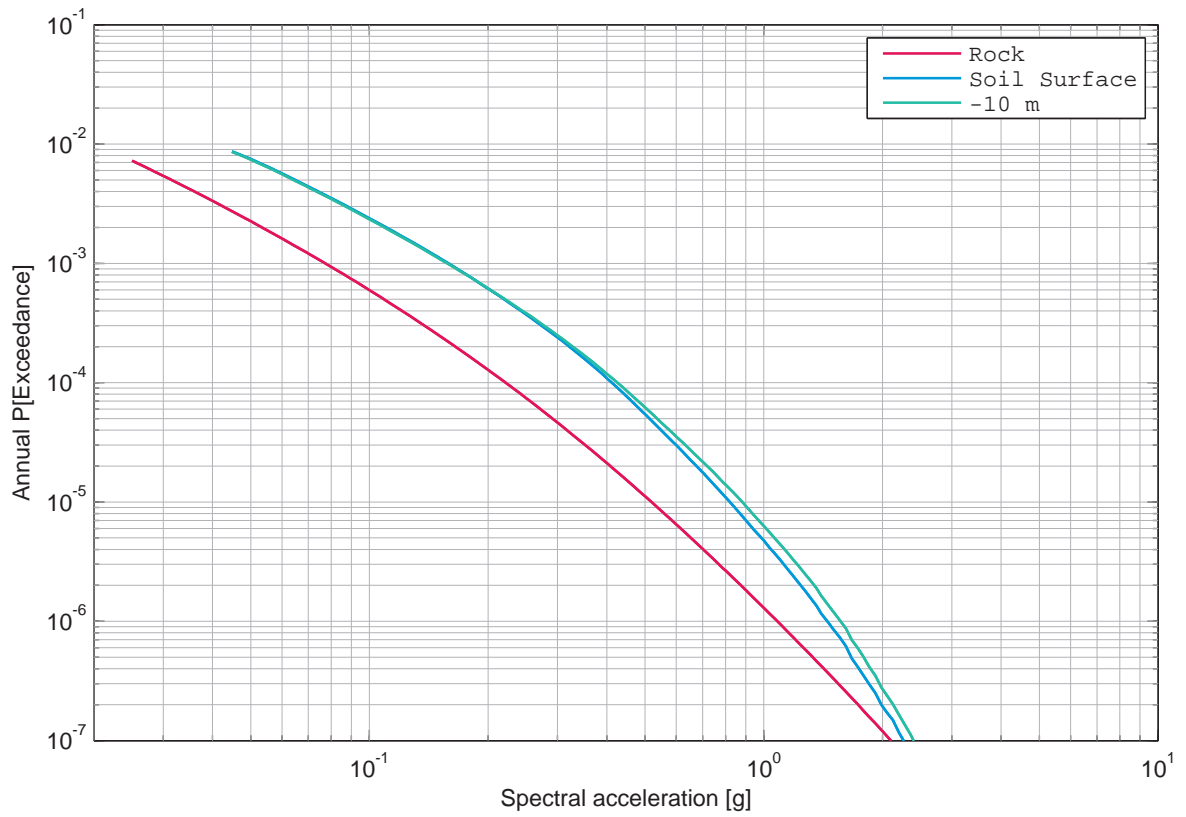


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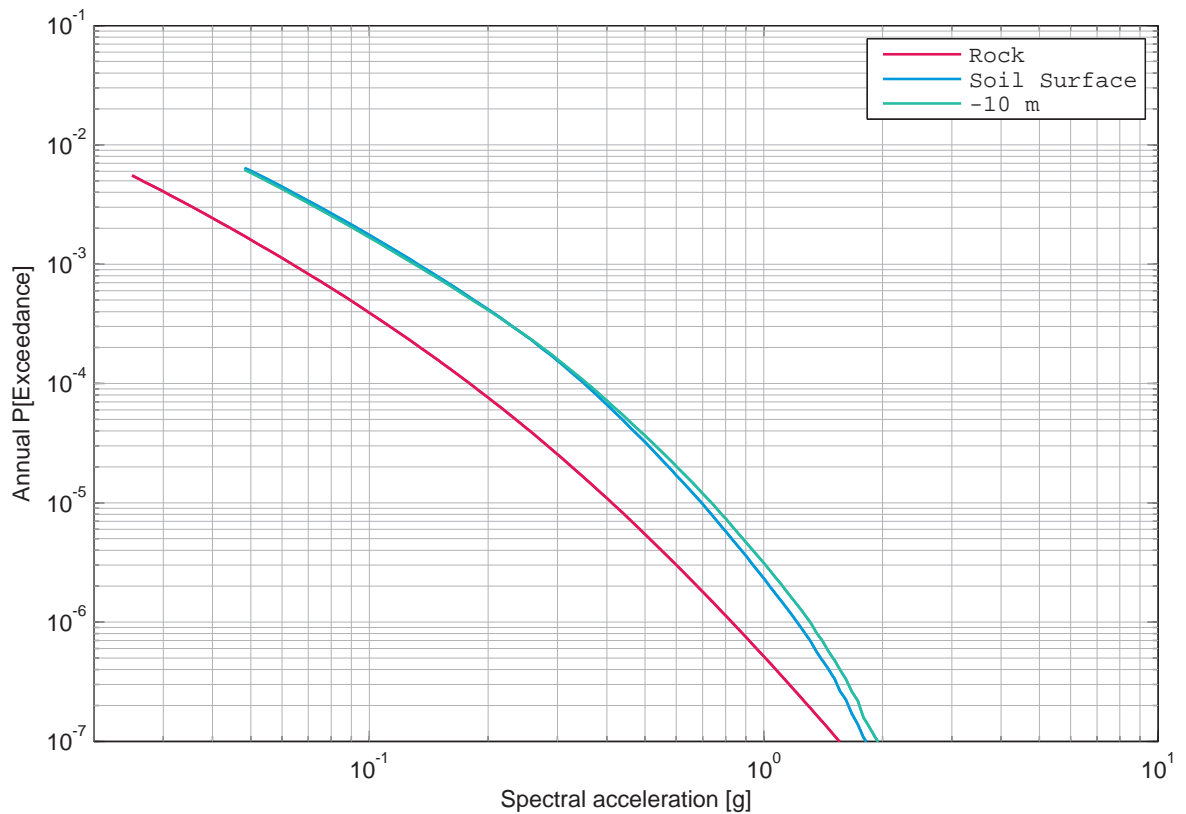


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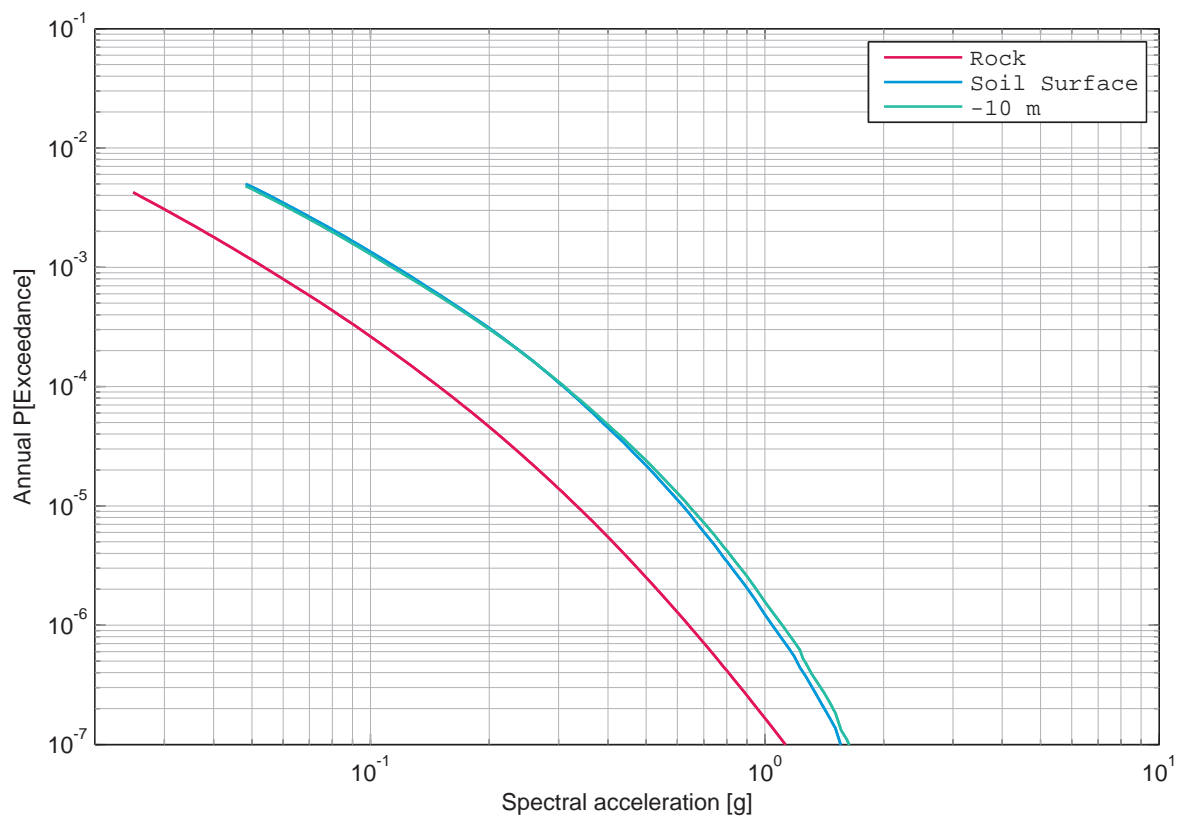


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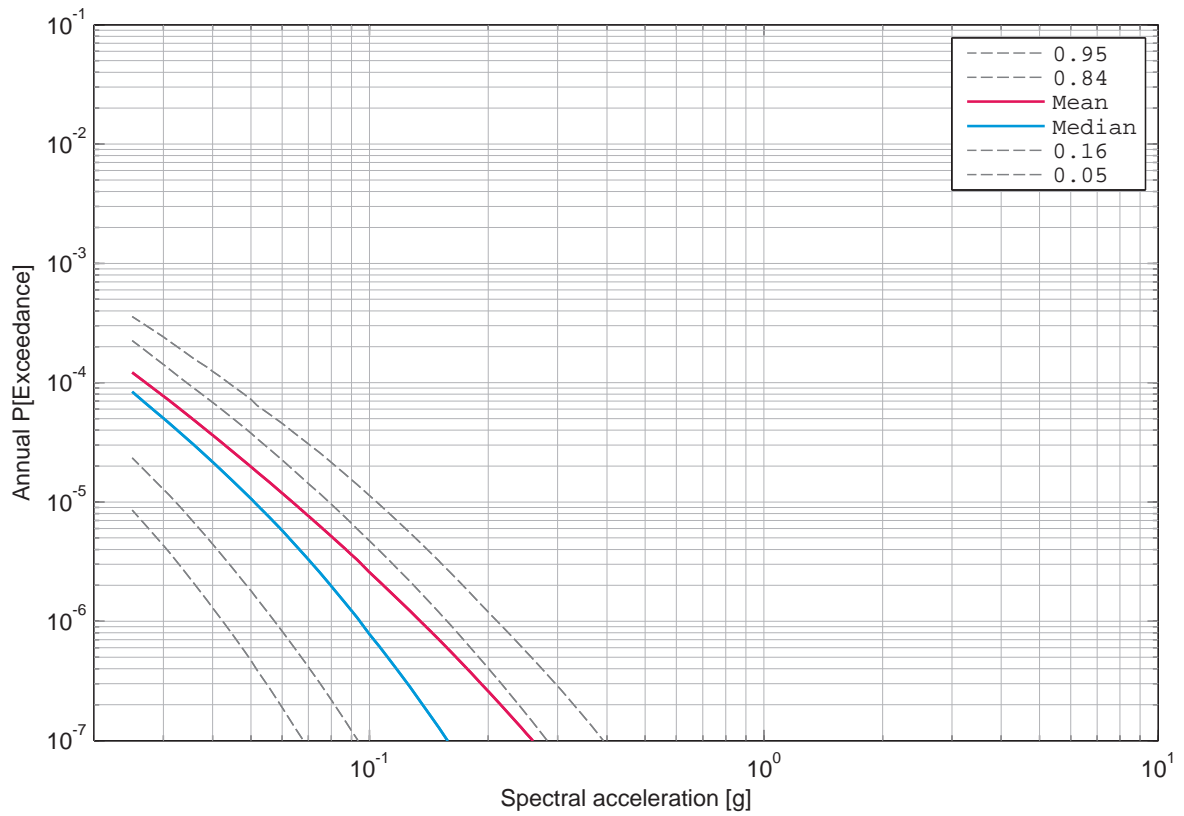


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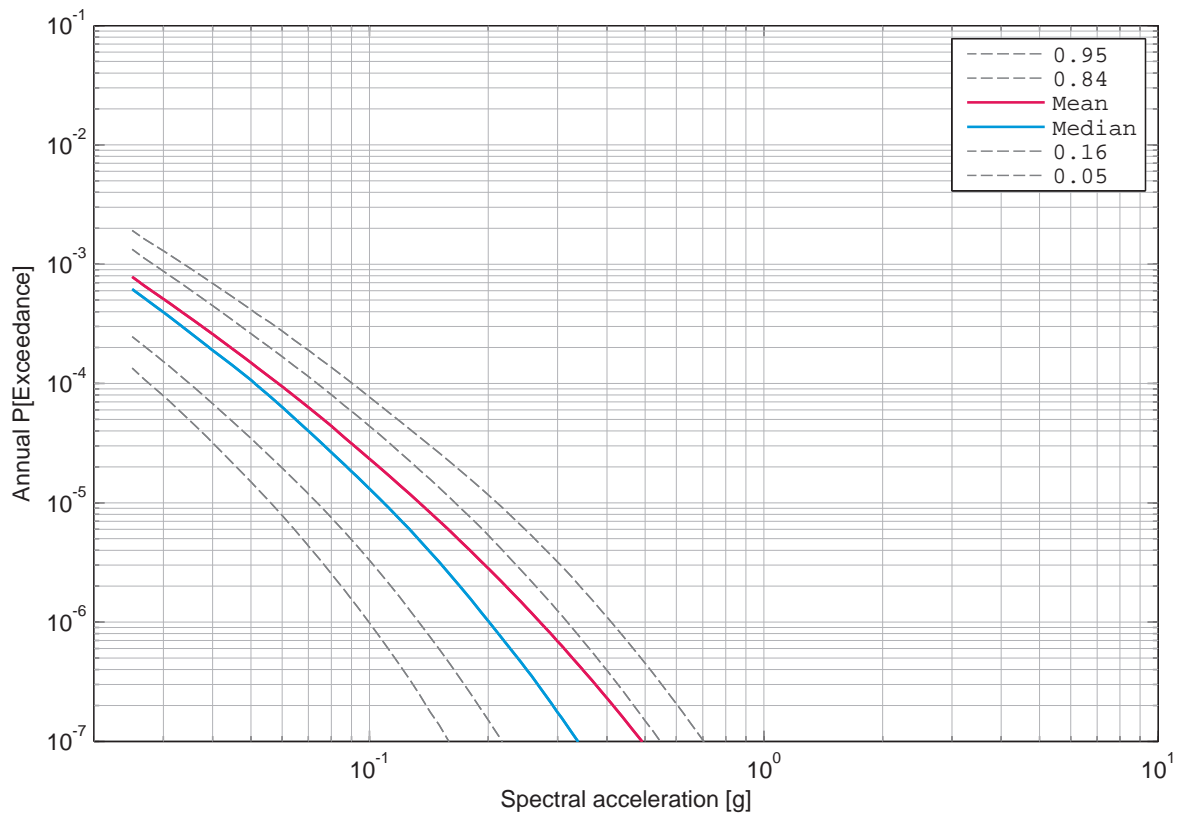


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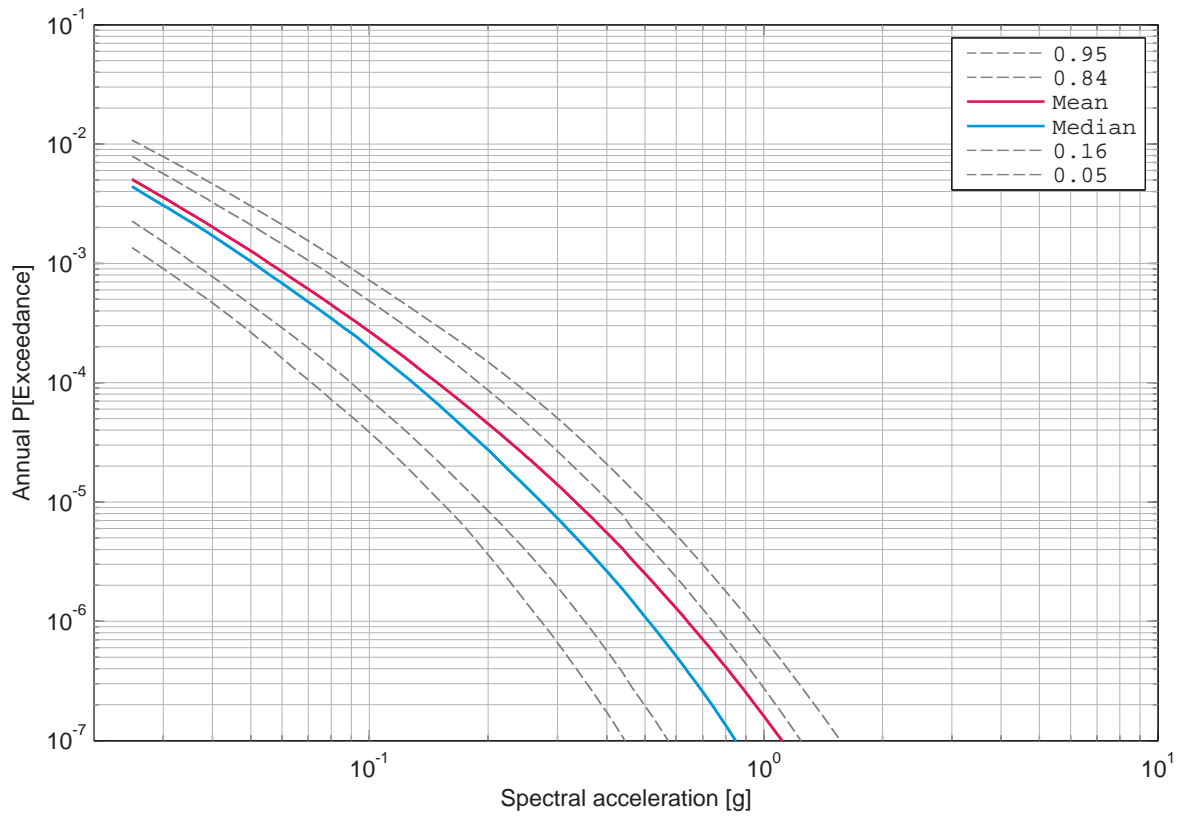


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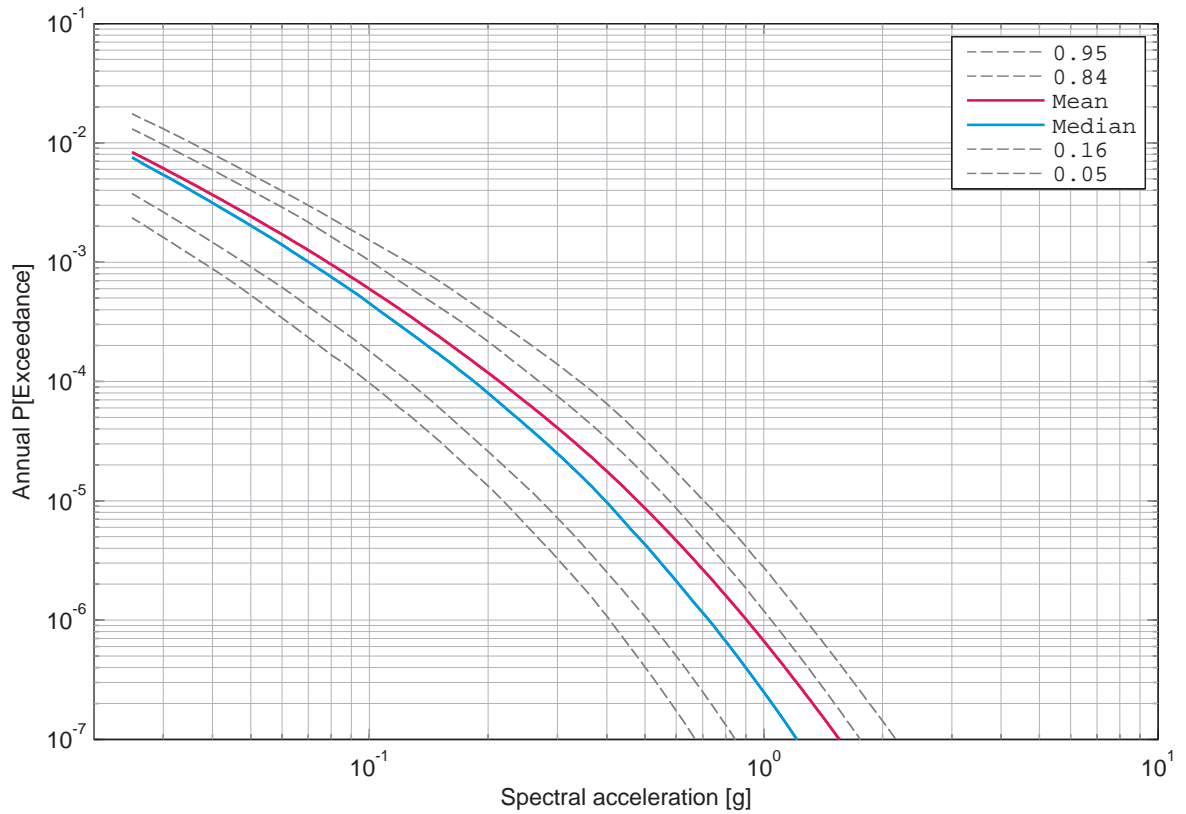


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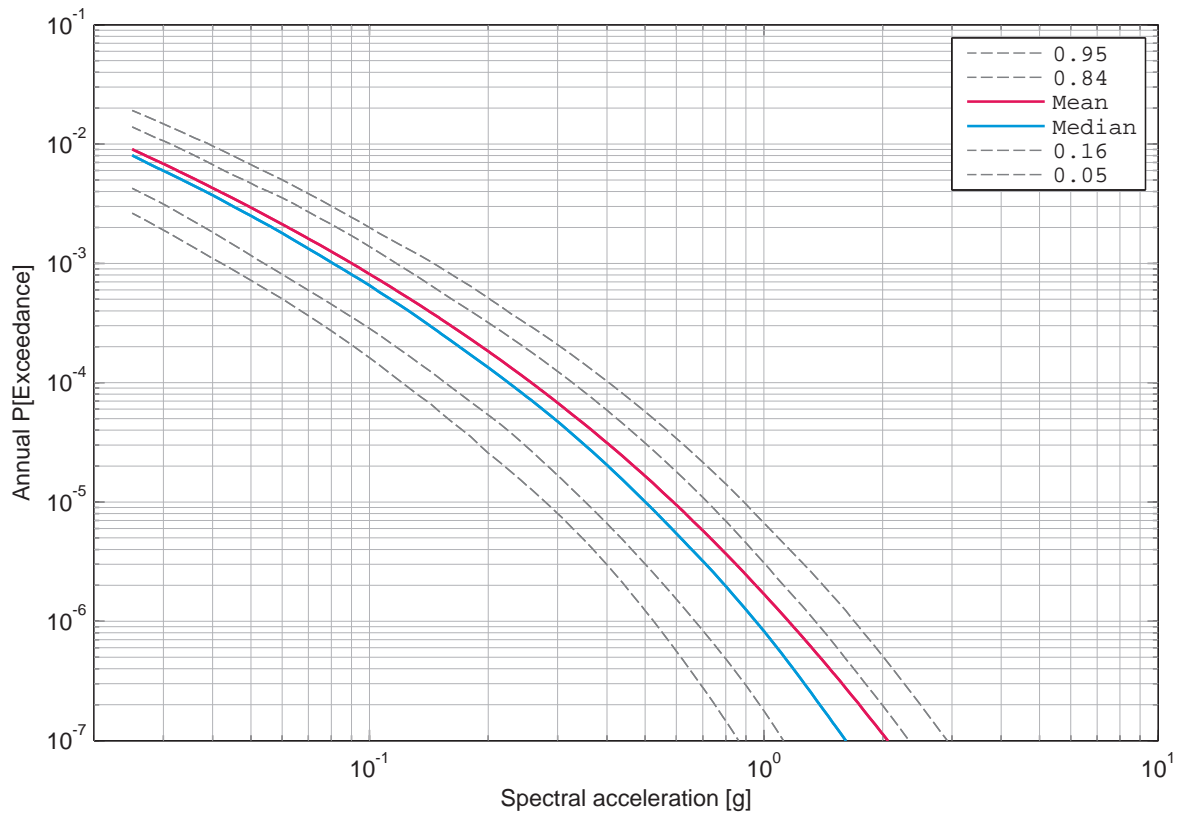


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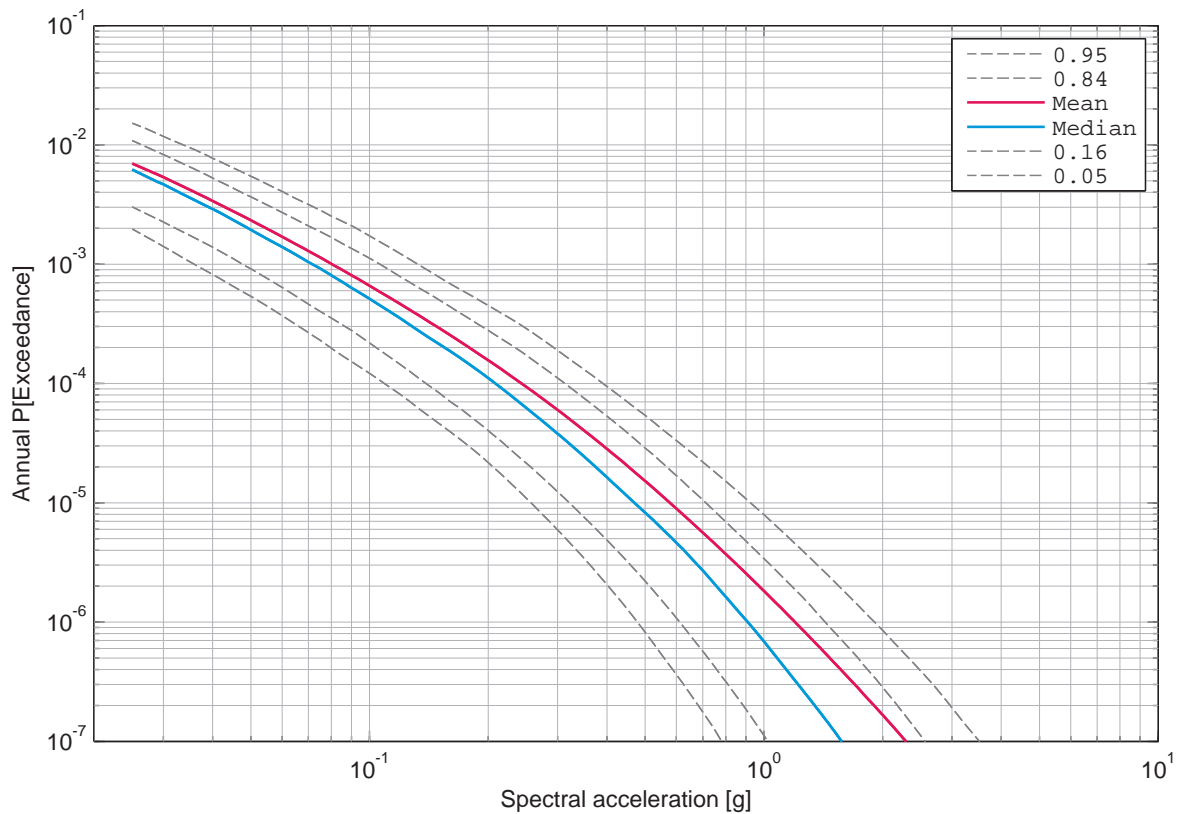


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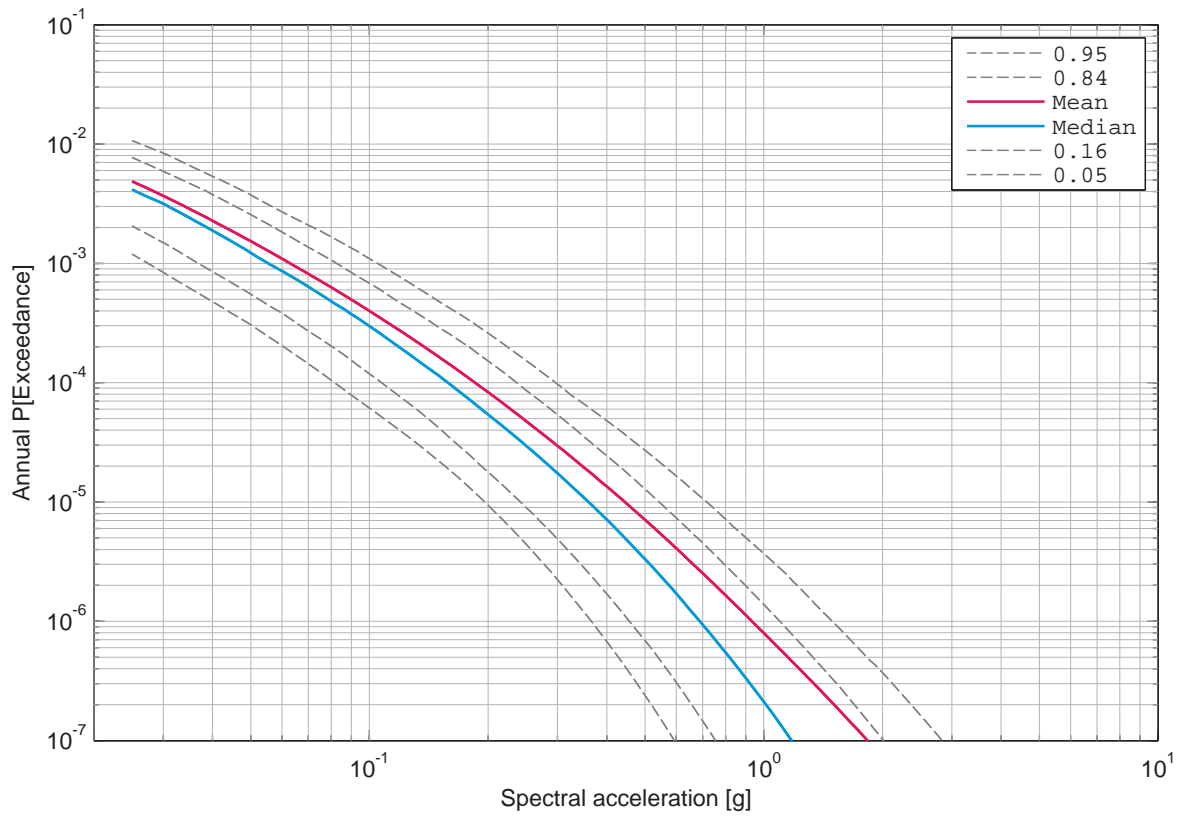


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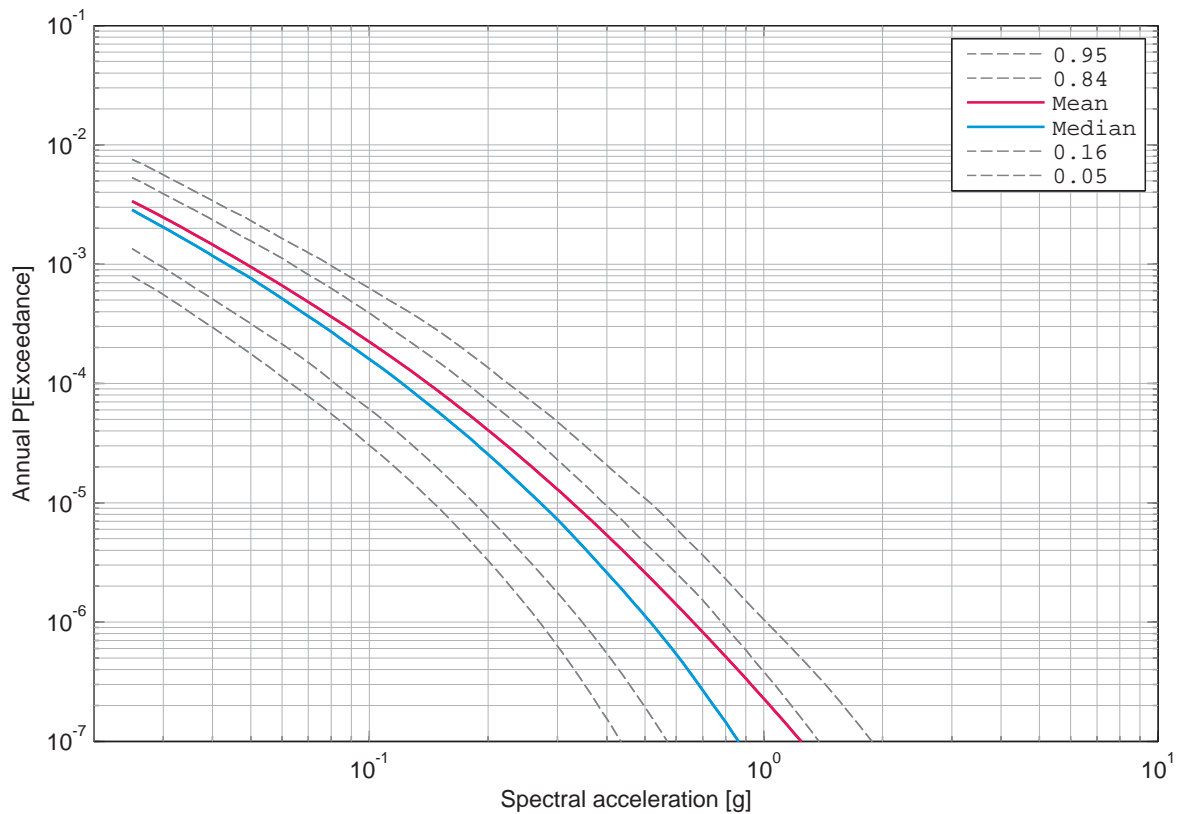


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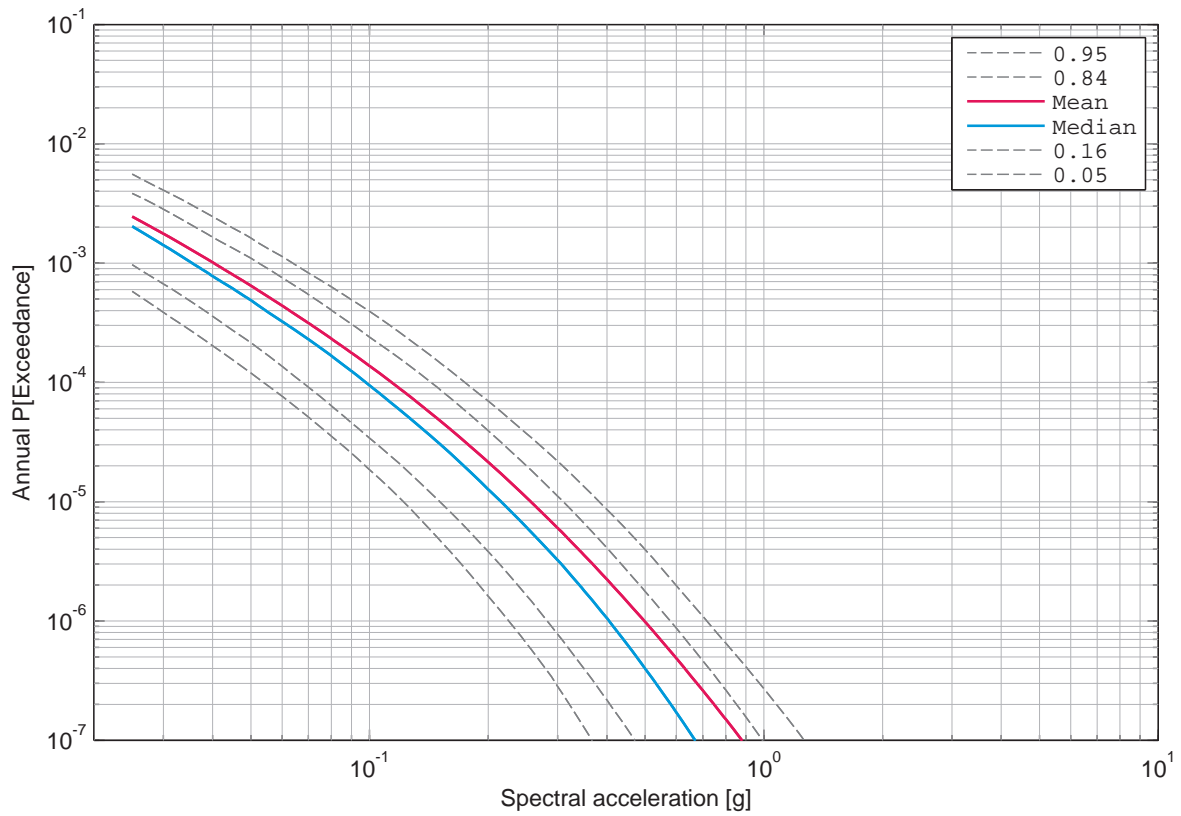


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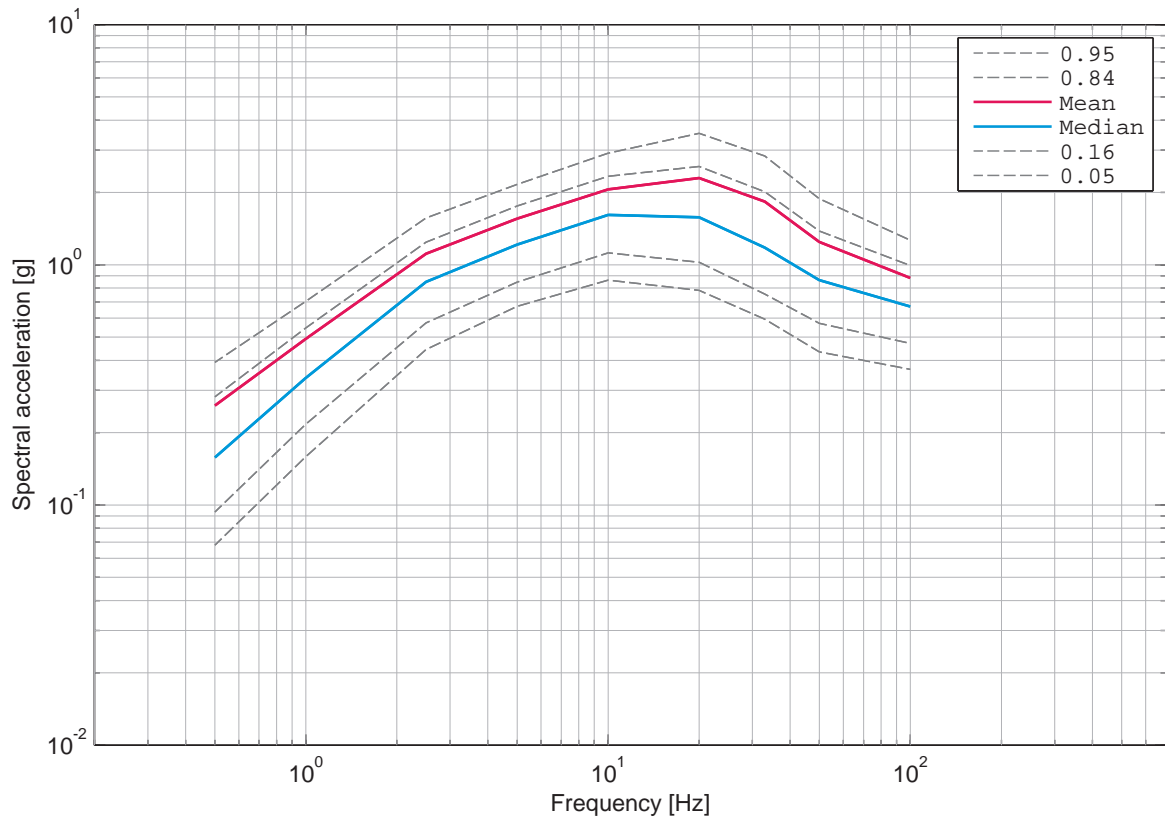


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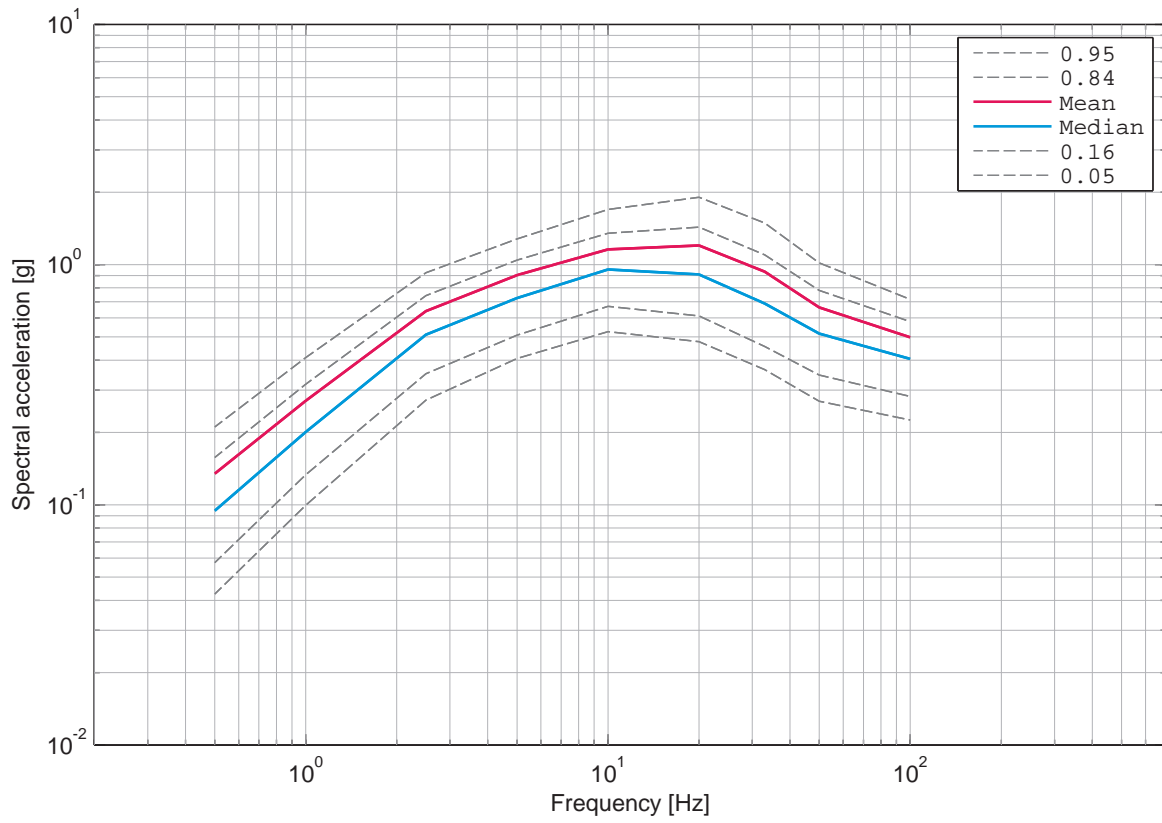


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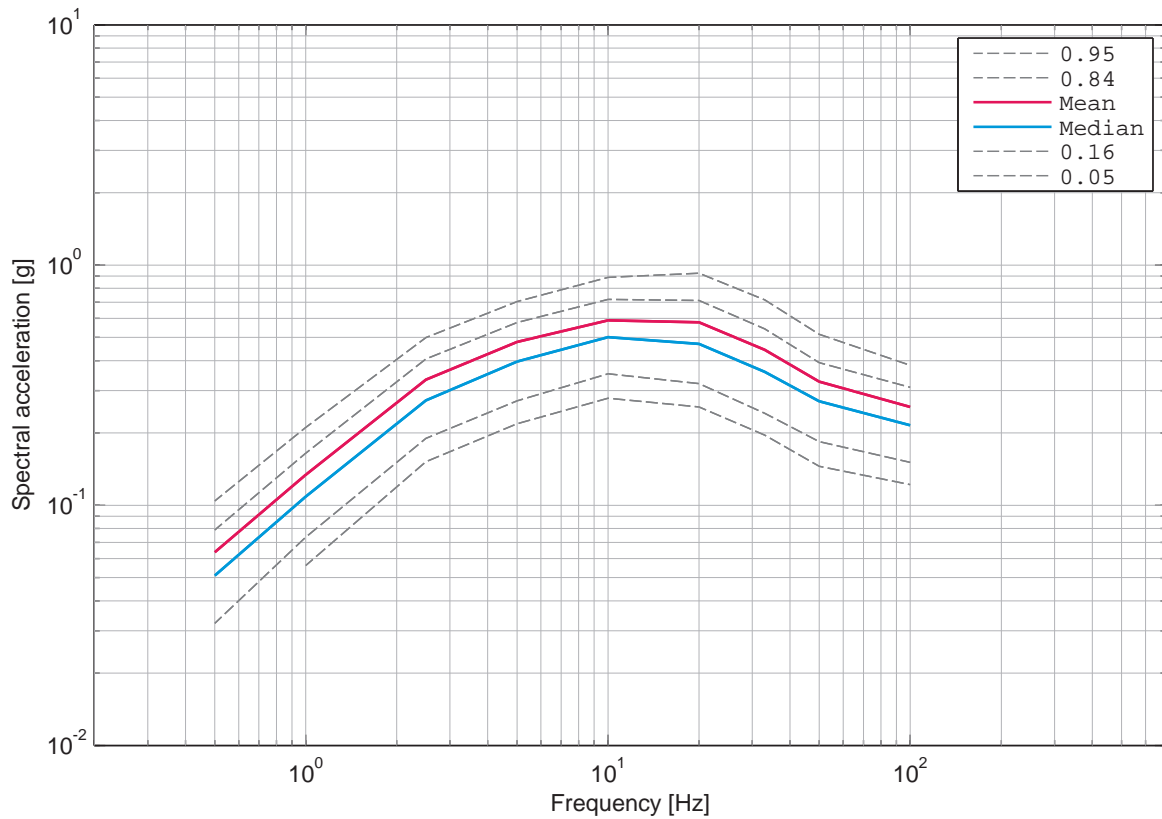


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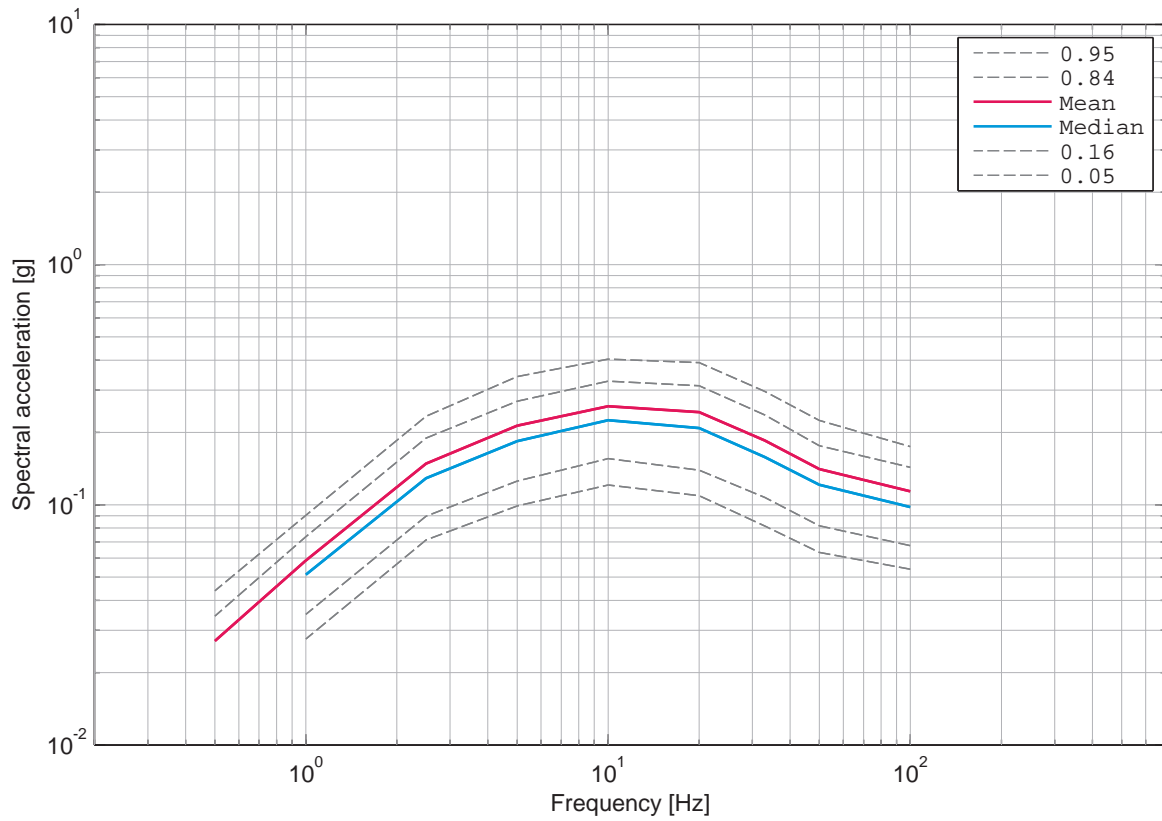


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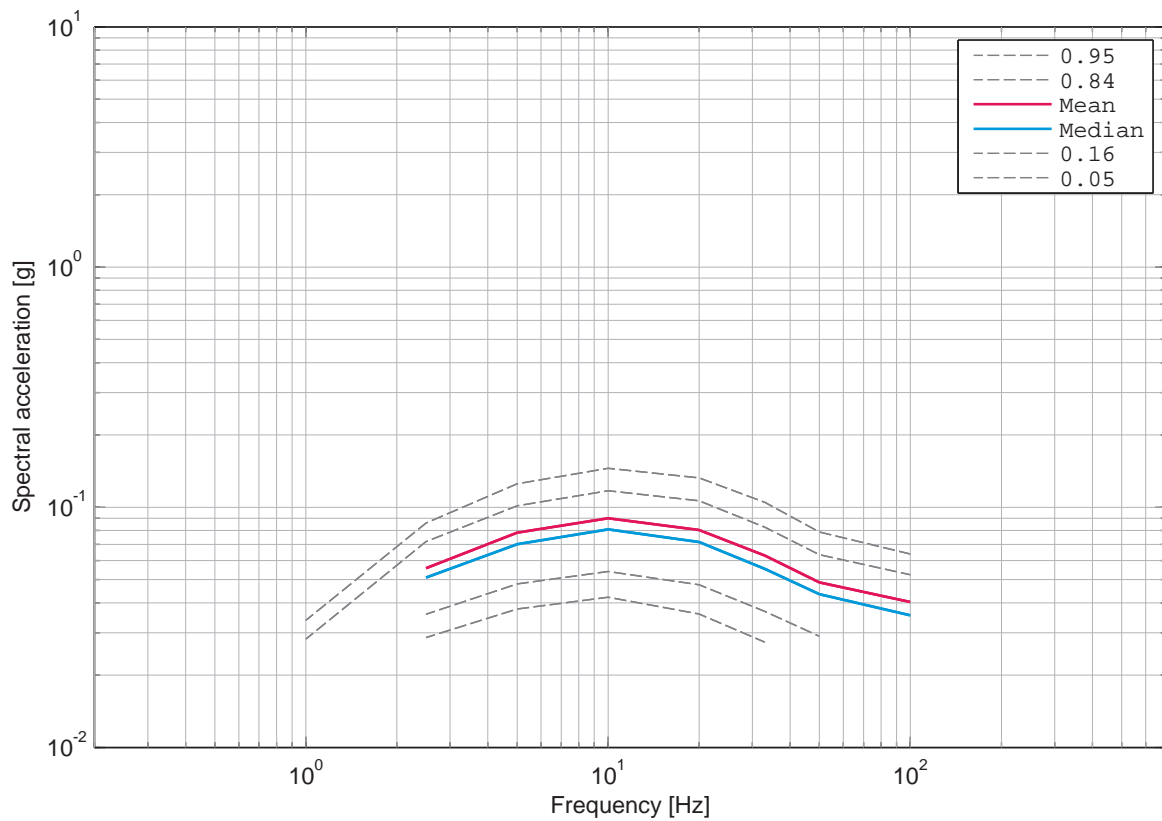


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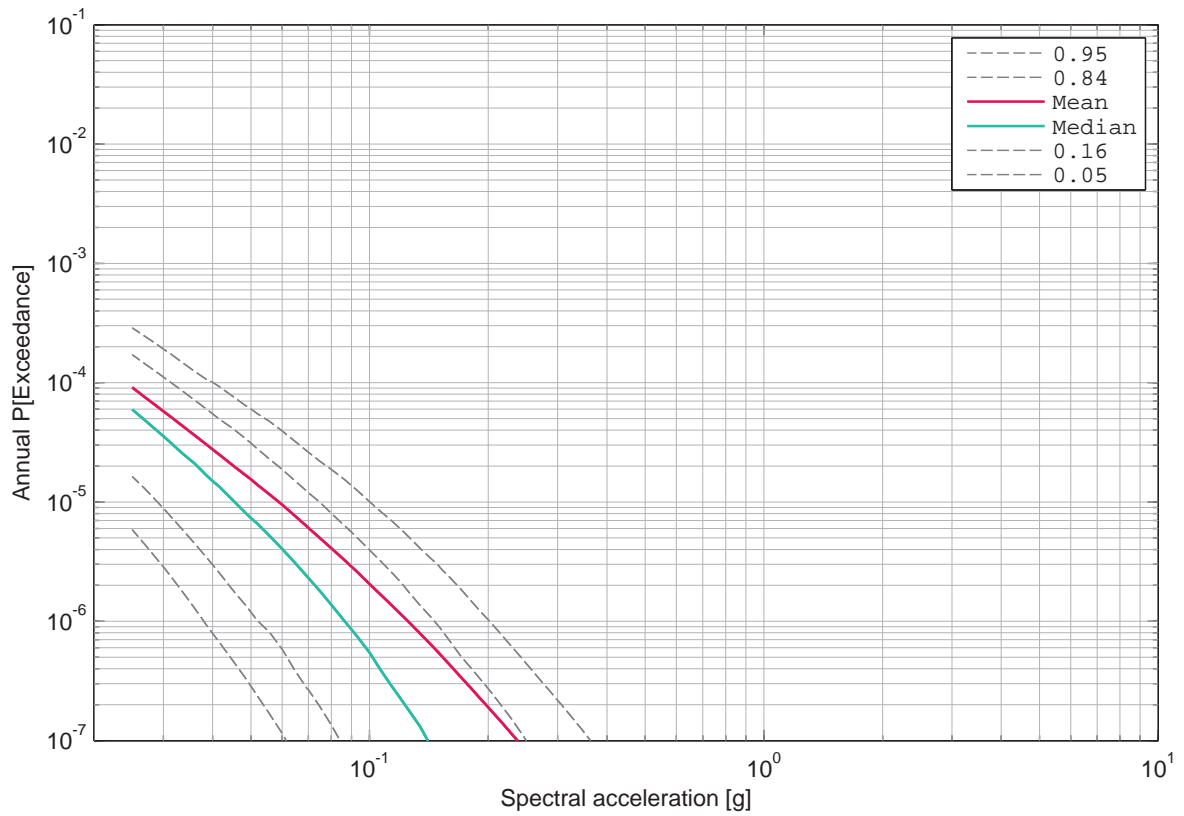


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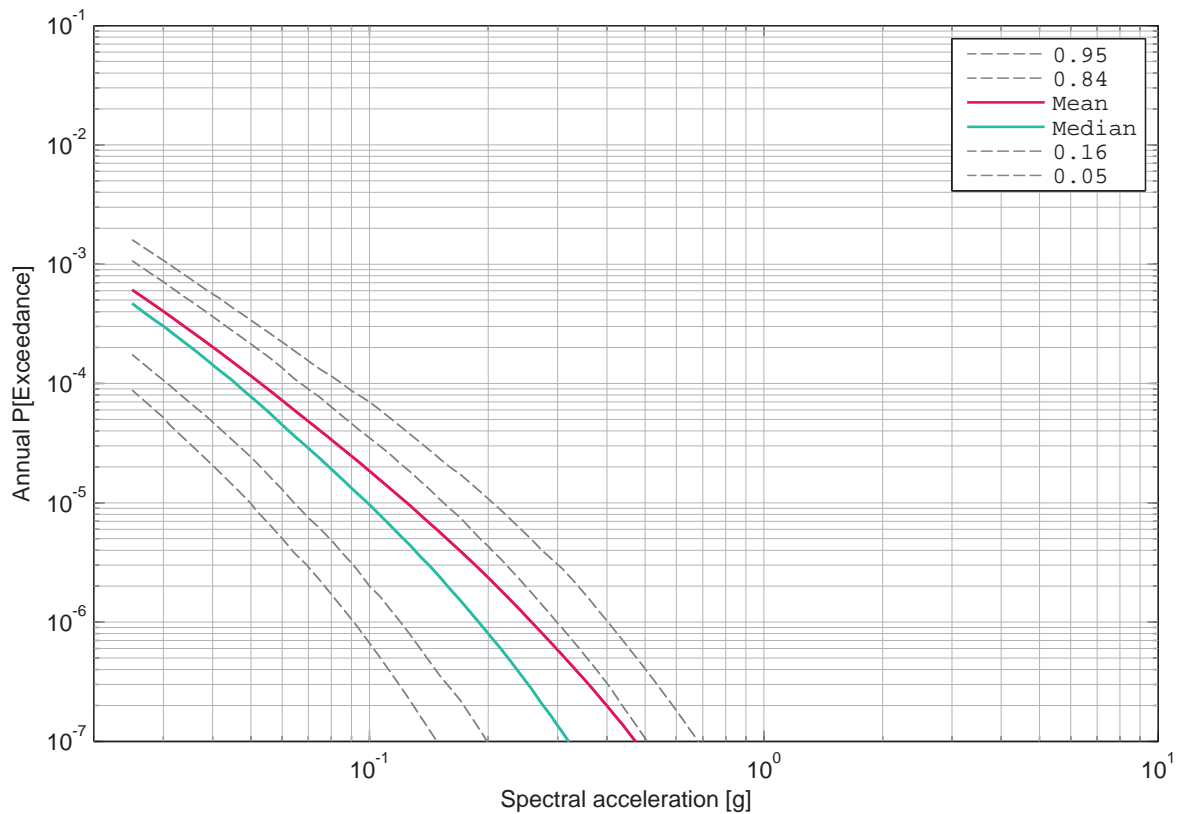


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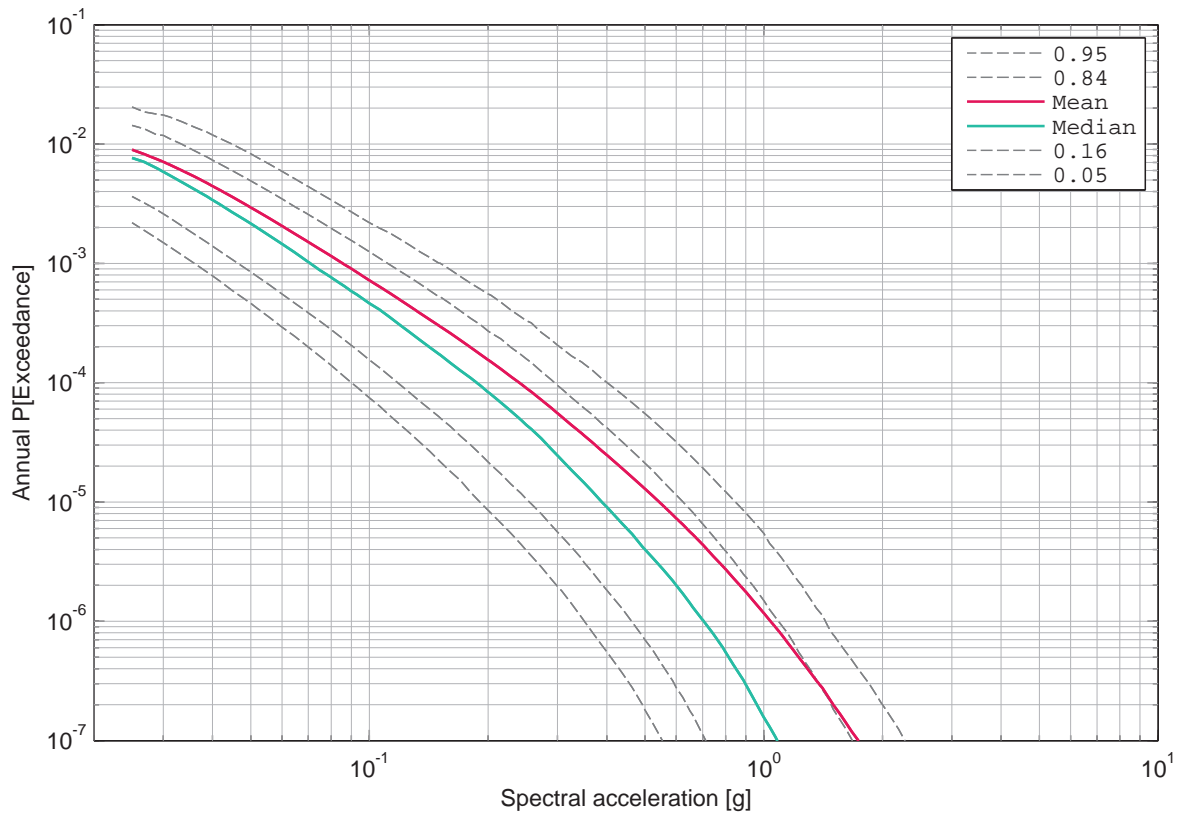


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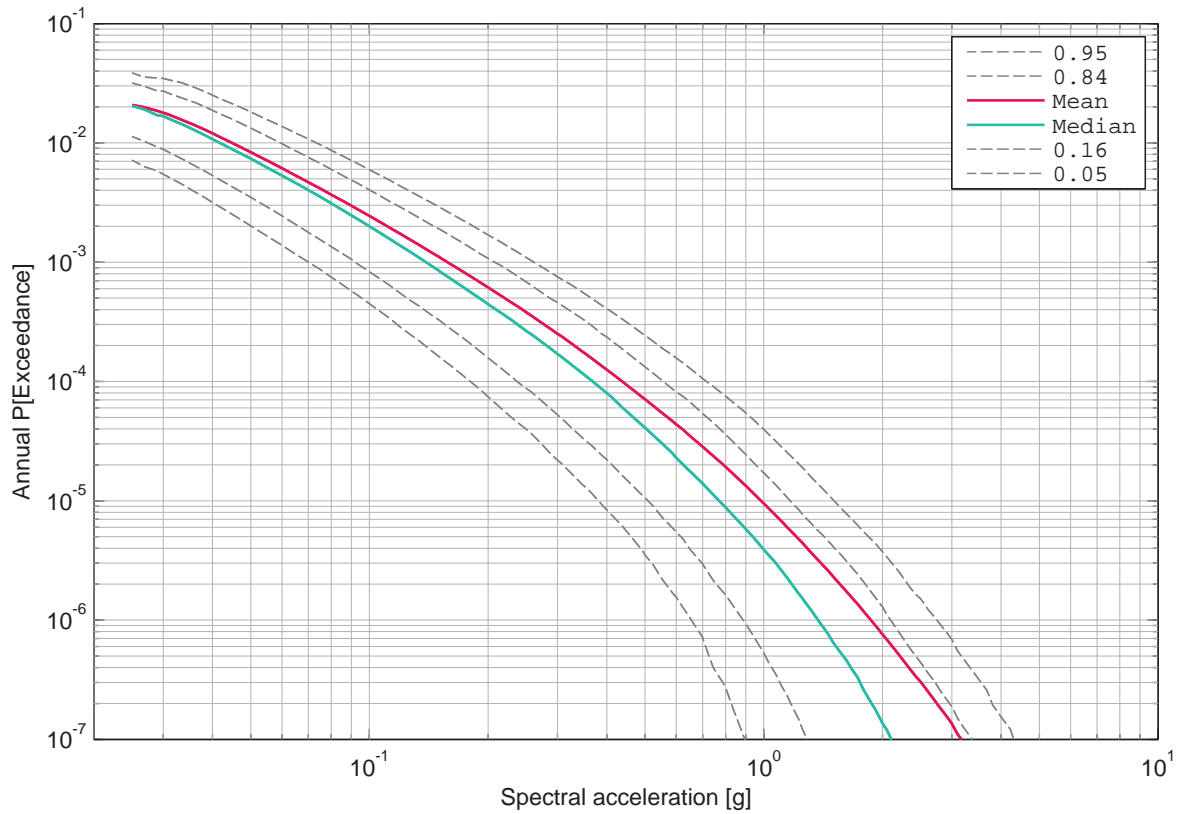


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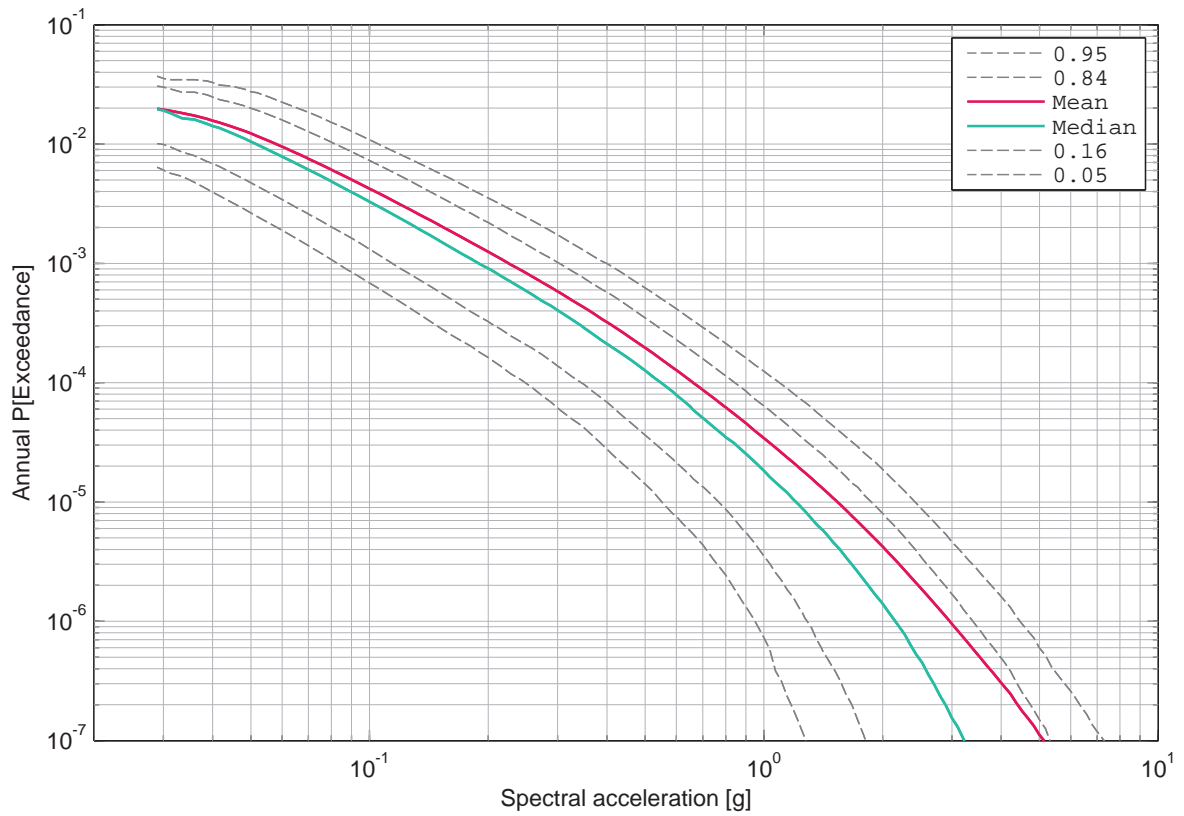


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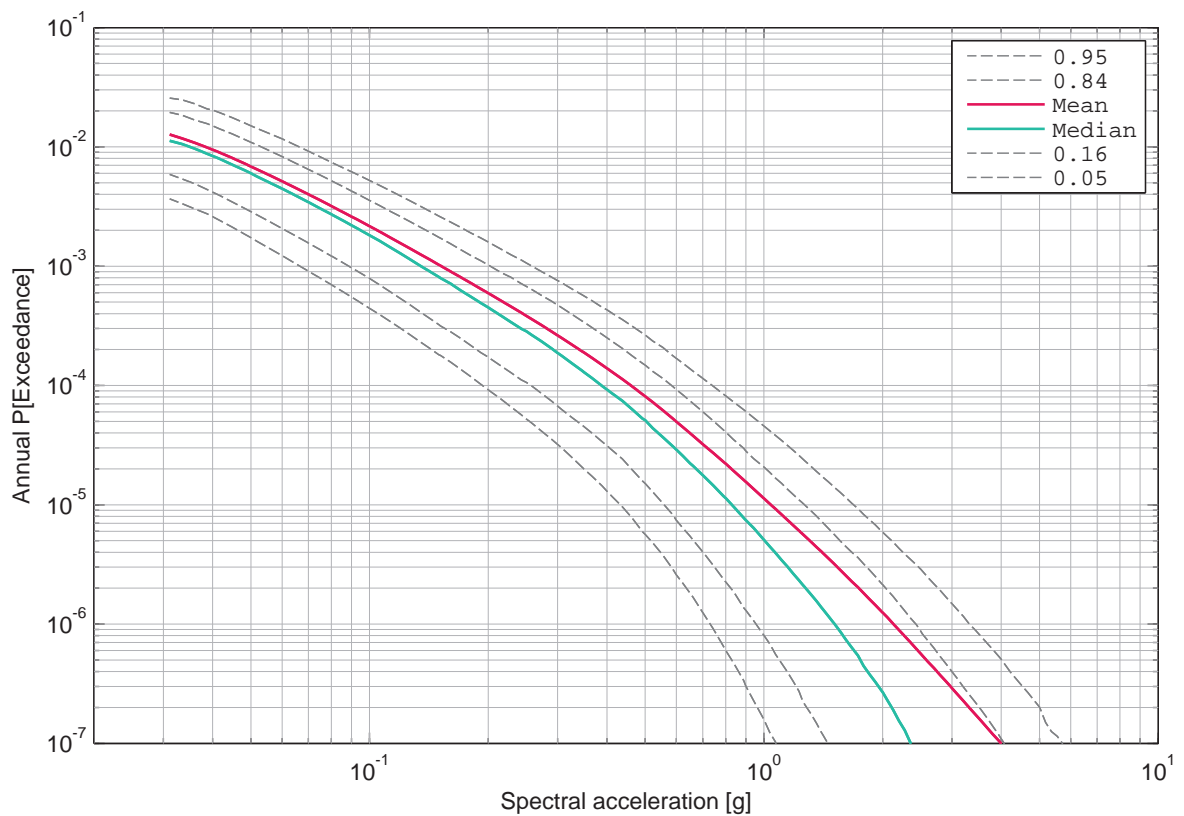


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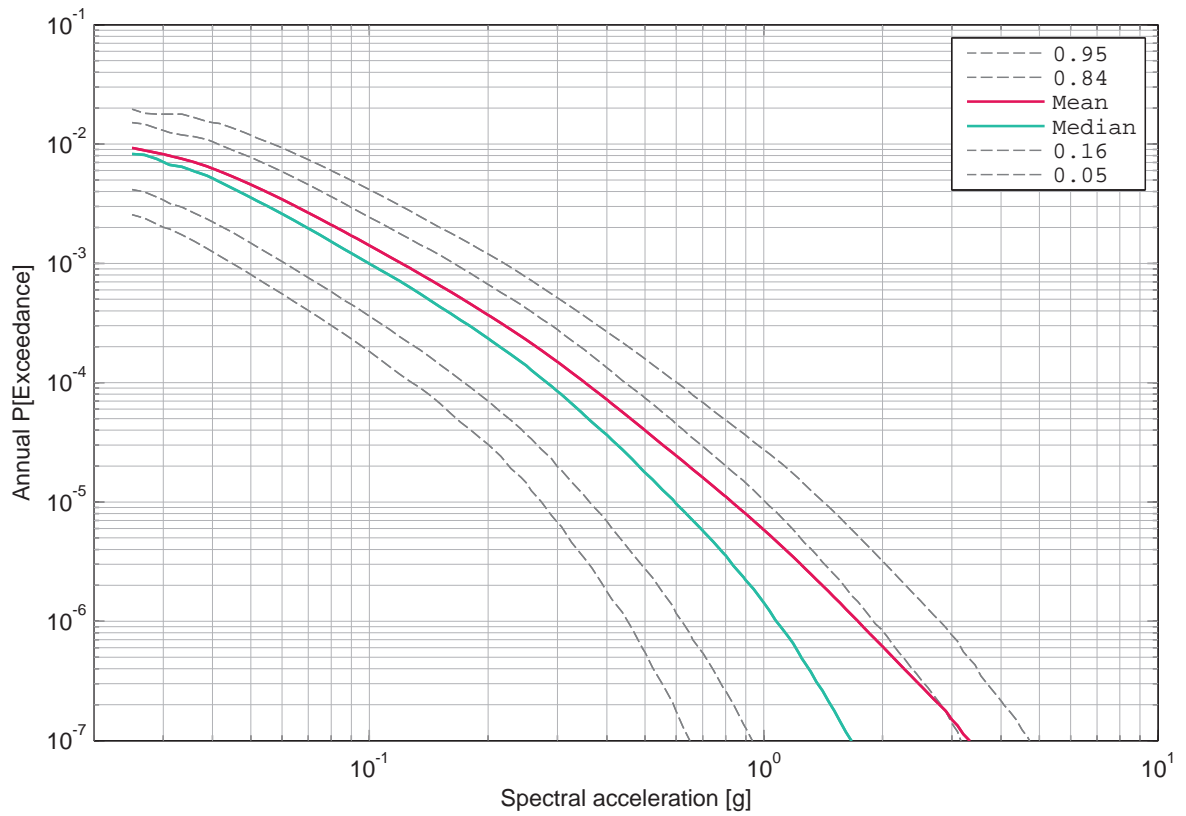


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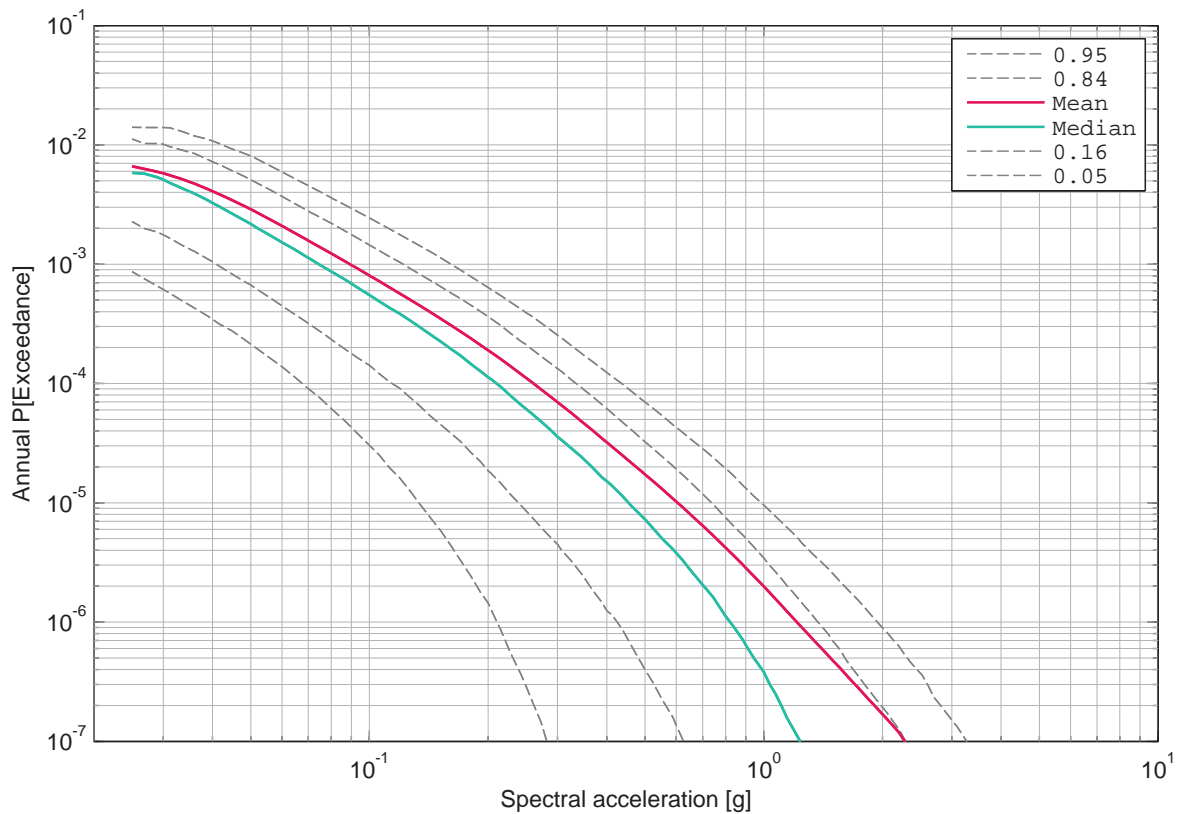


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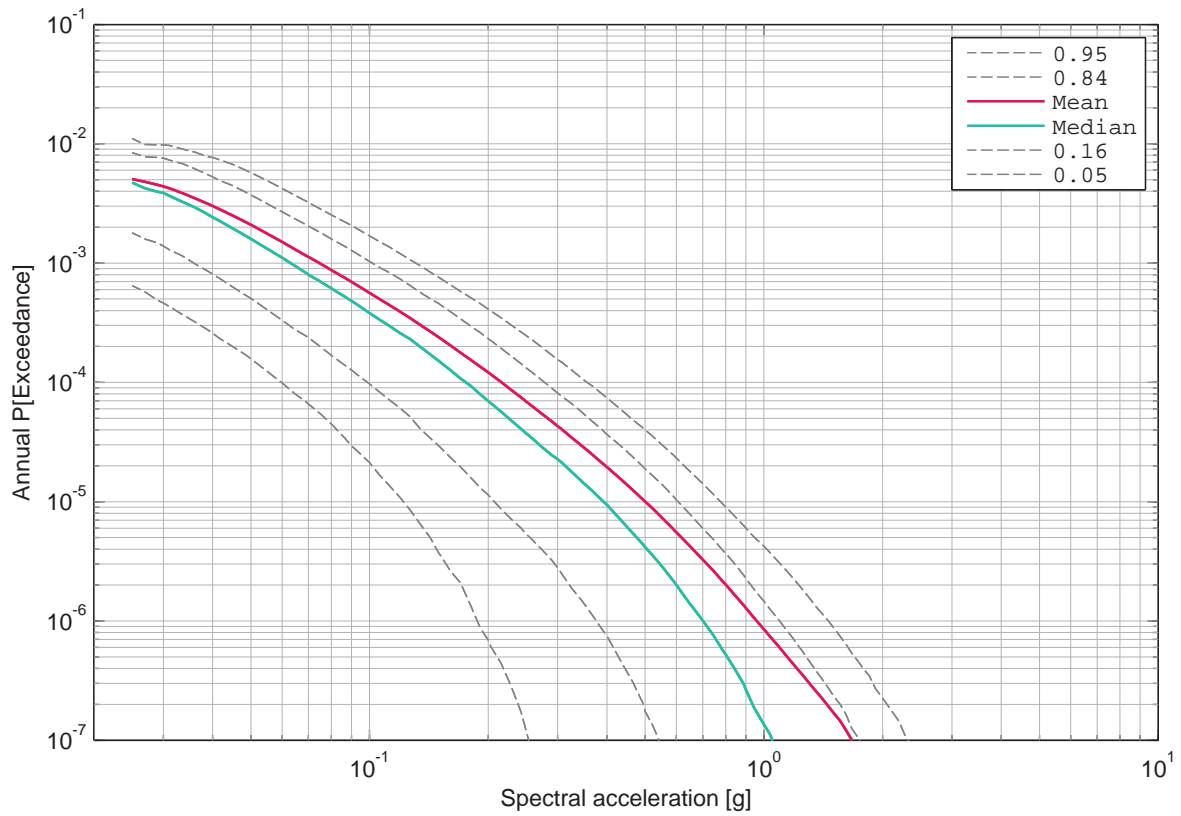


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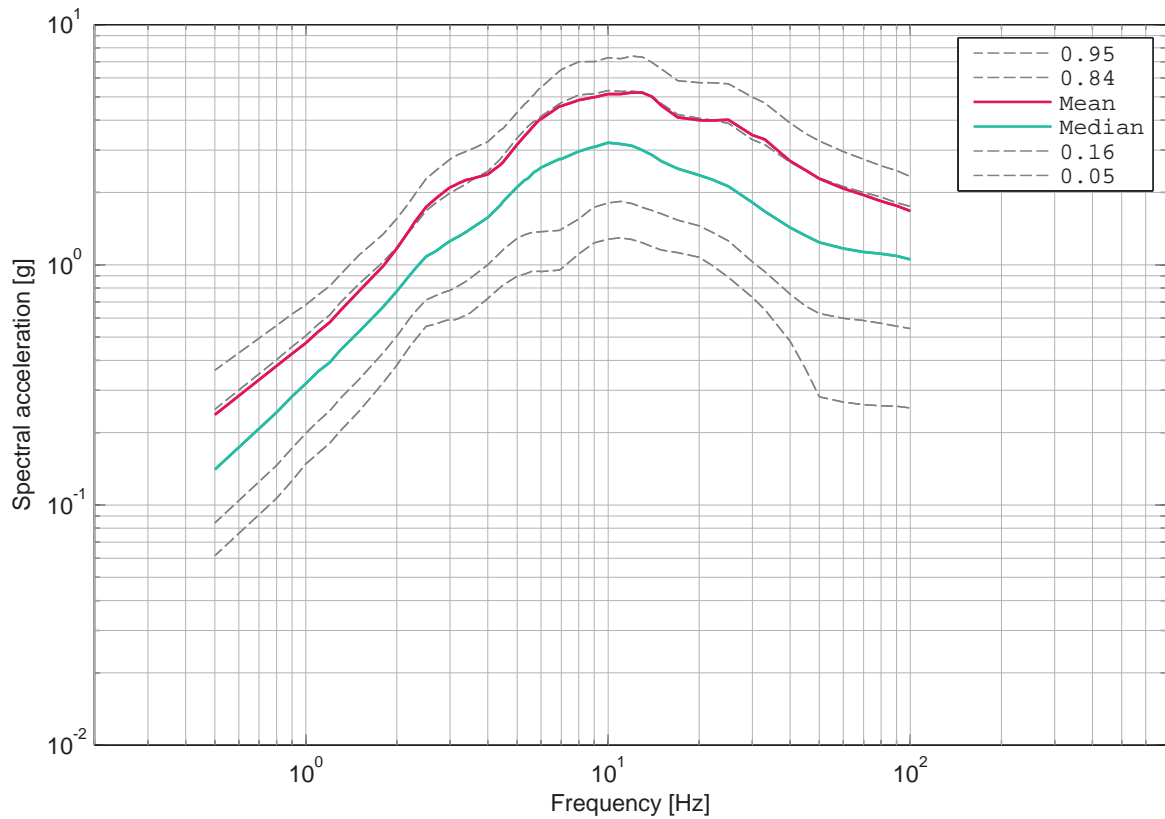


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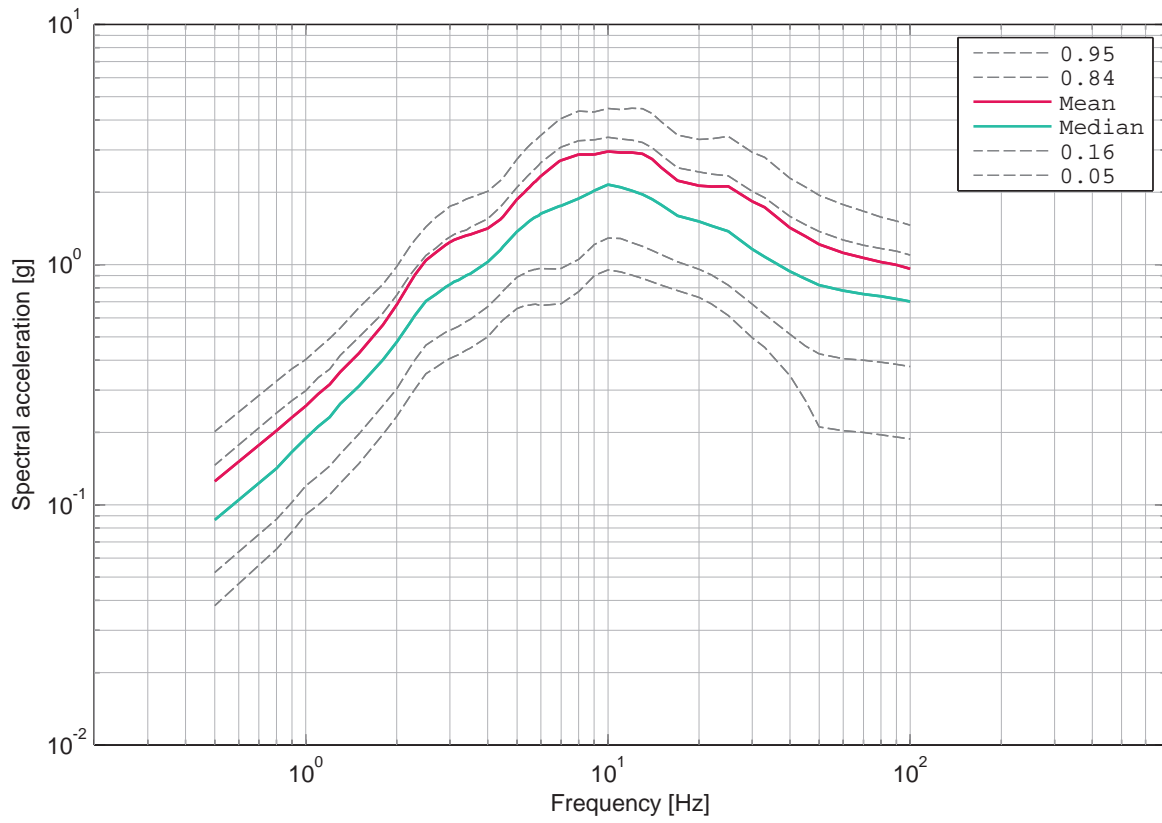


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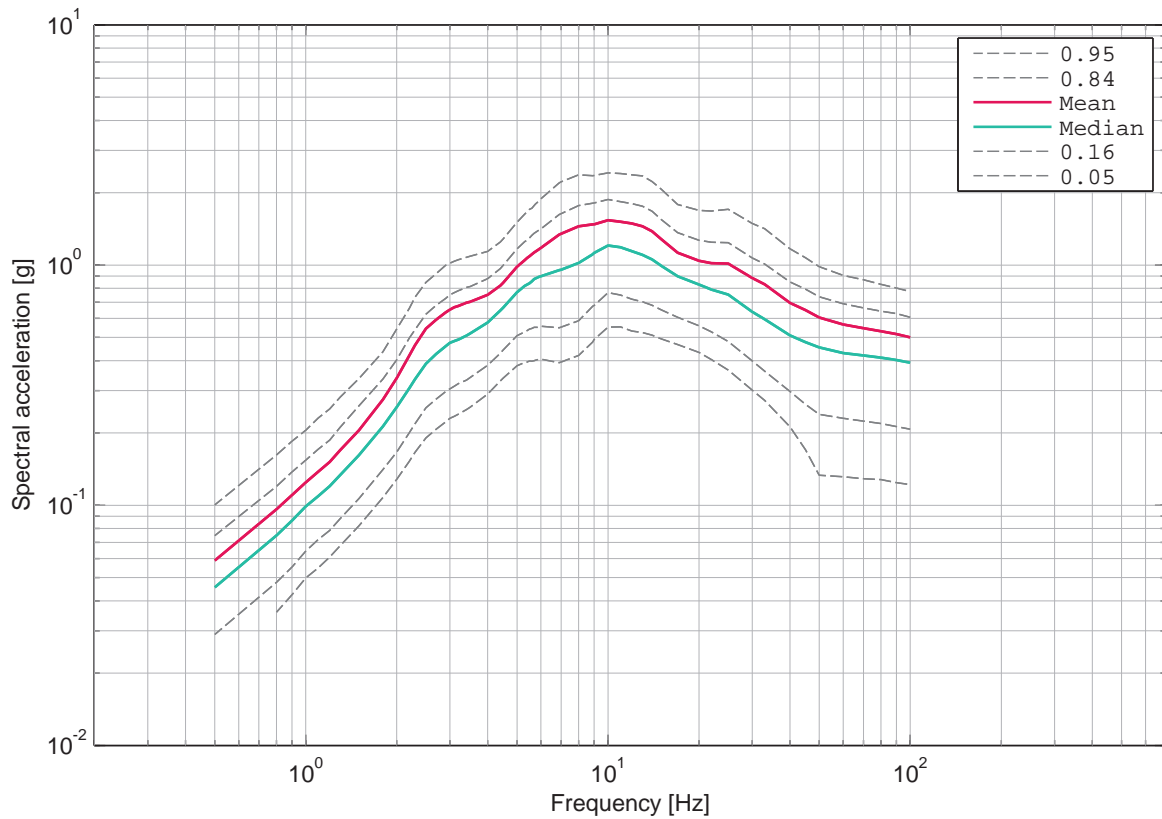


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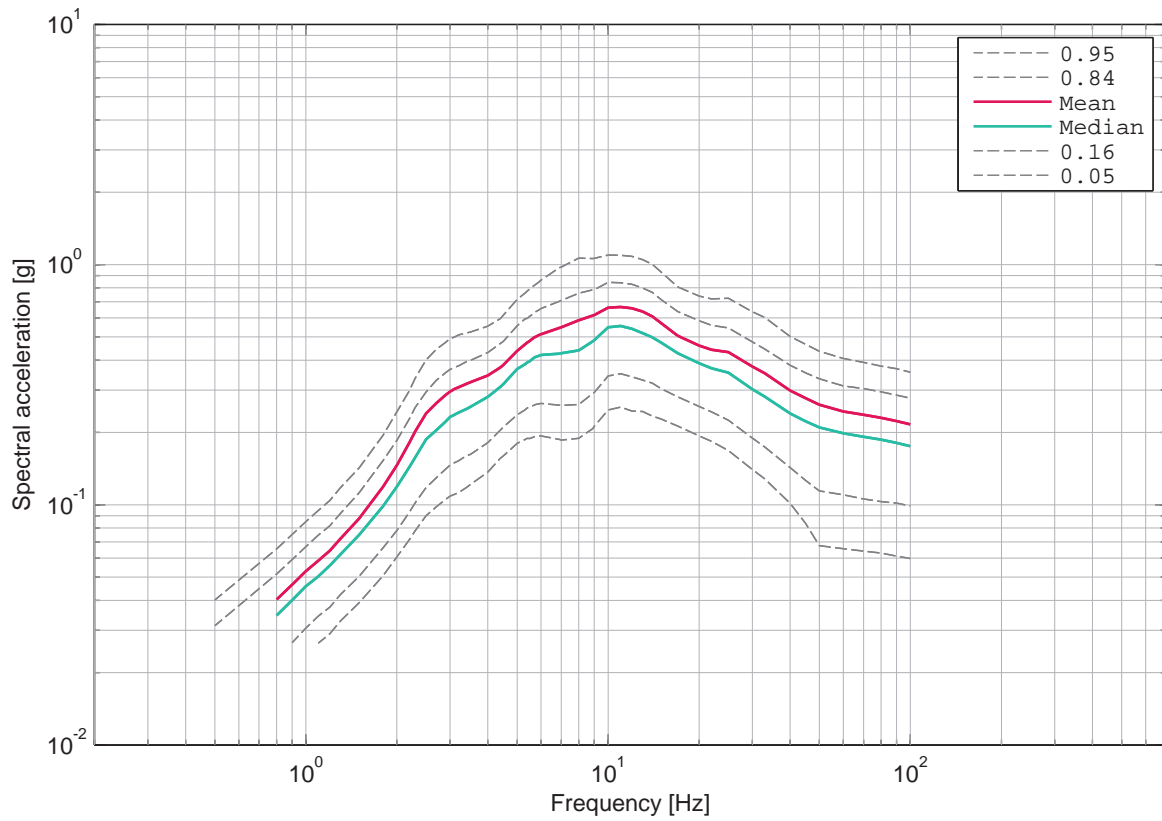


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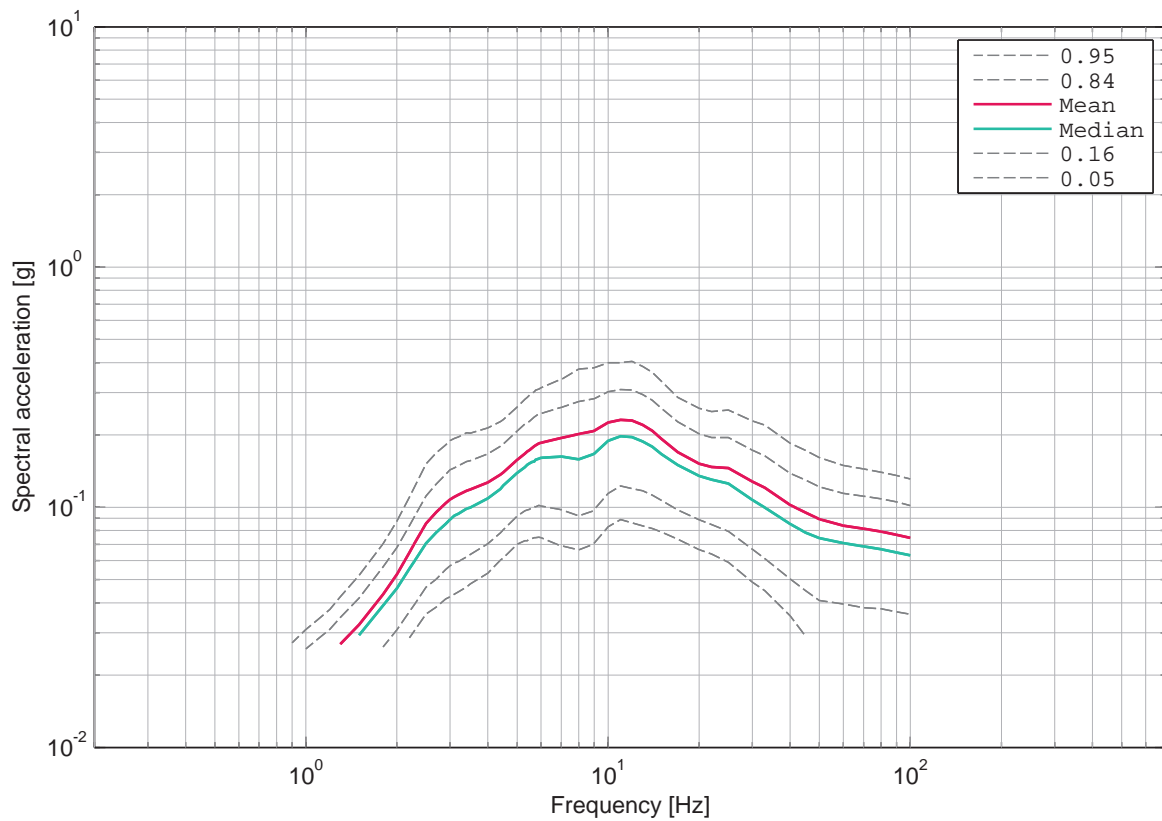


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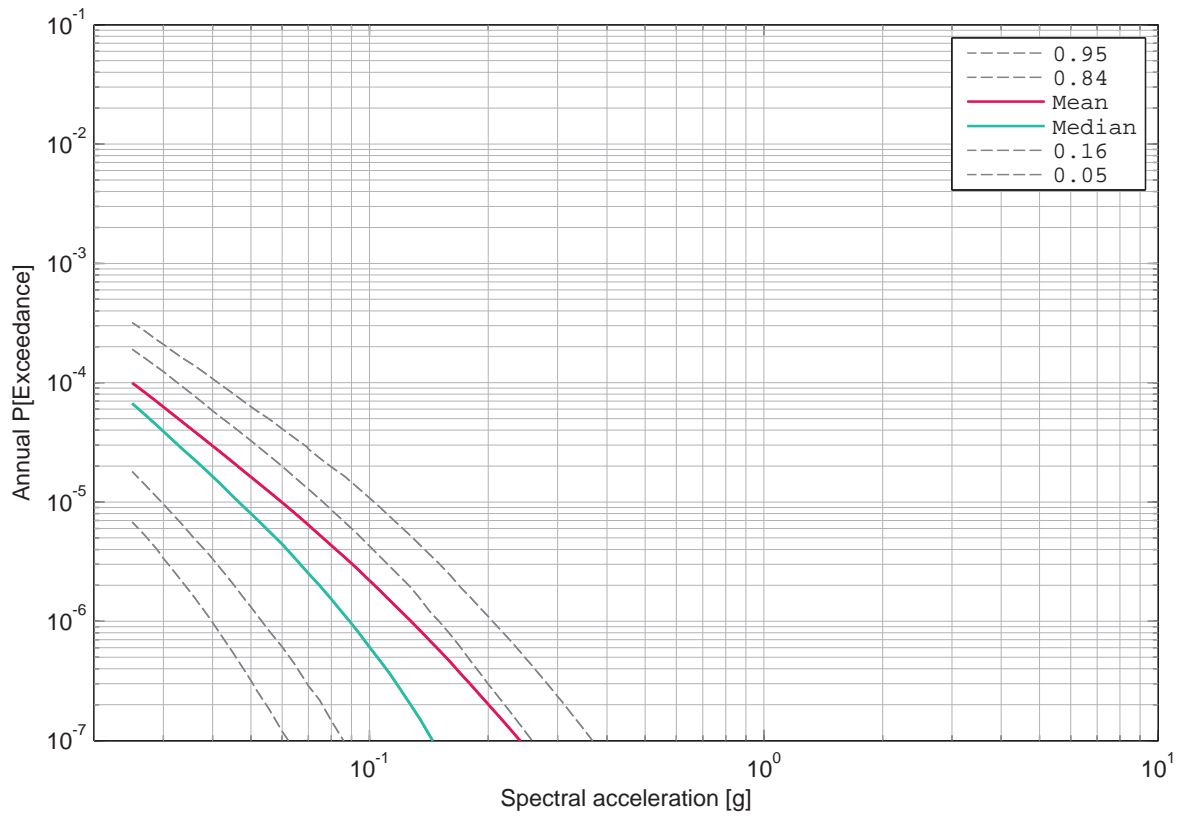


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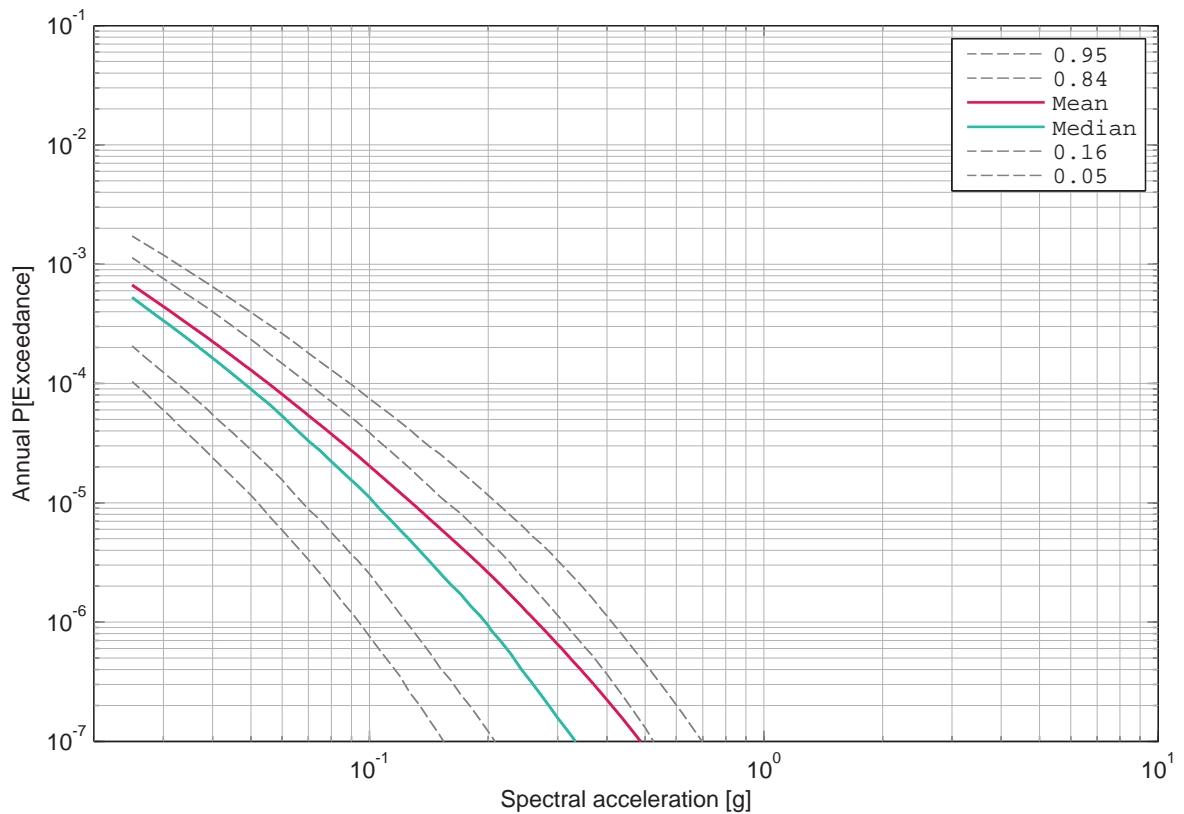


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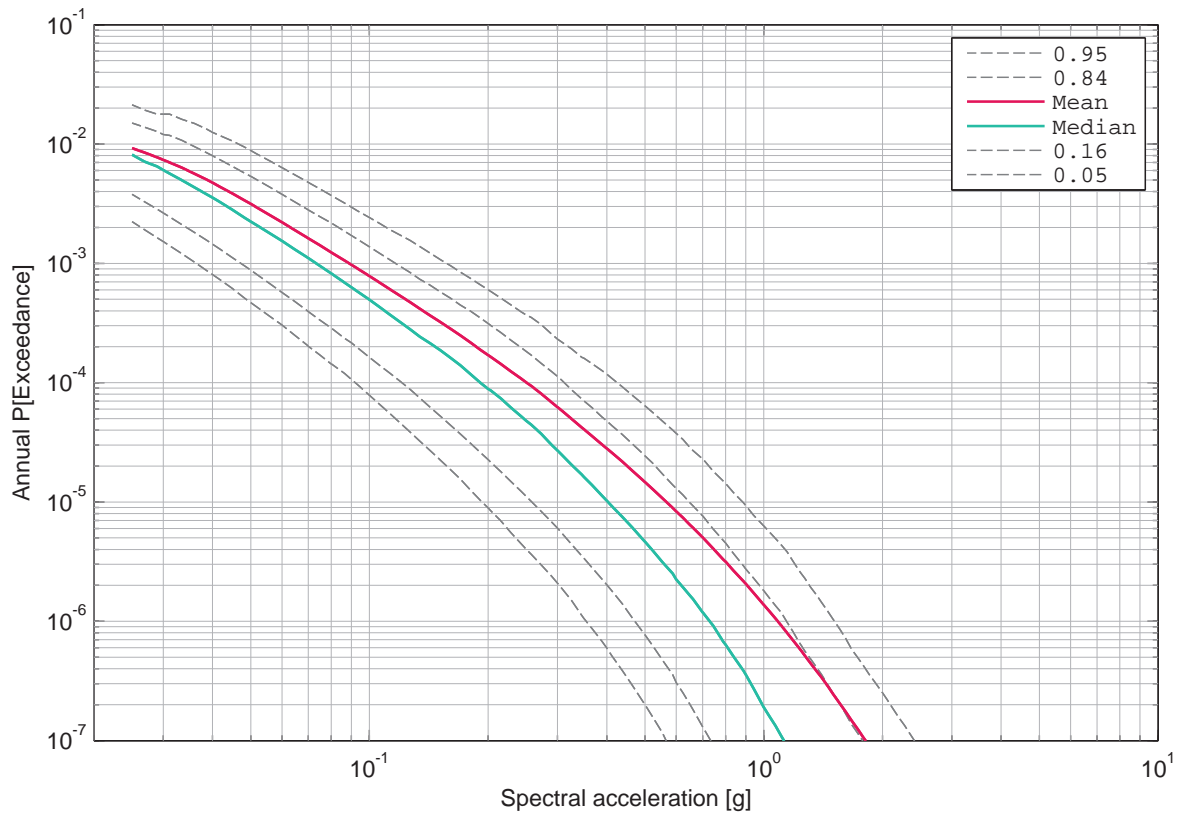


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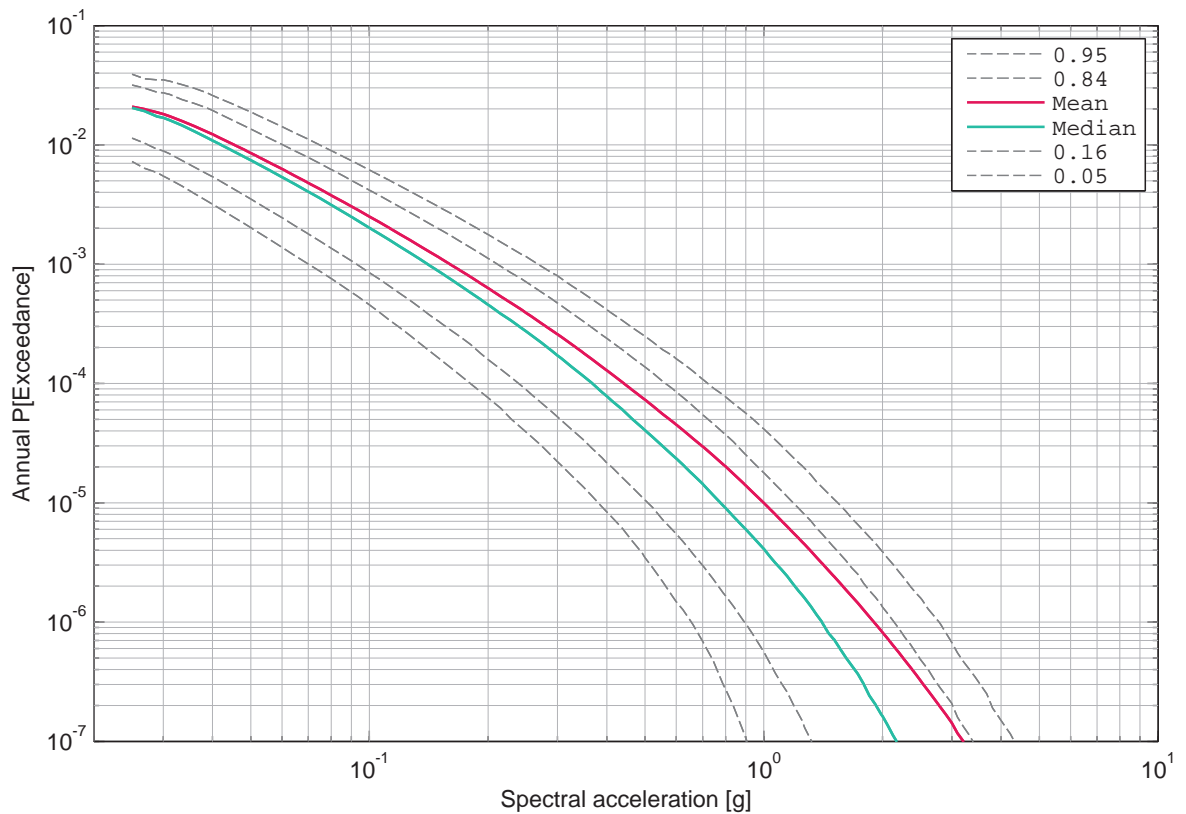


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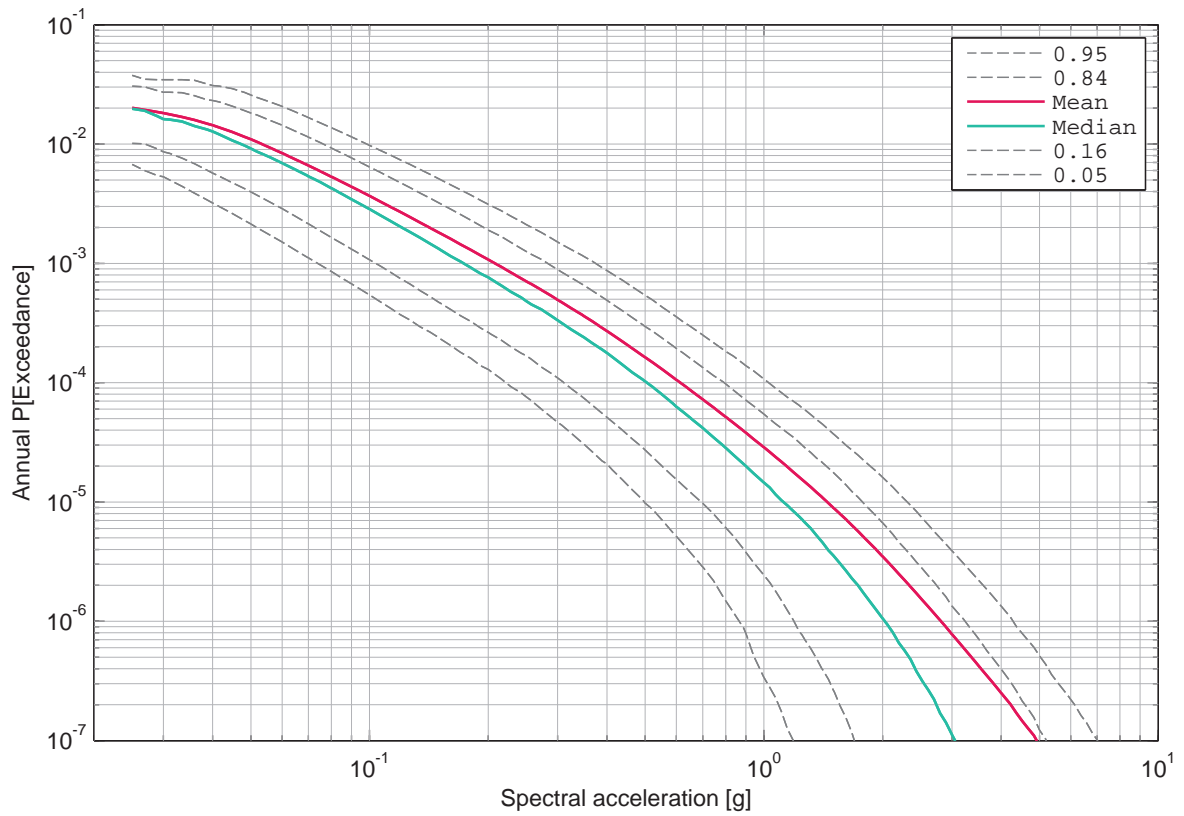


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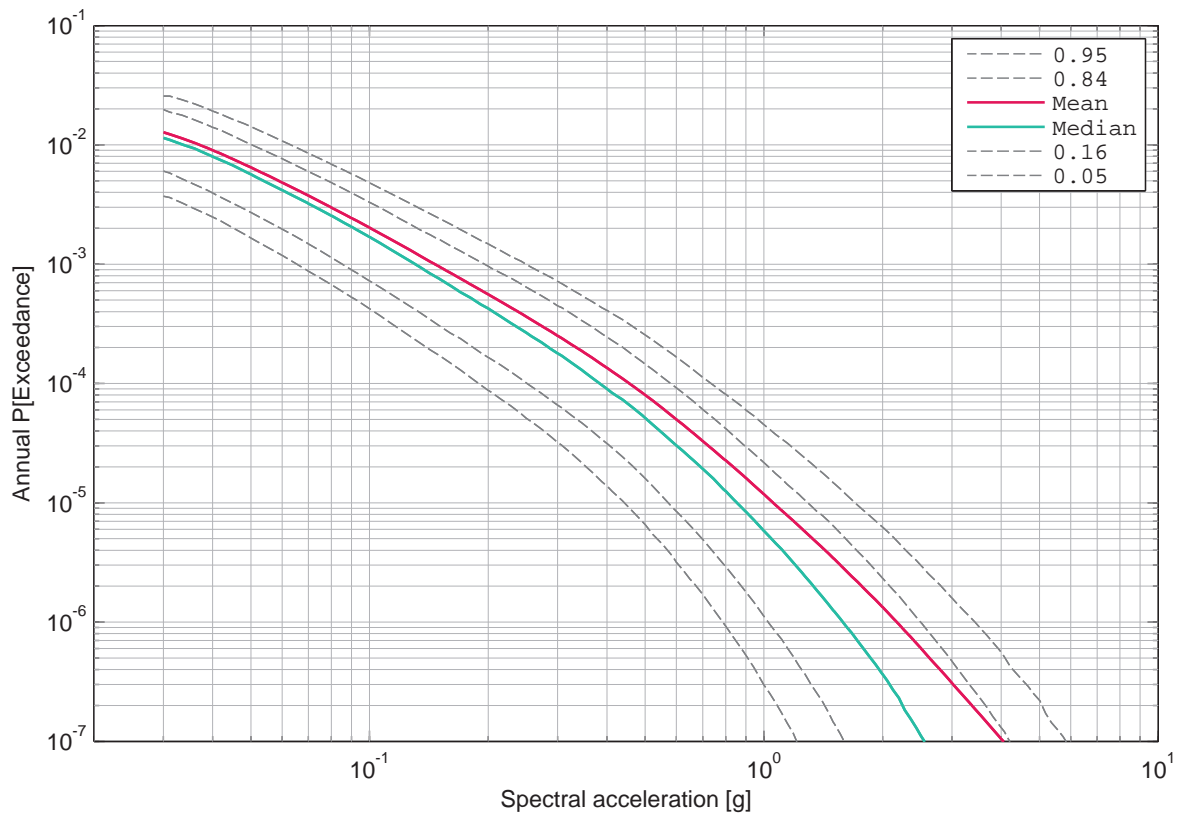


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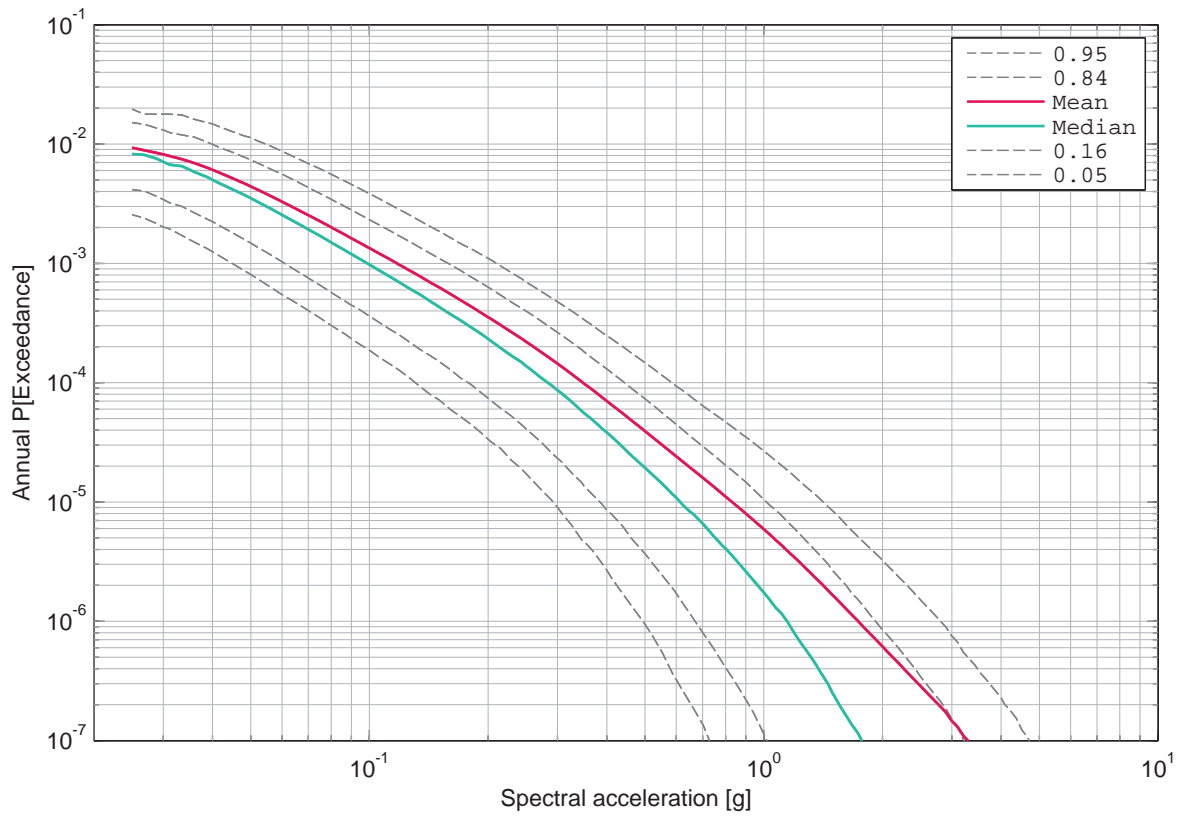


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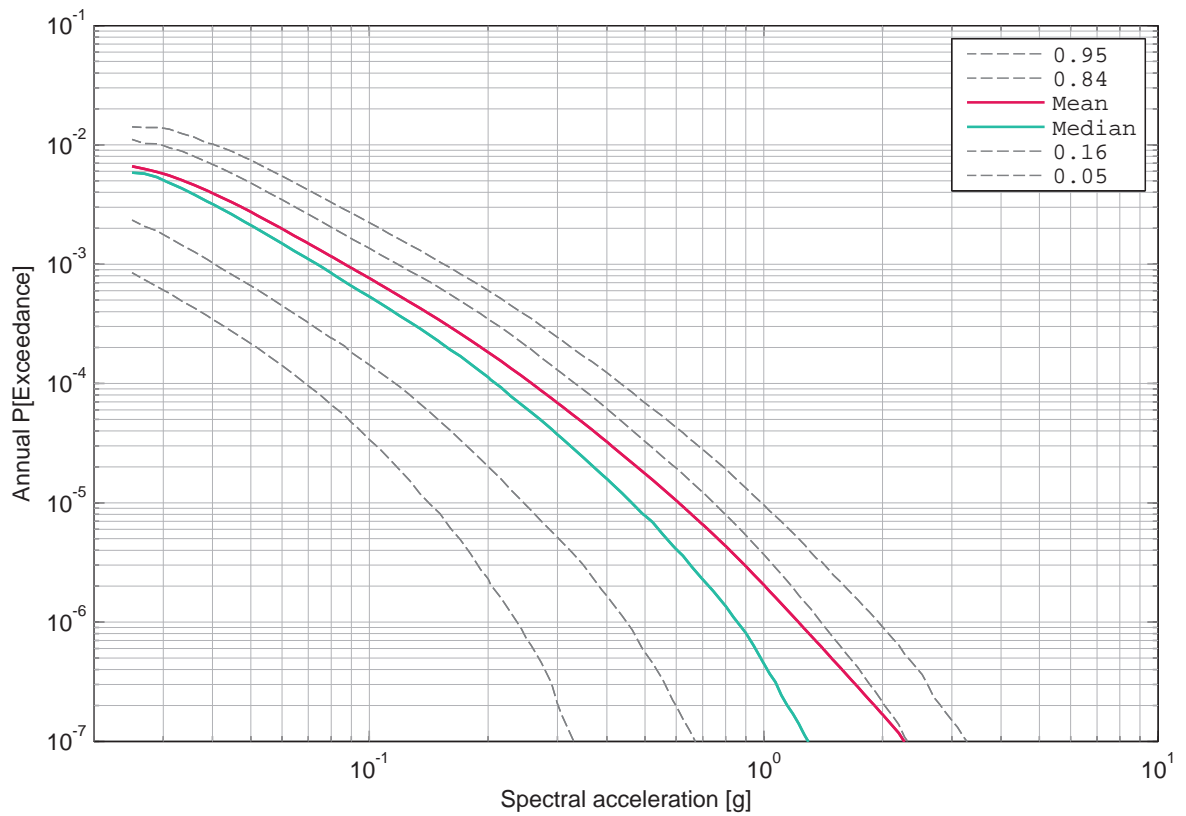


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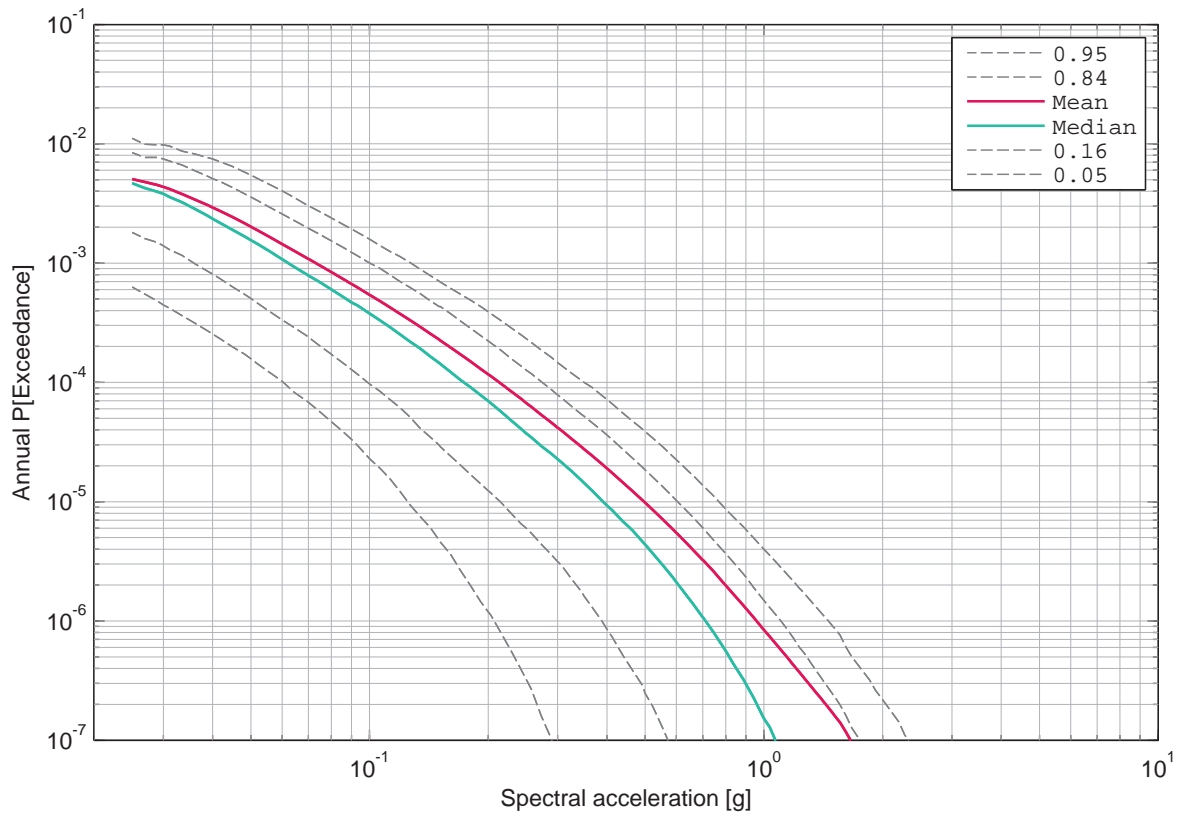


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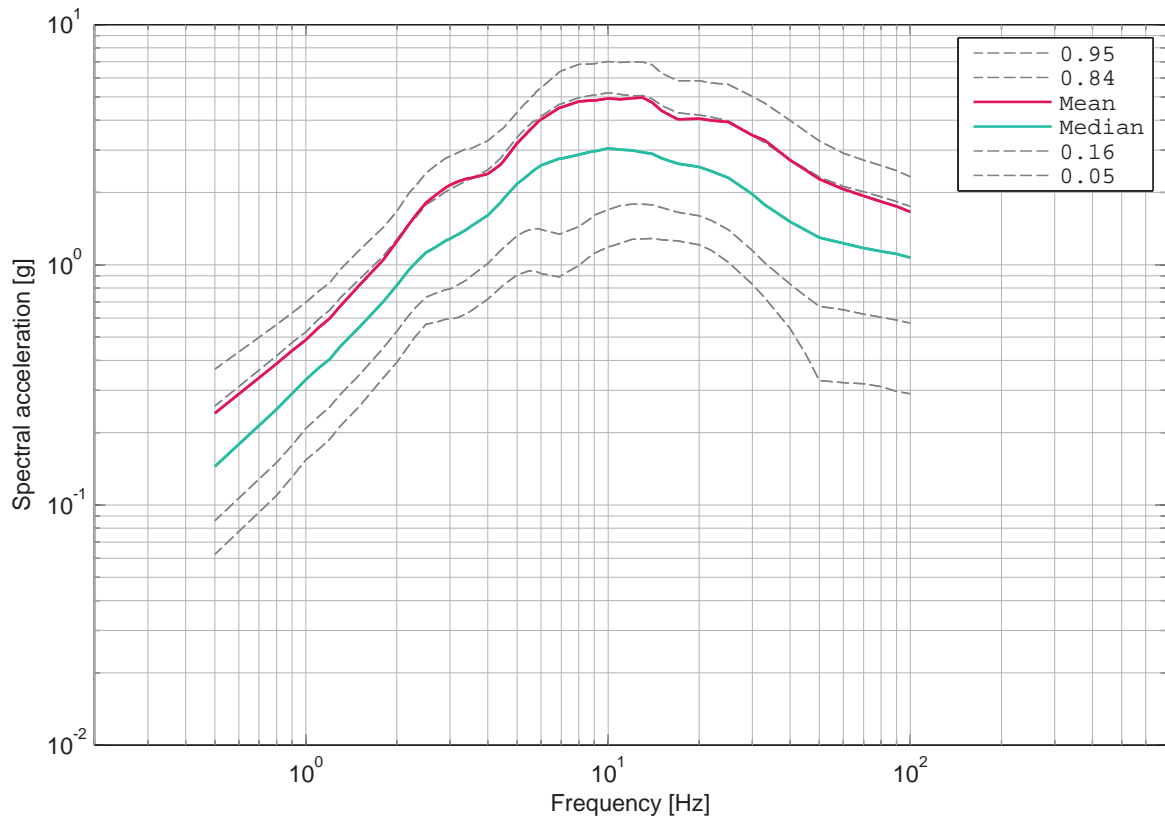


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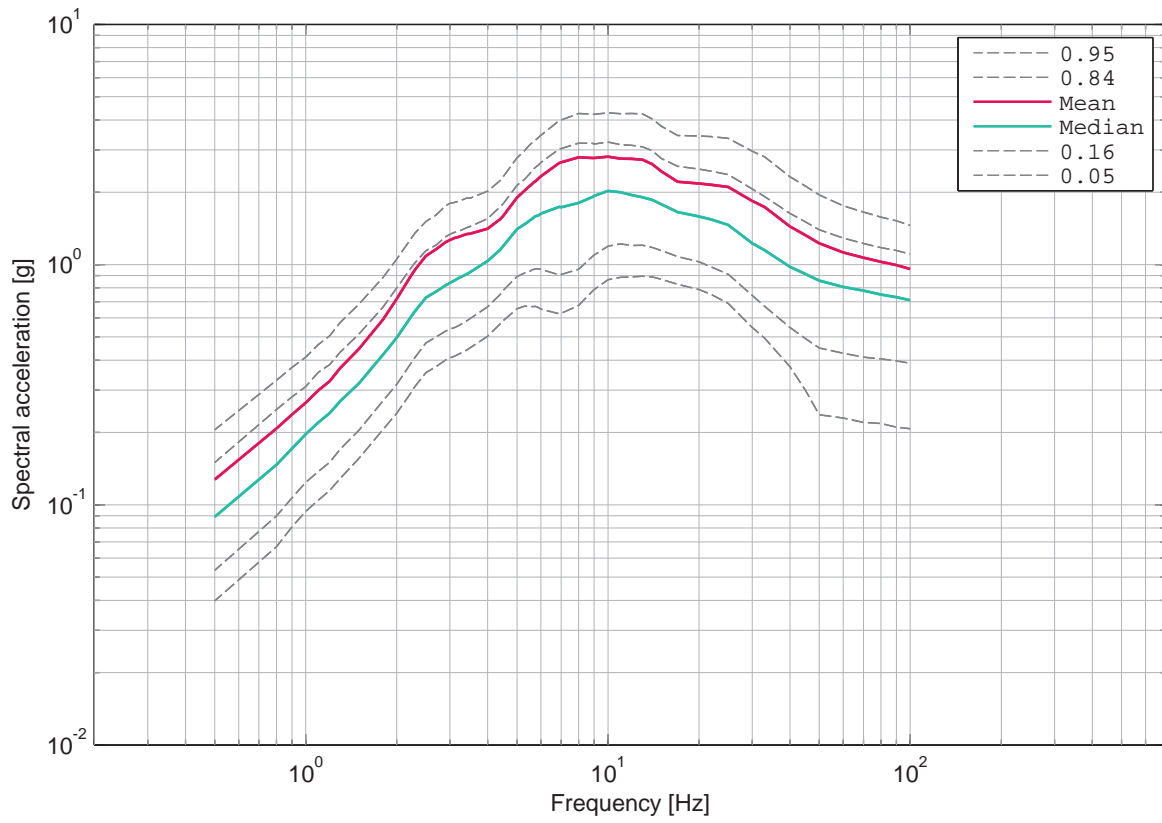


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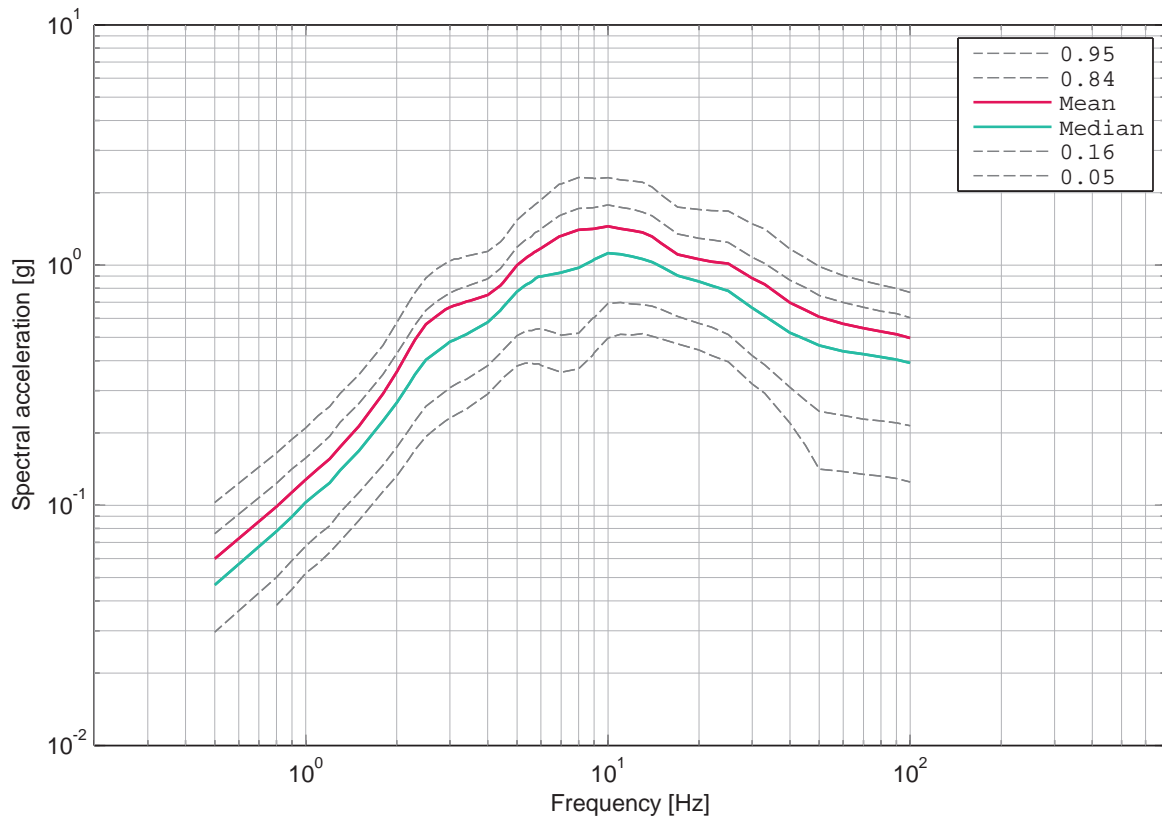


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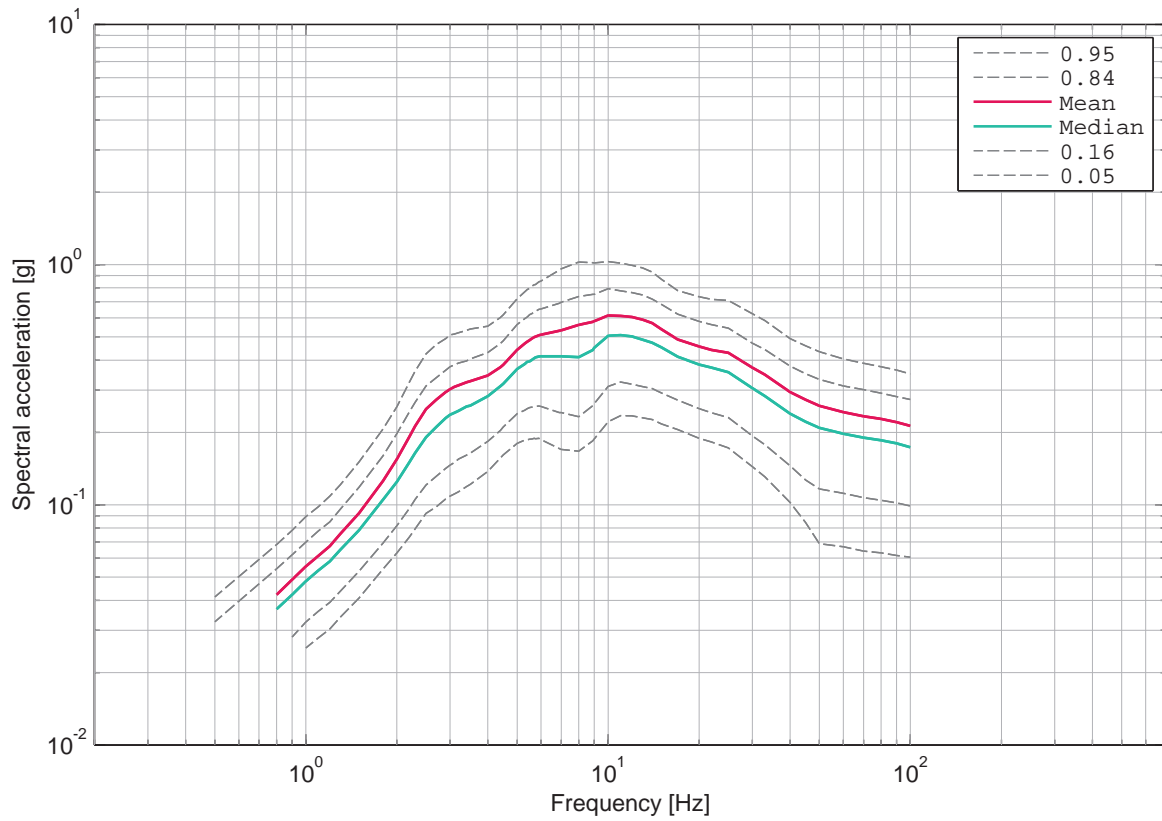


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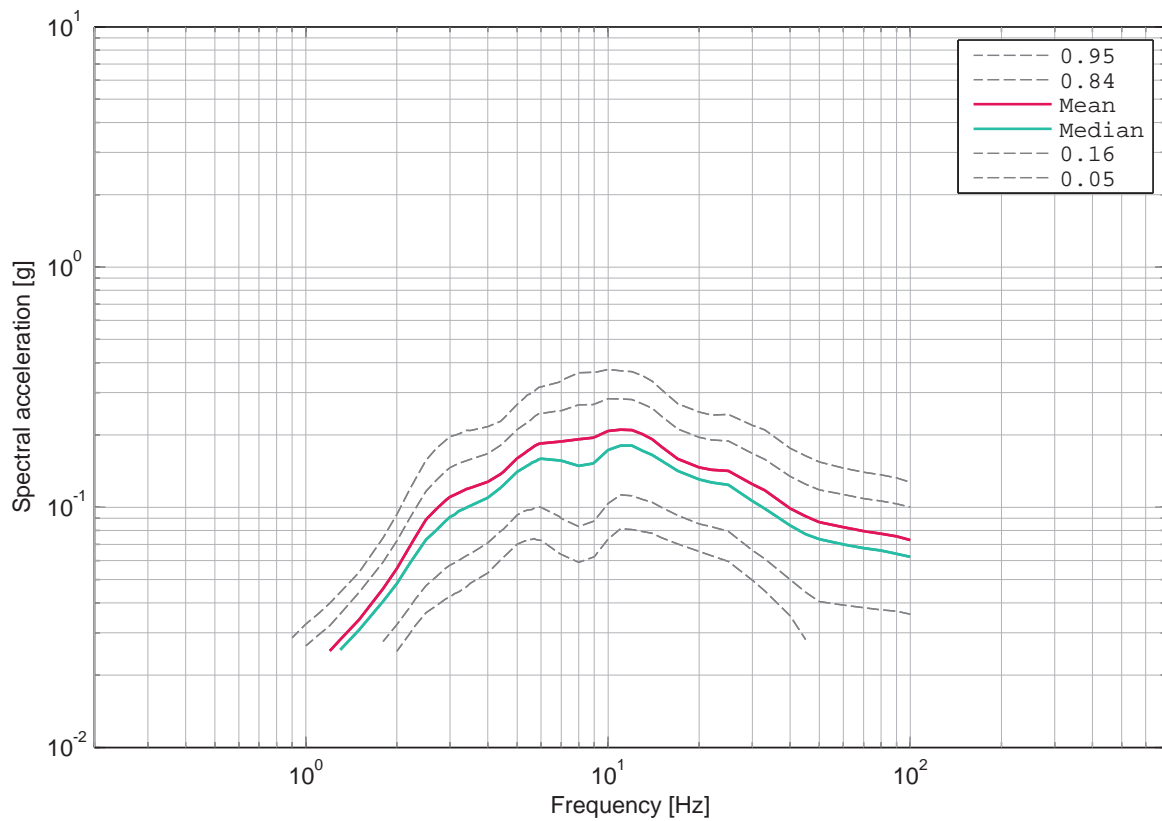


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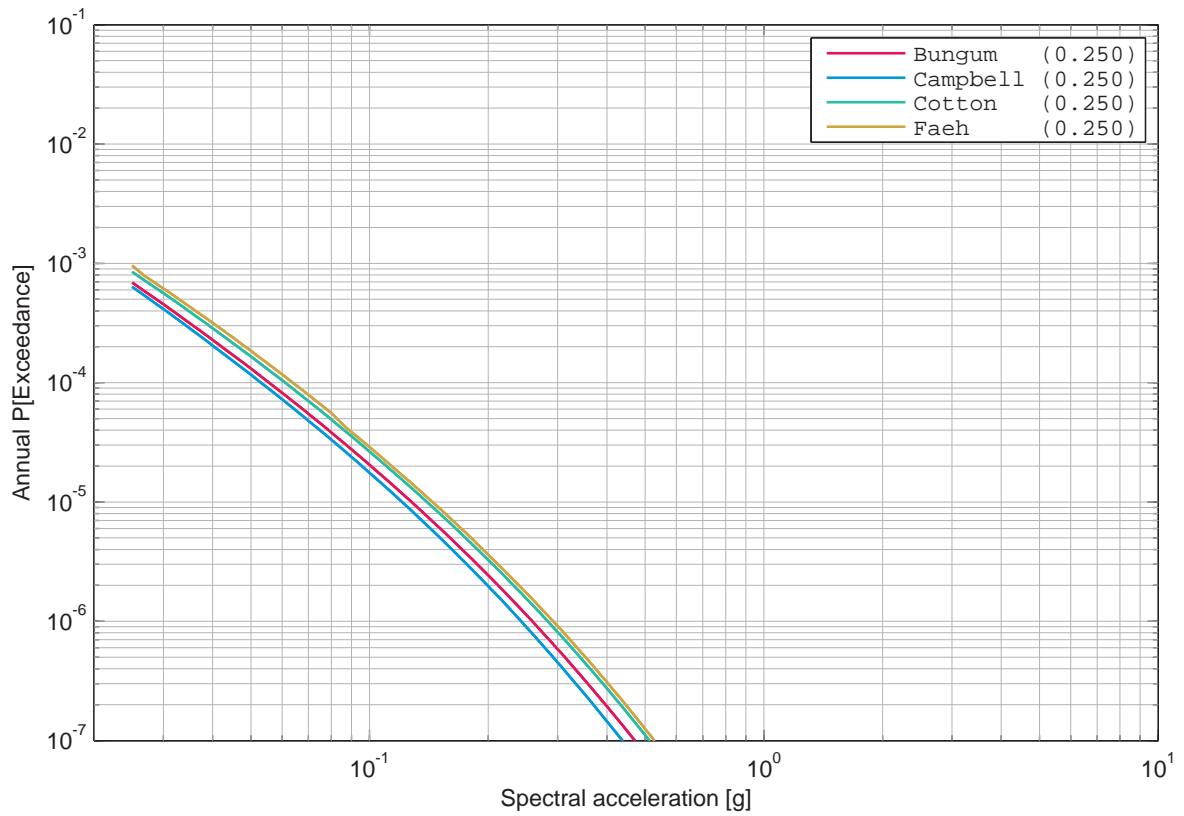


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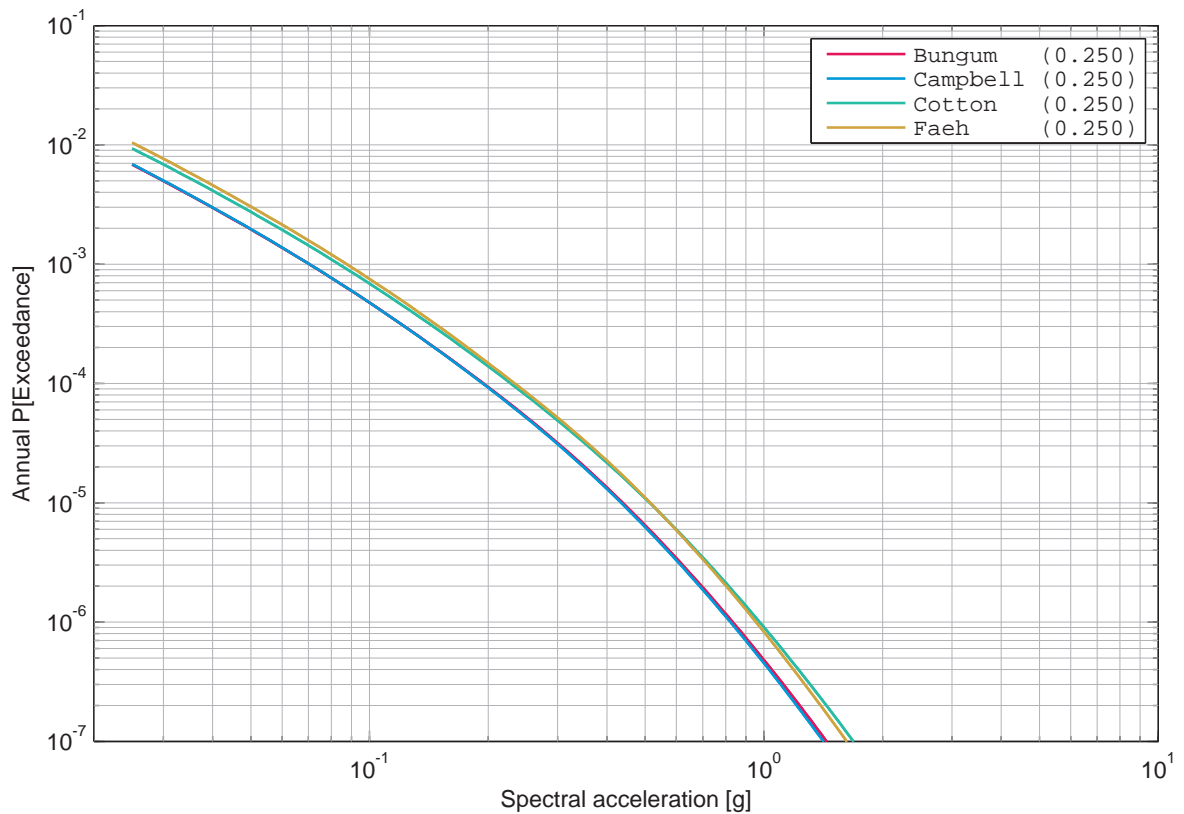


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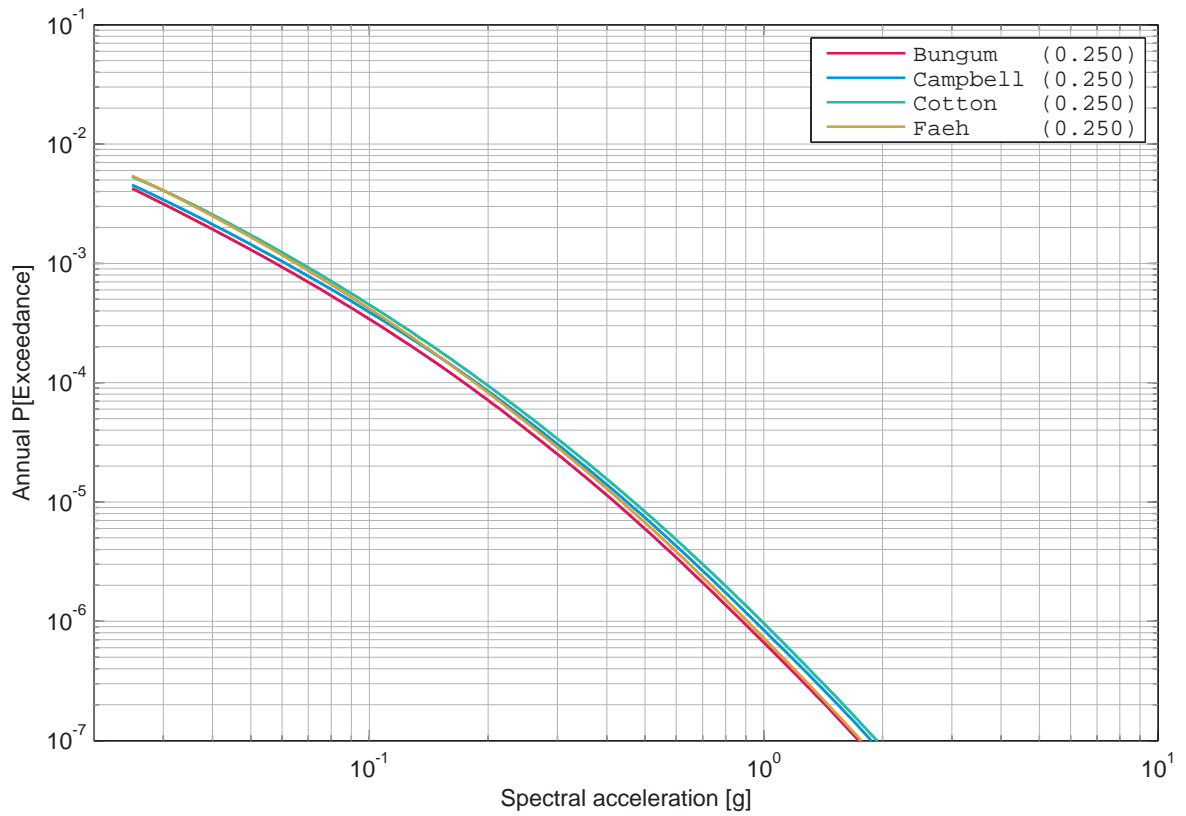


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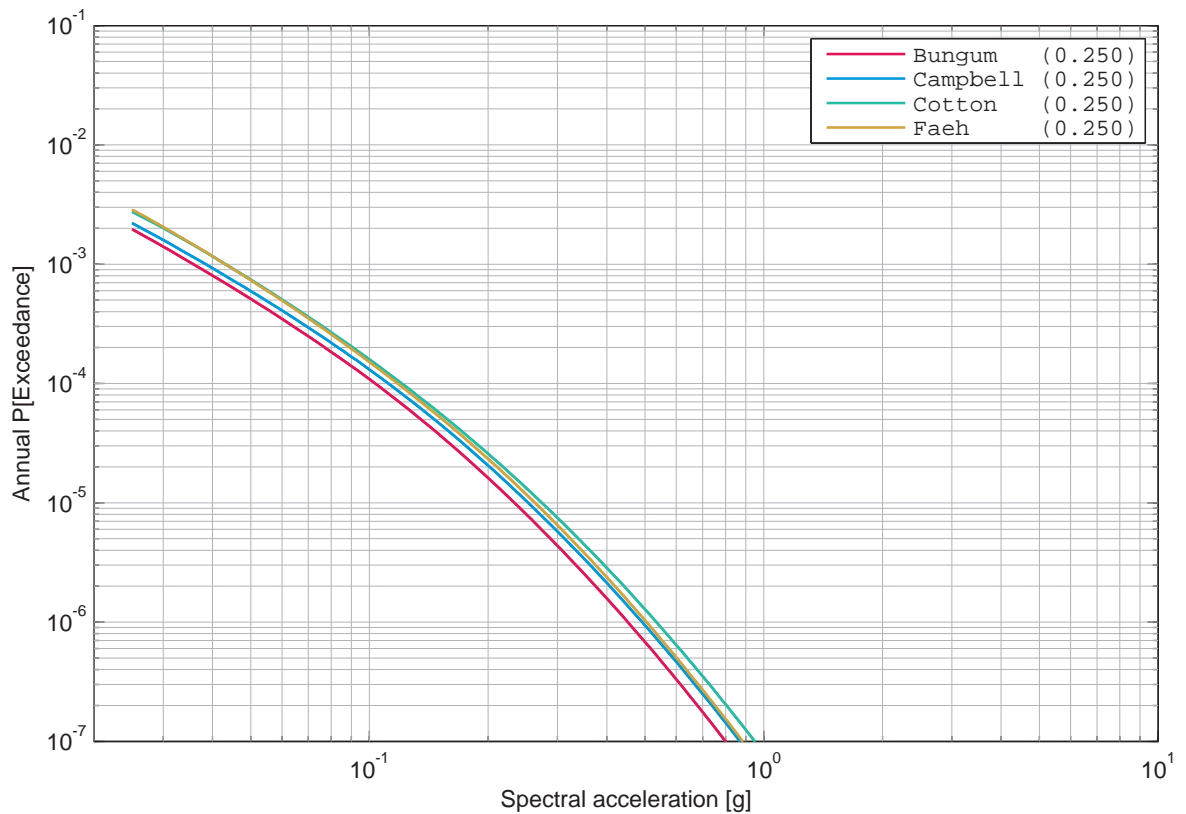


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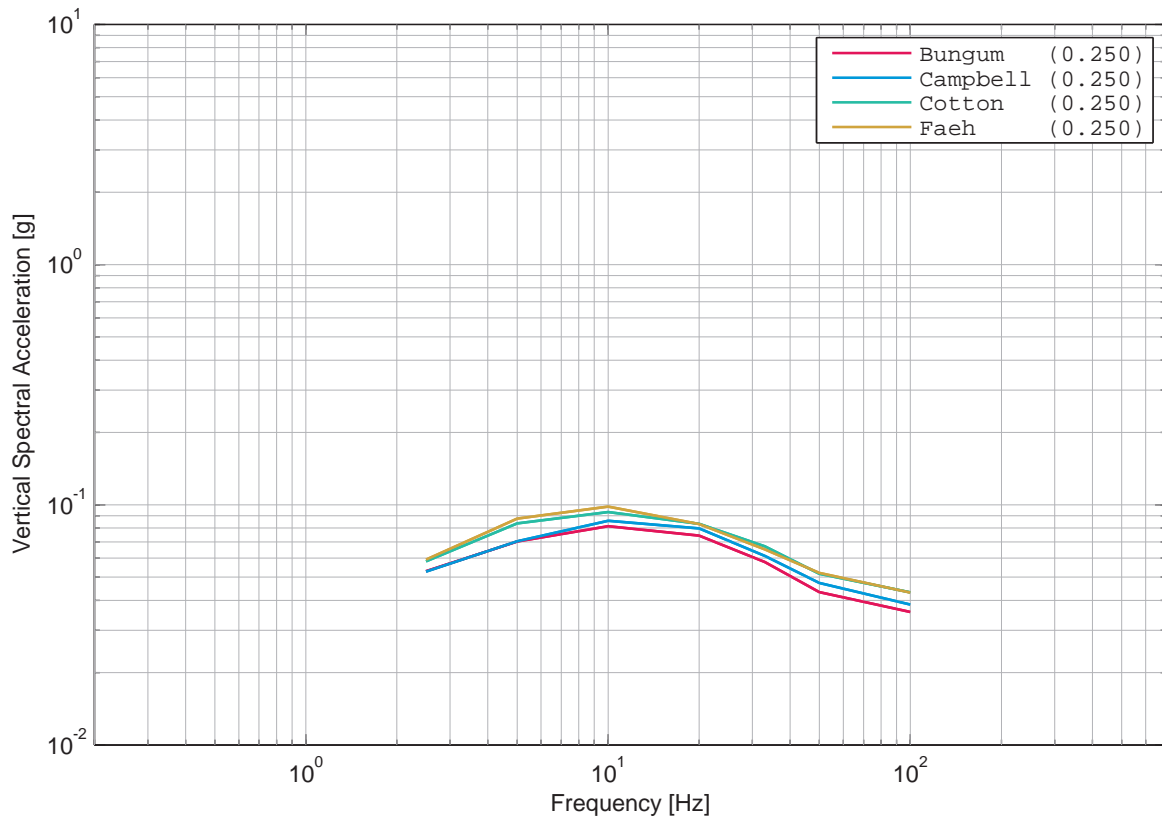


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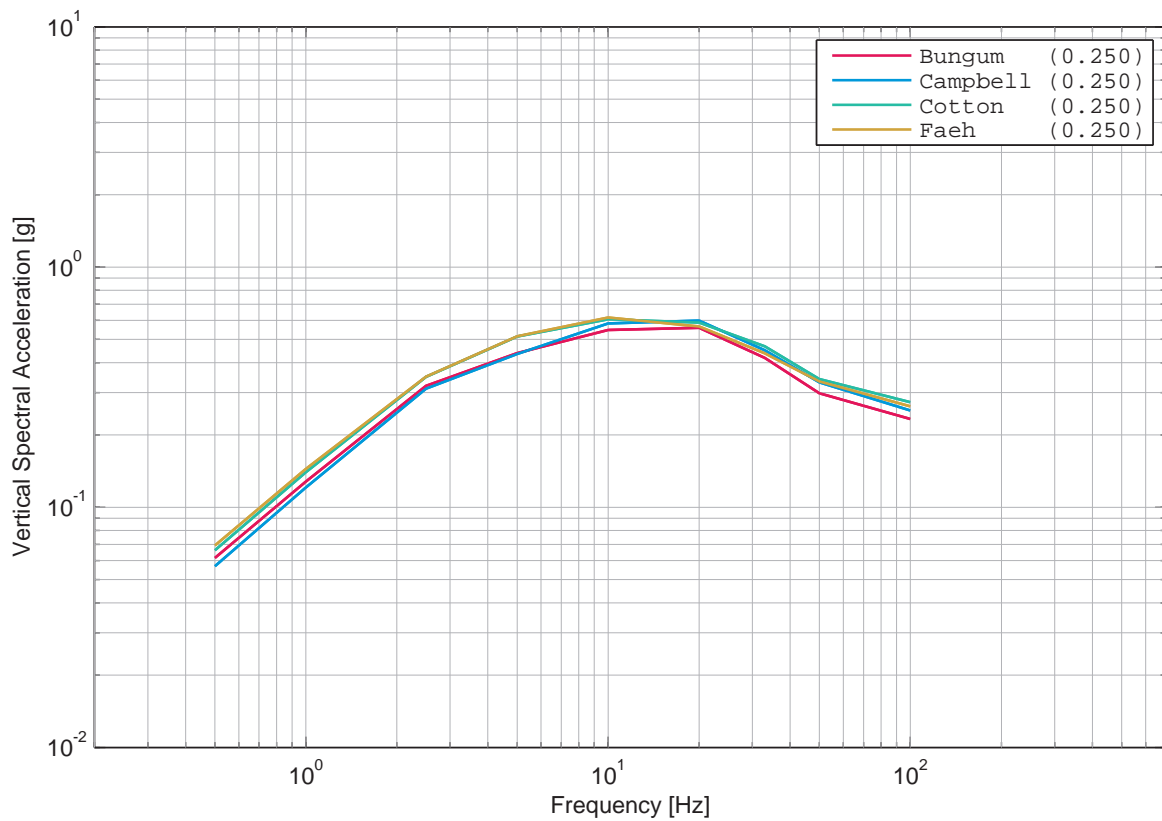


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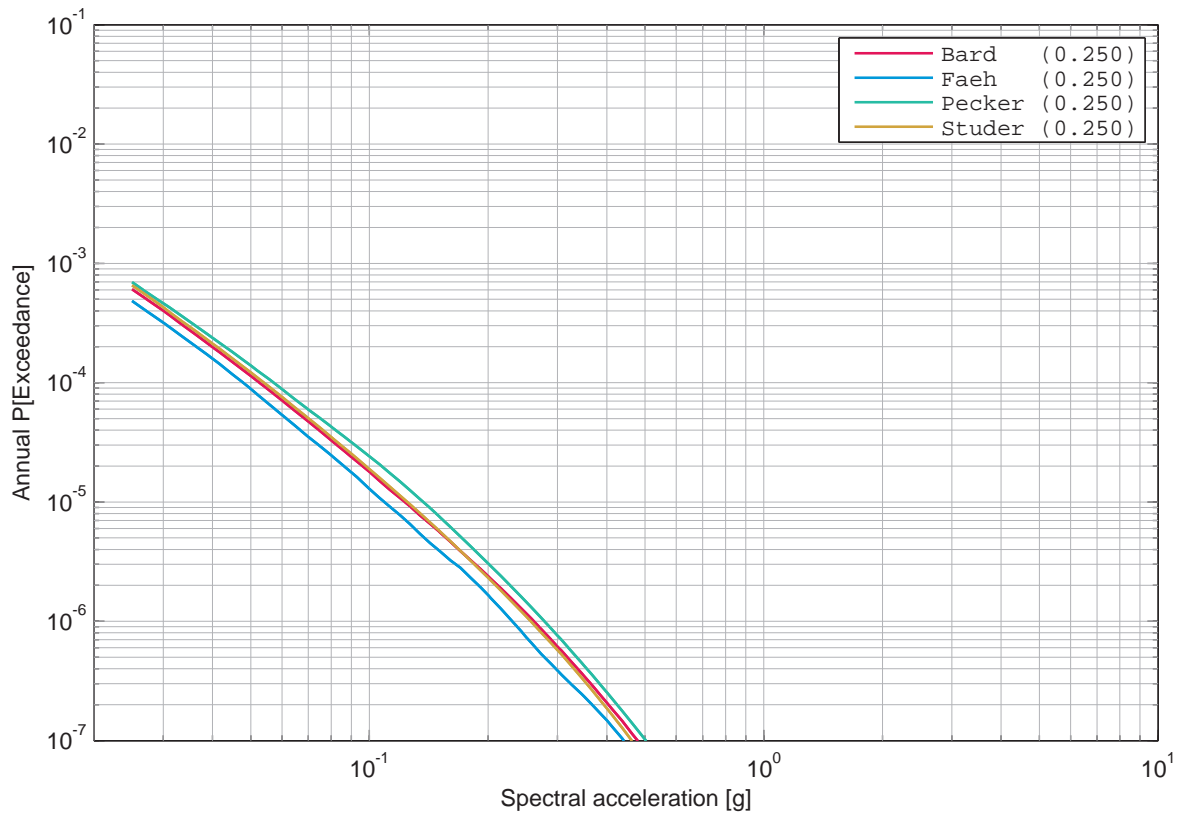


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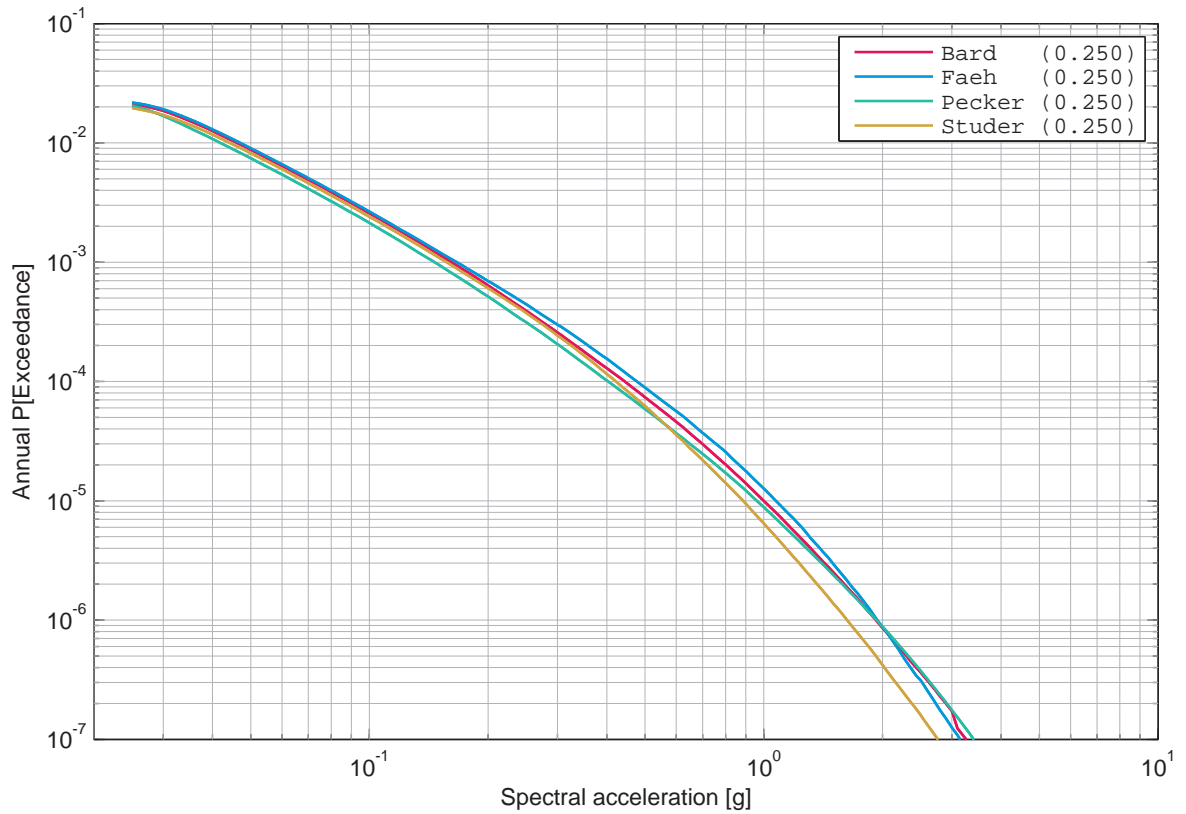


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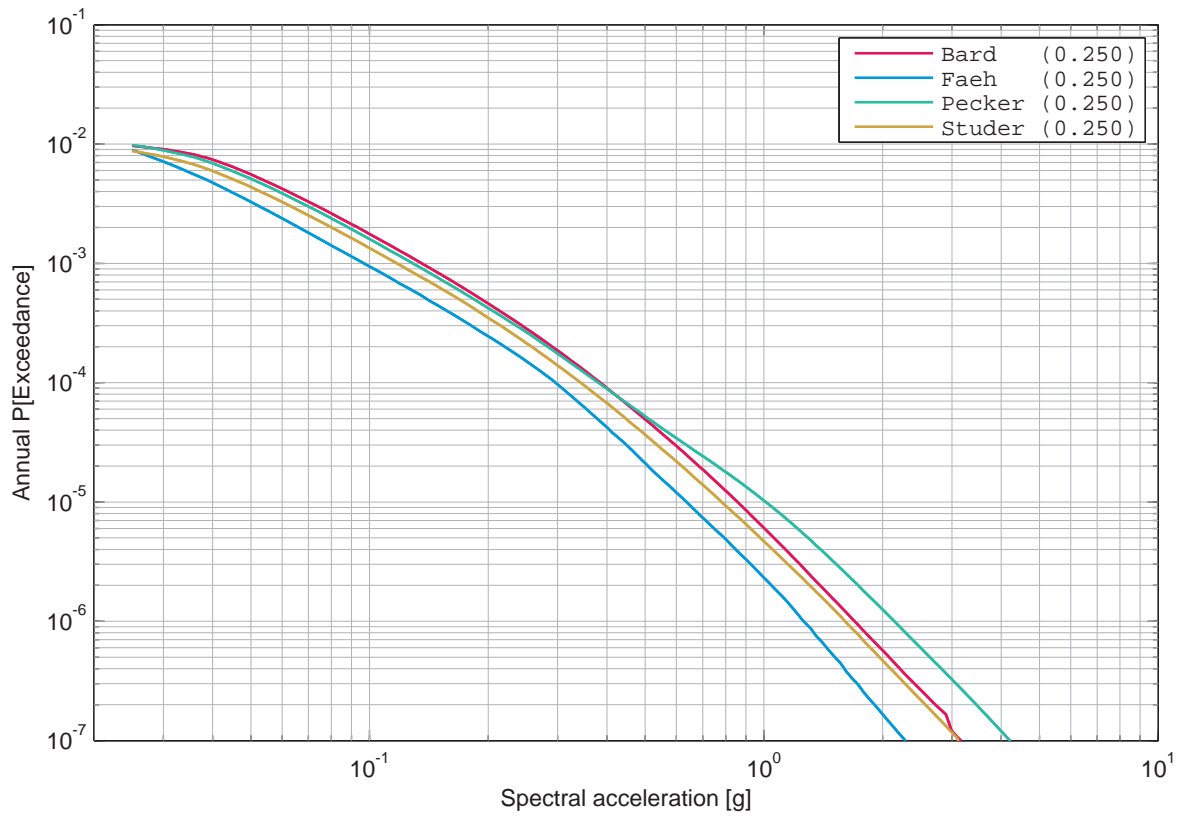


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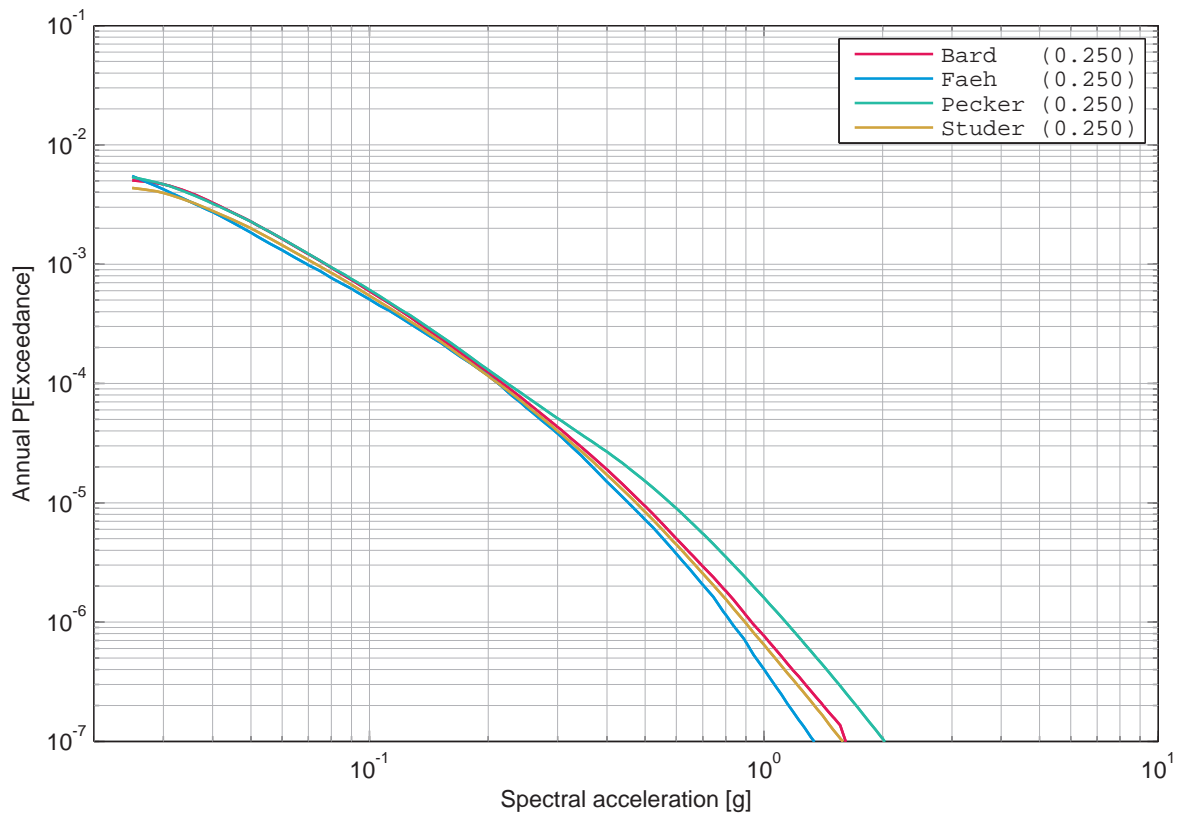


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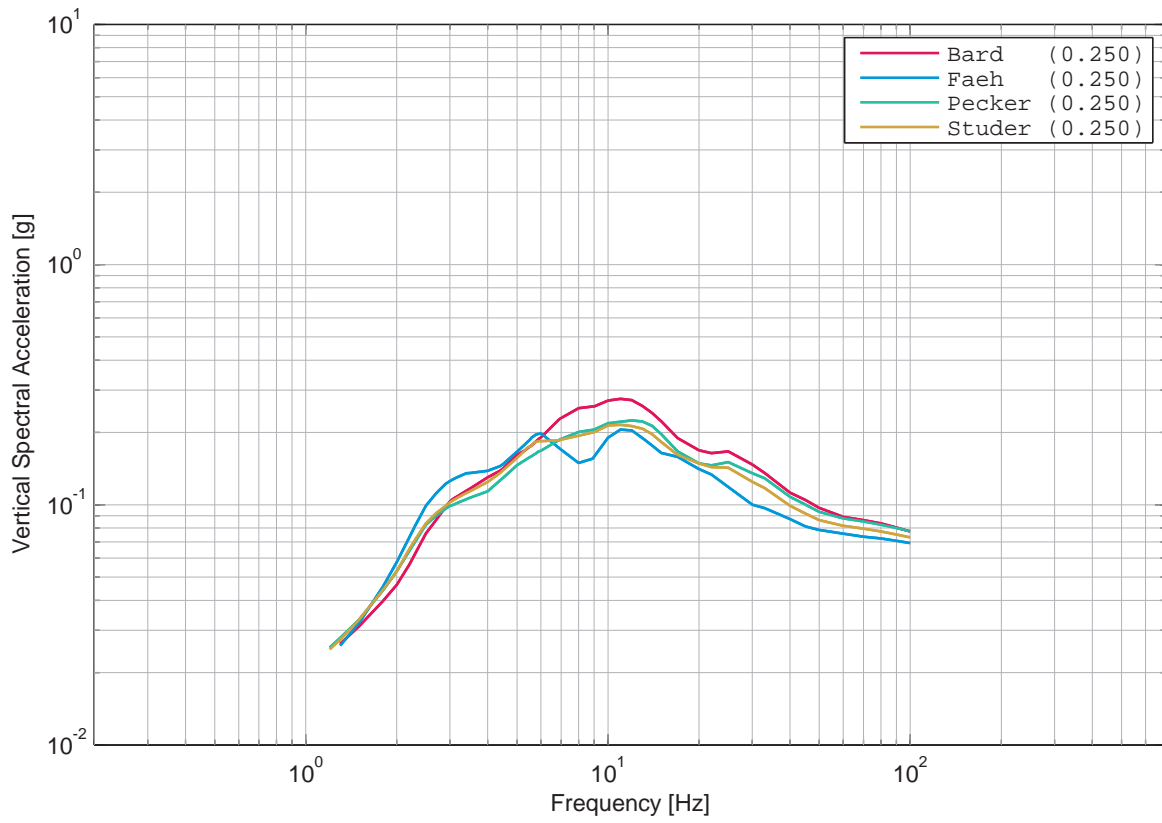


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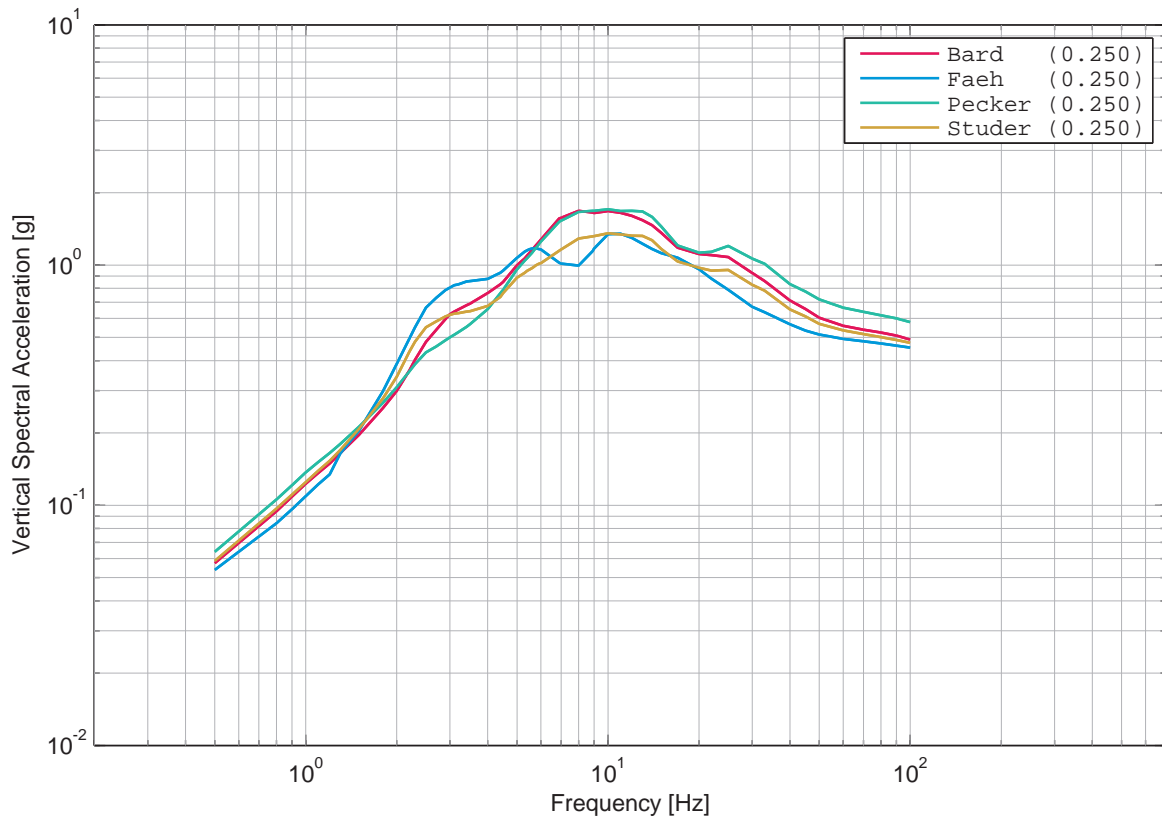


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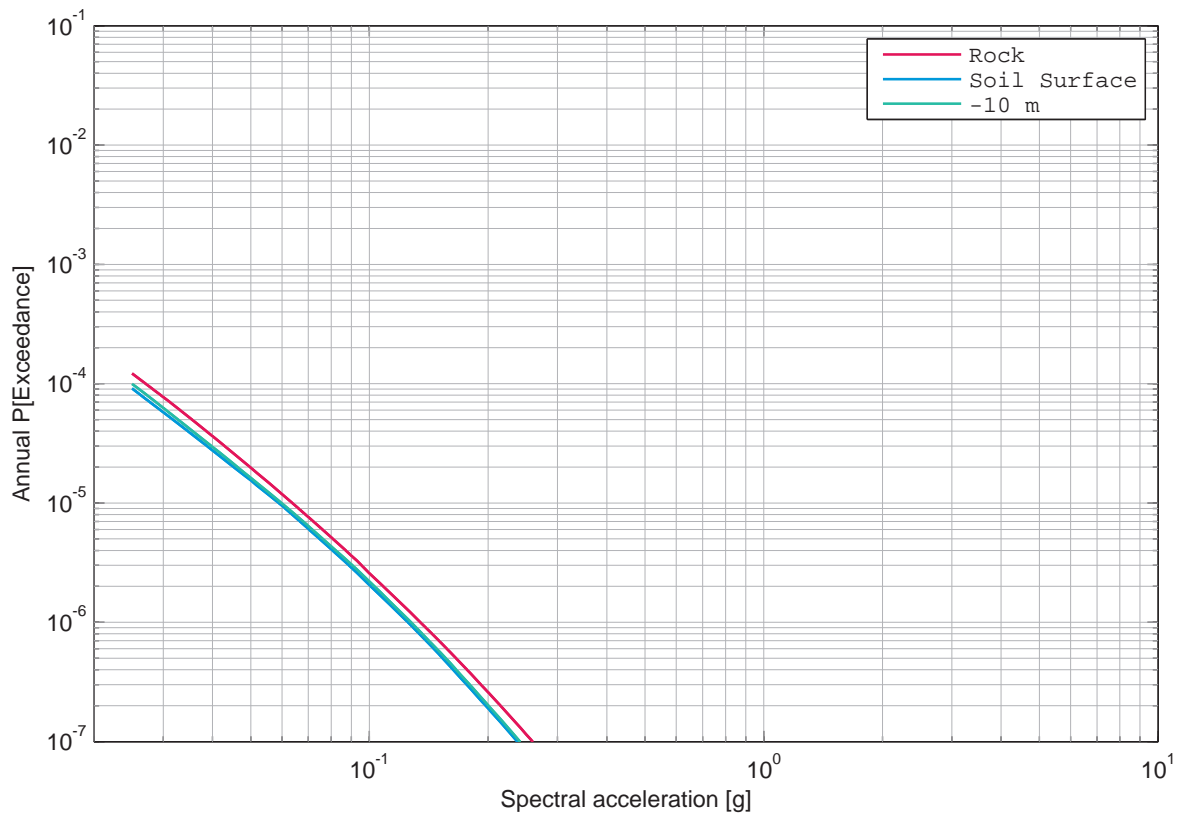


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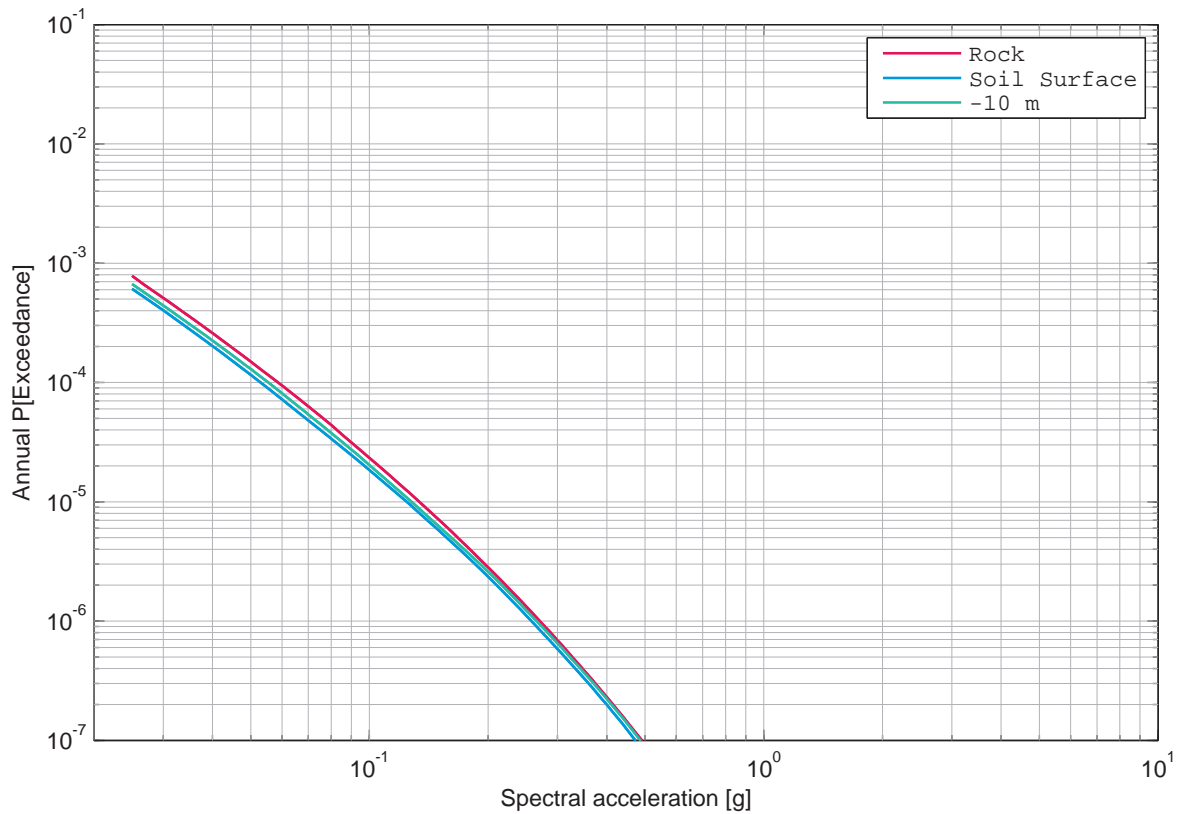


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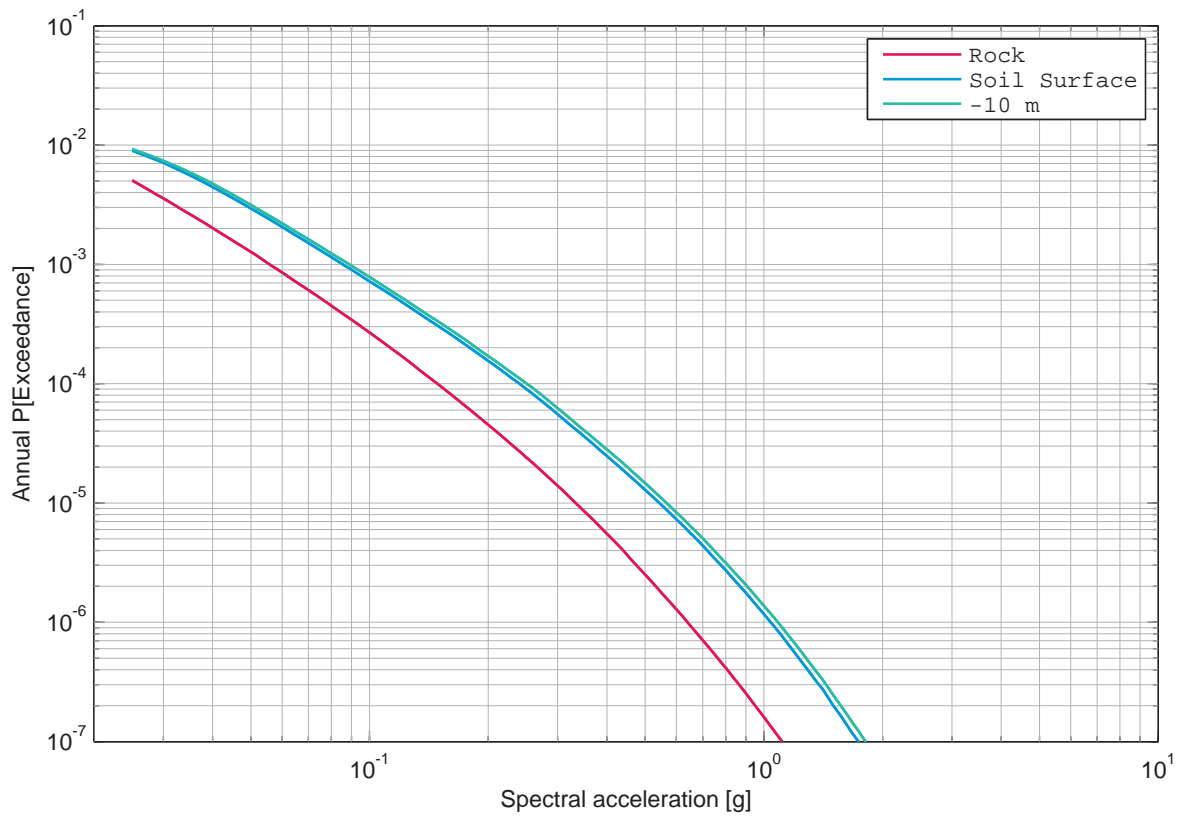


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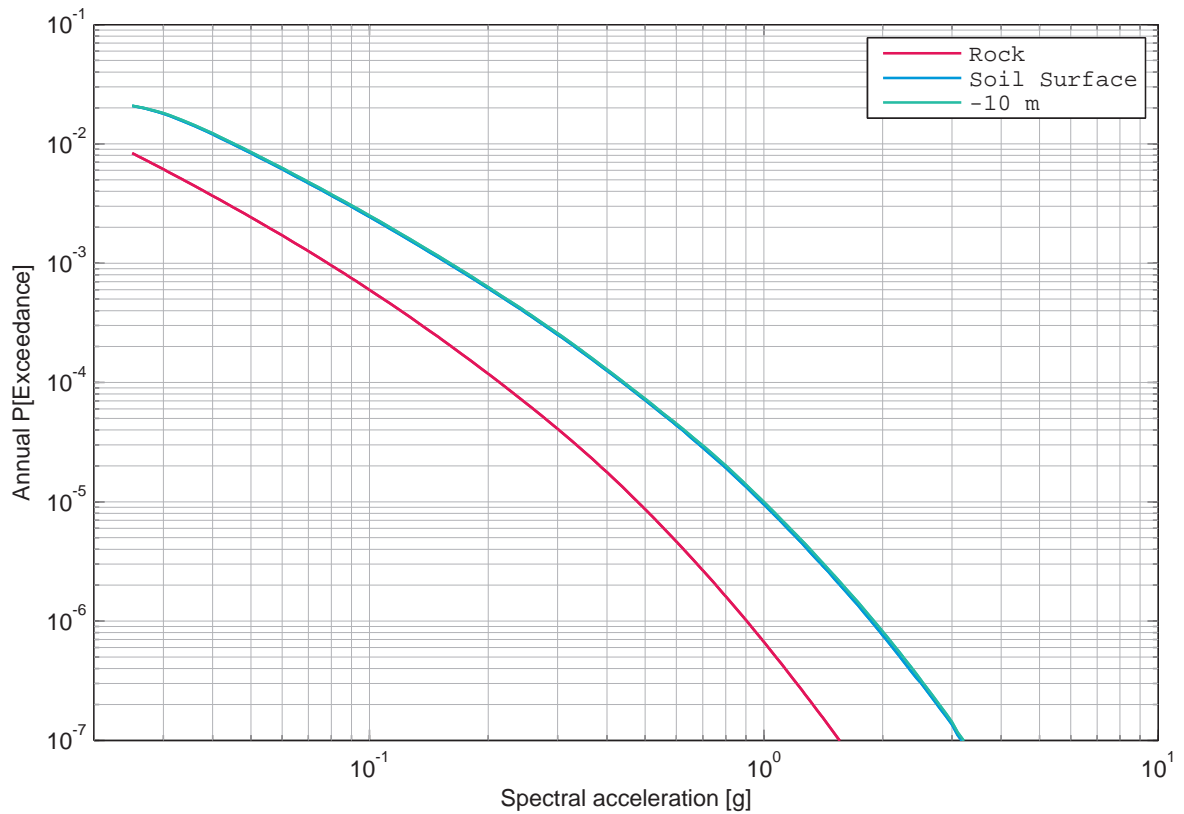


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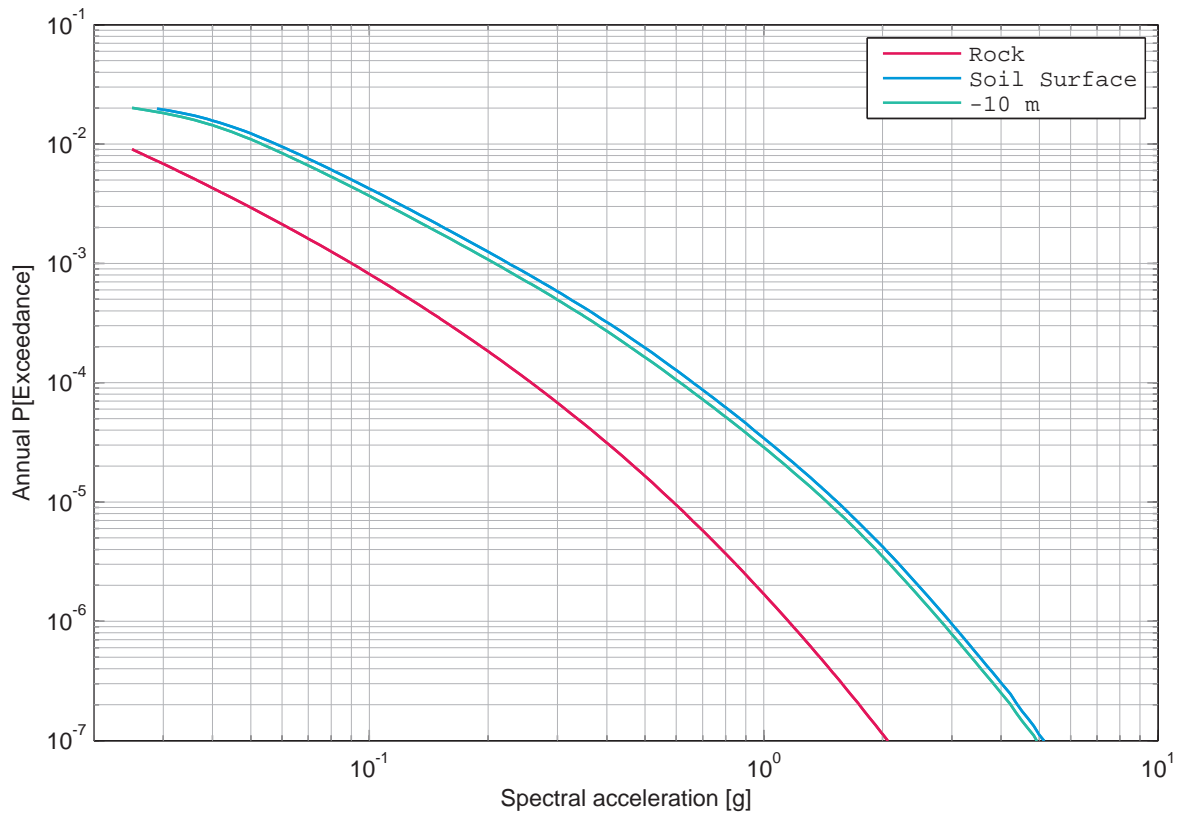


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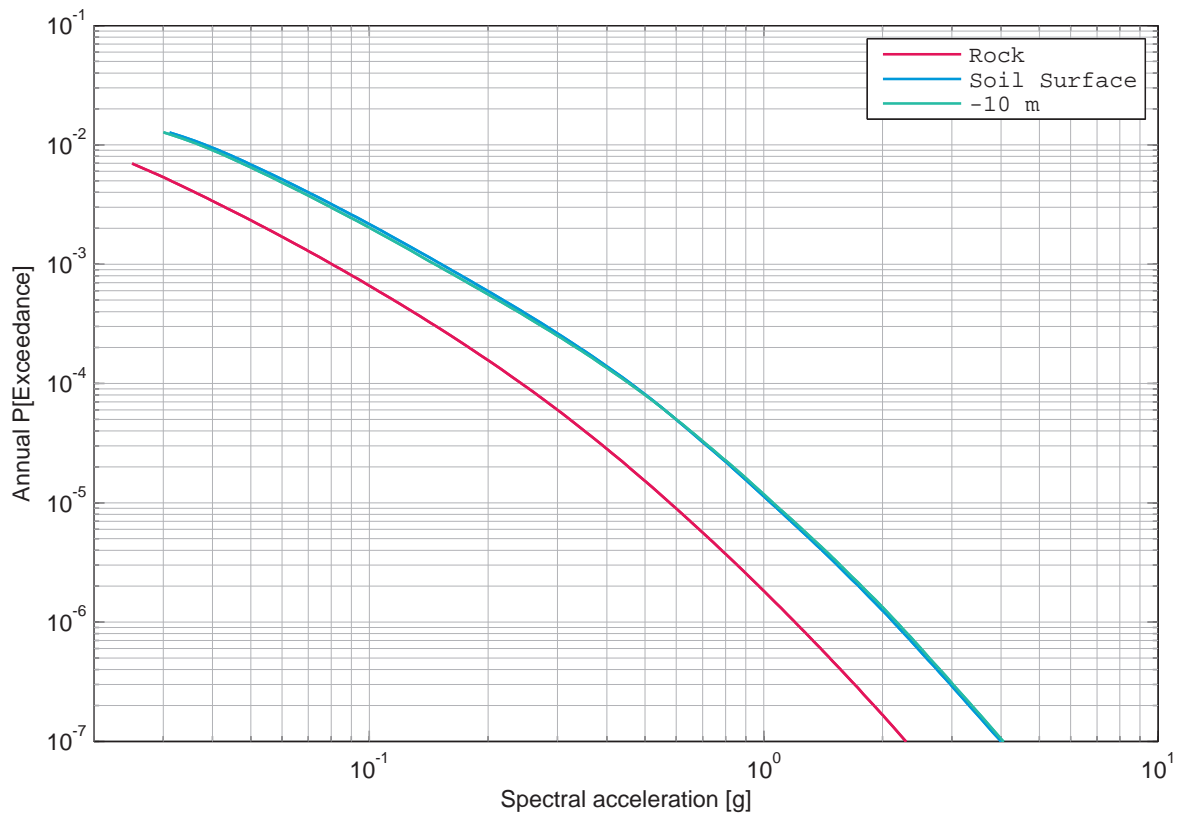


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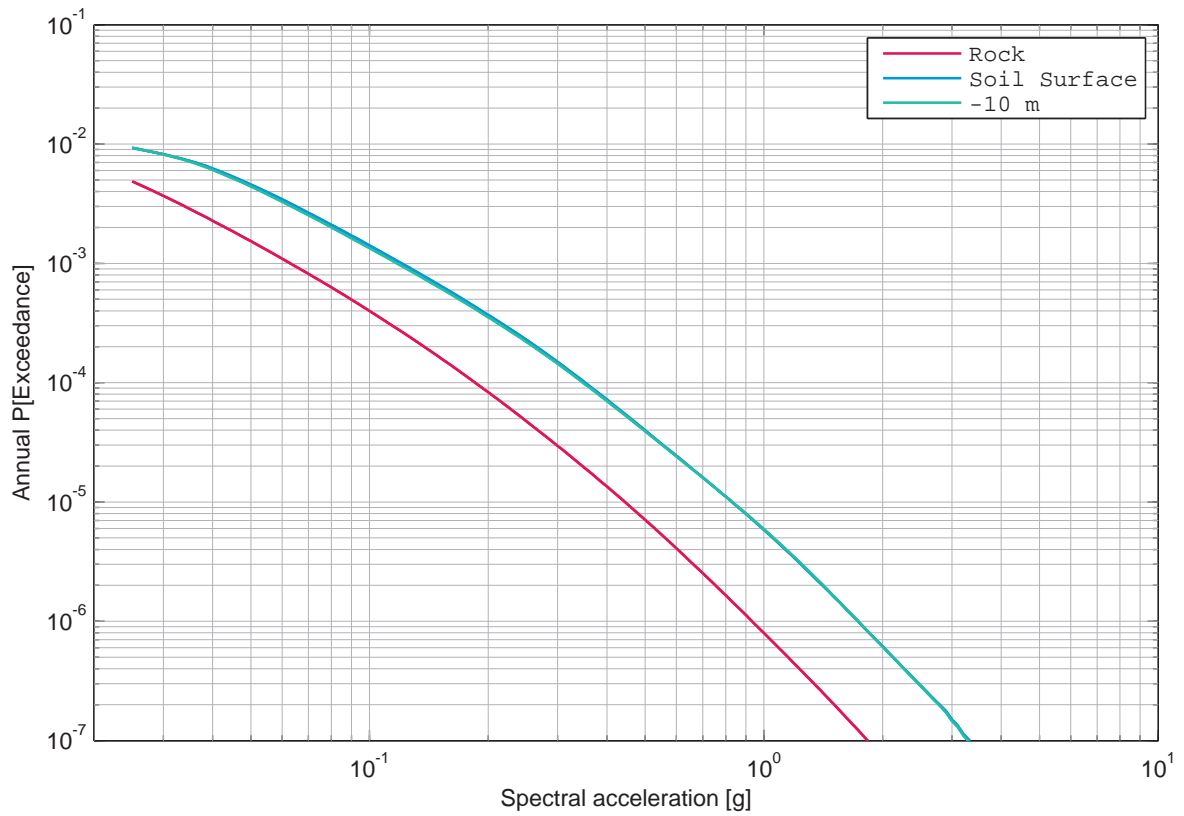


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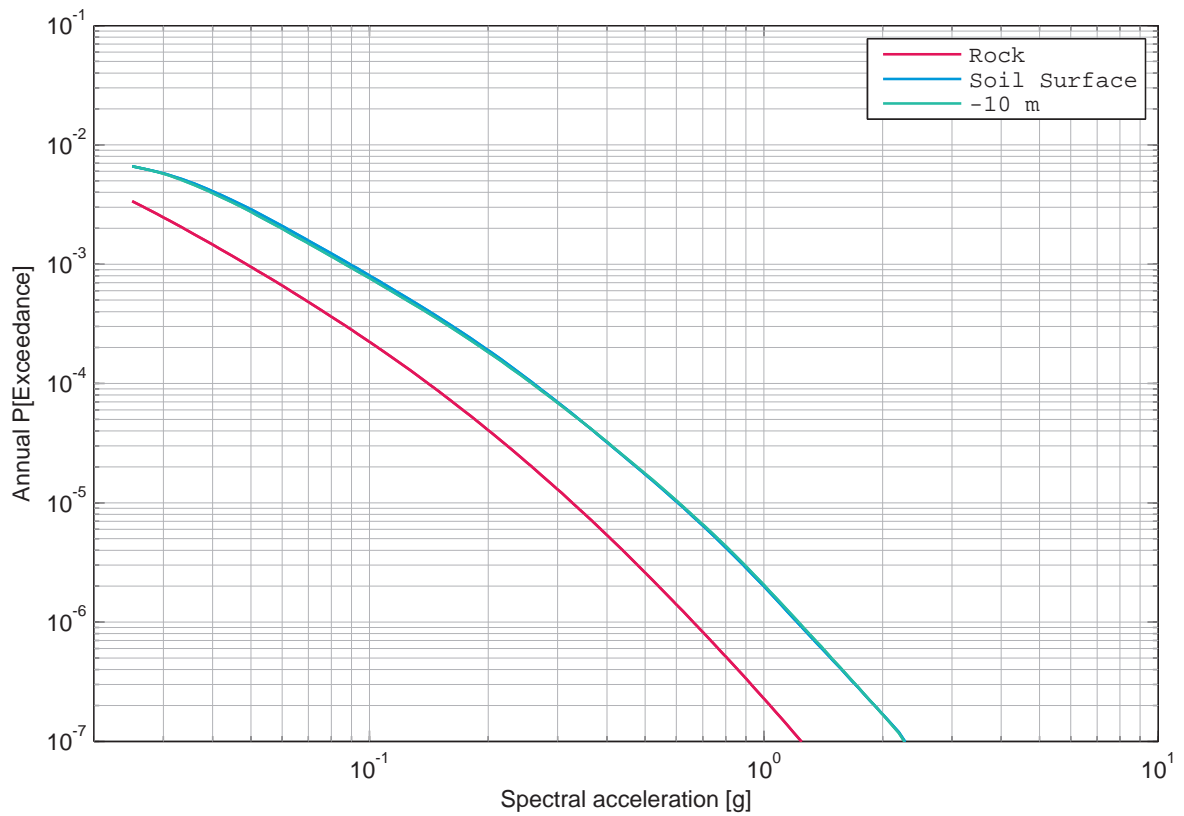


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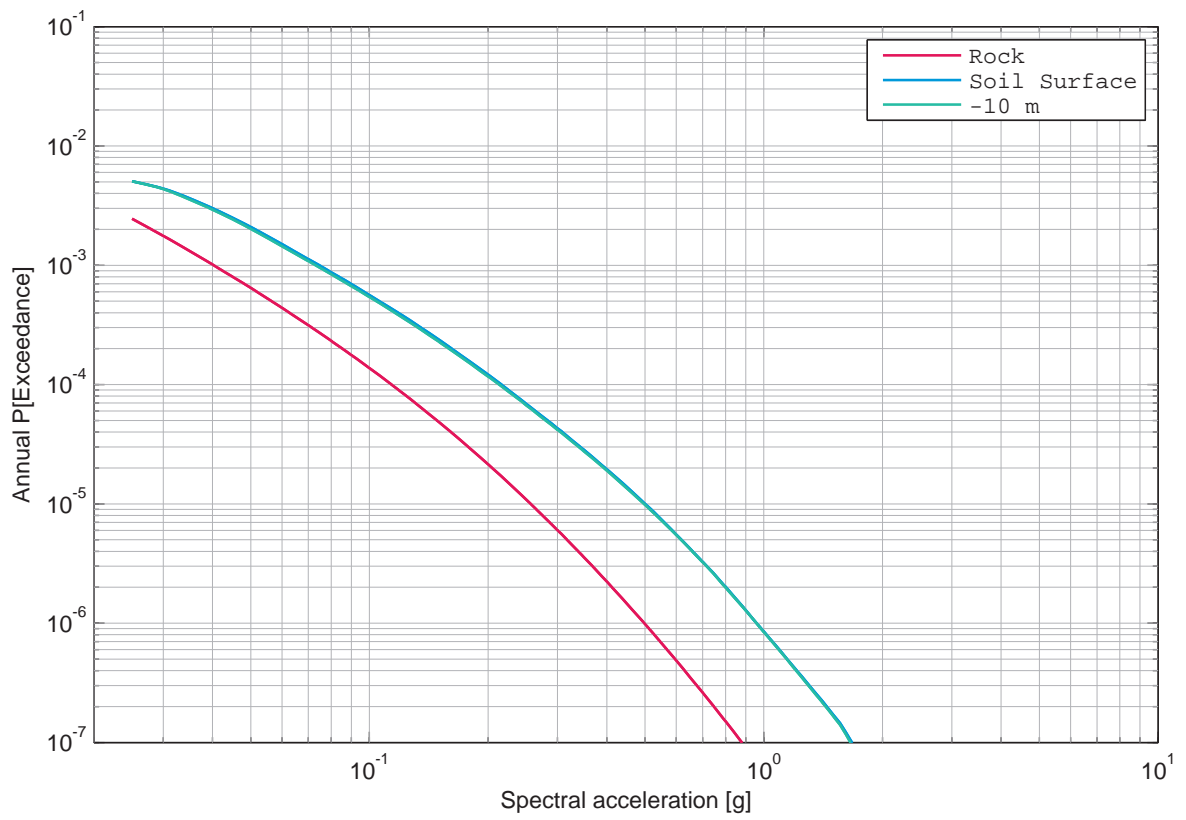


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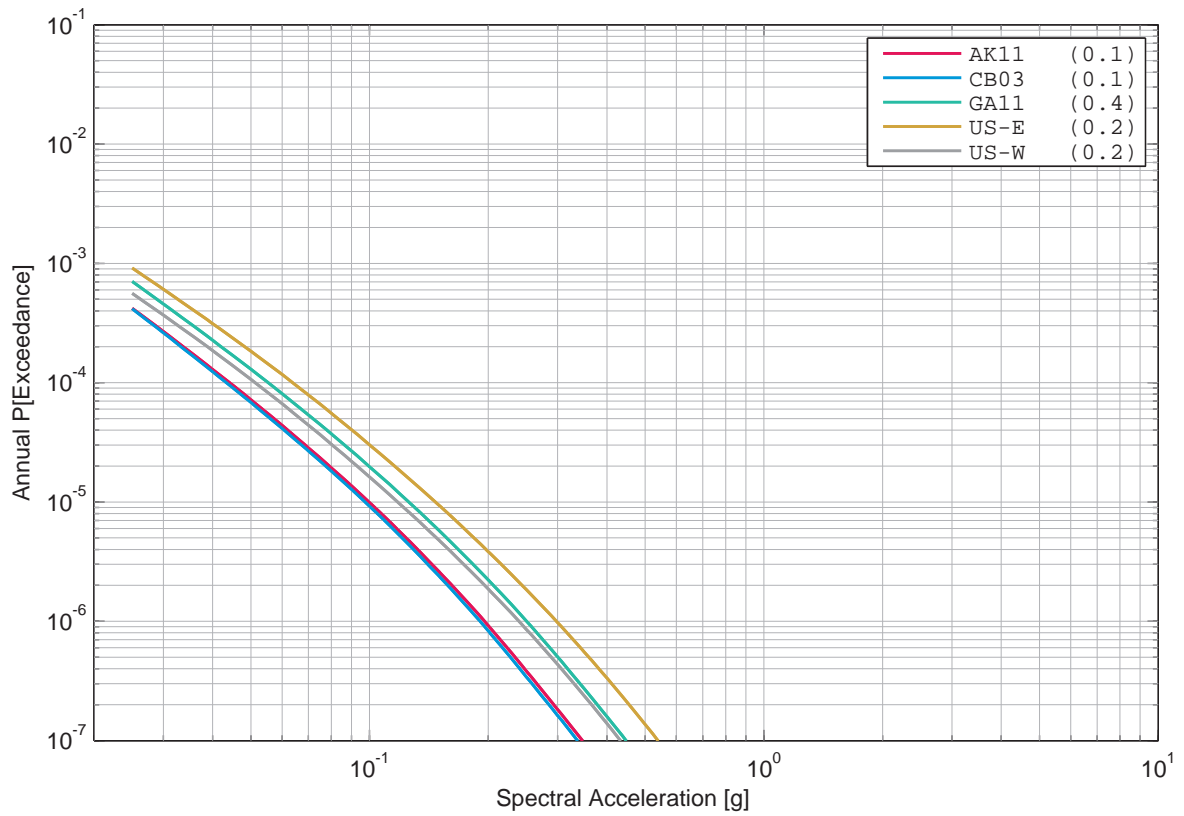


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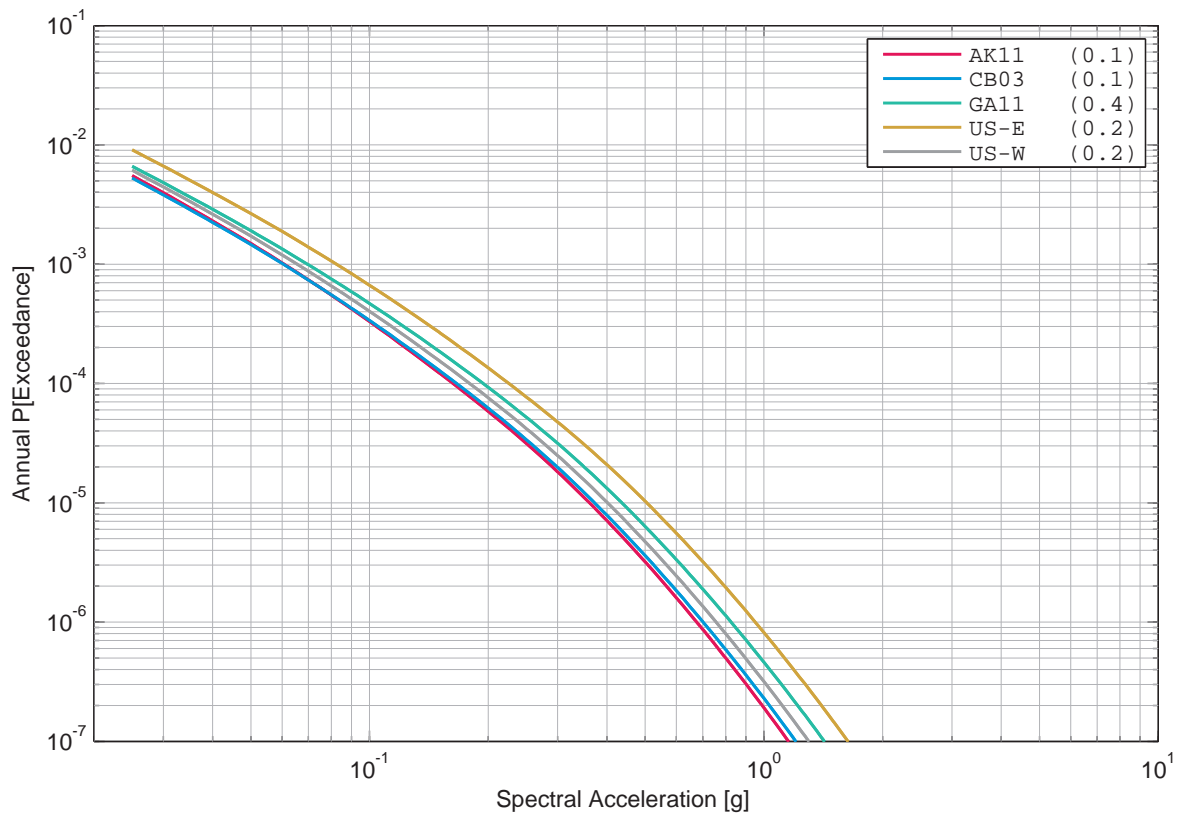


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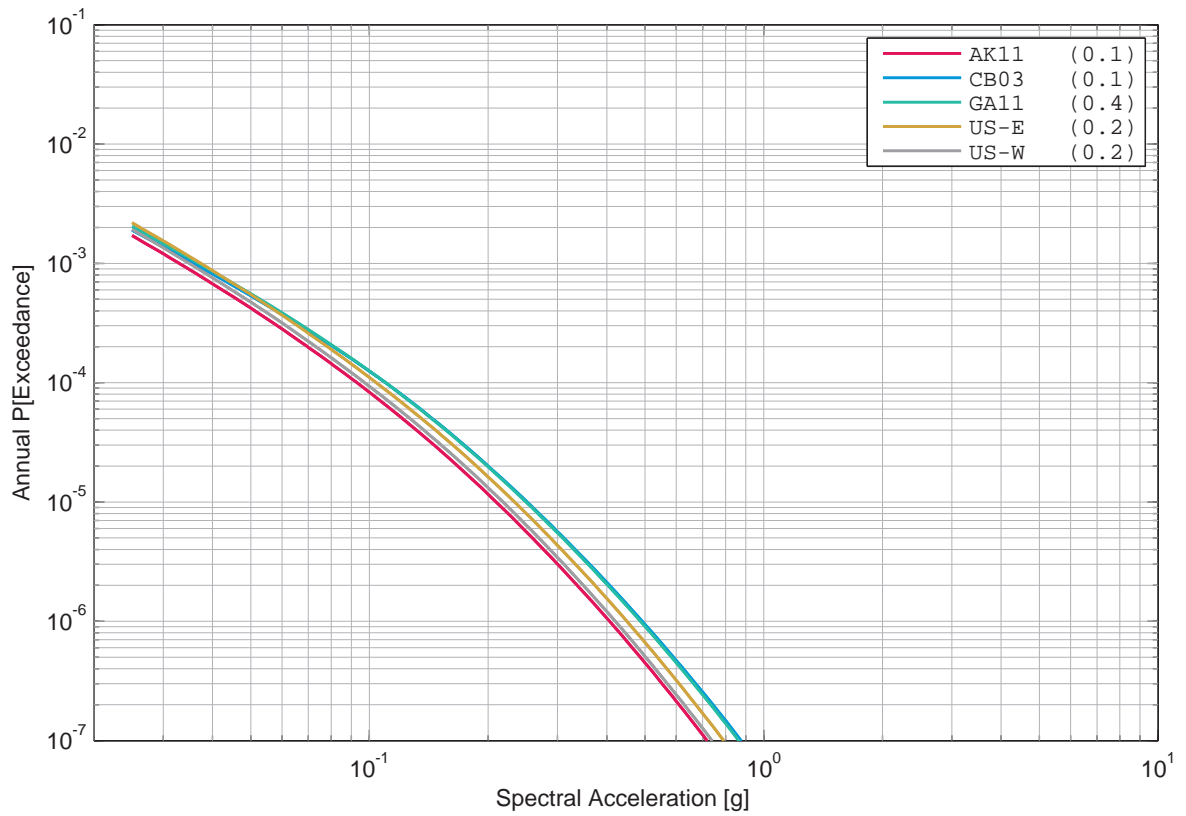


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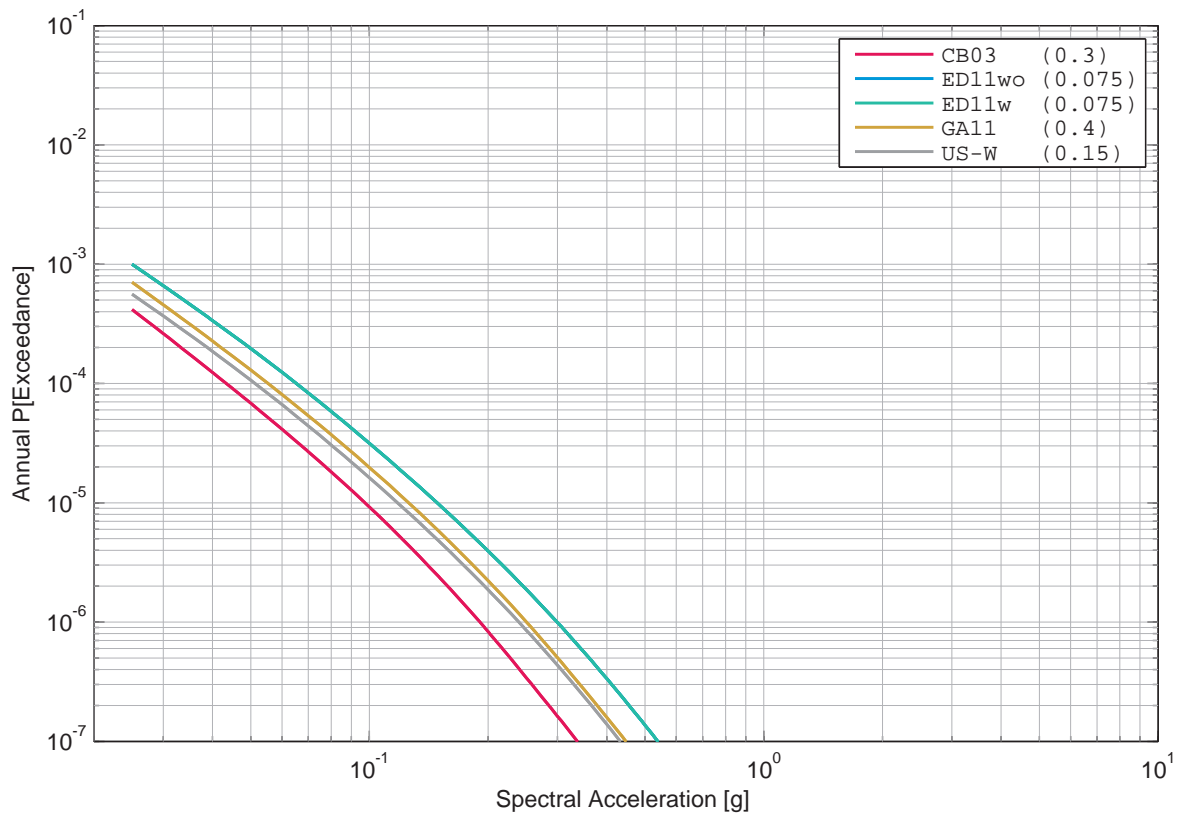


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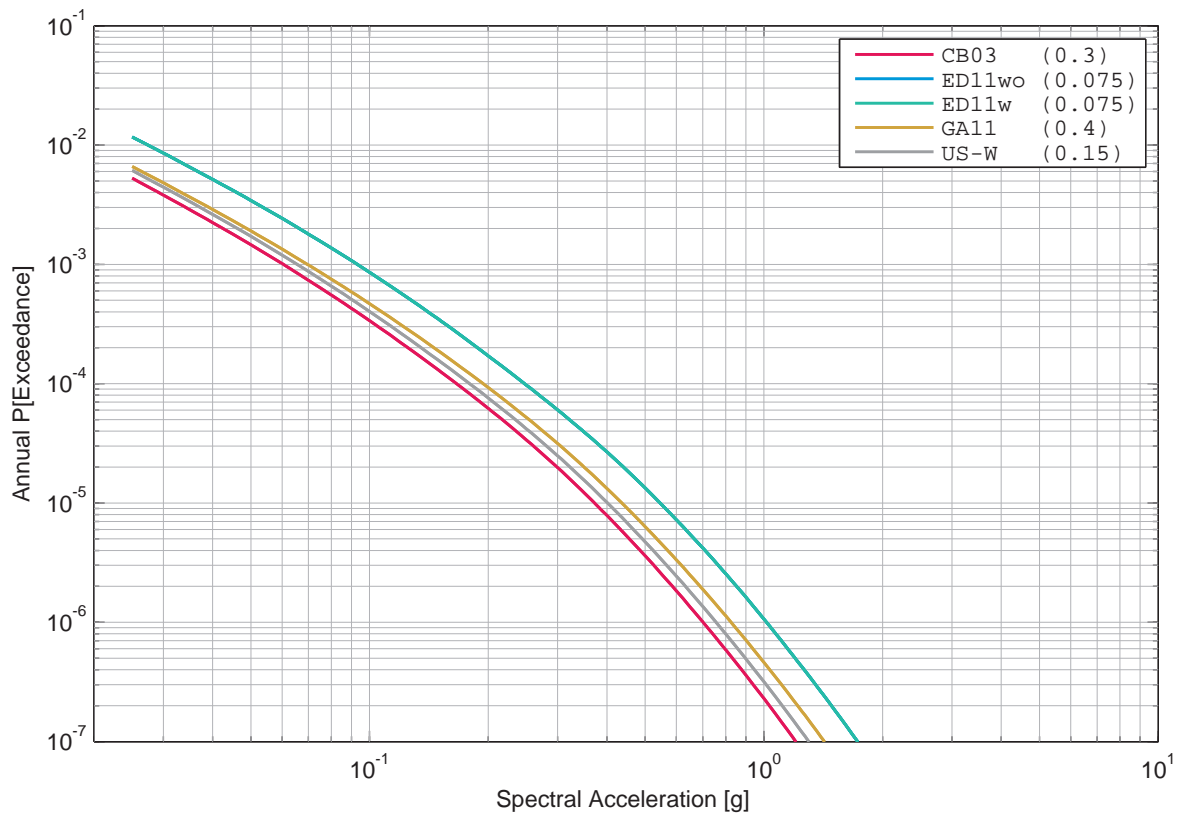


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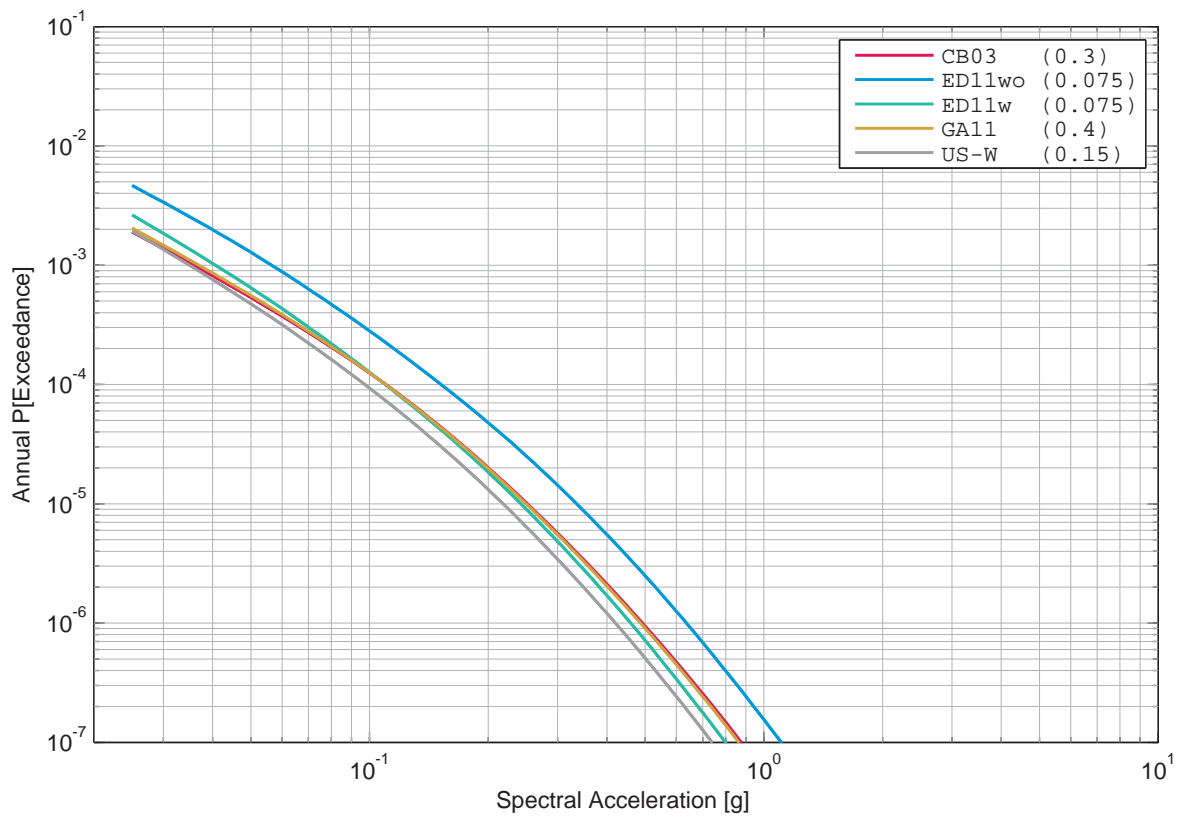


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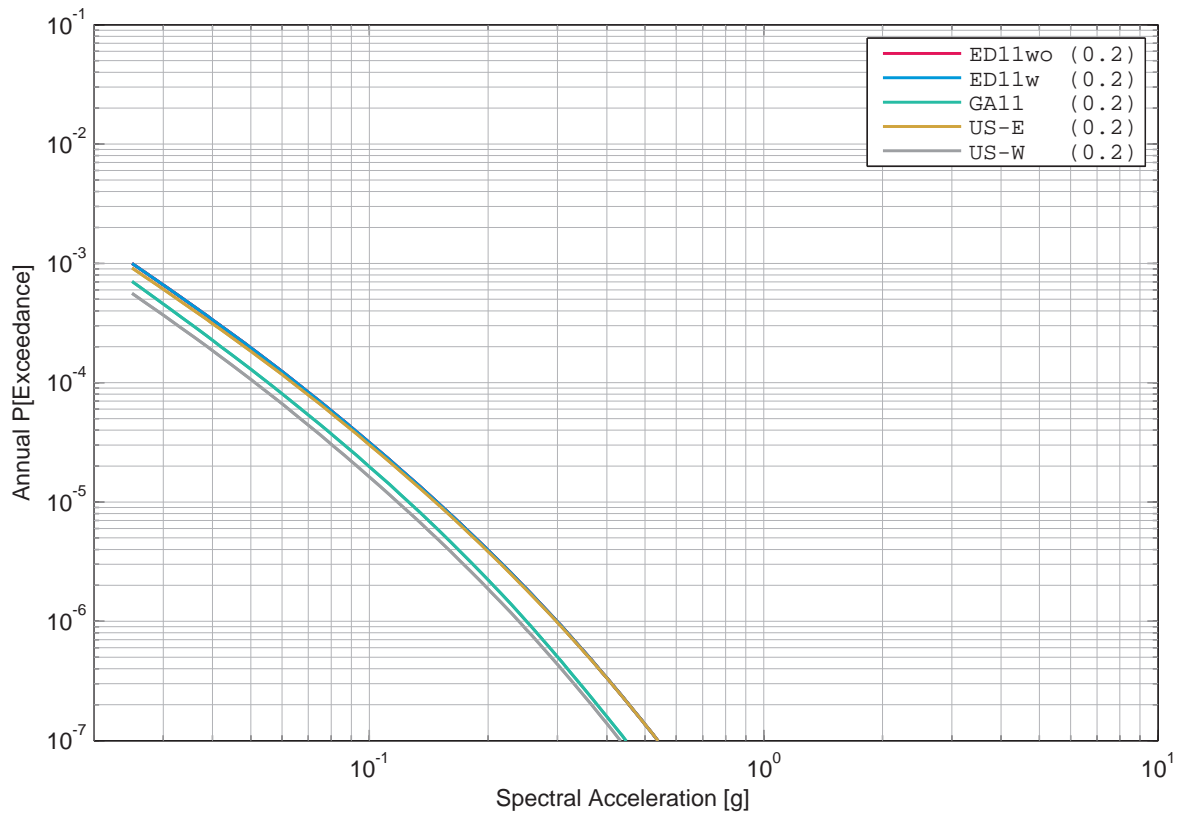


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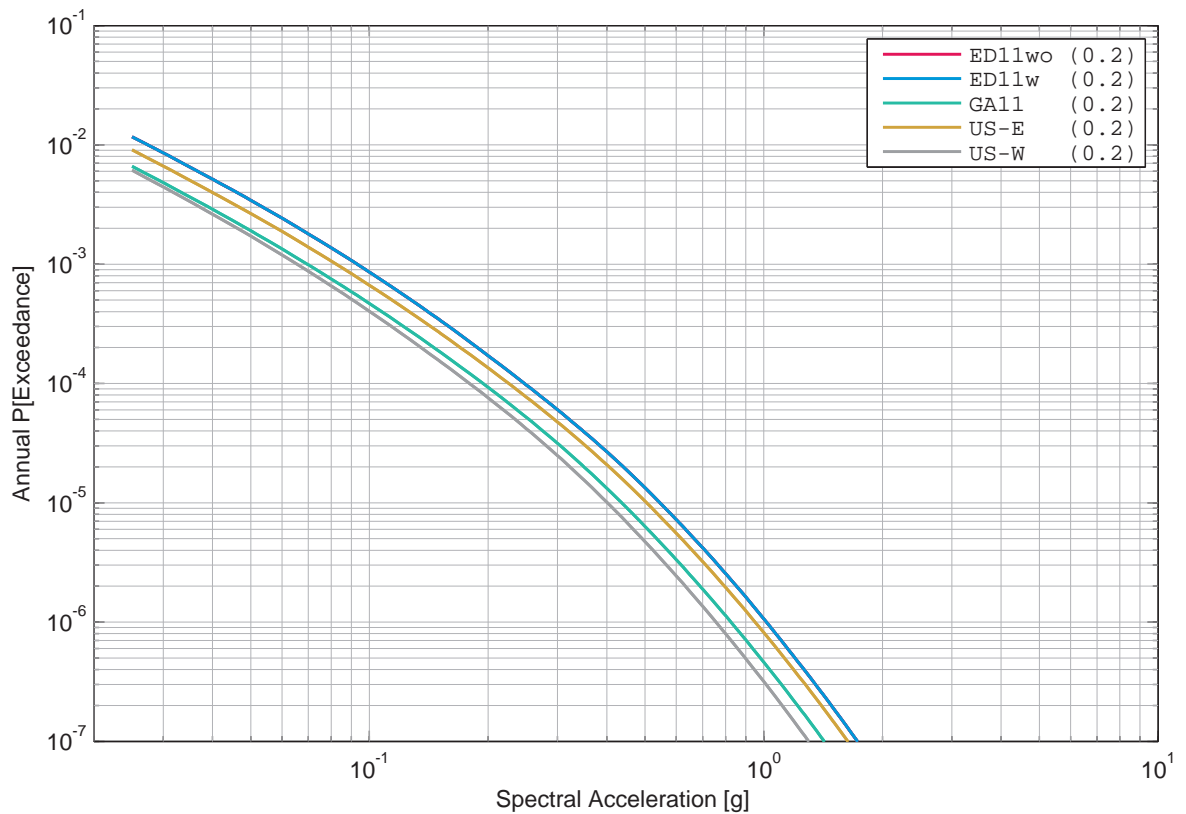


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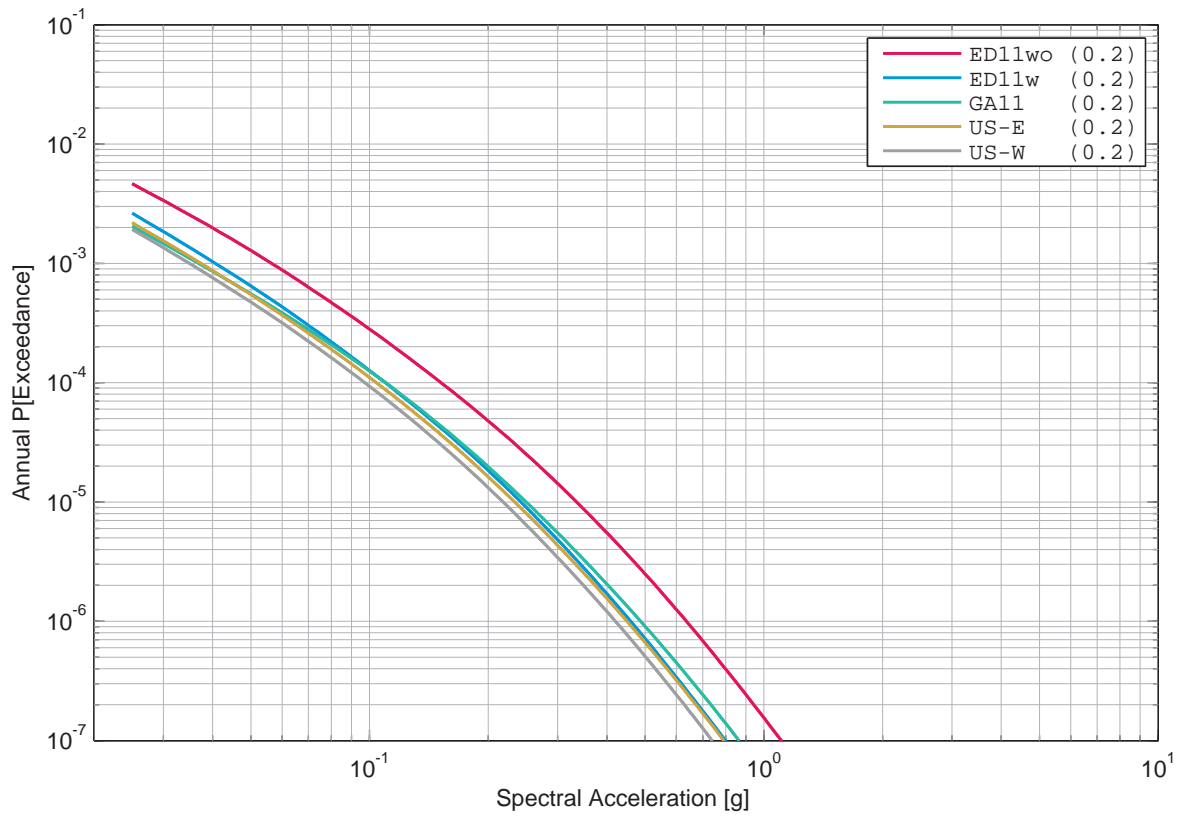


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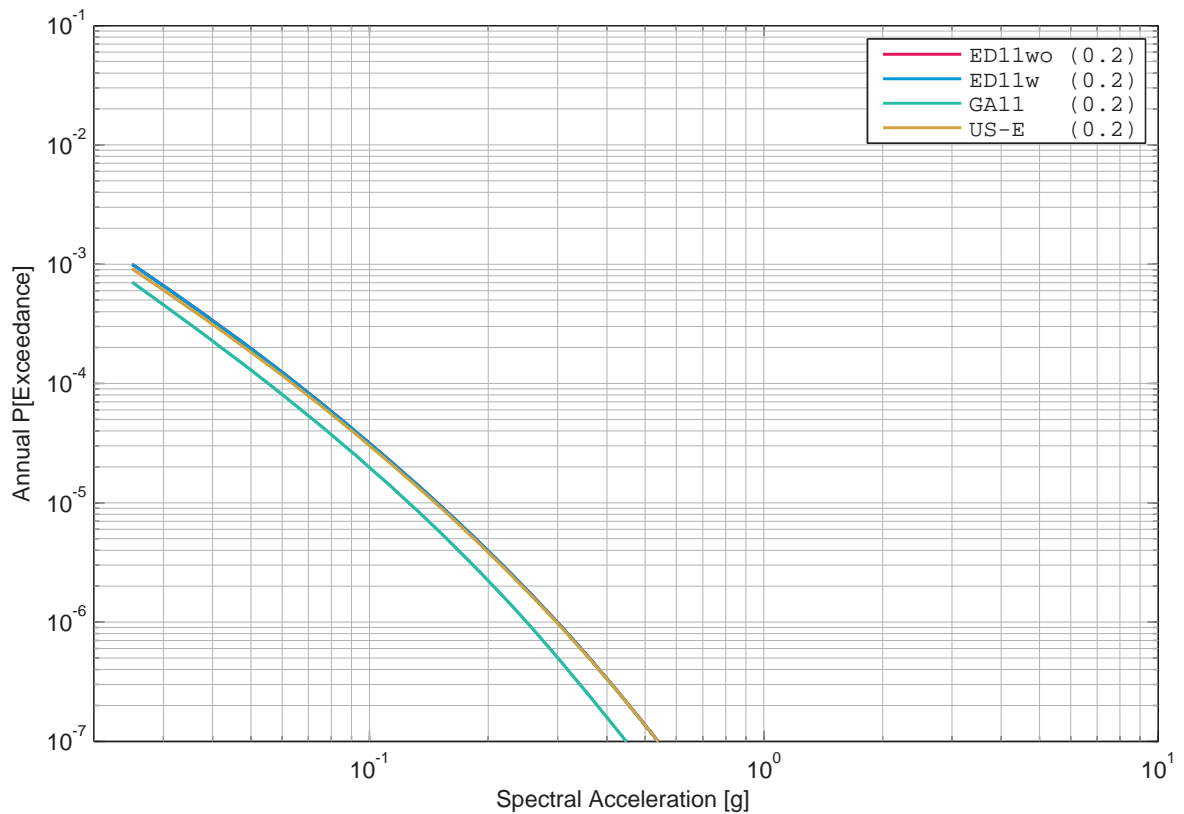


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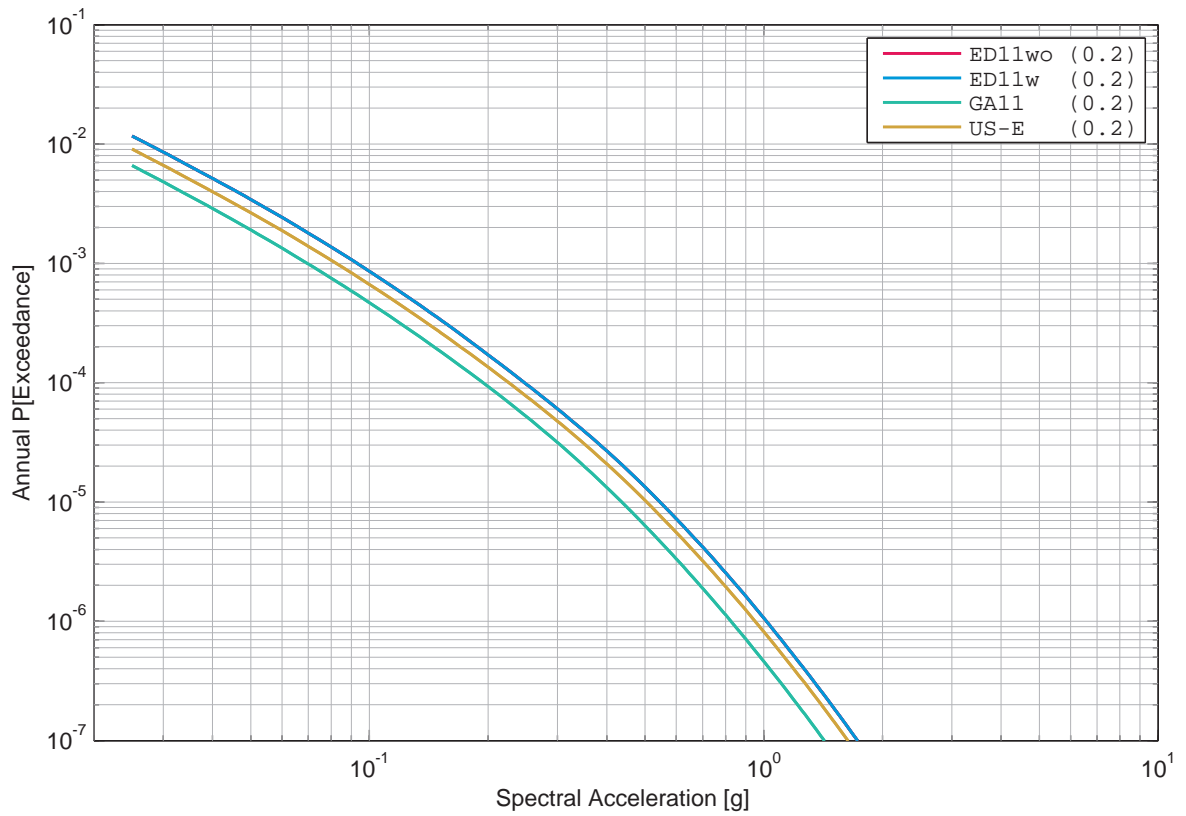


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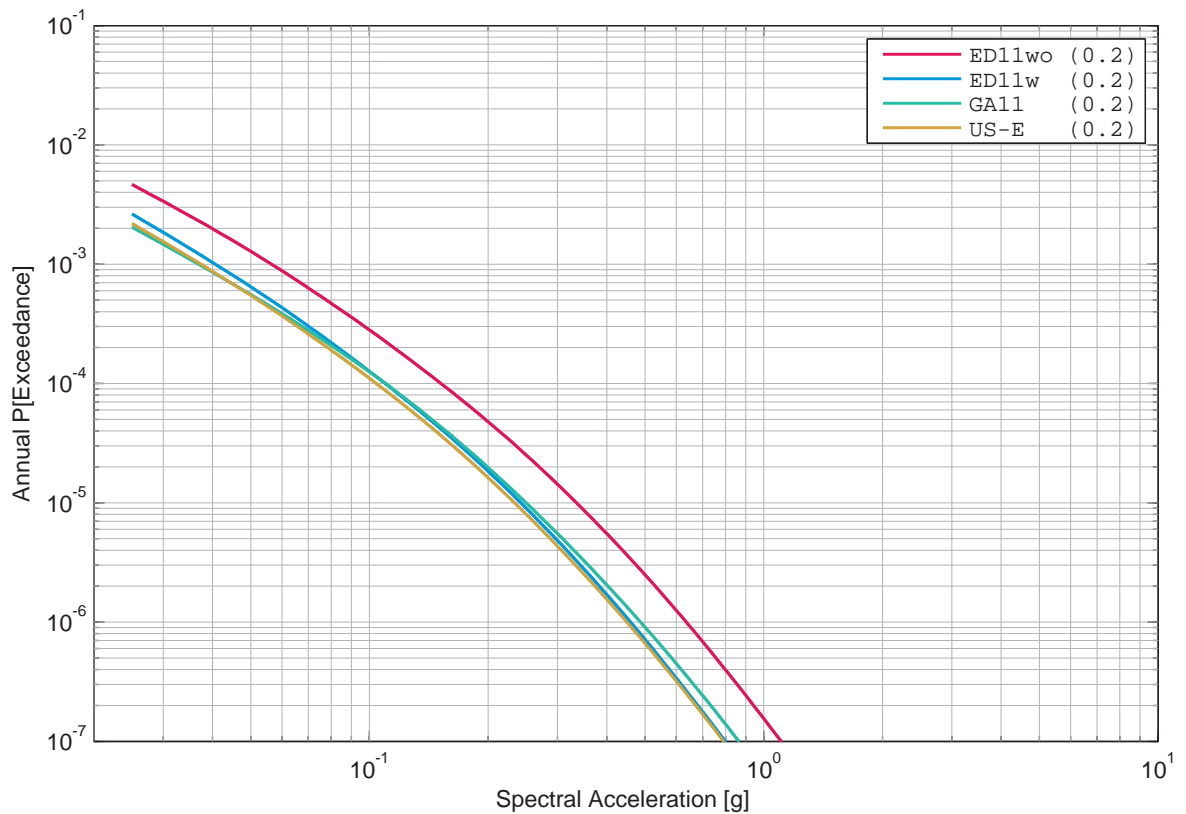


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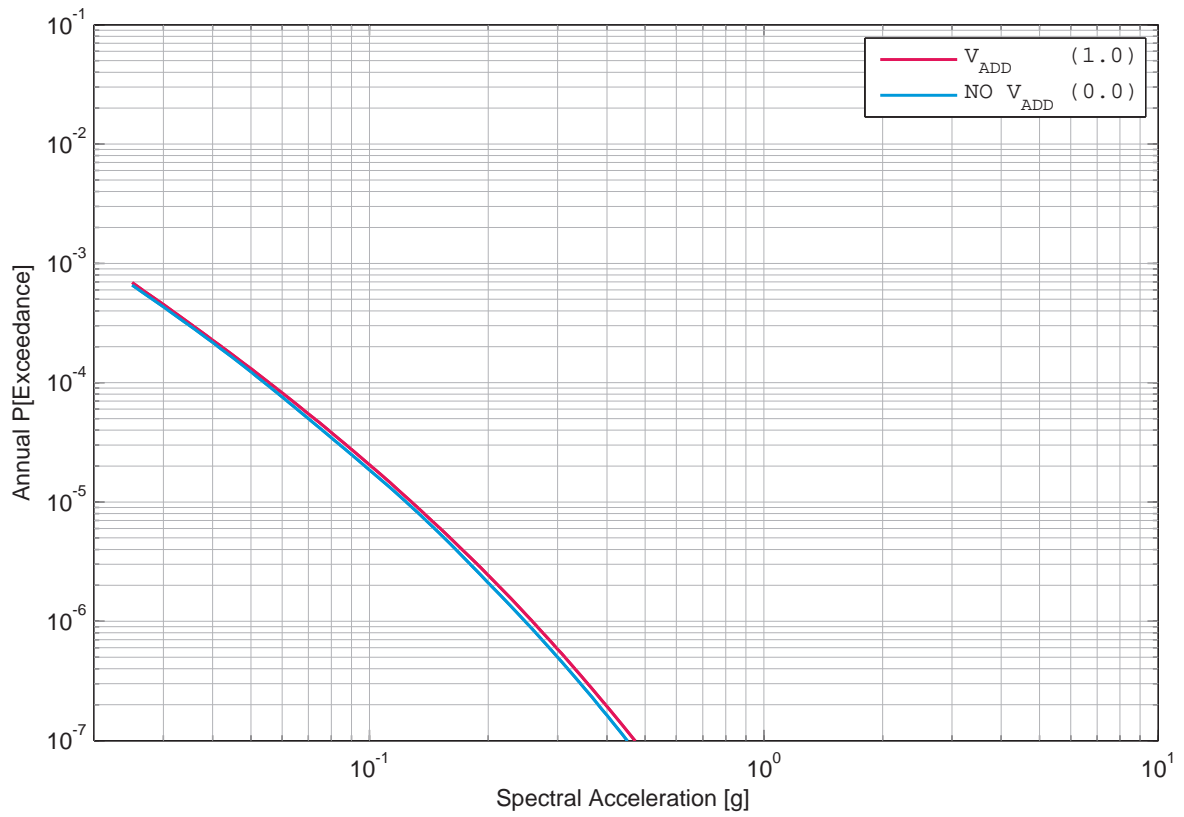


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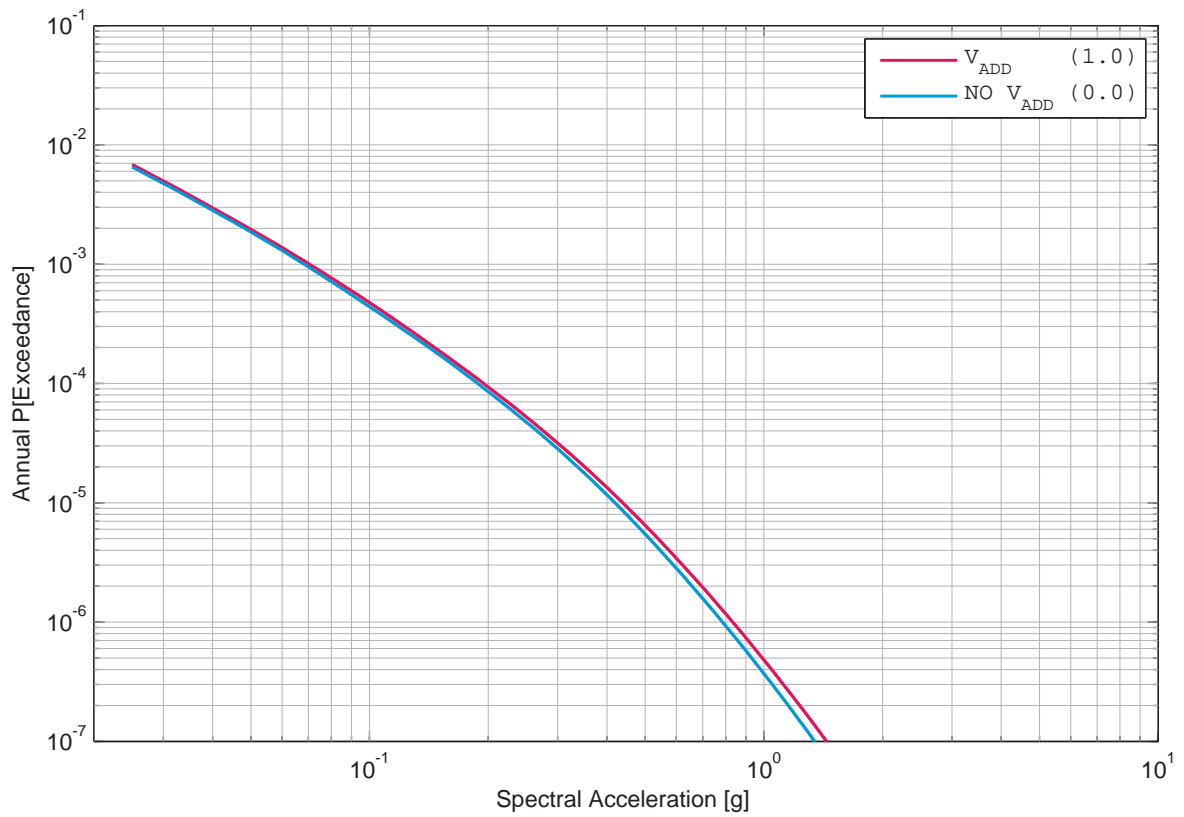


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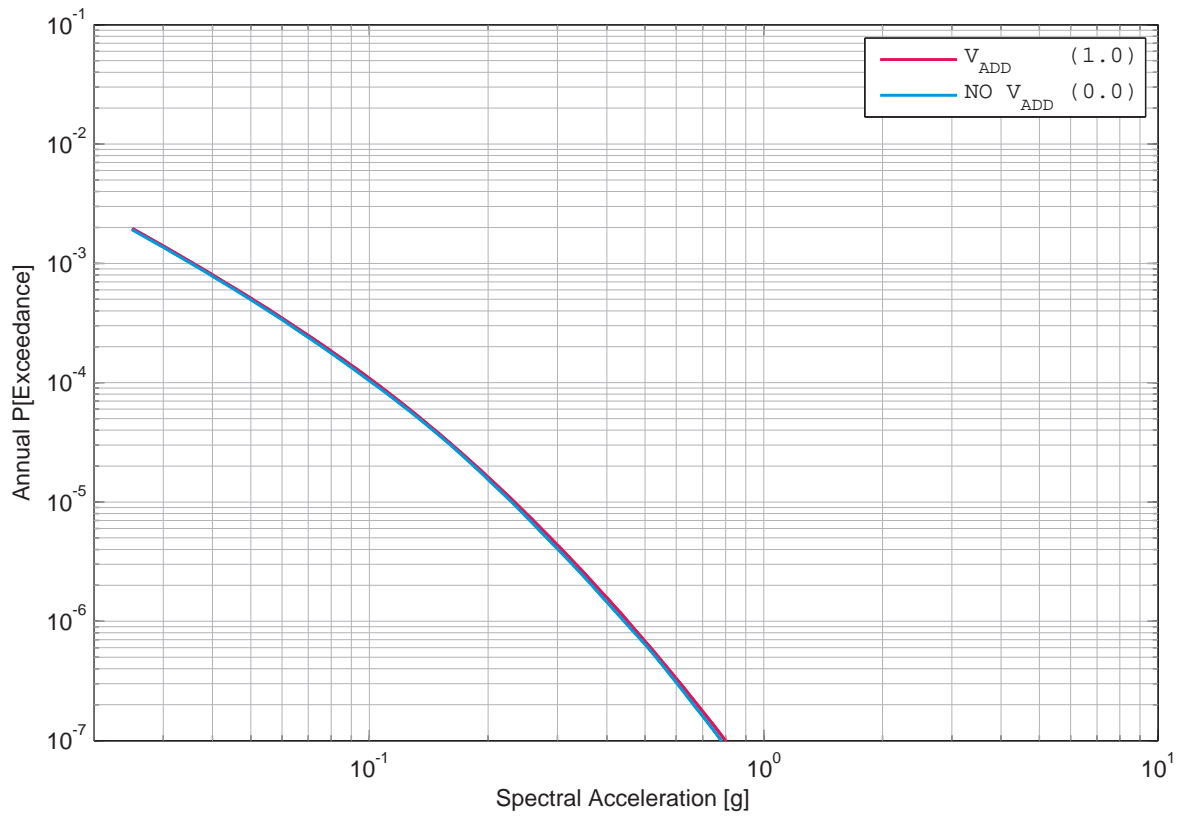


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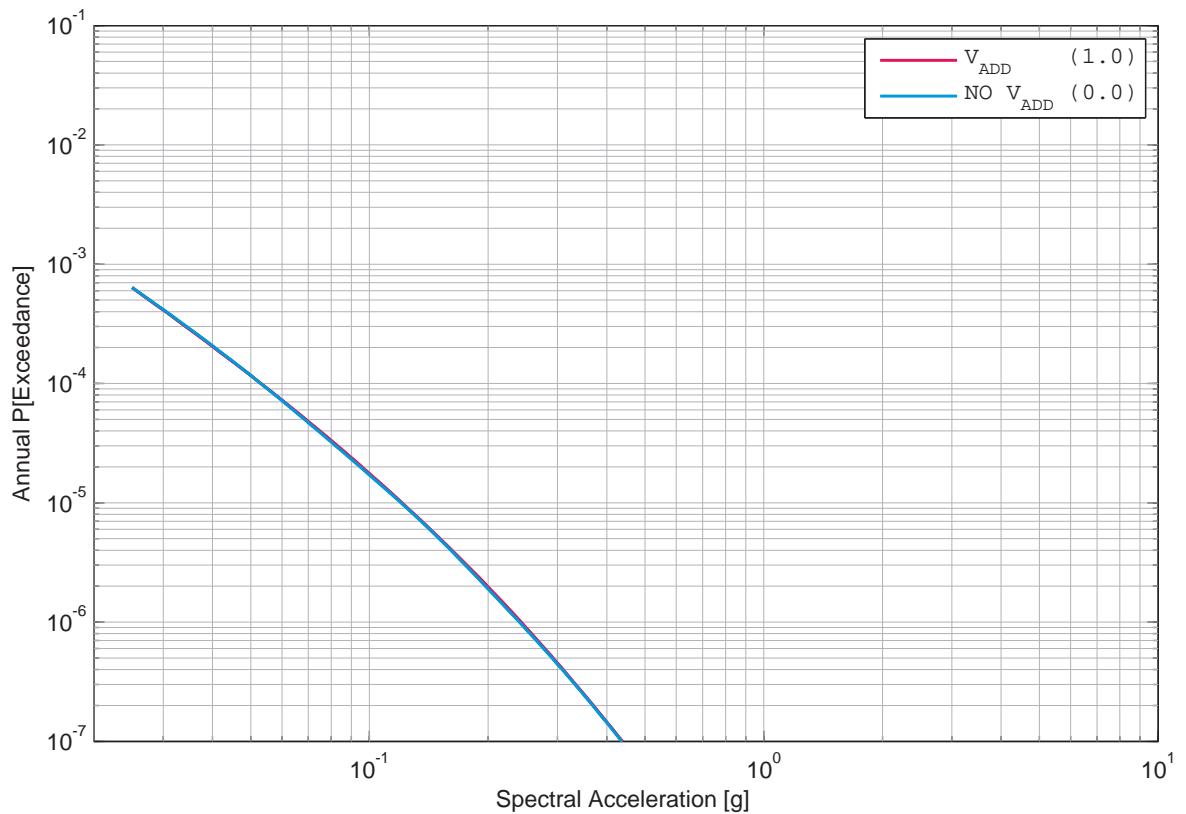


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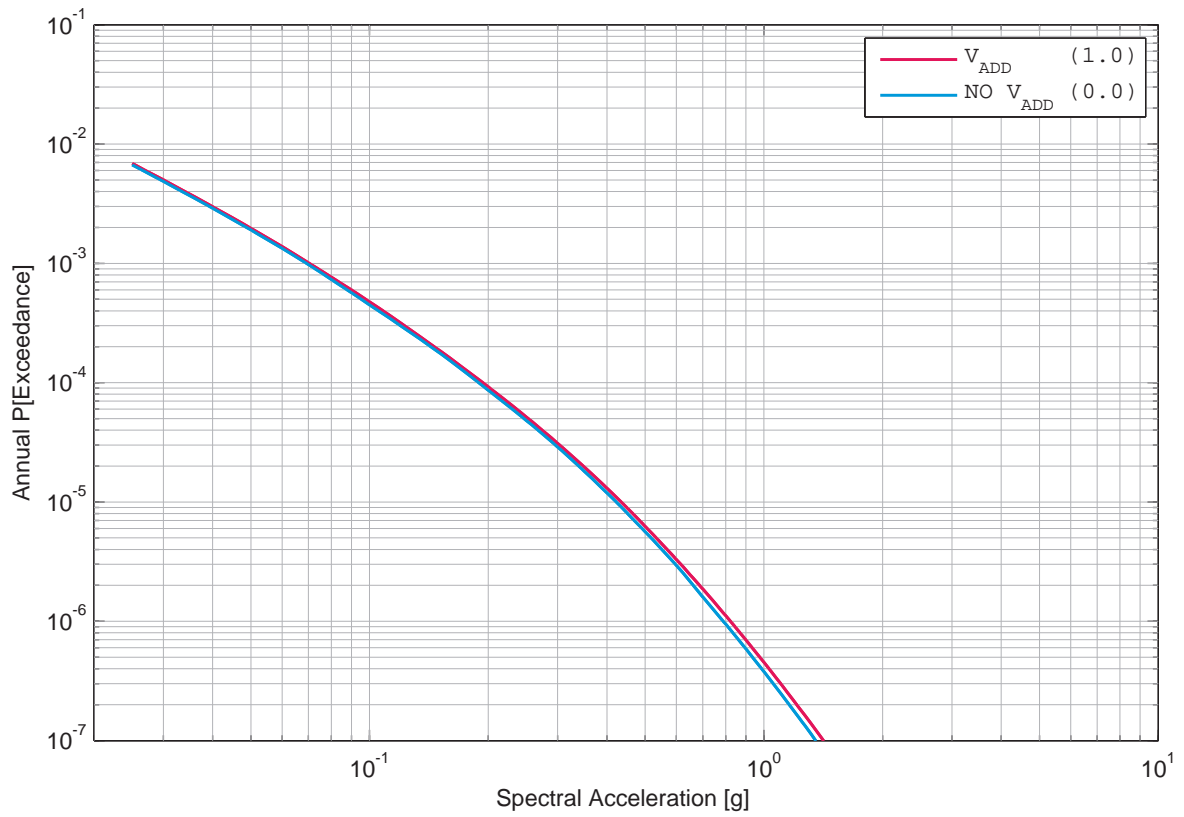


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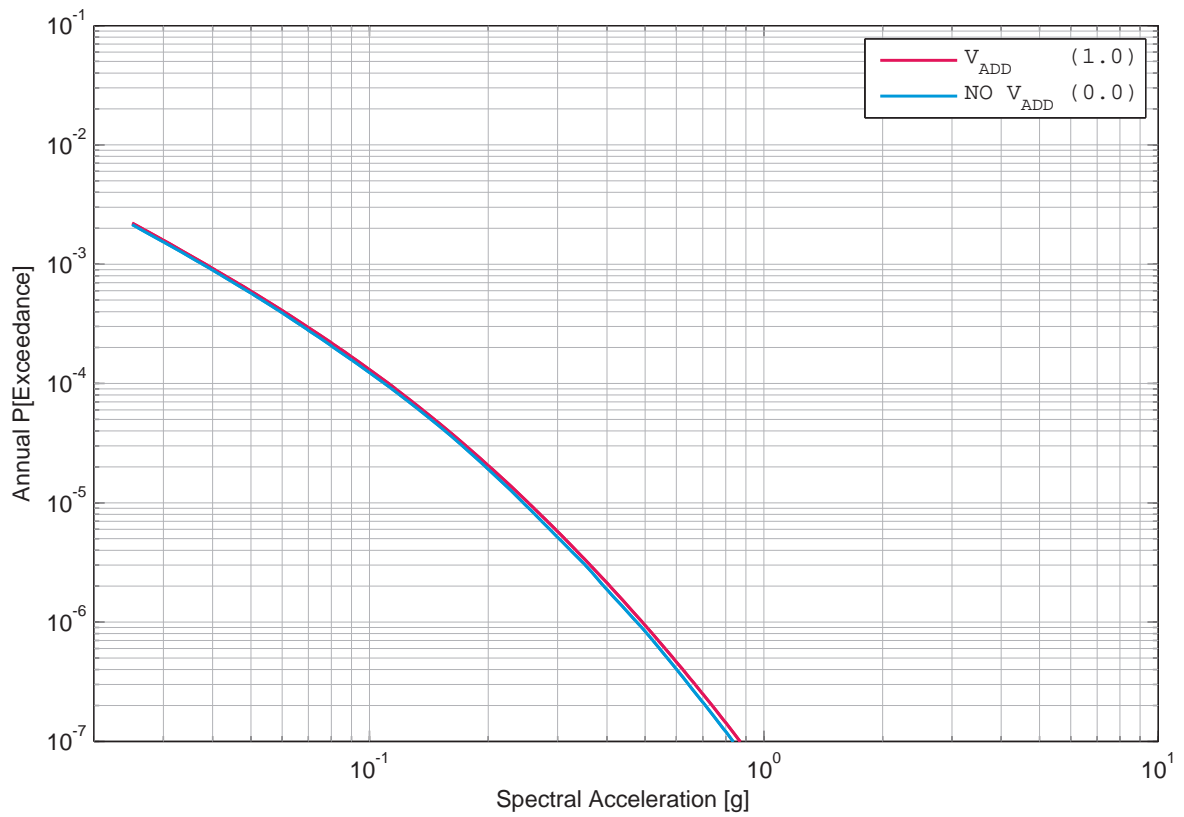


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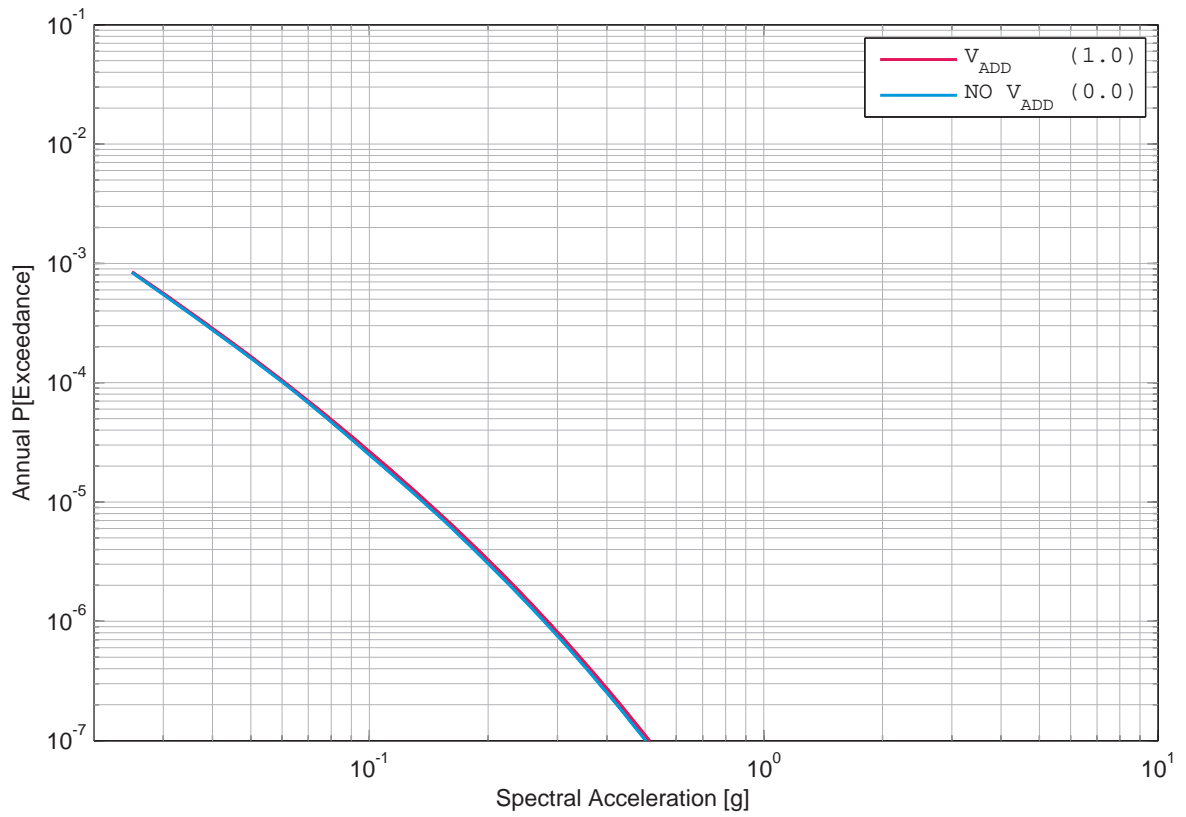


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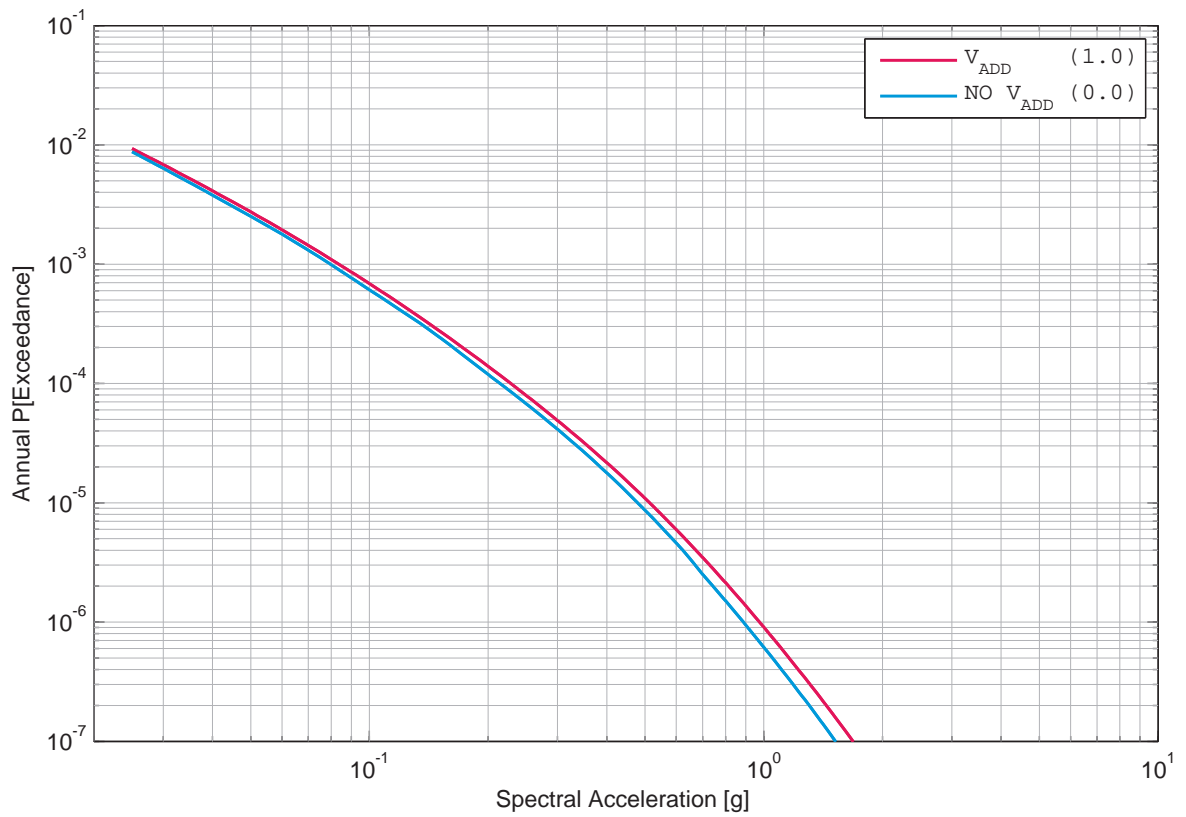


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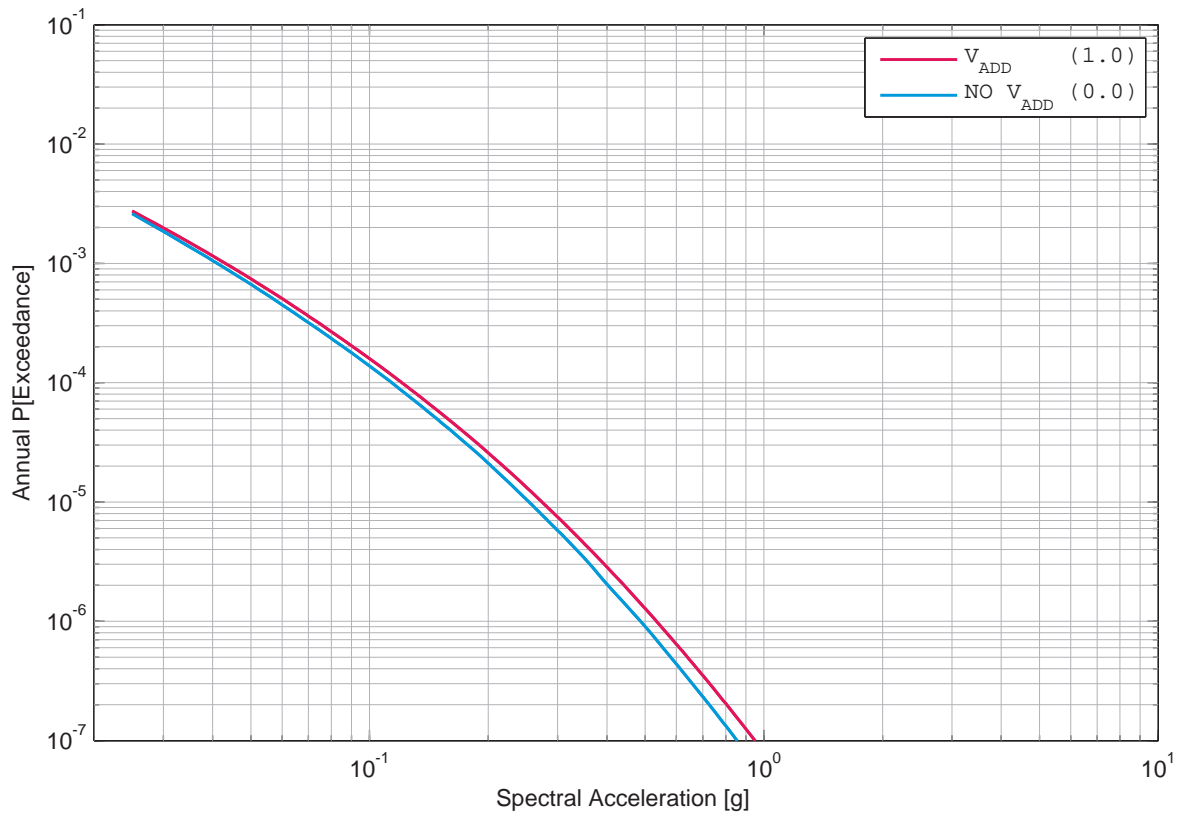


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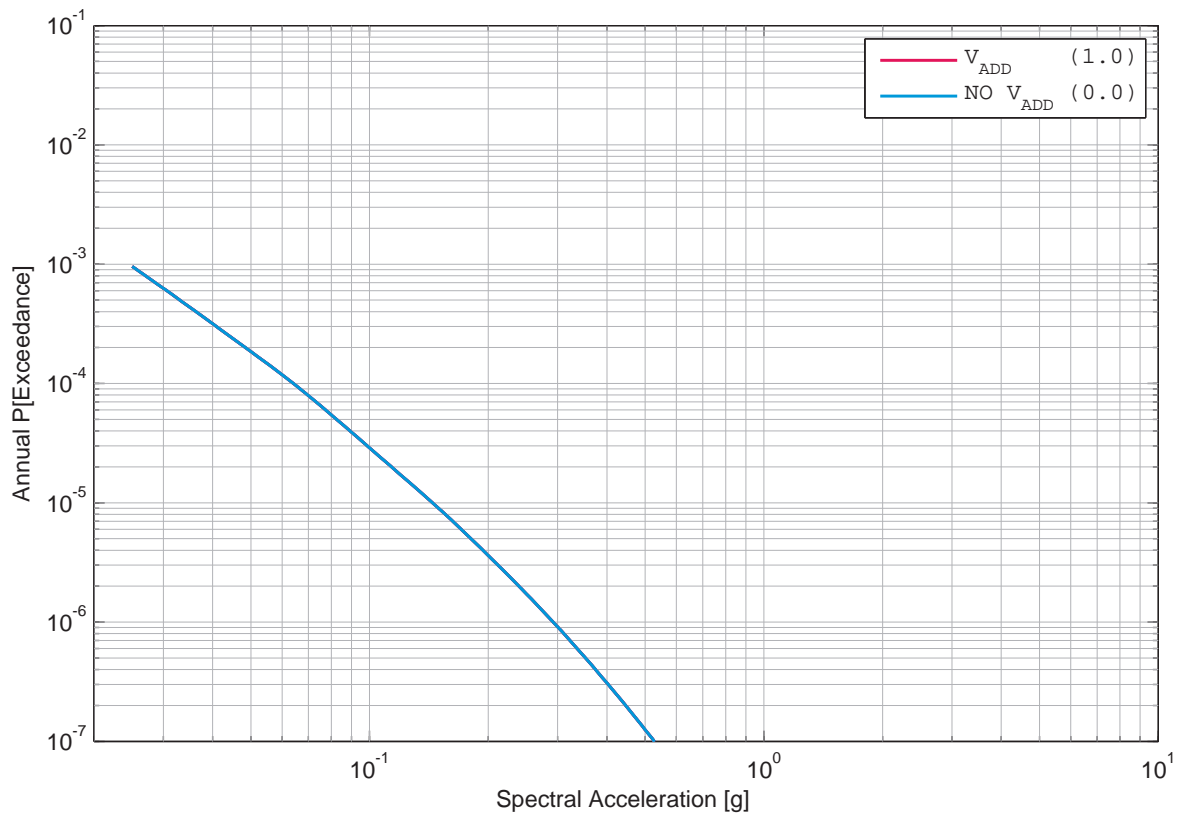


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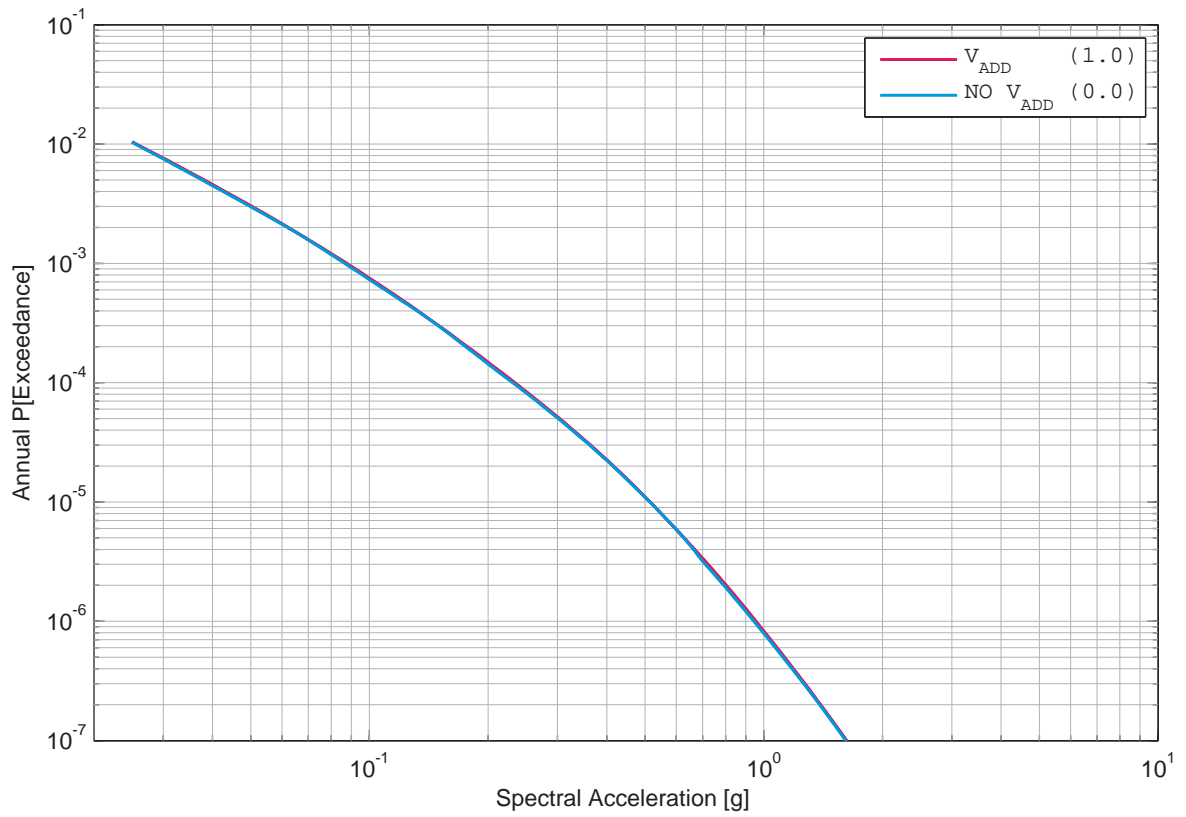


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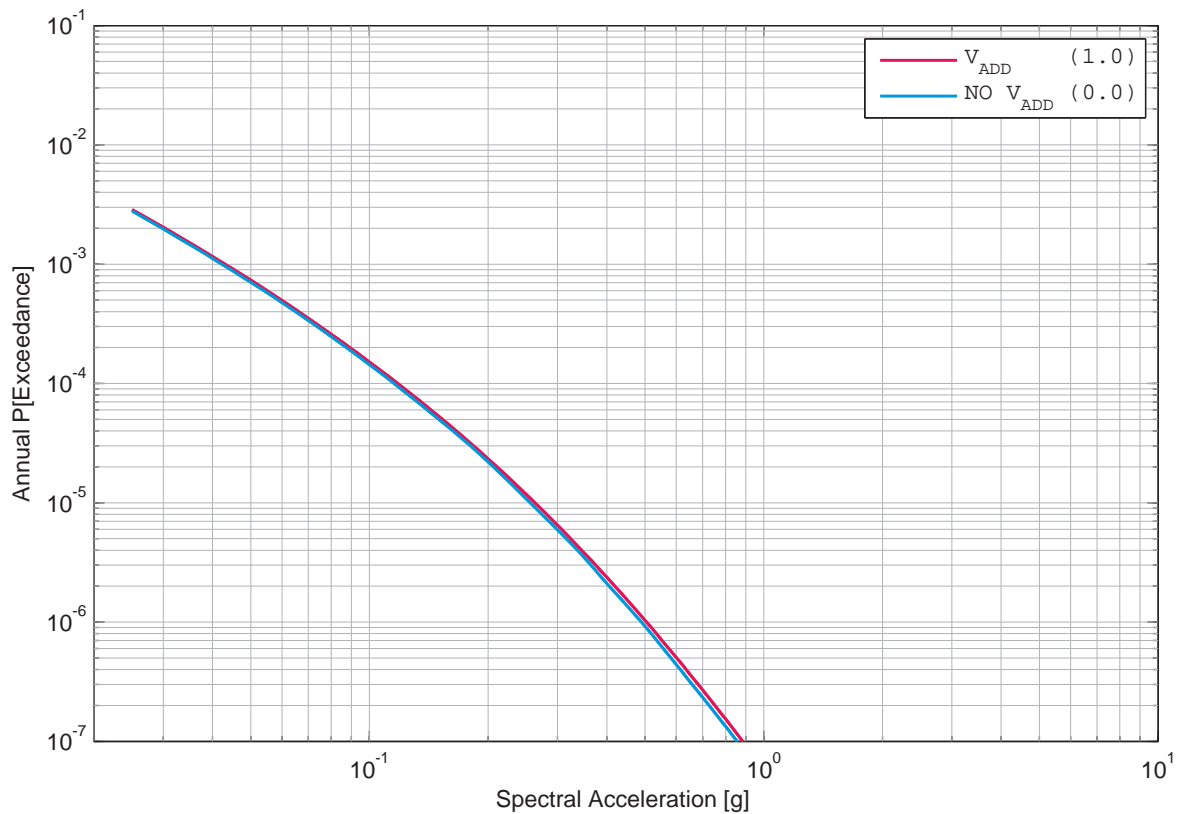


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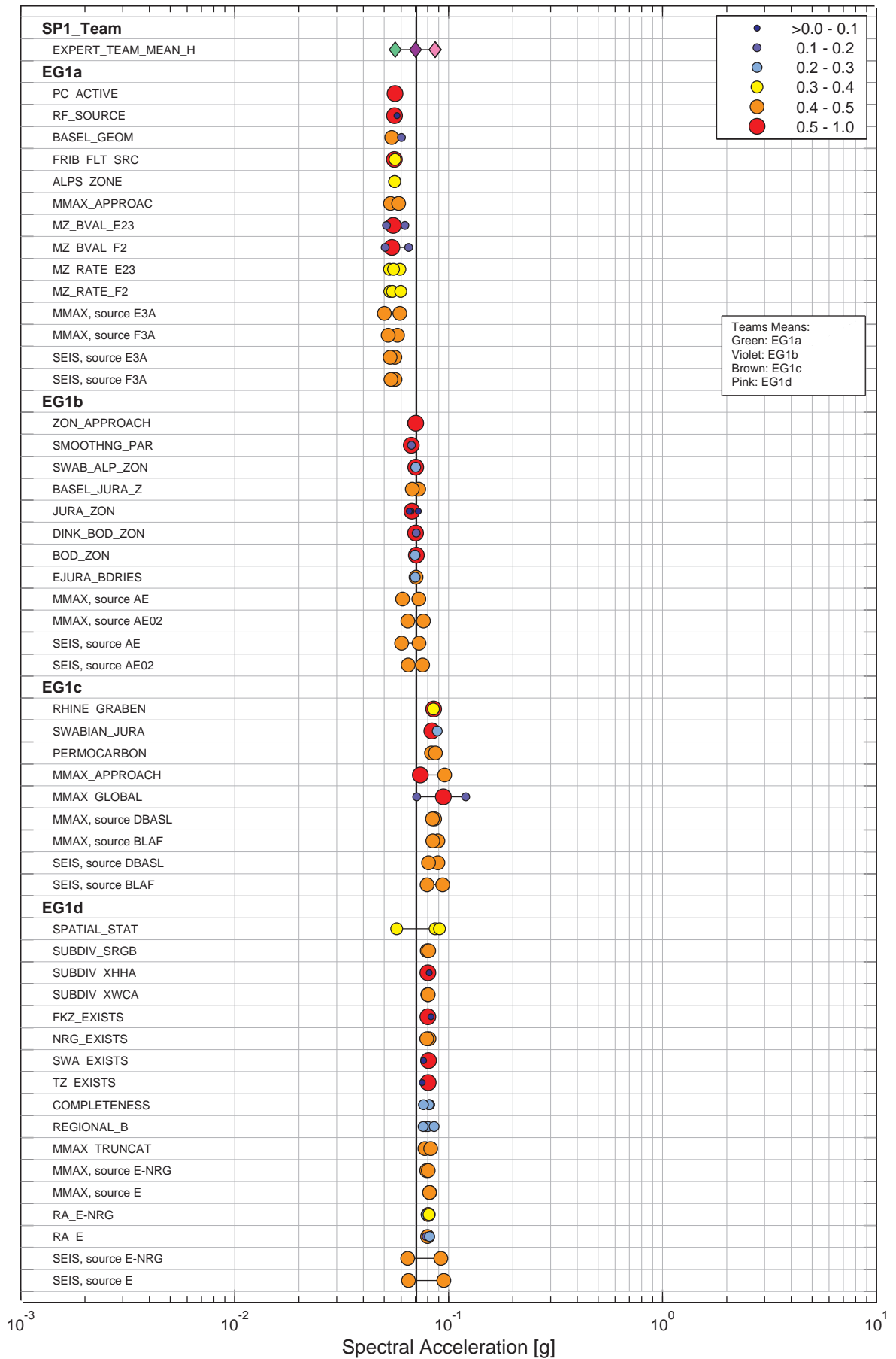


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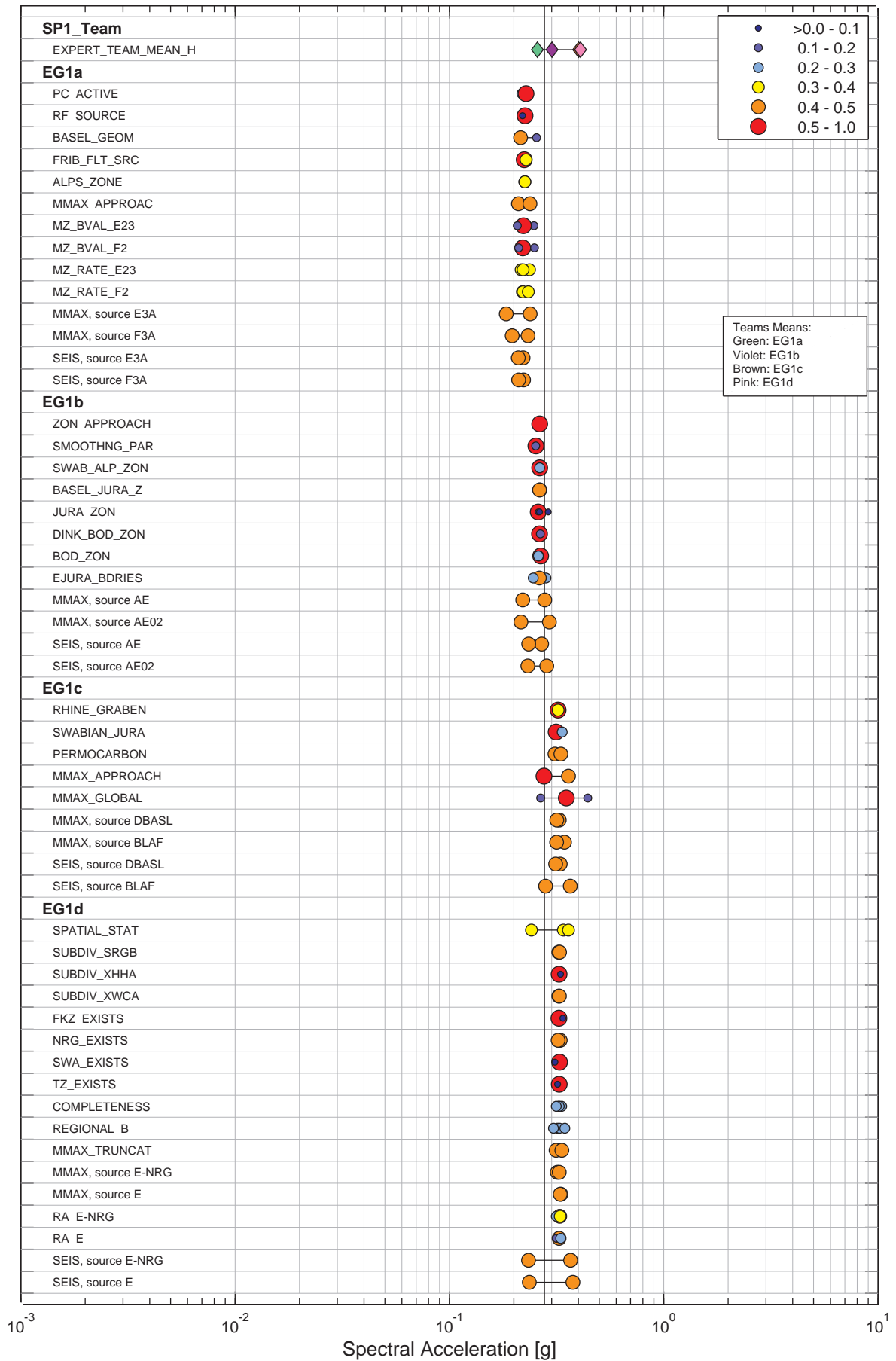


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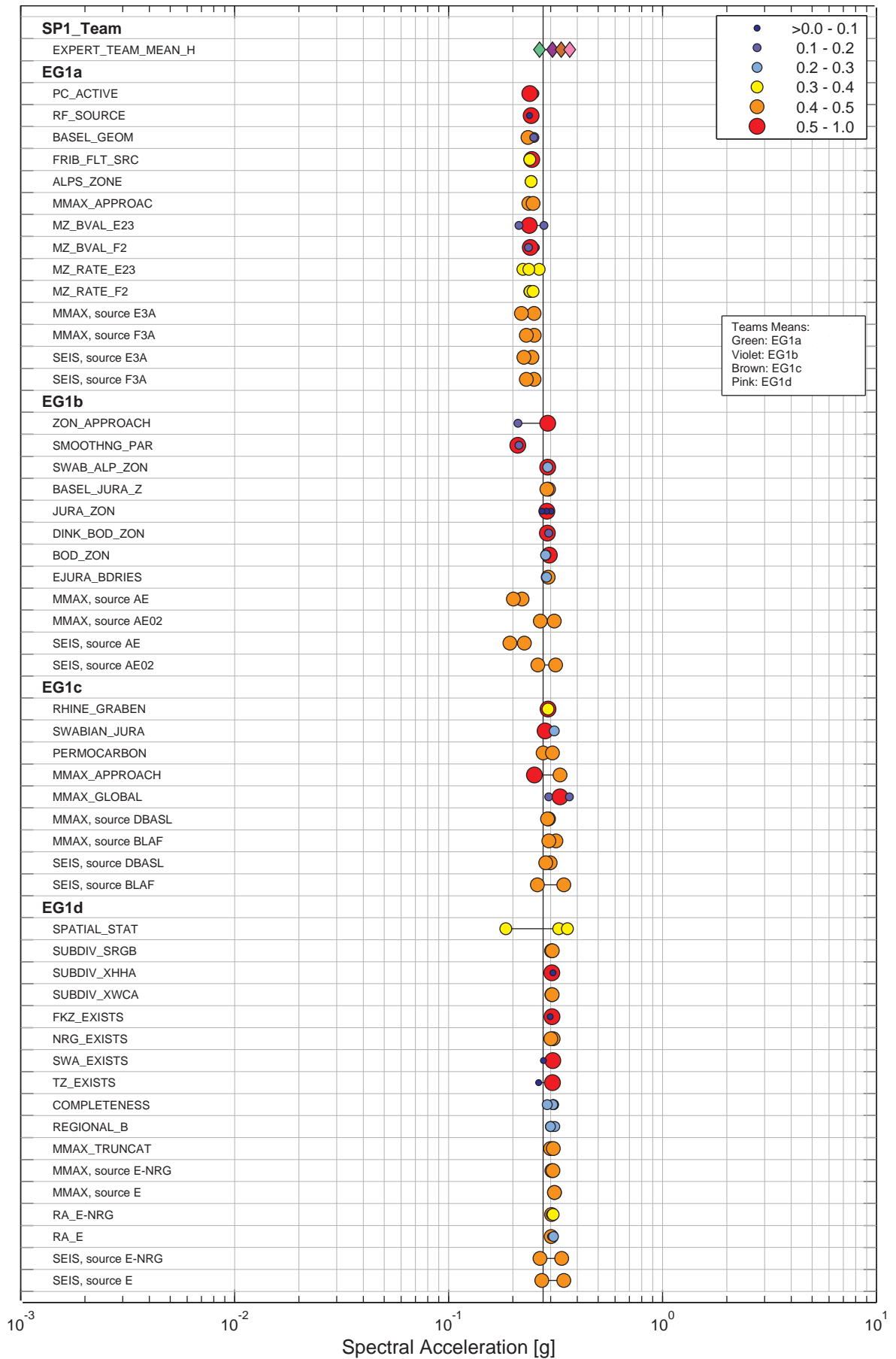


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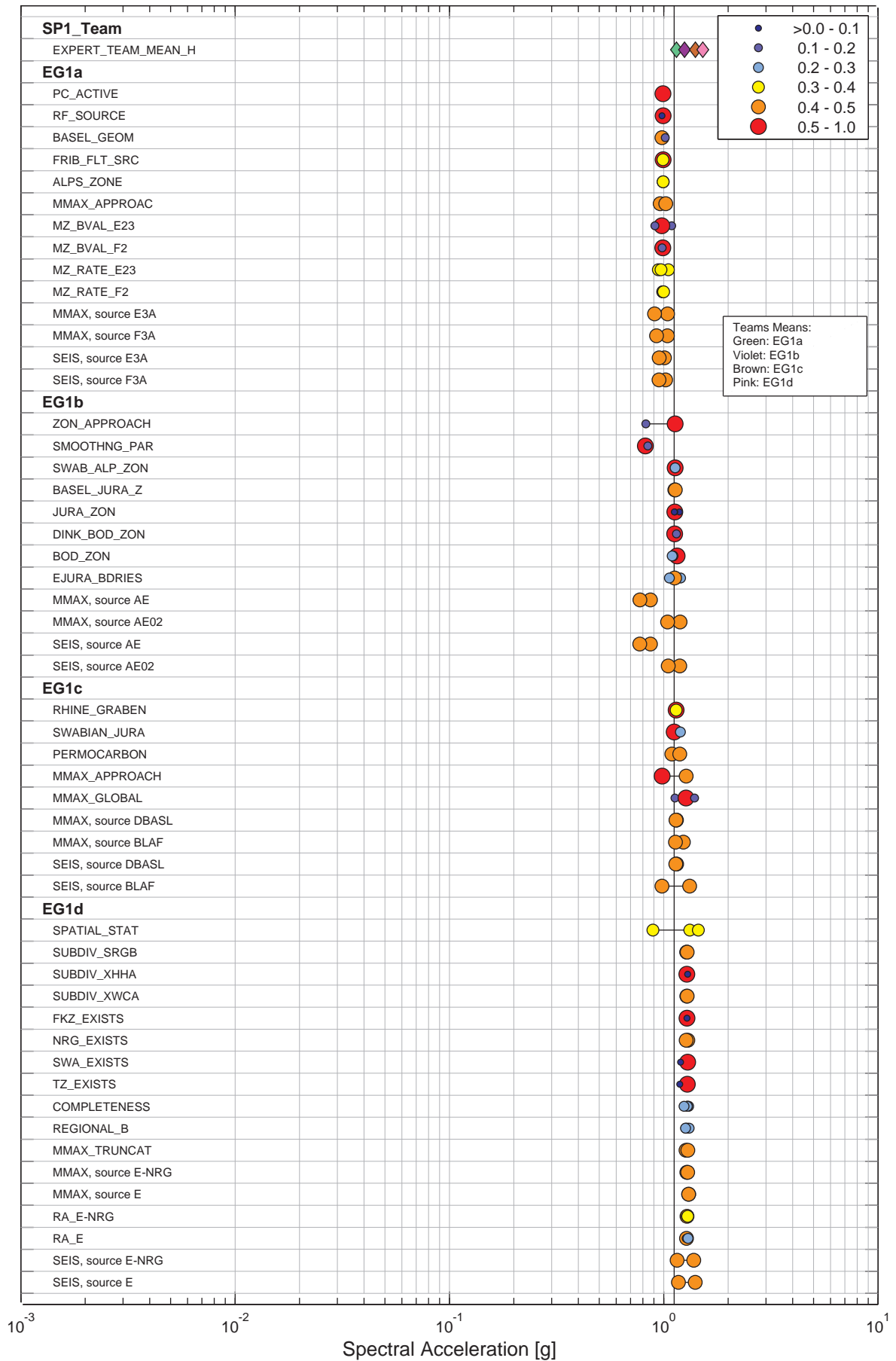


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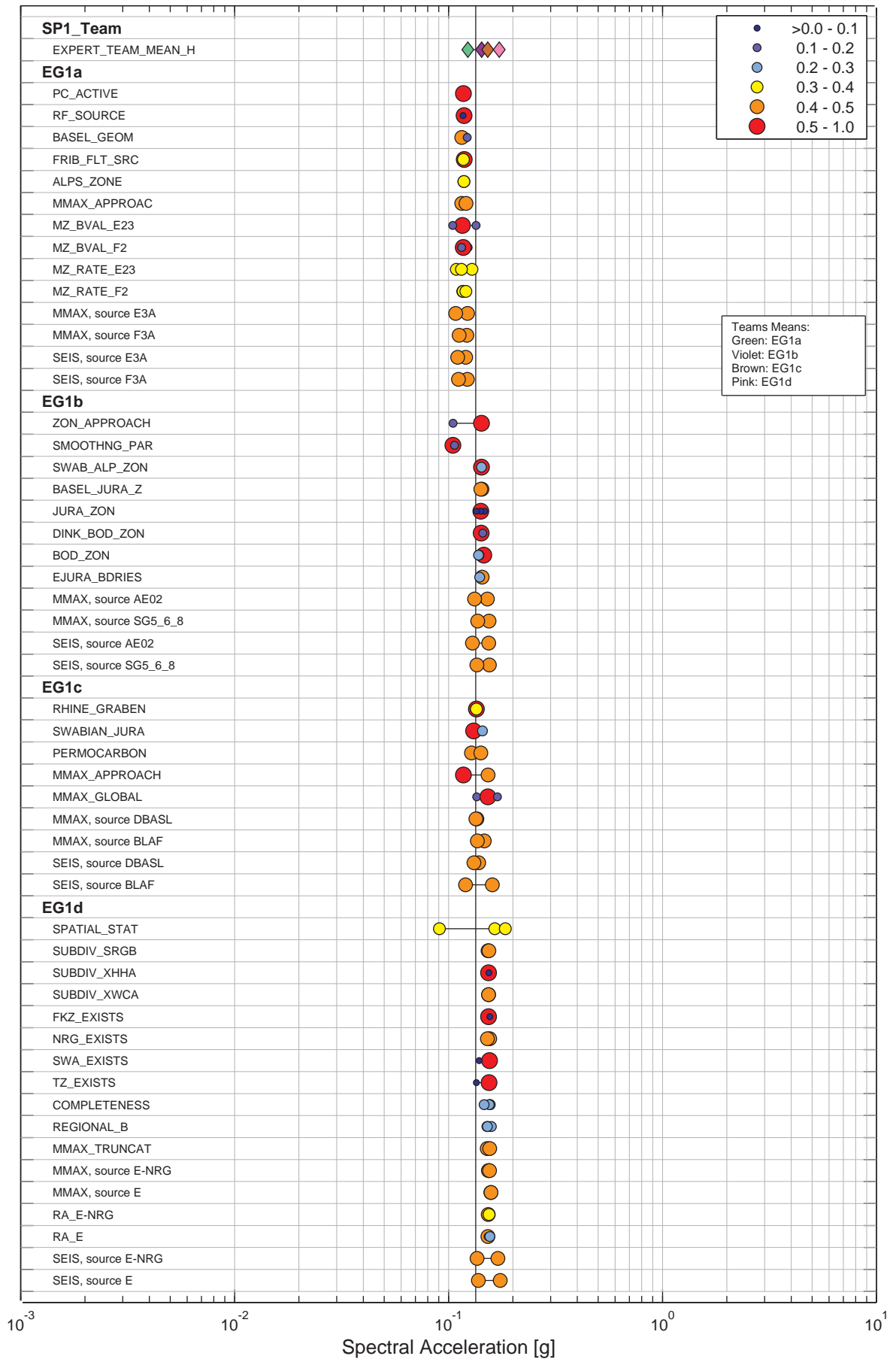


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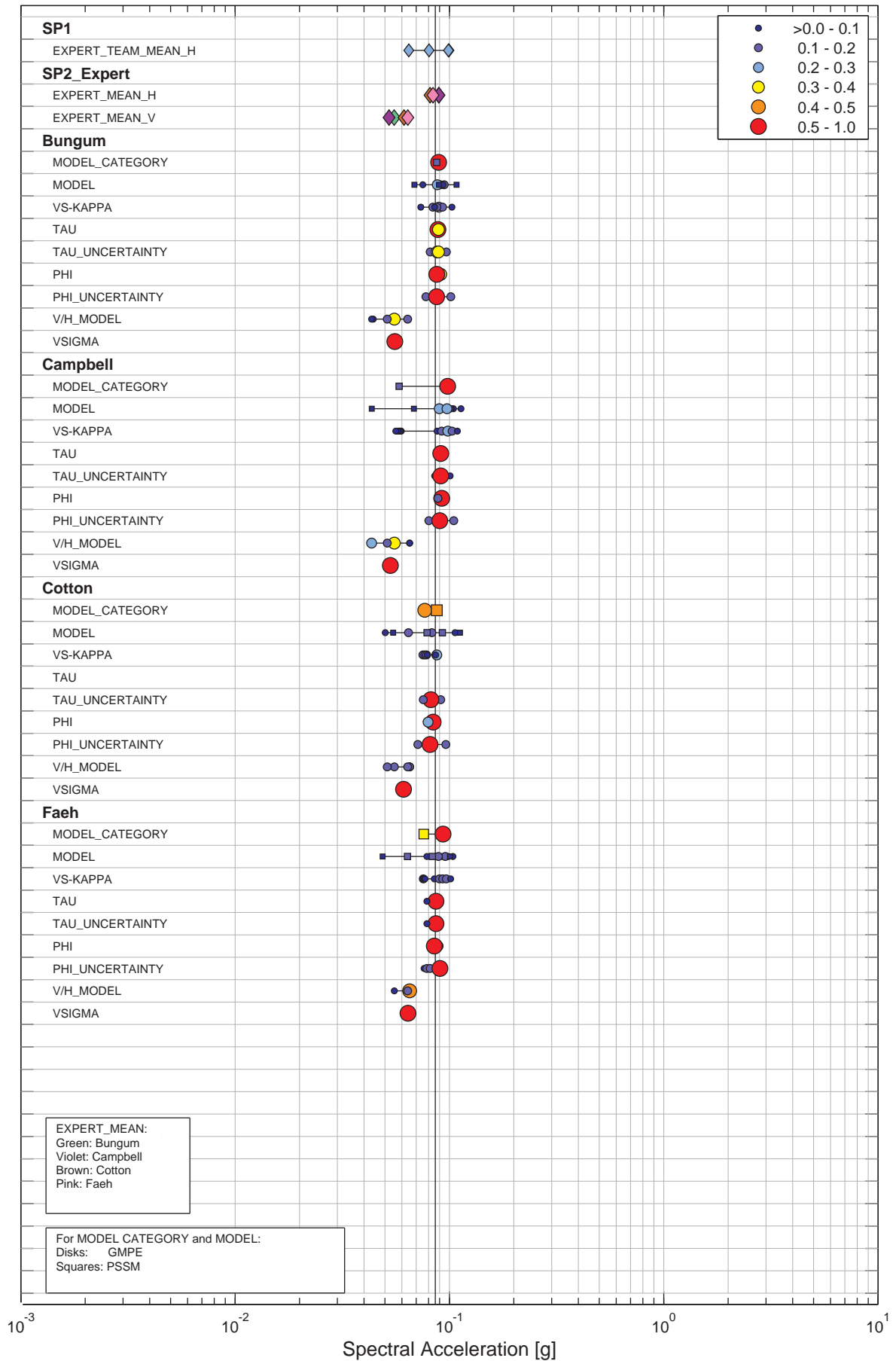


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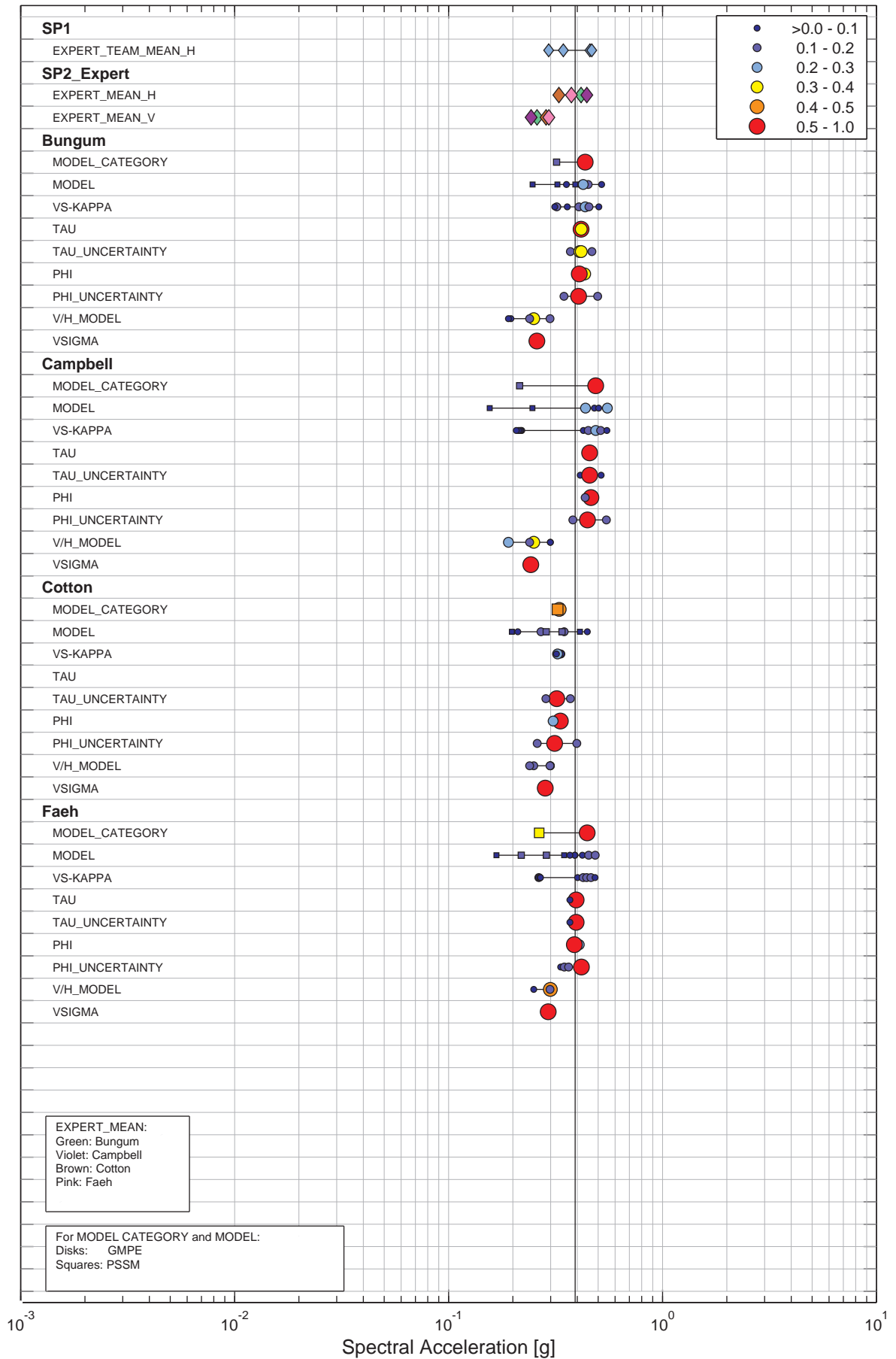


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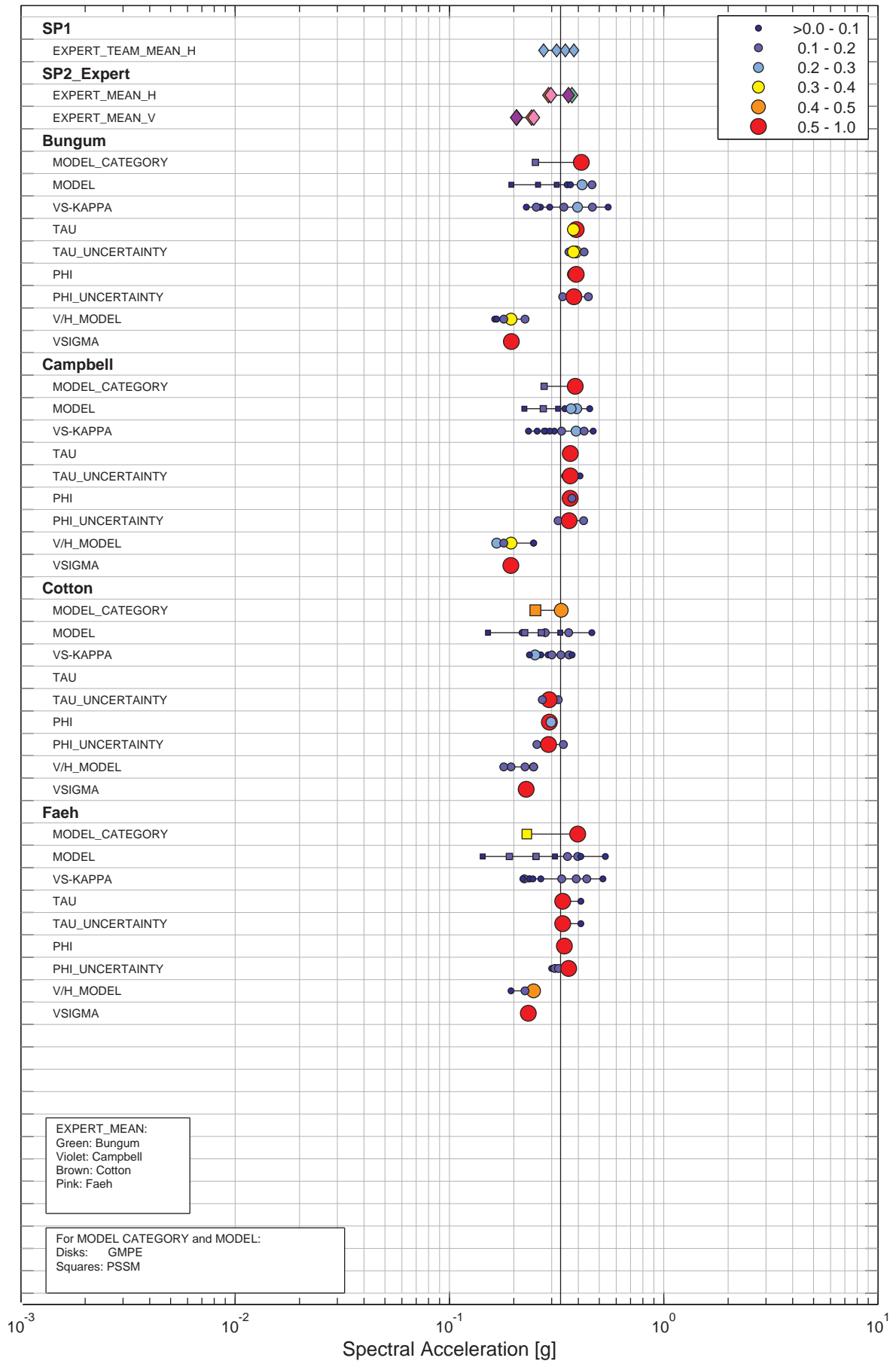


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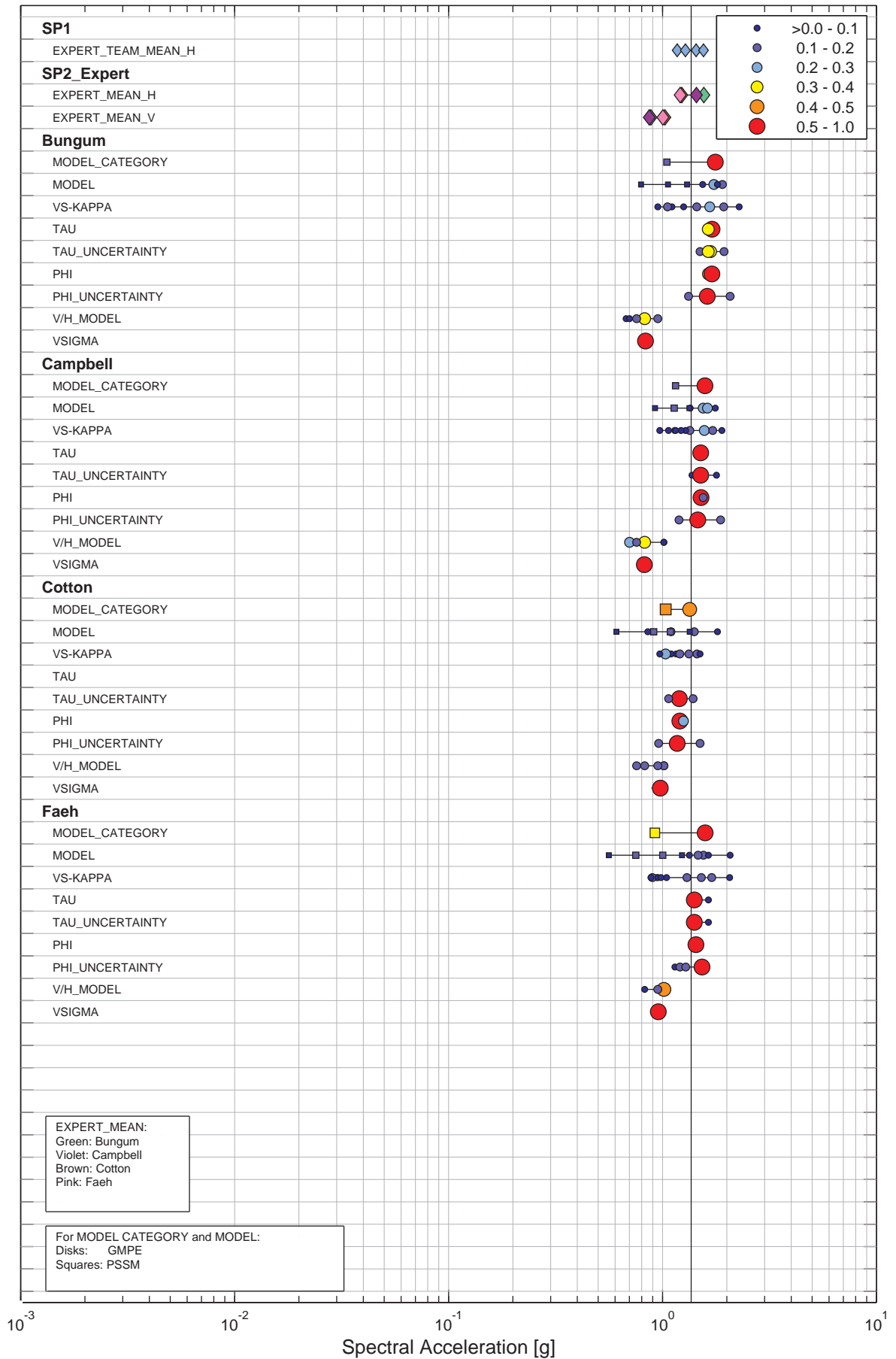


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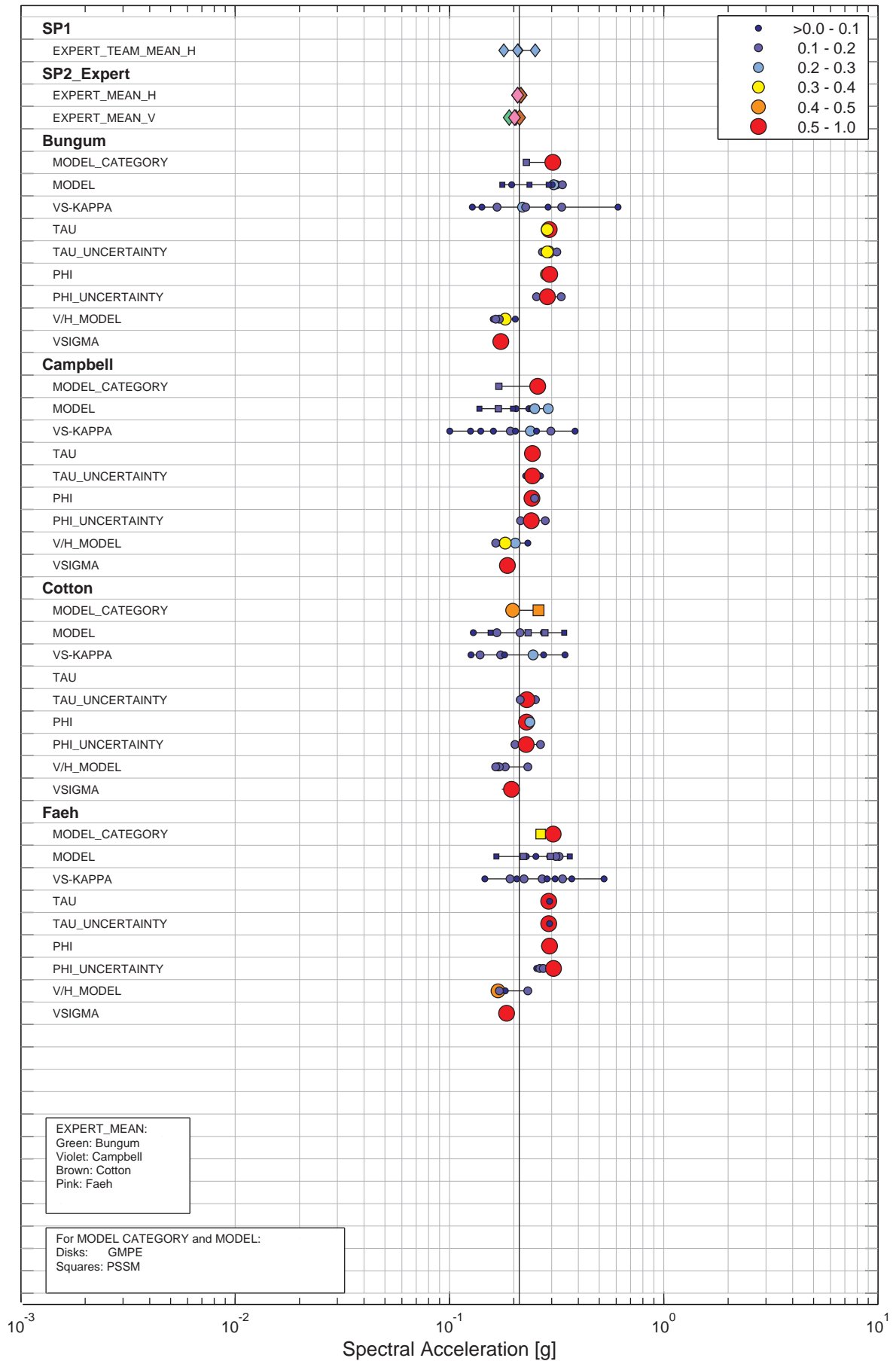


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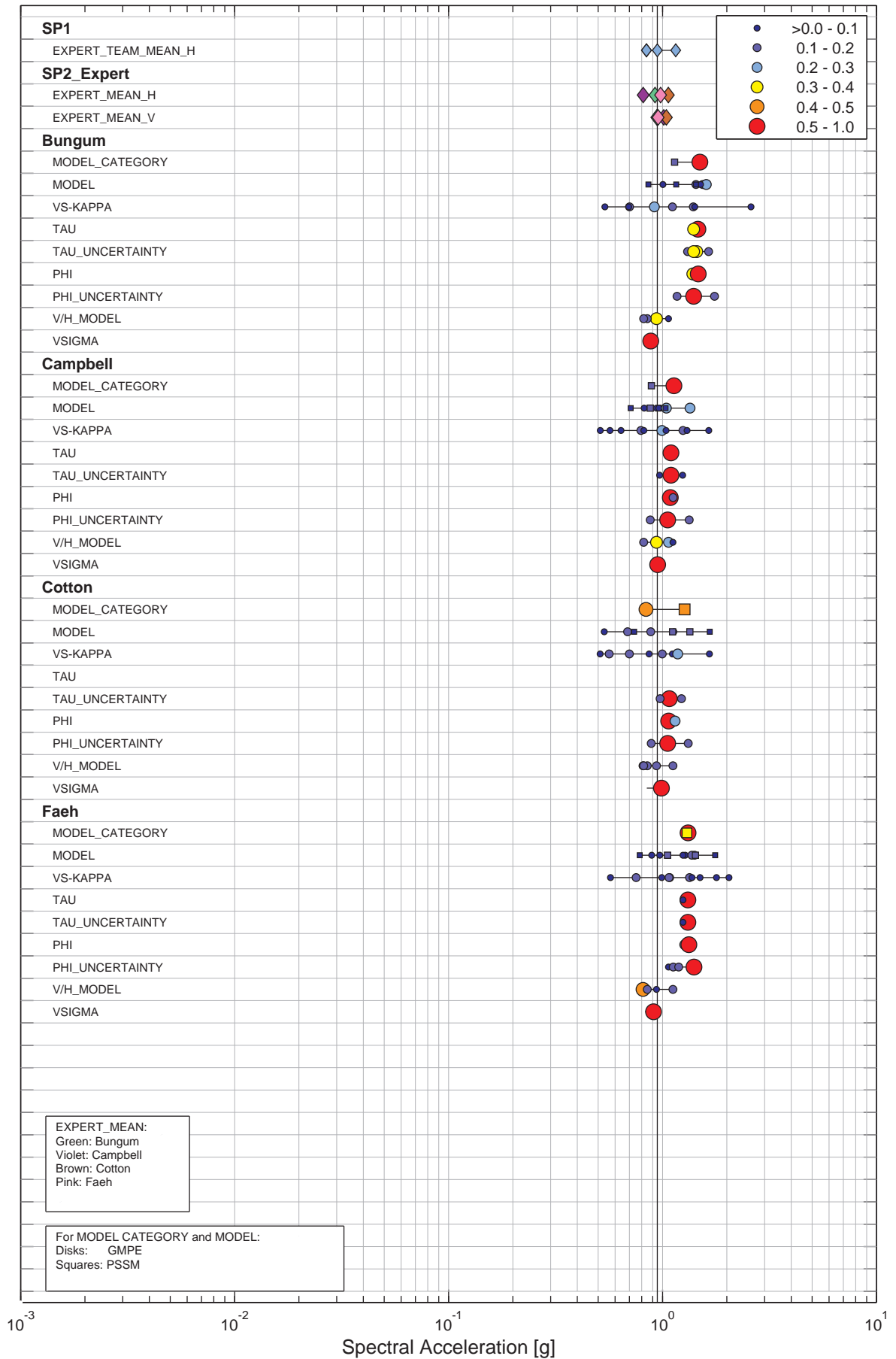


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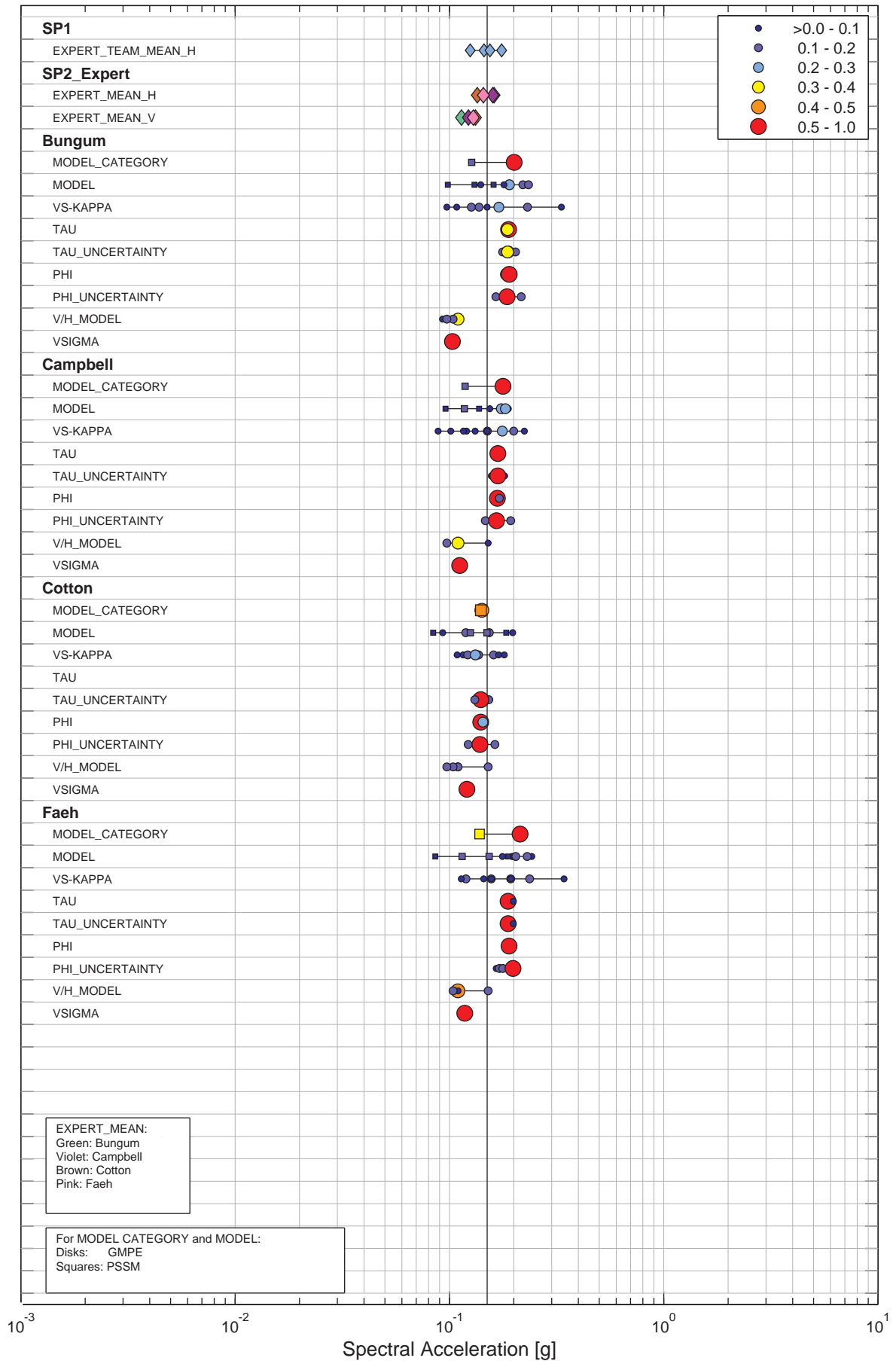


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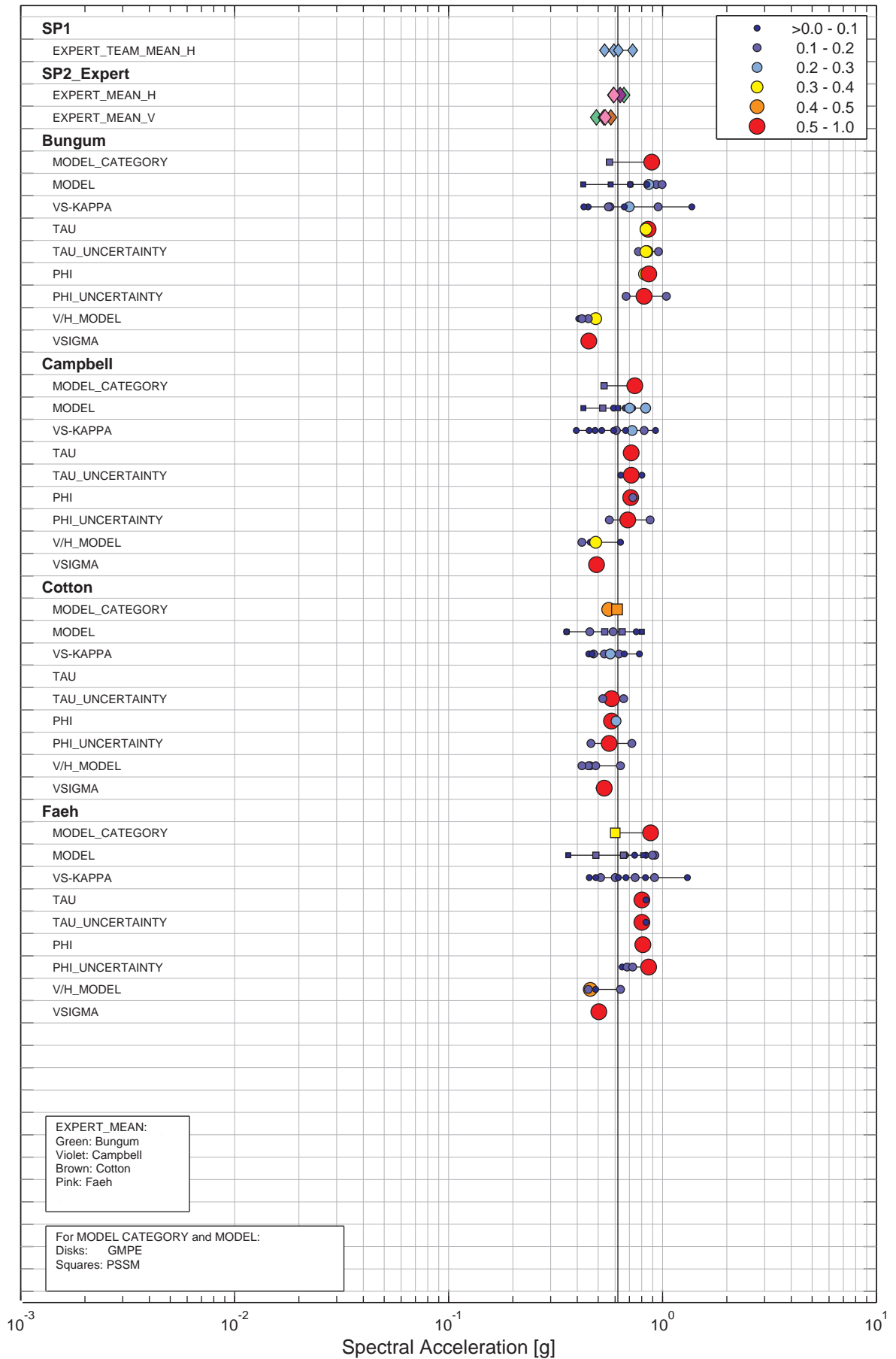


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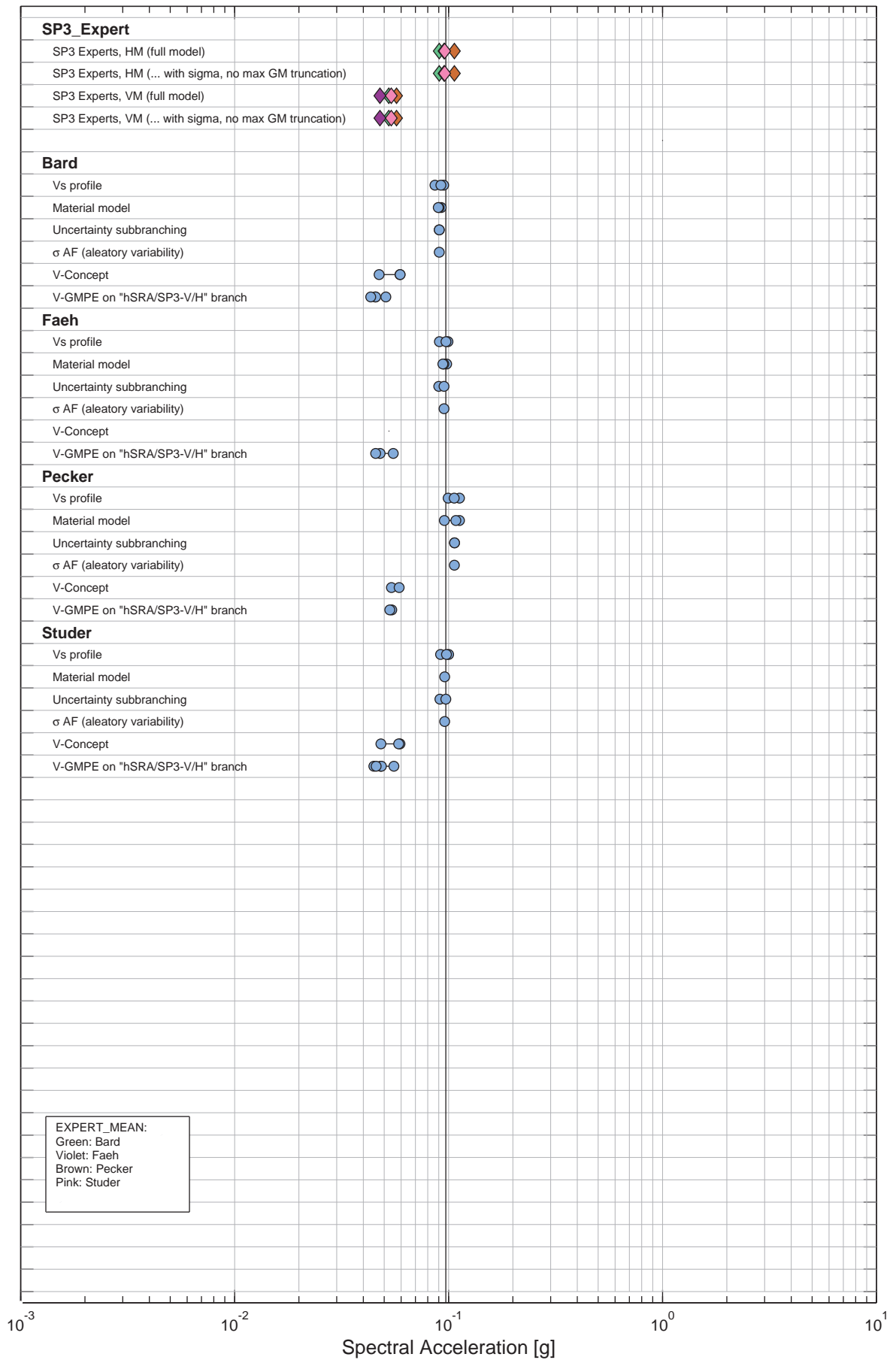


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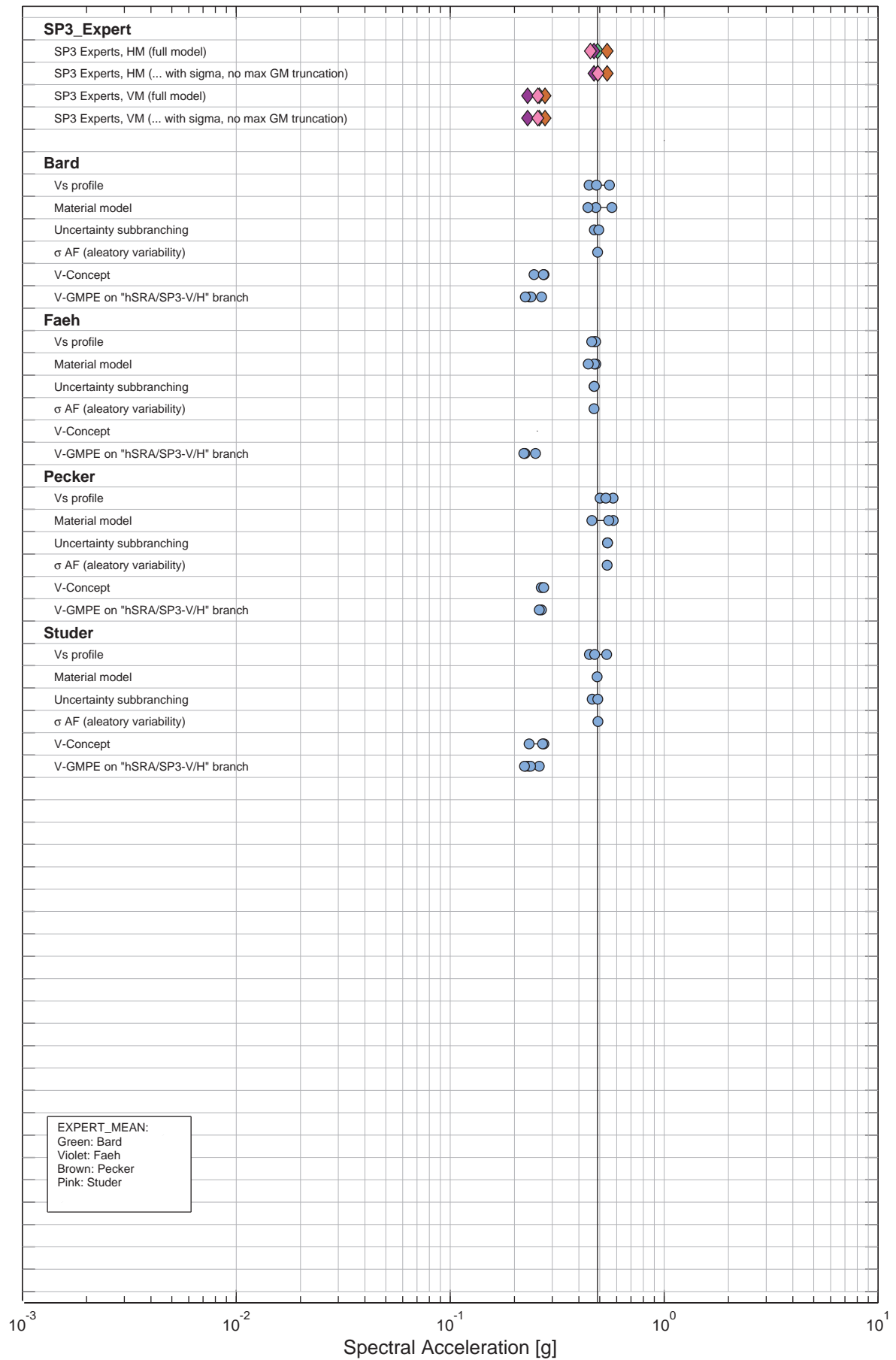


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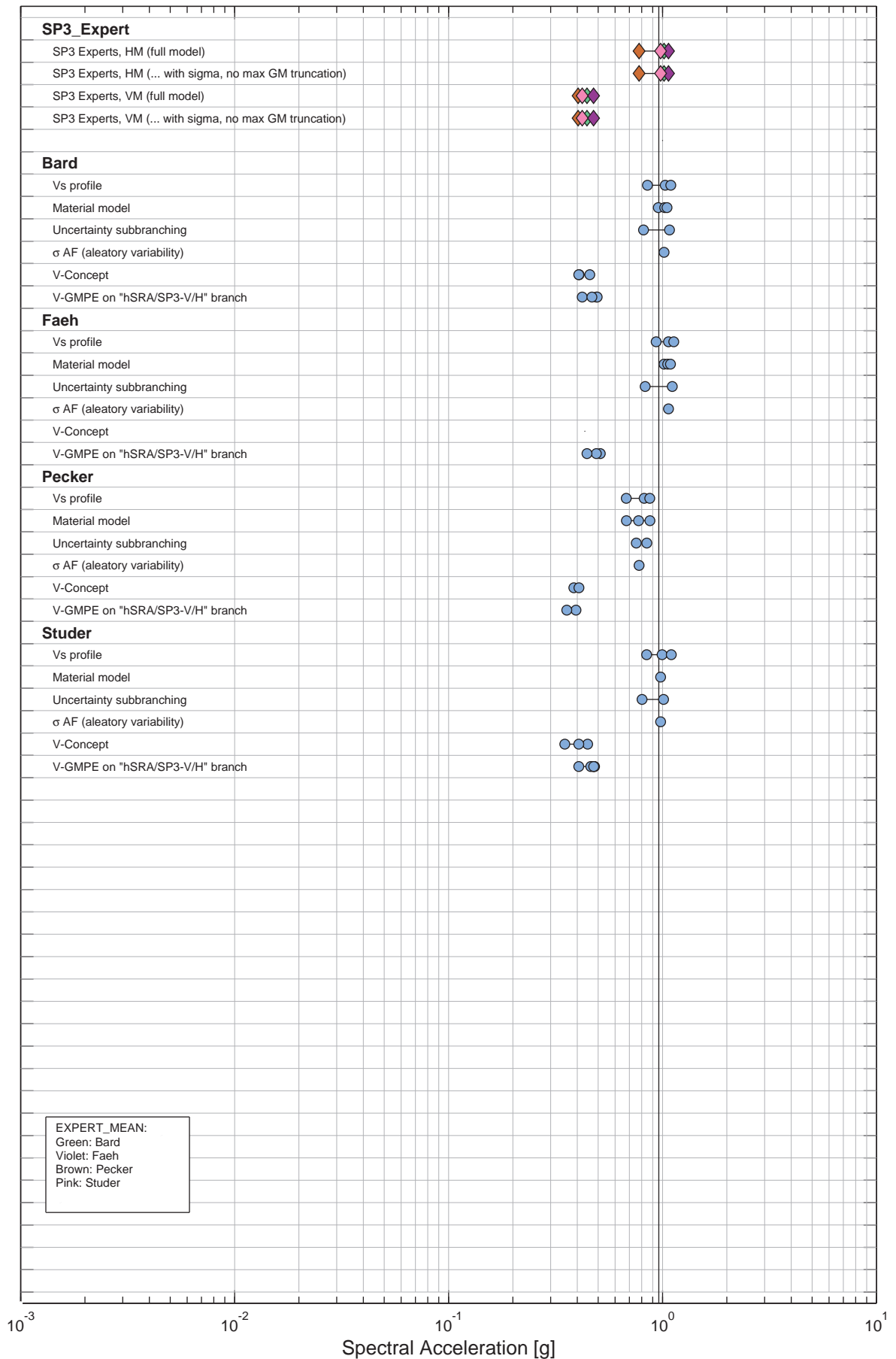


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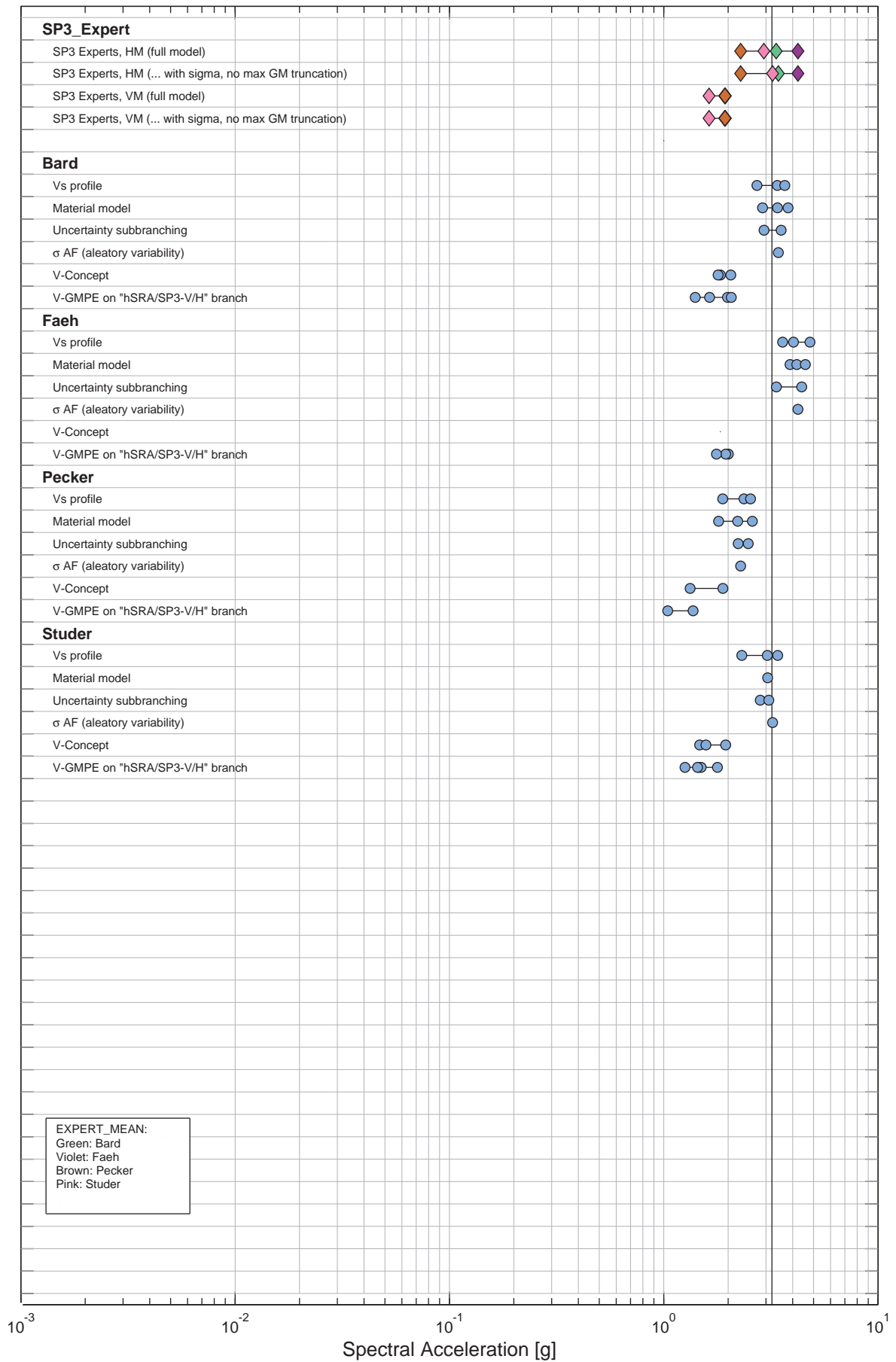


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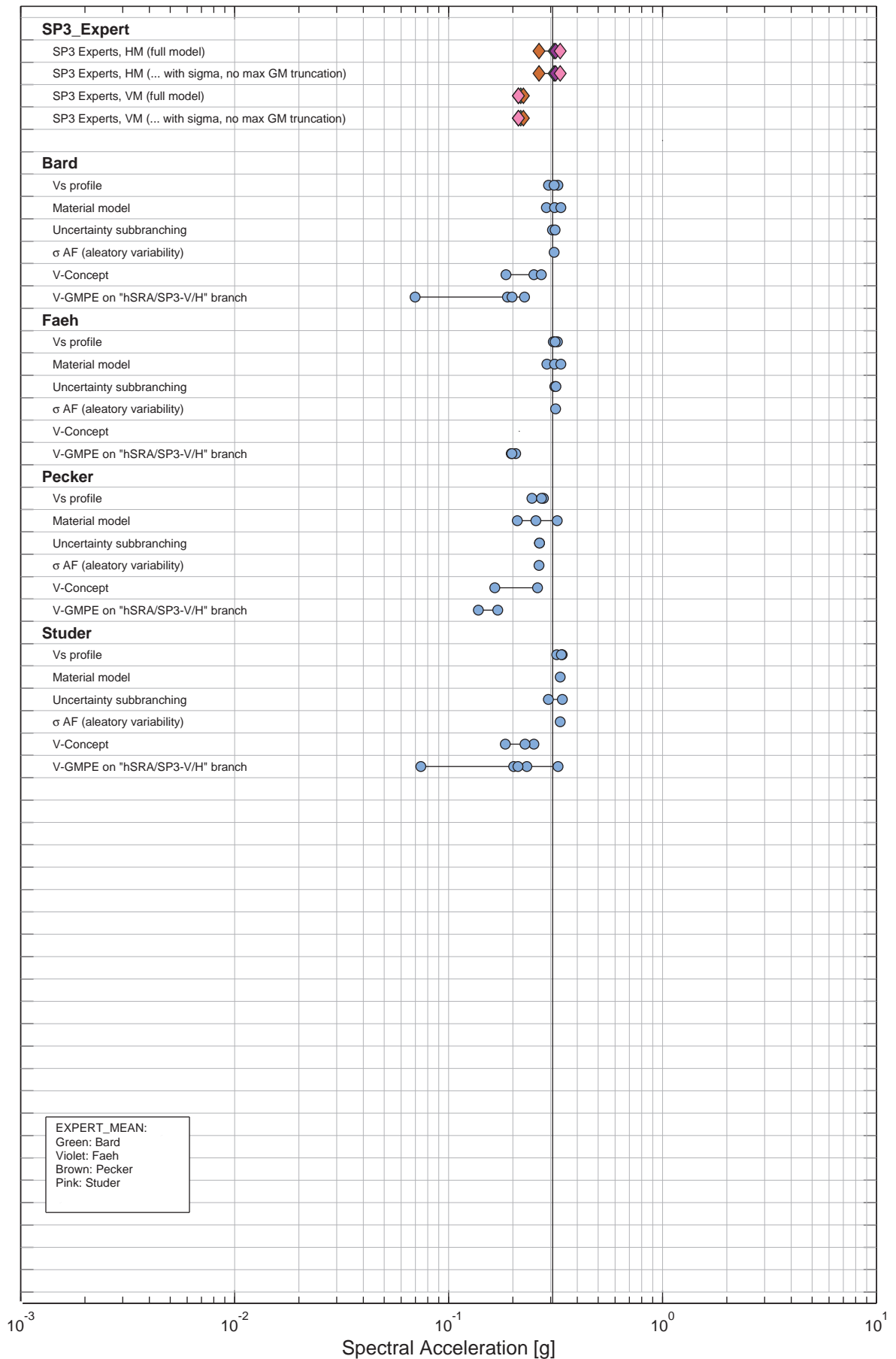


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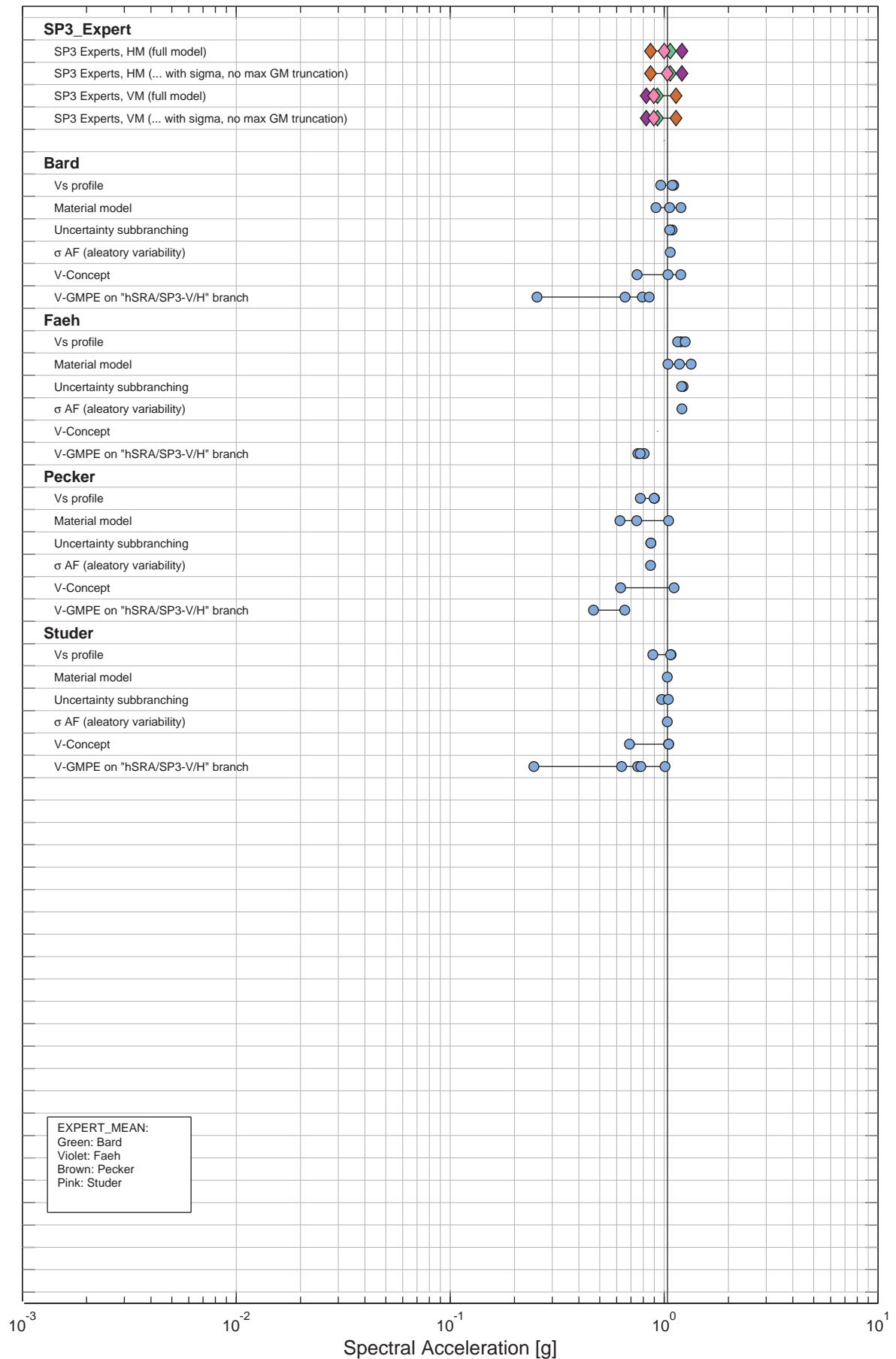


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Chapter 5

MÜHLEBERG

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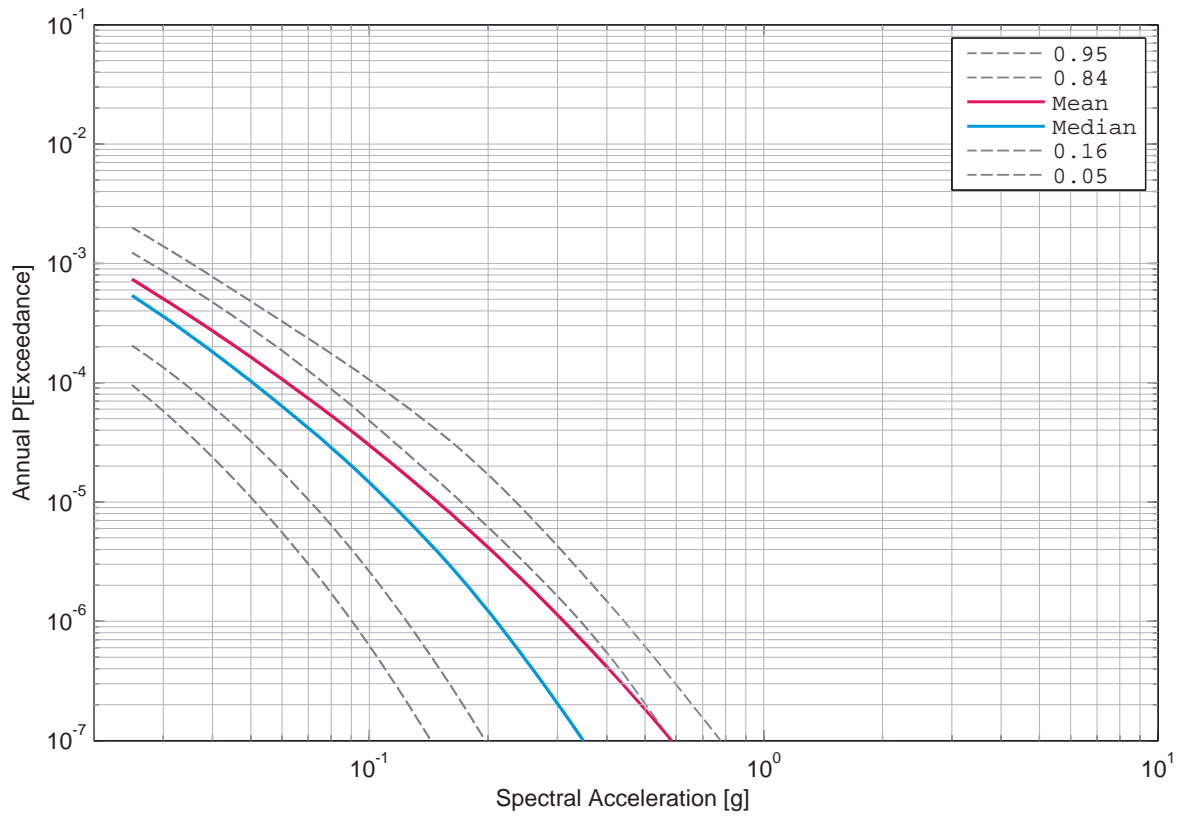


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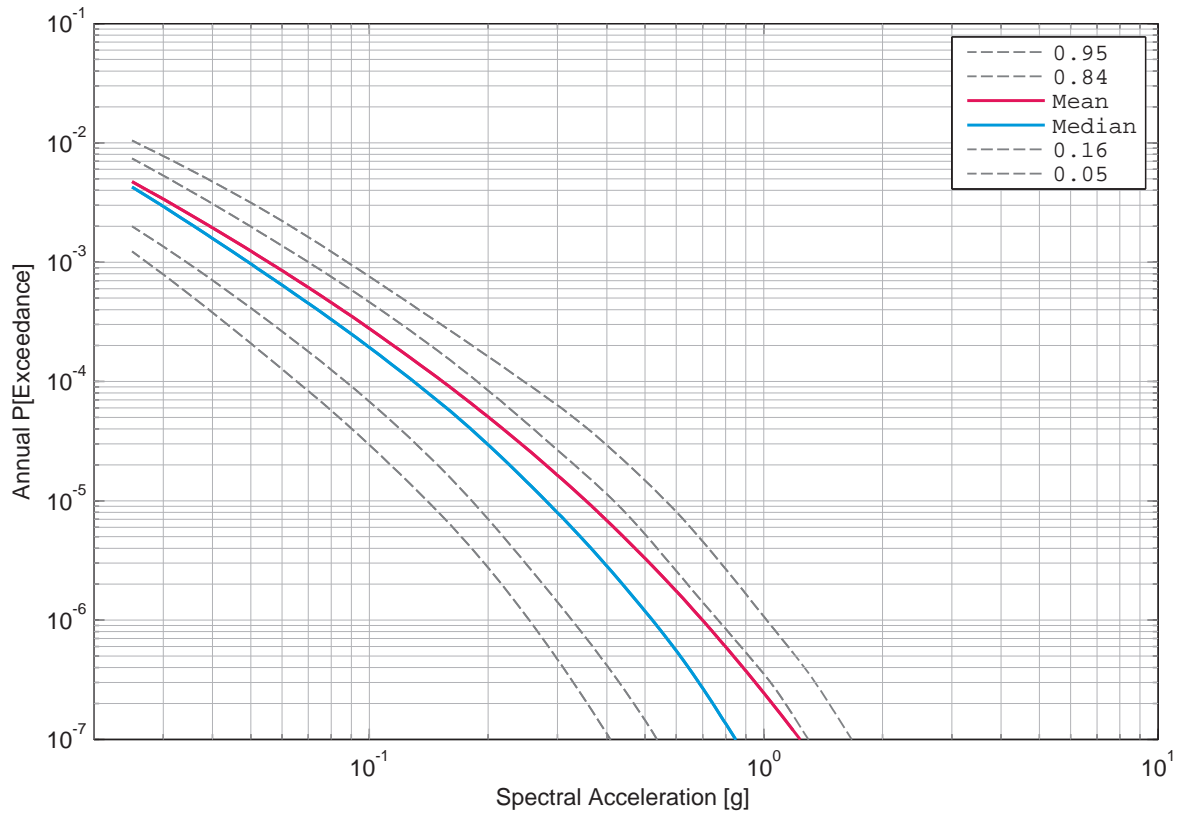


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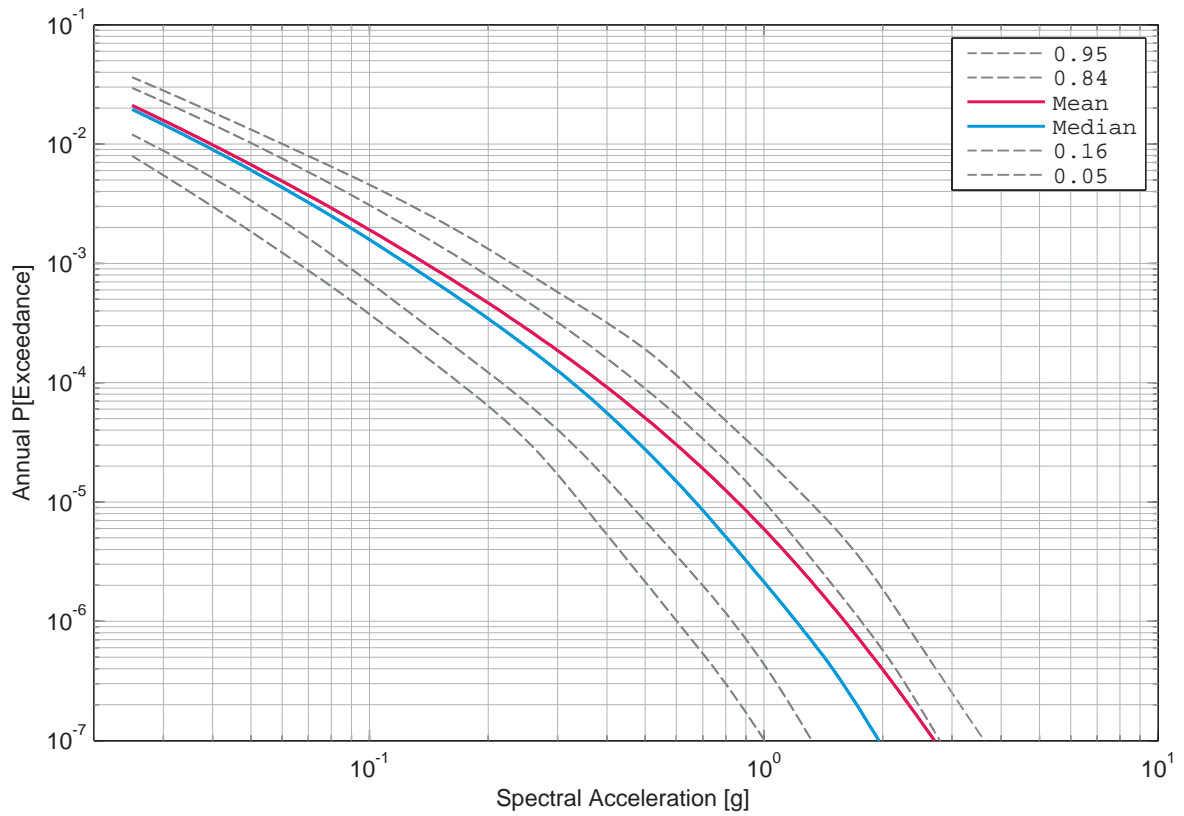


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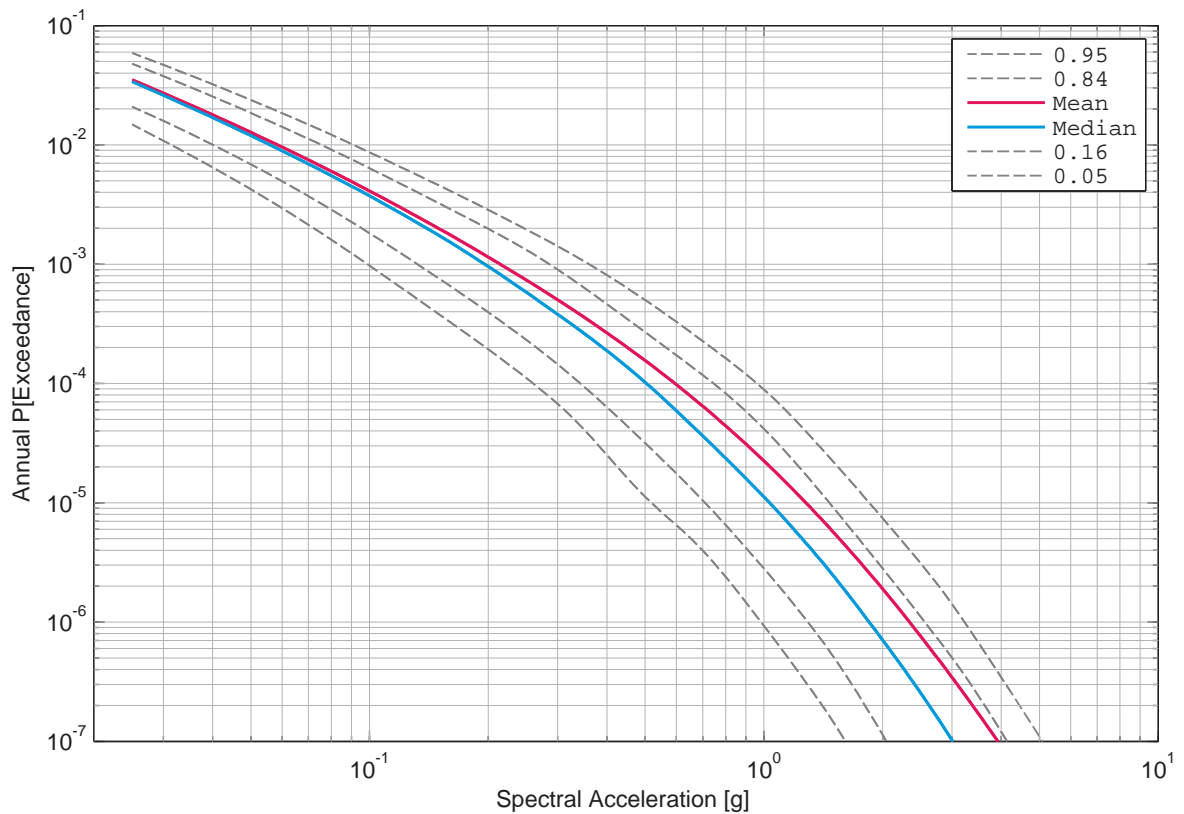


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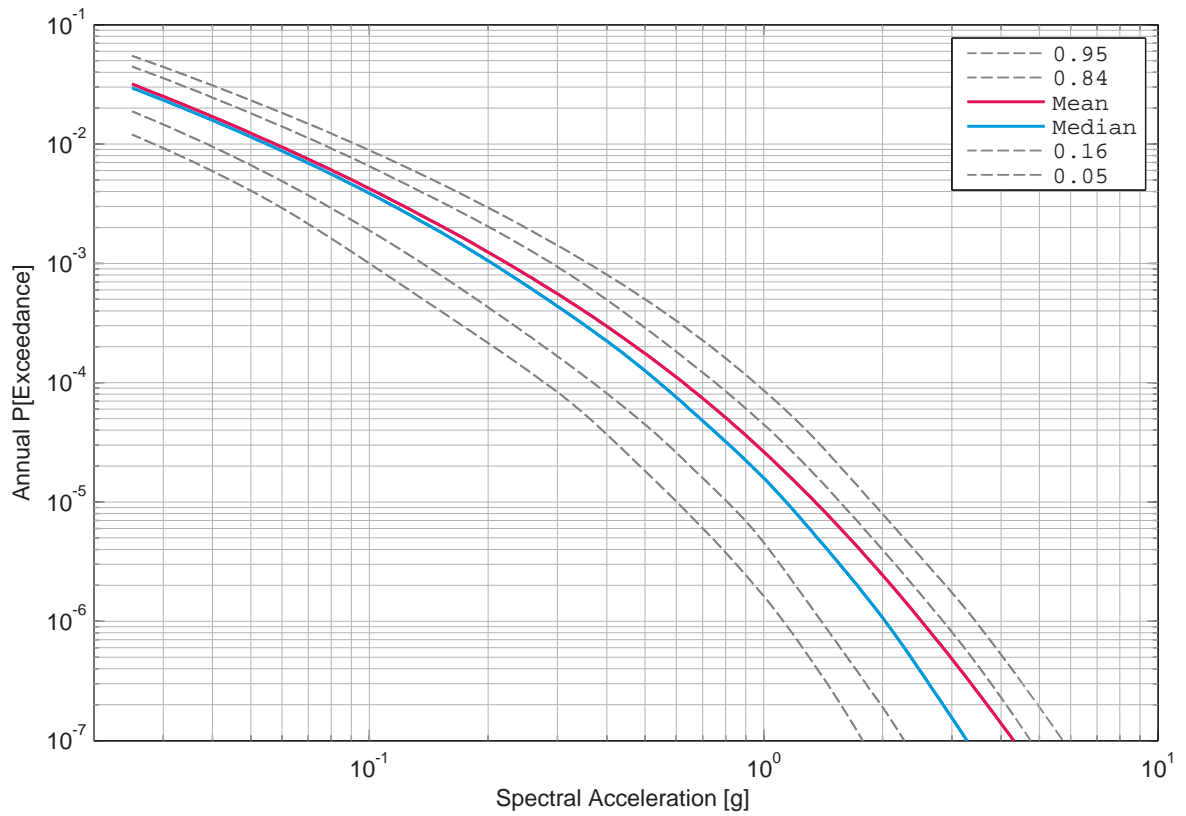


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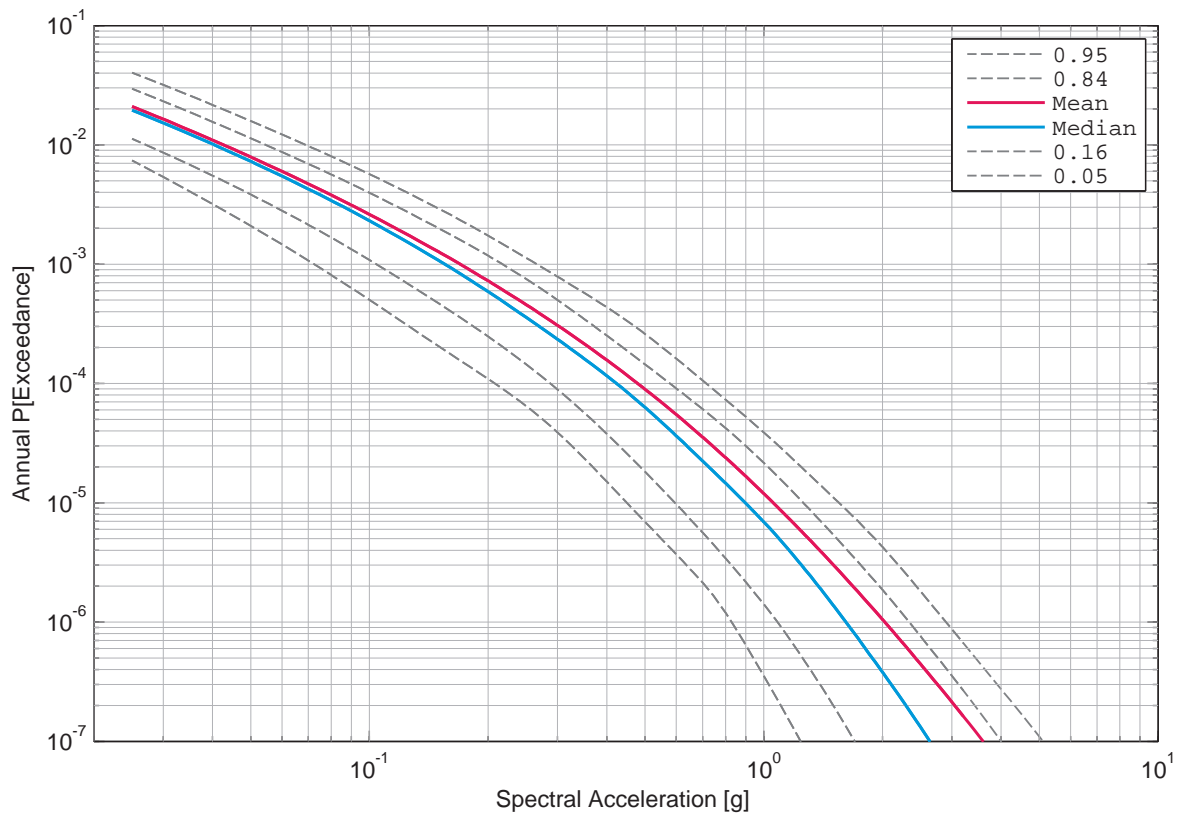


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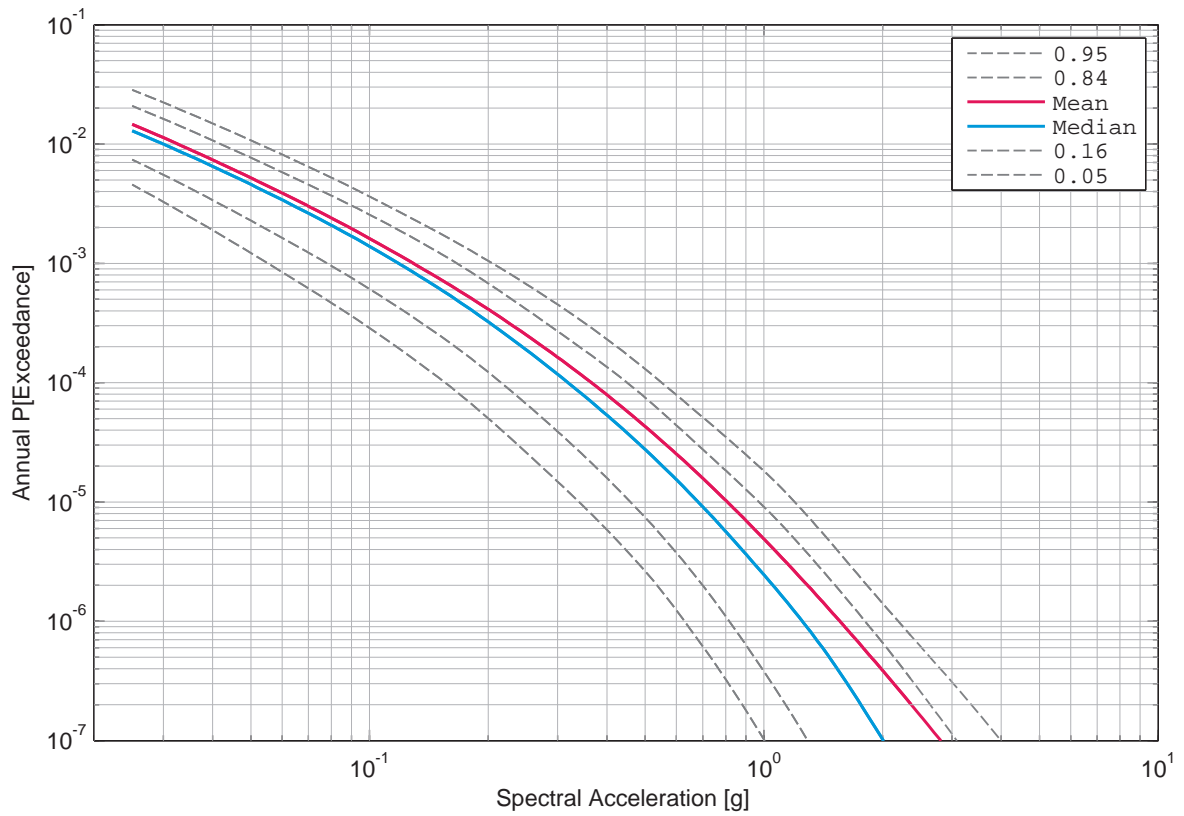


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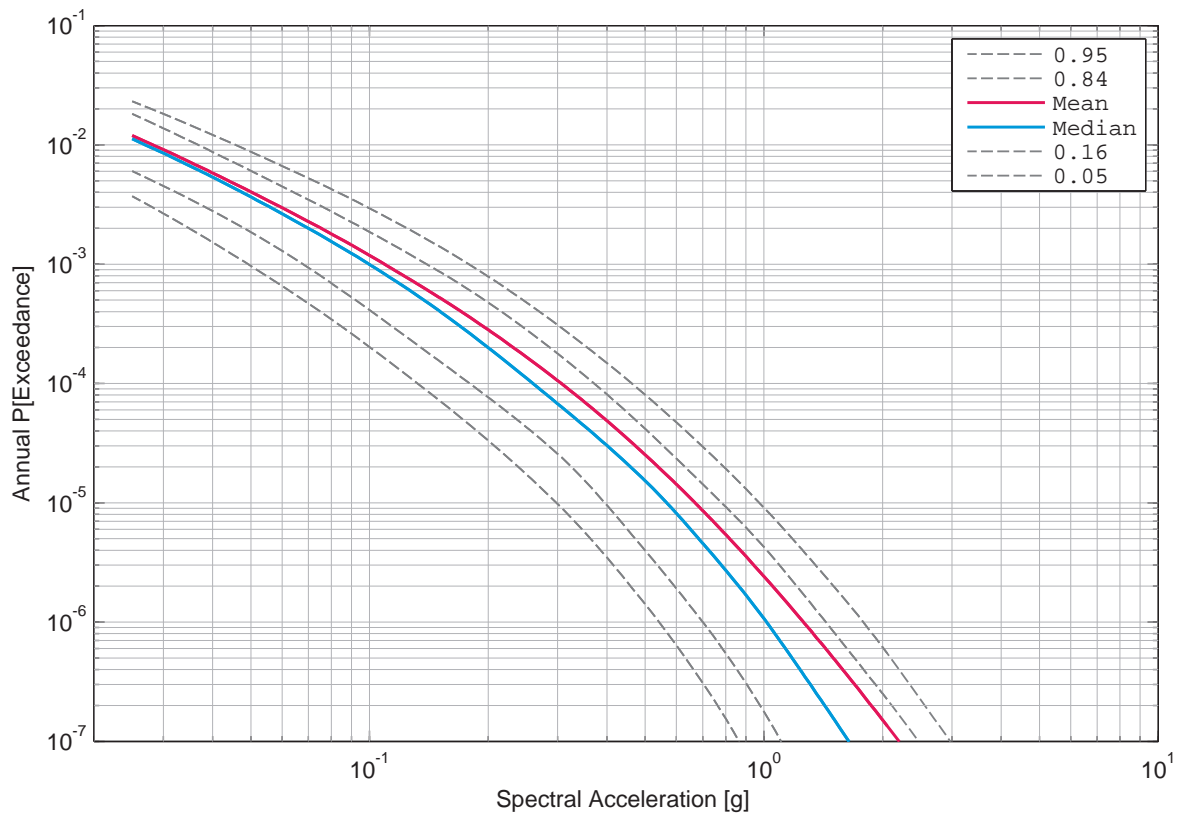


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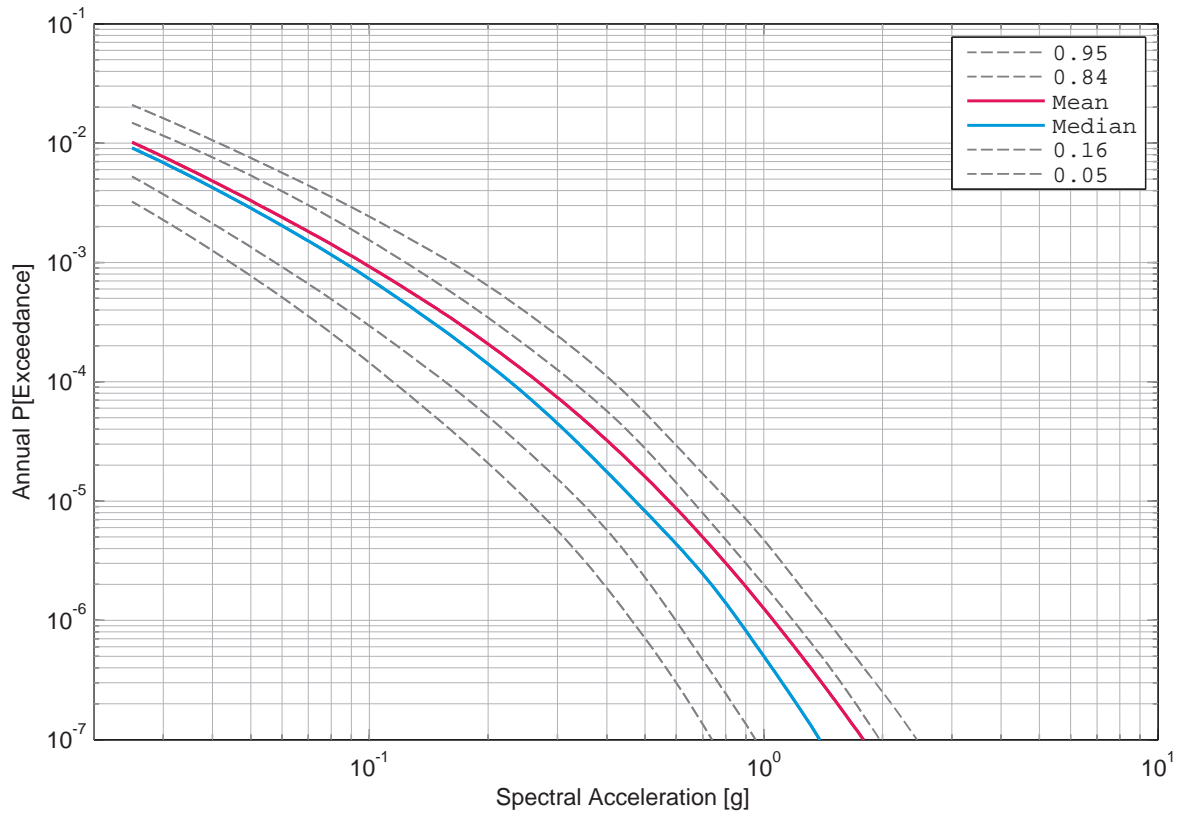


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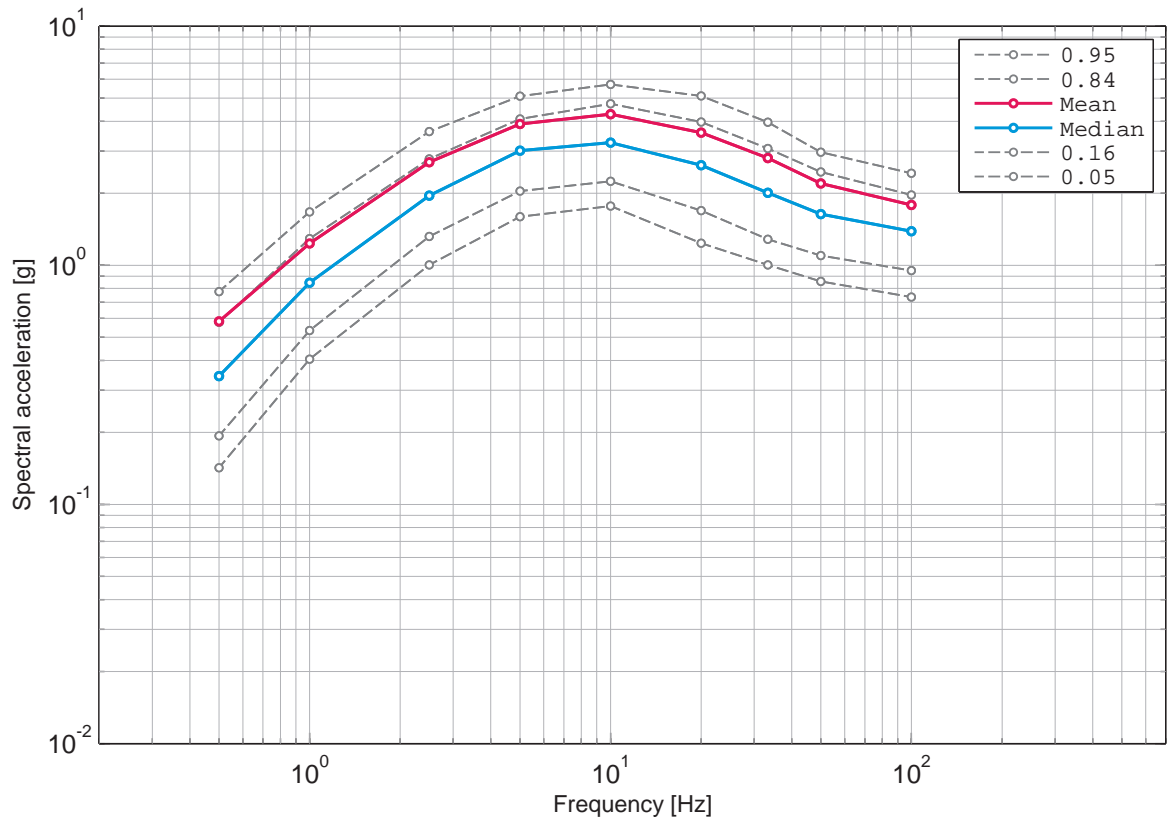


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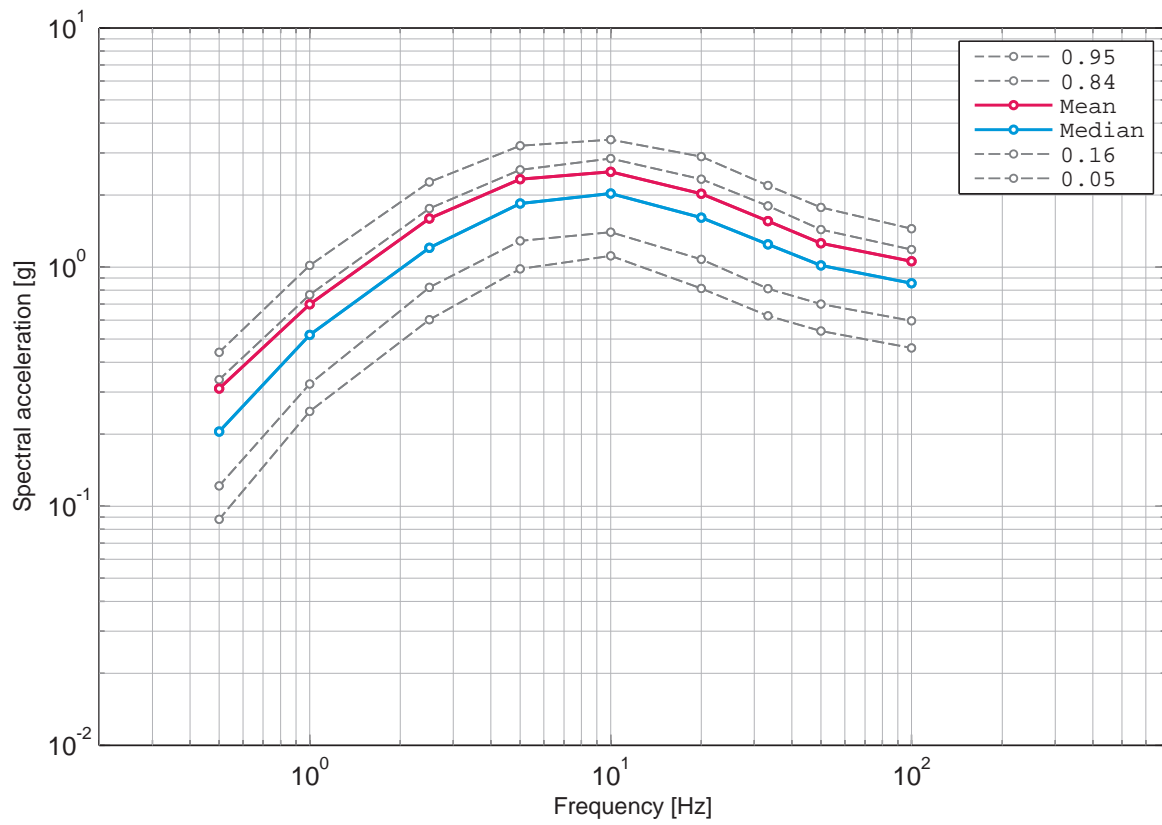


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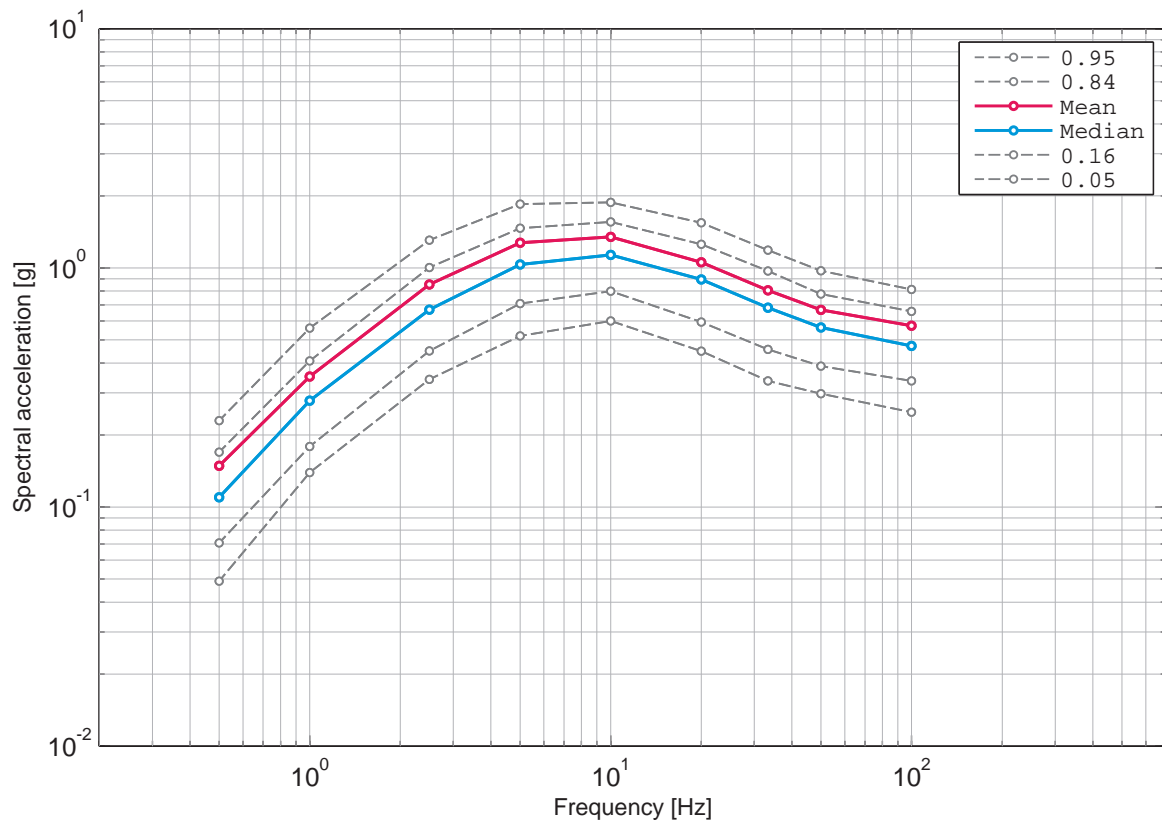


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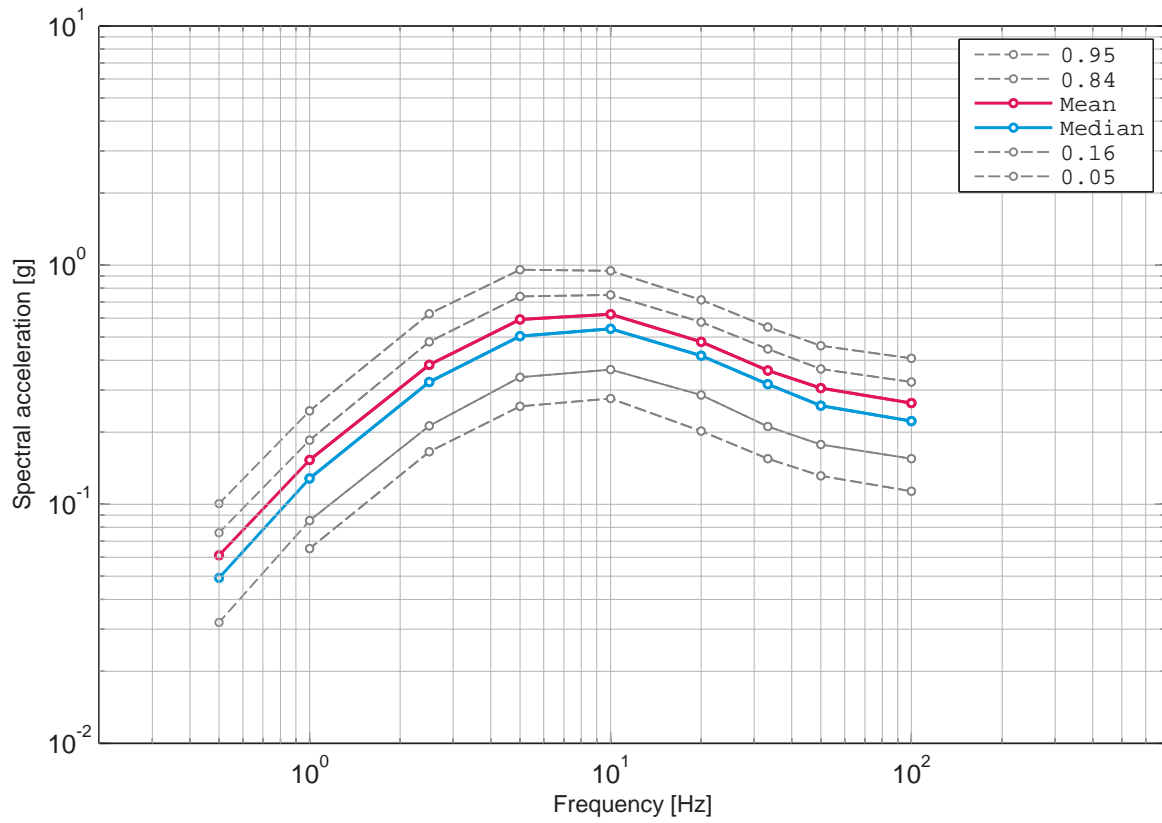


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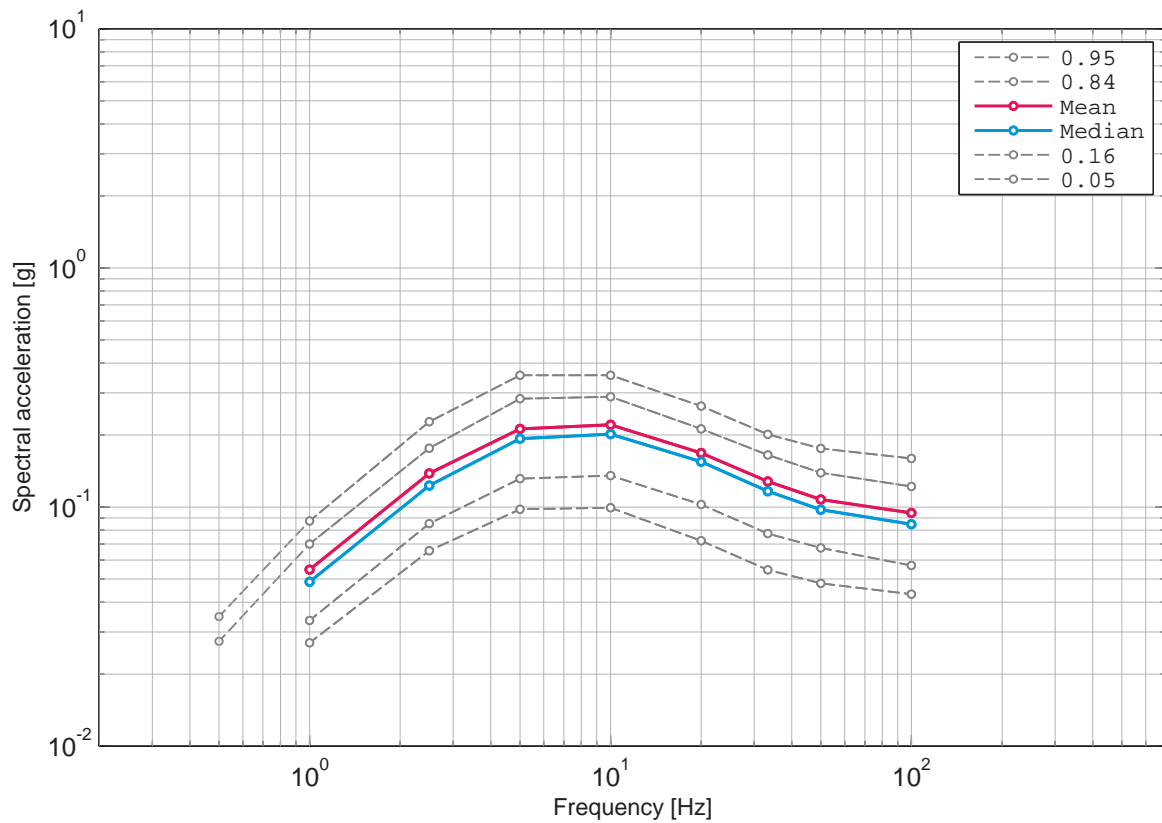


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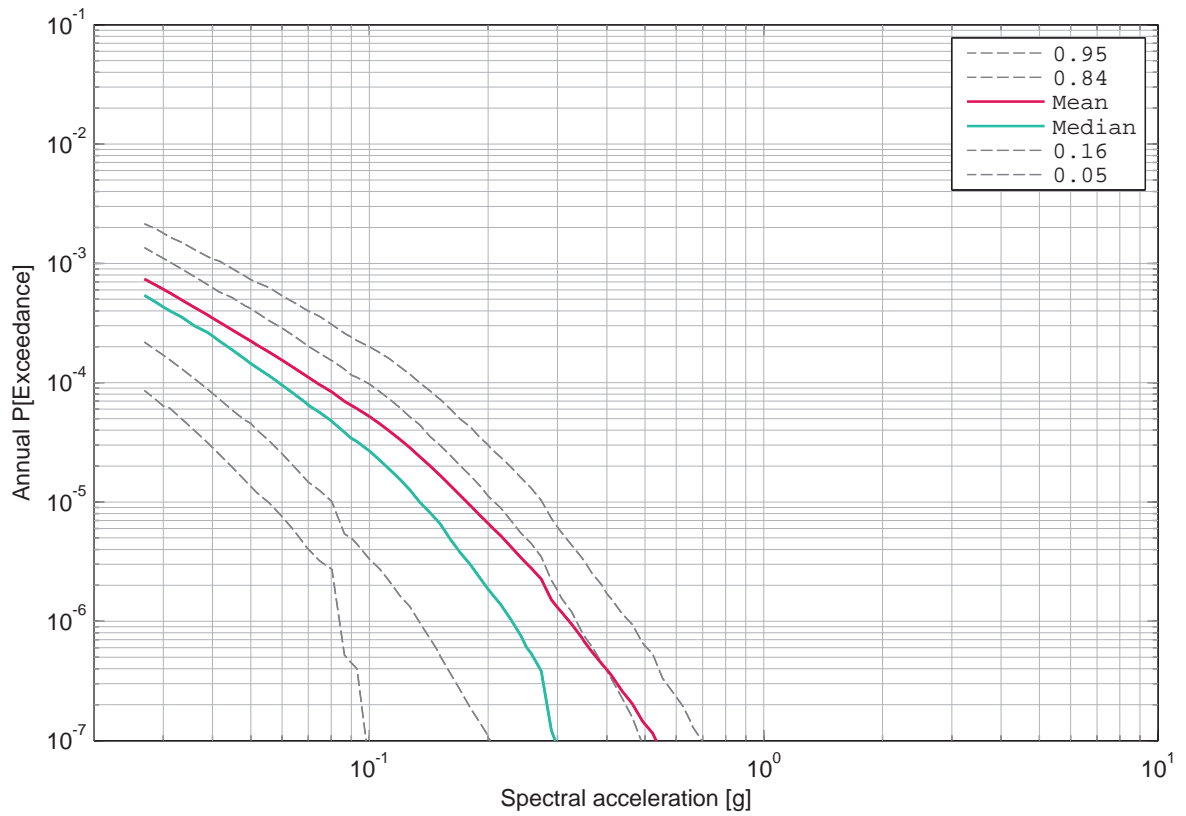


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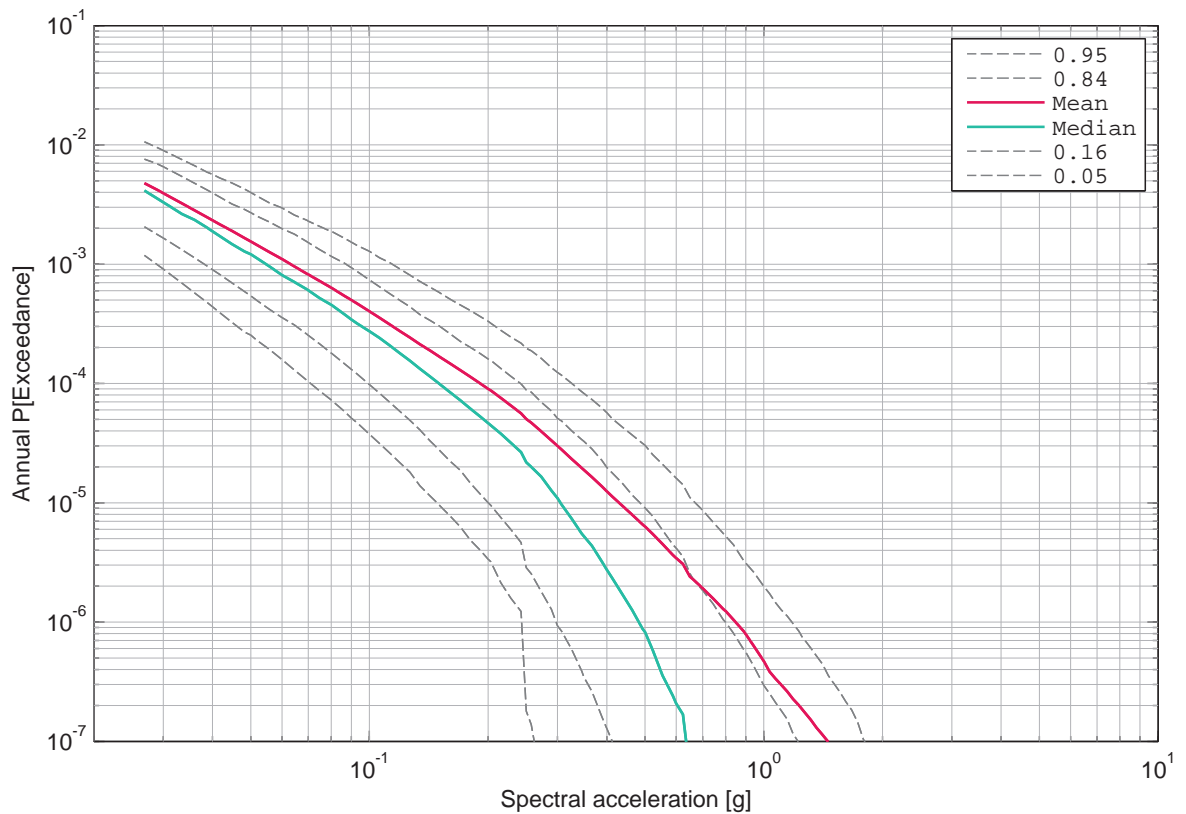


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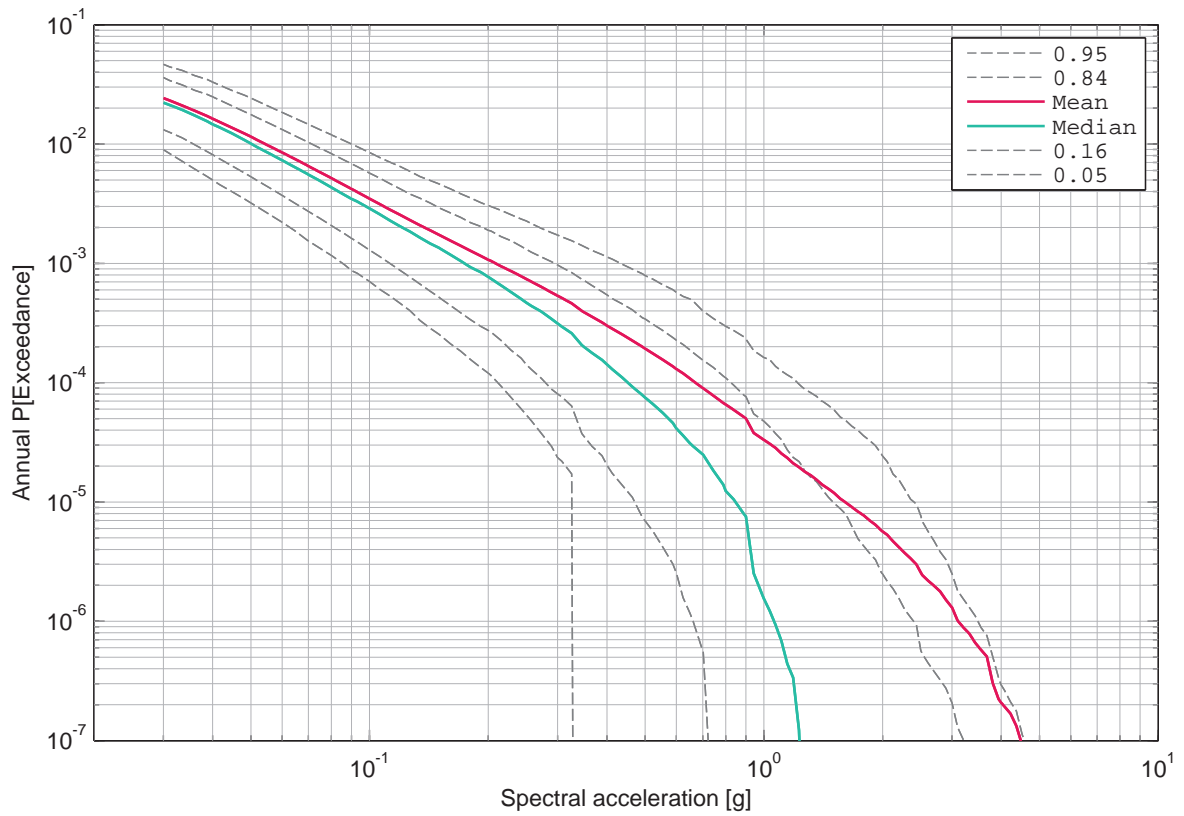


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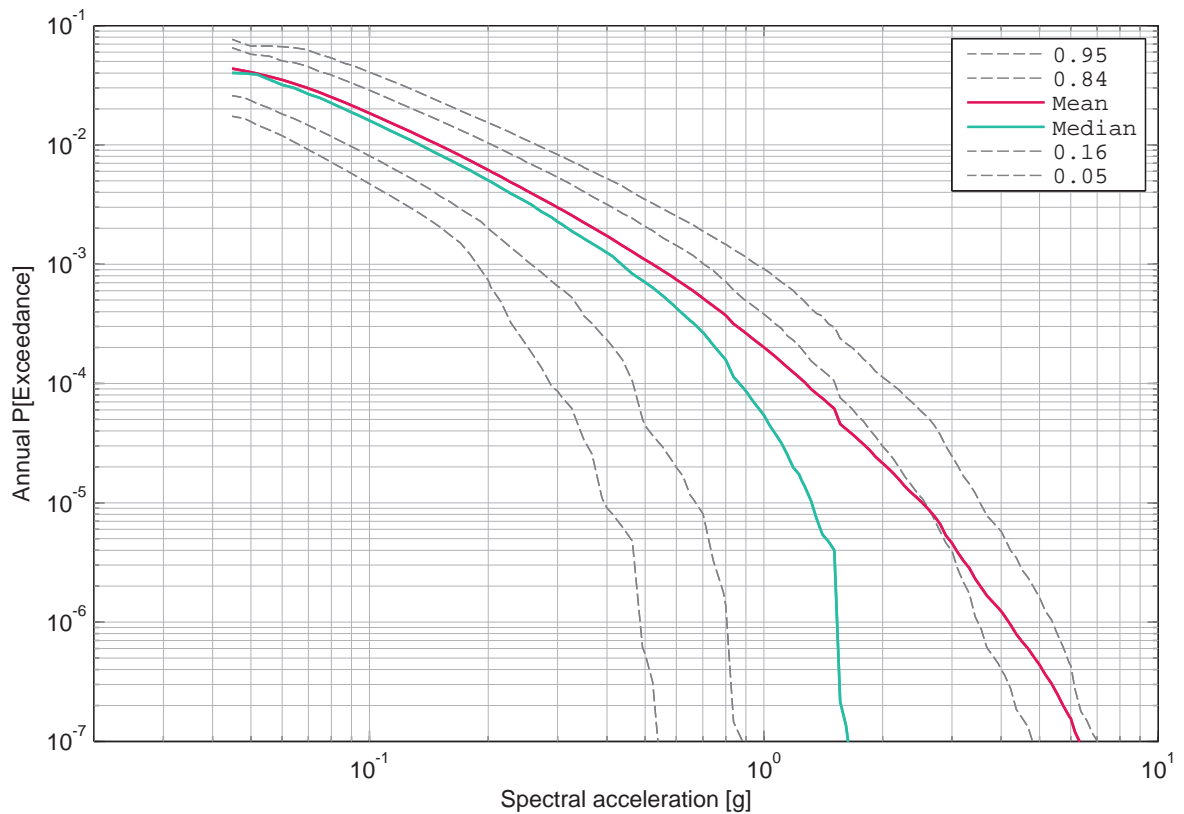


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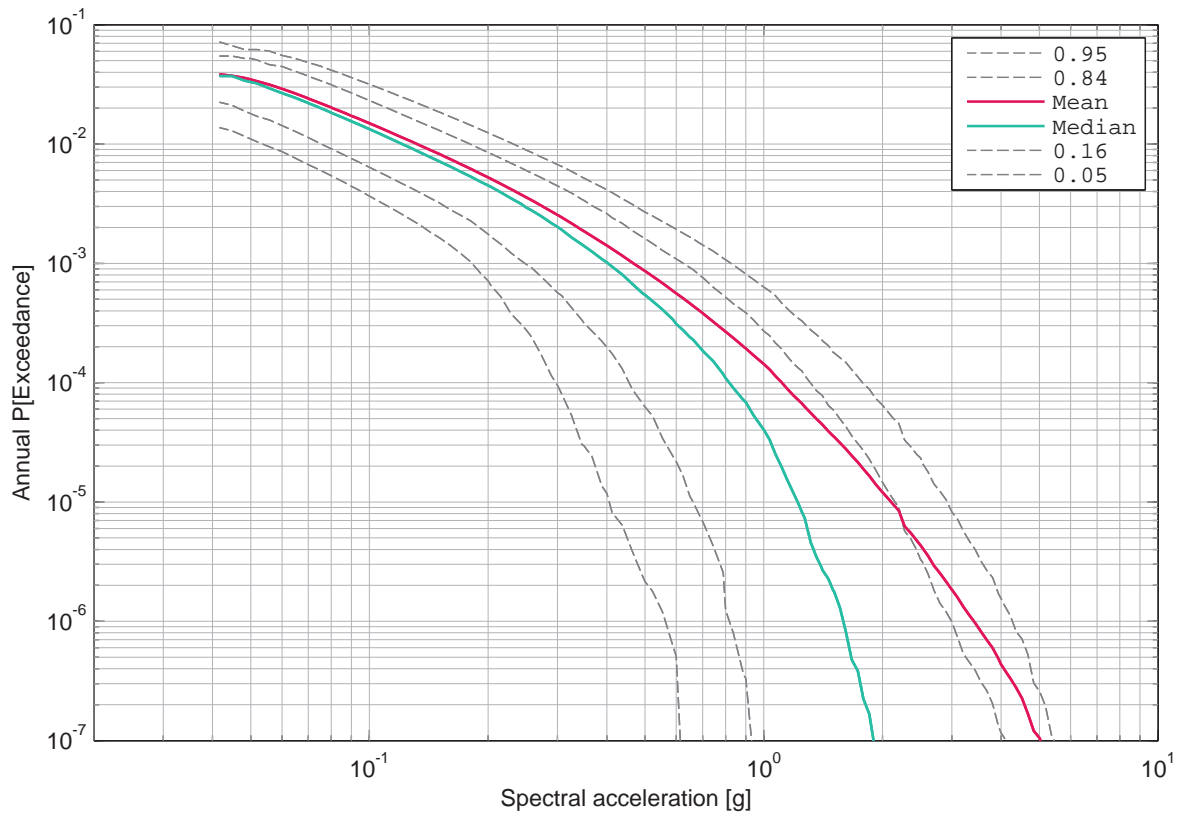


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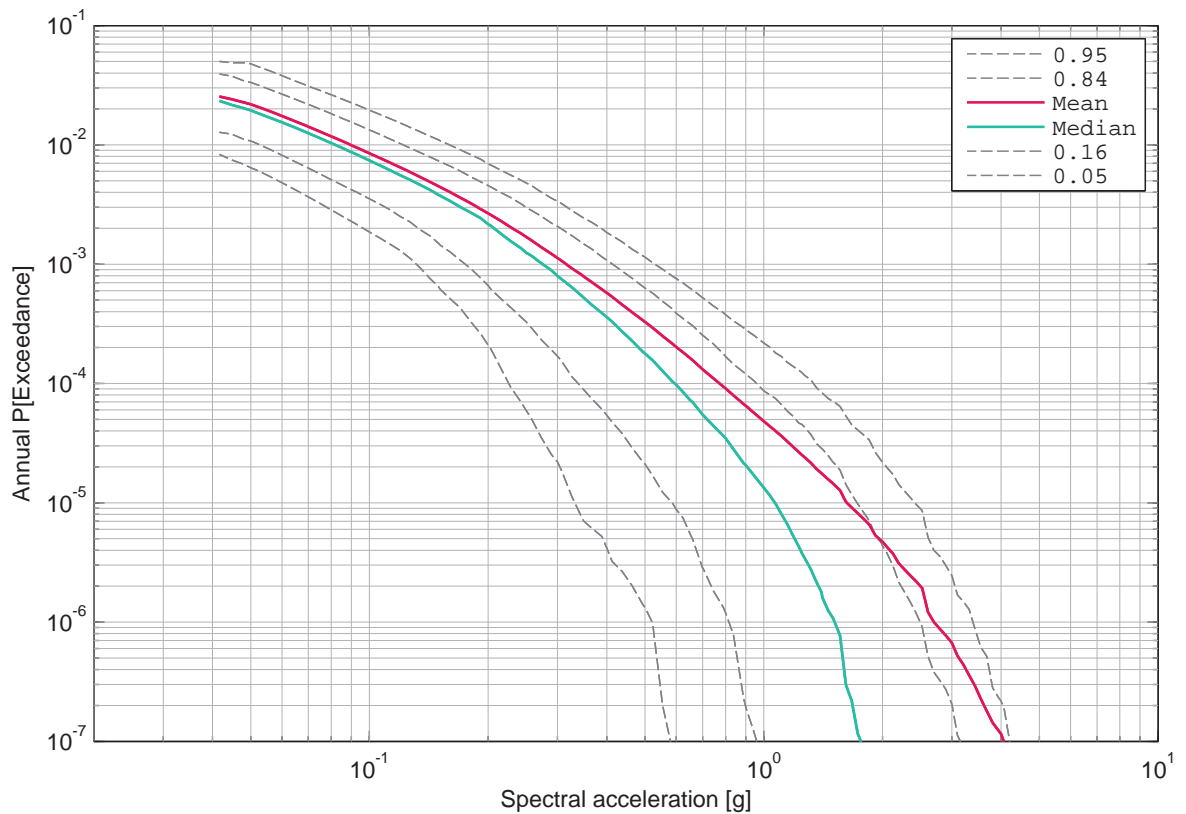


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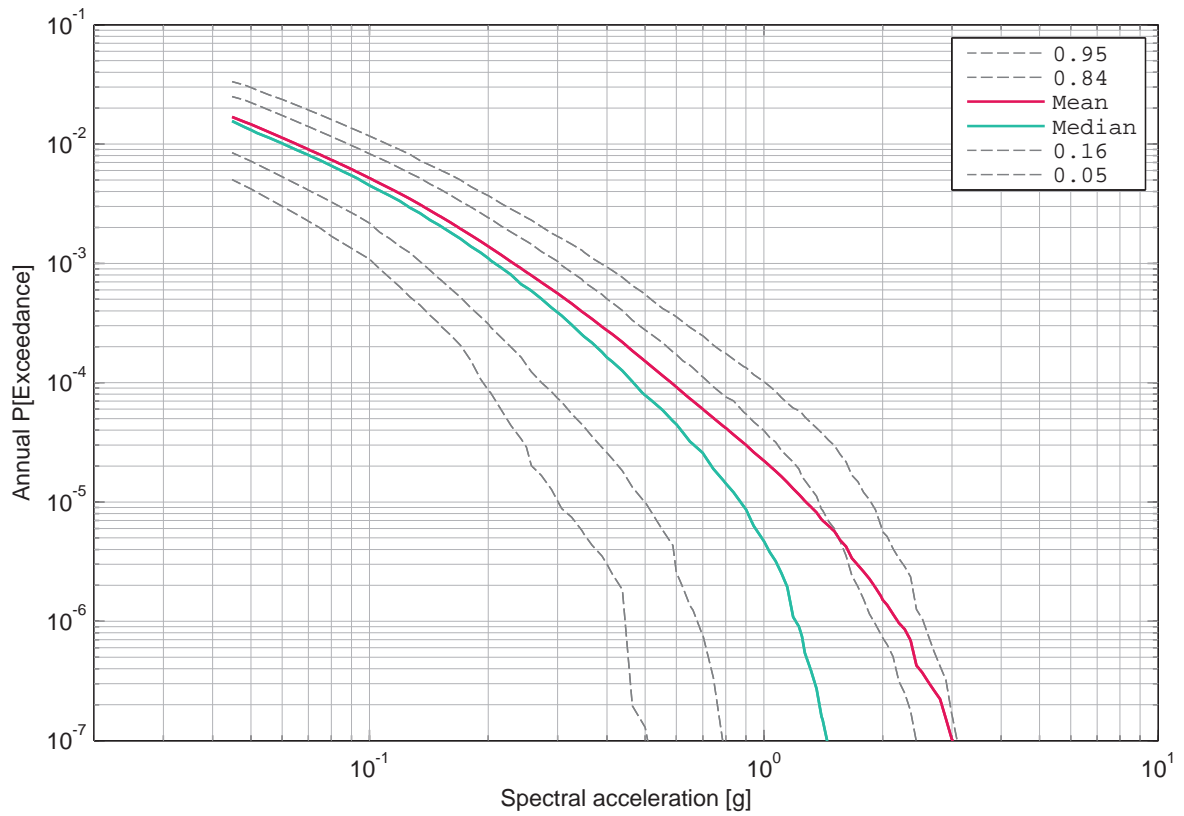


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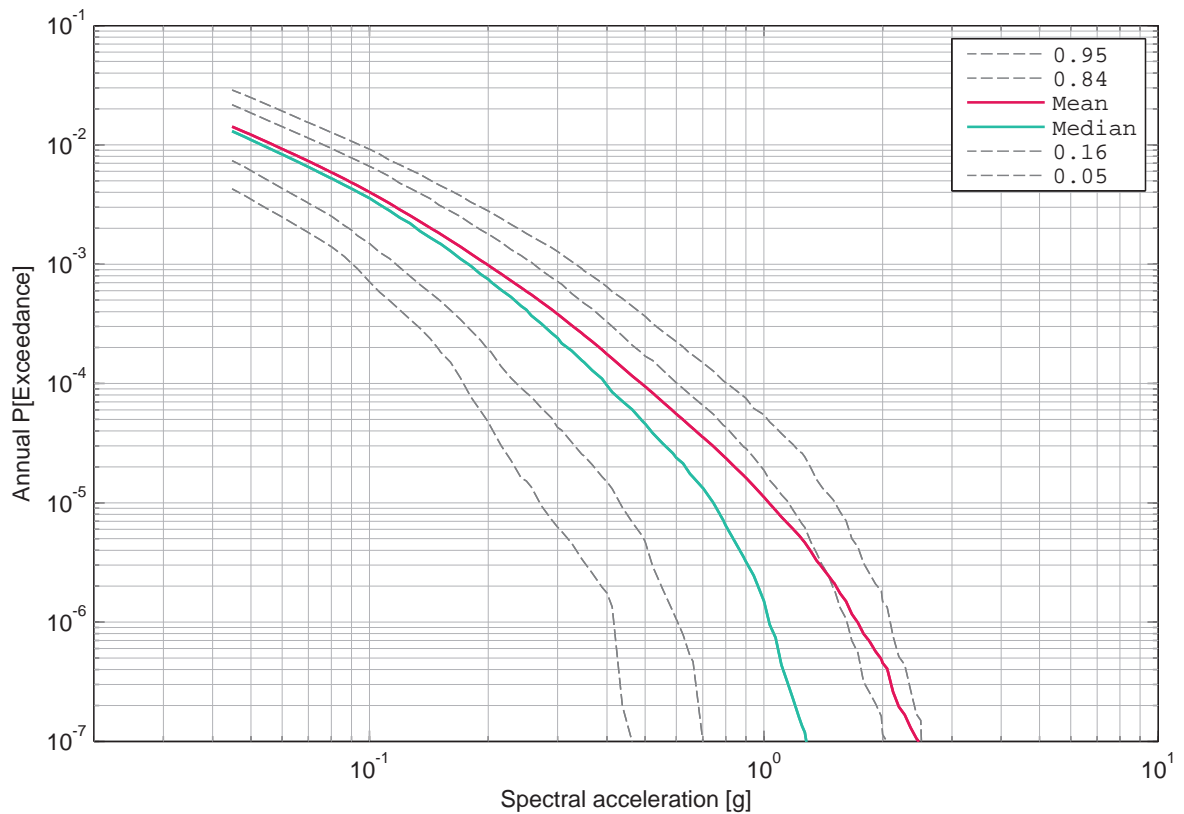


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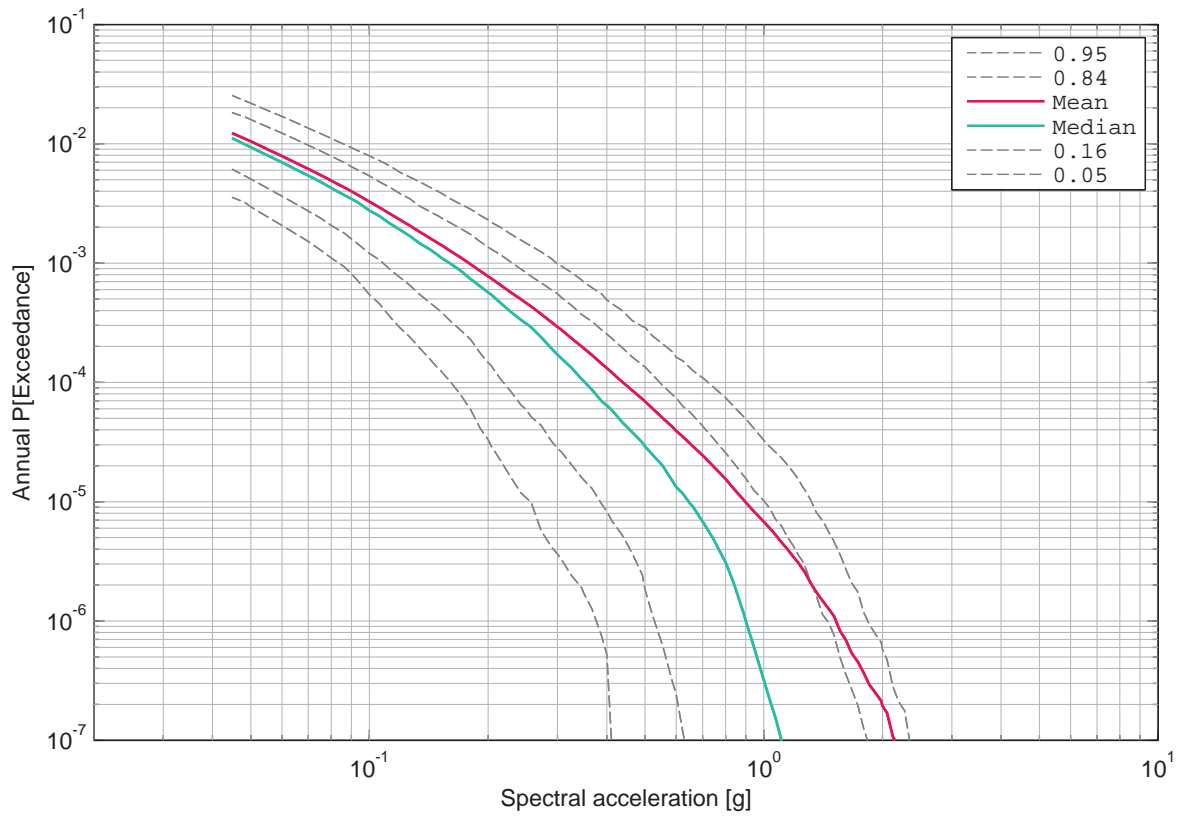


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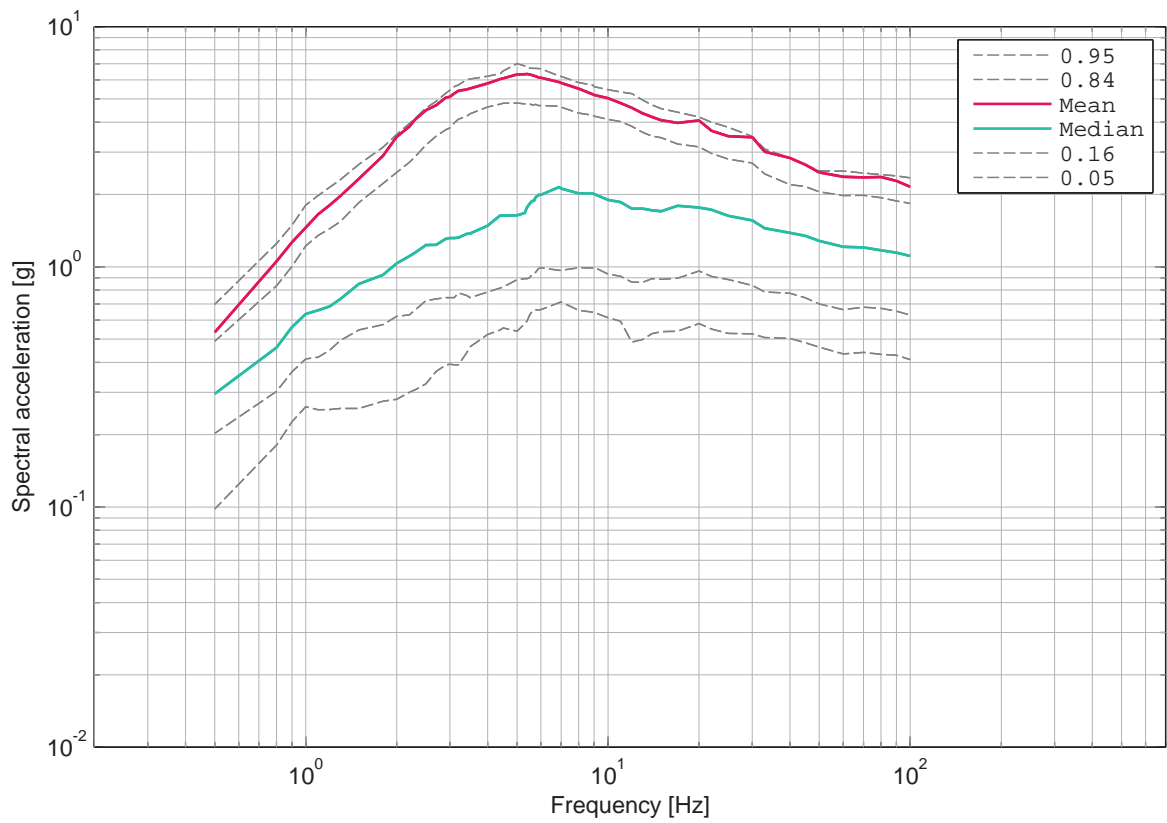


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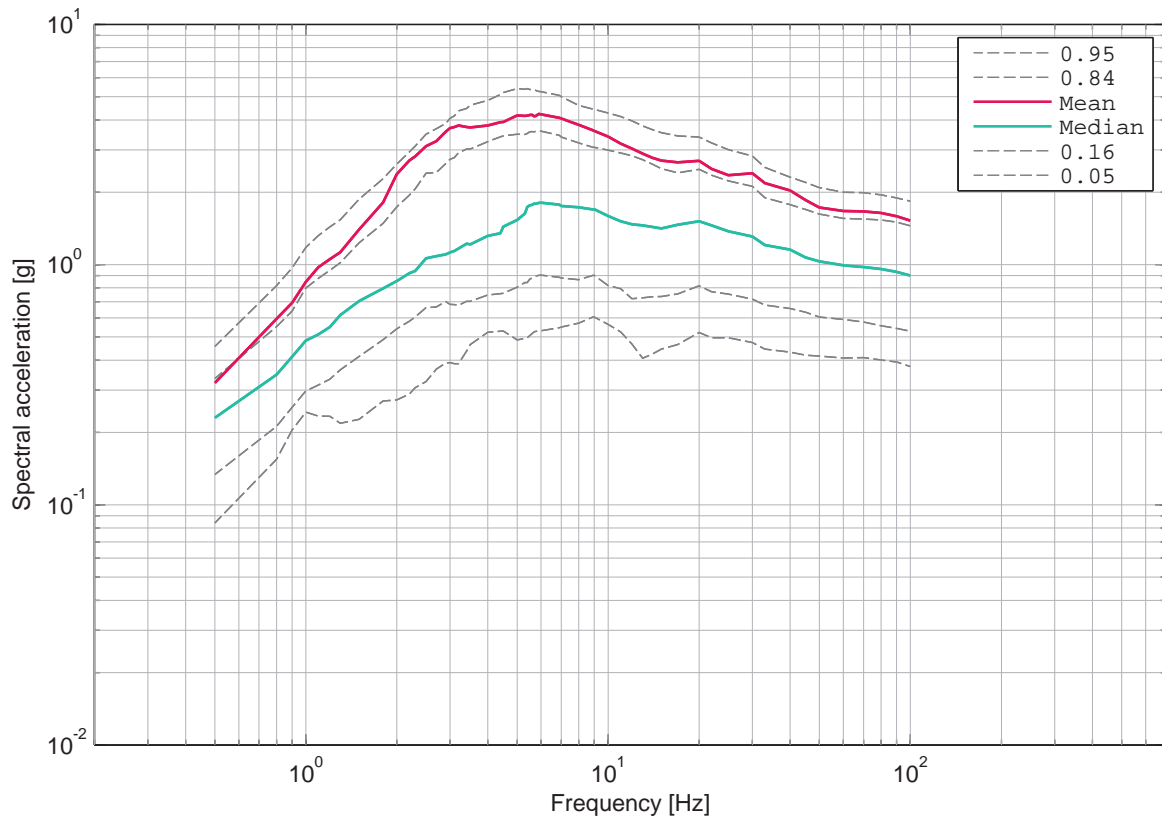


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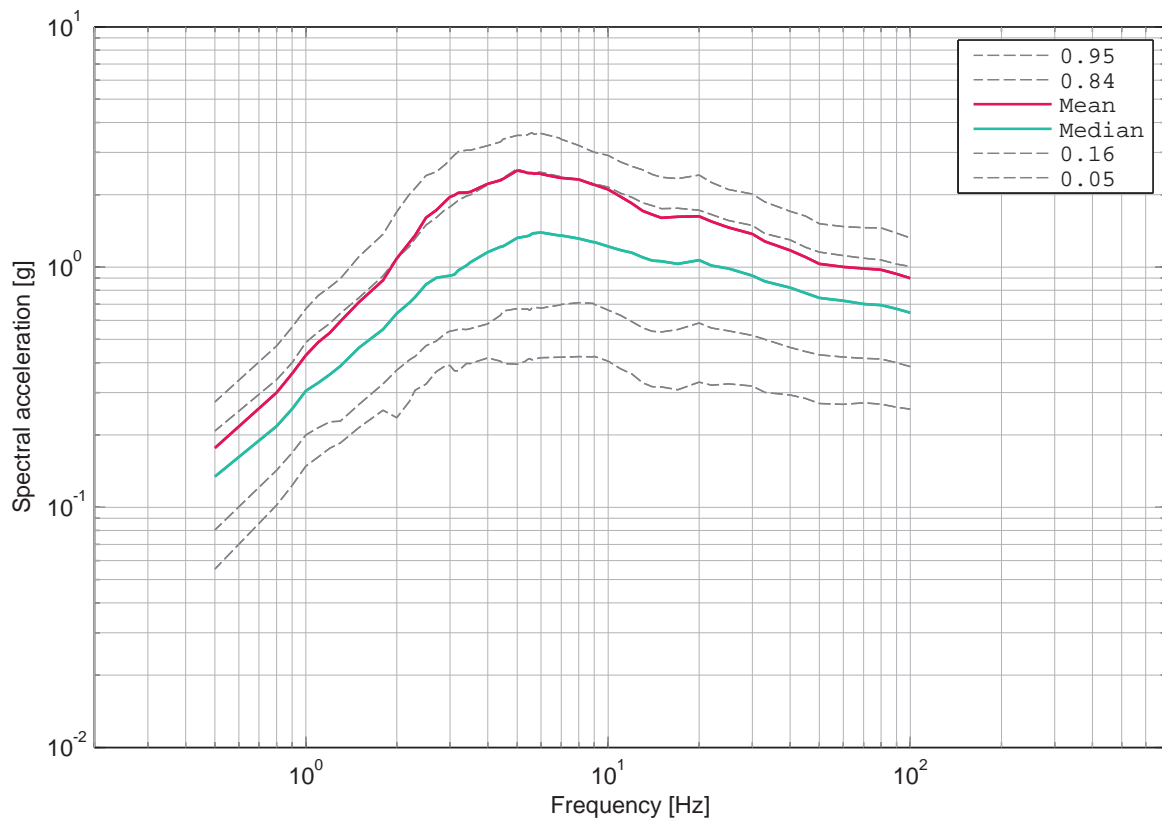


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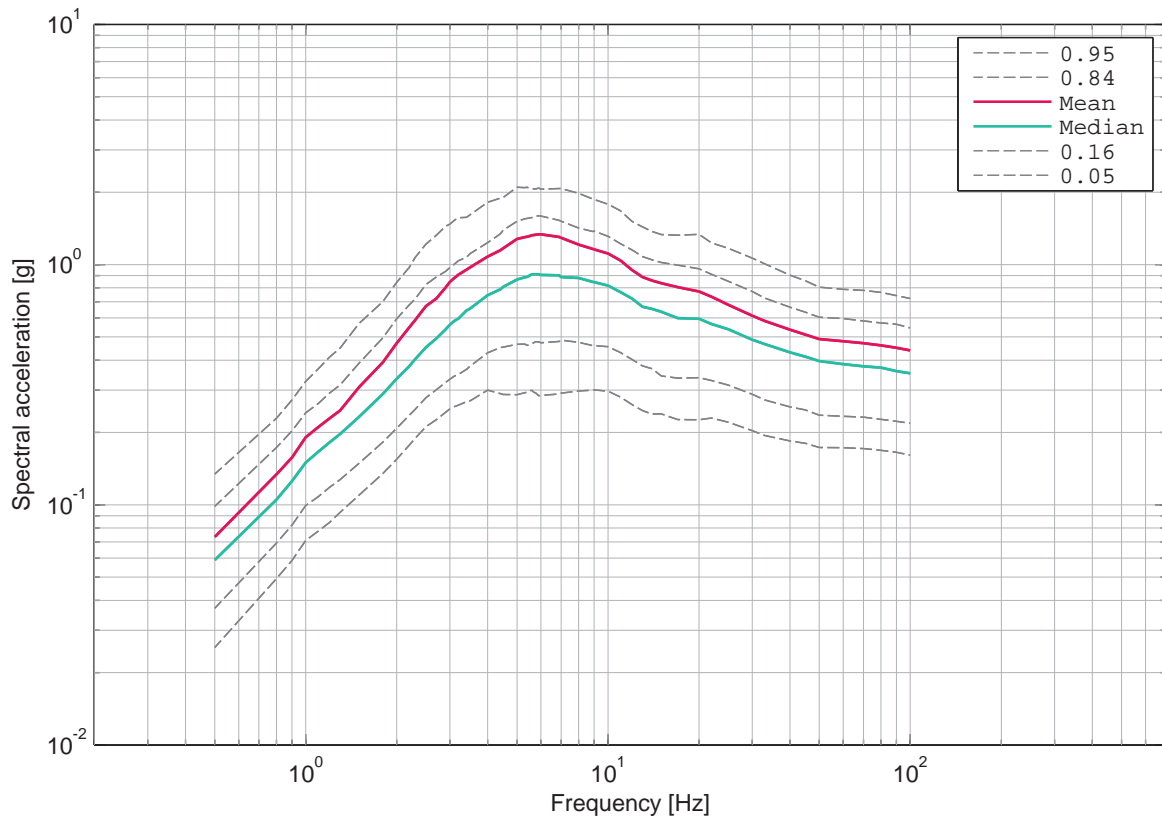


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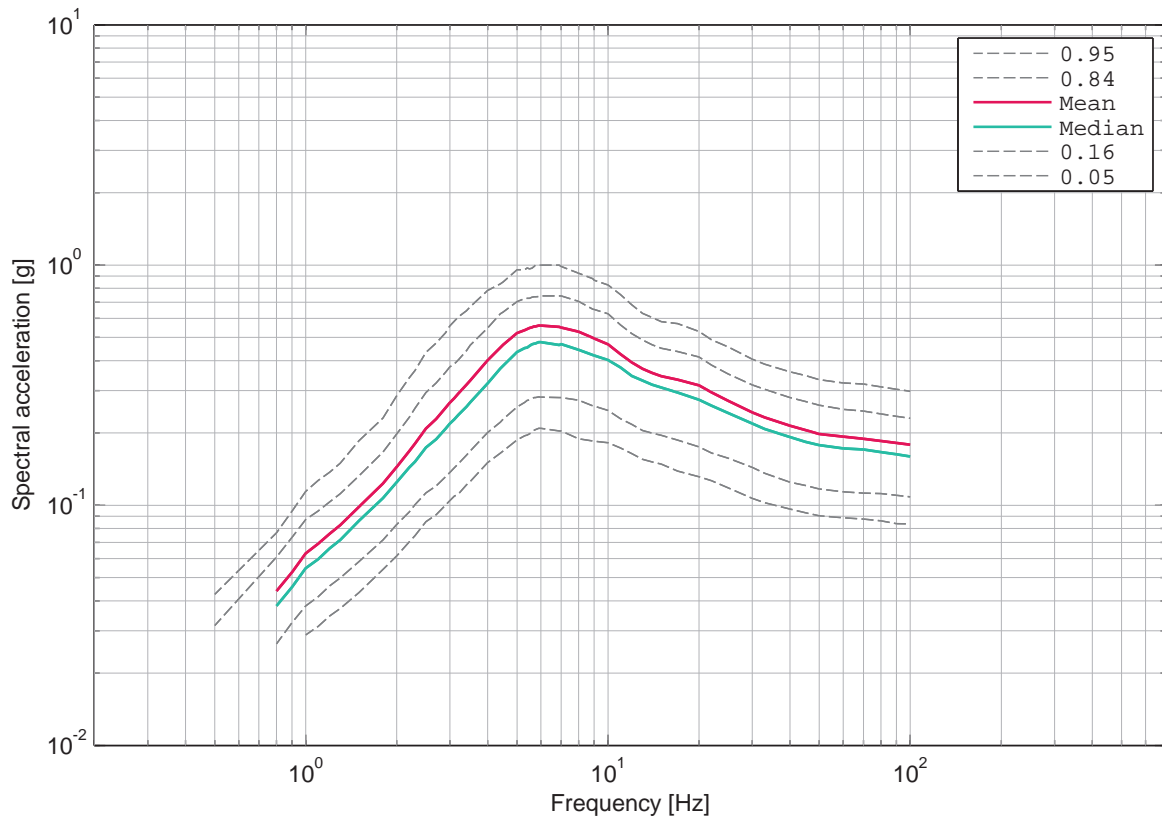


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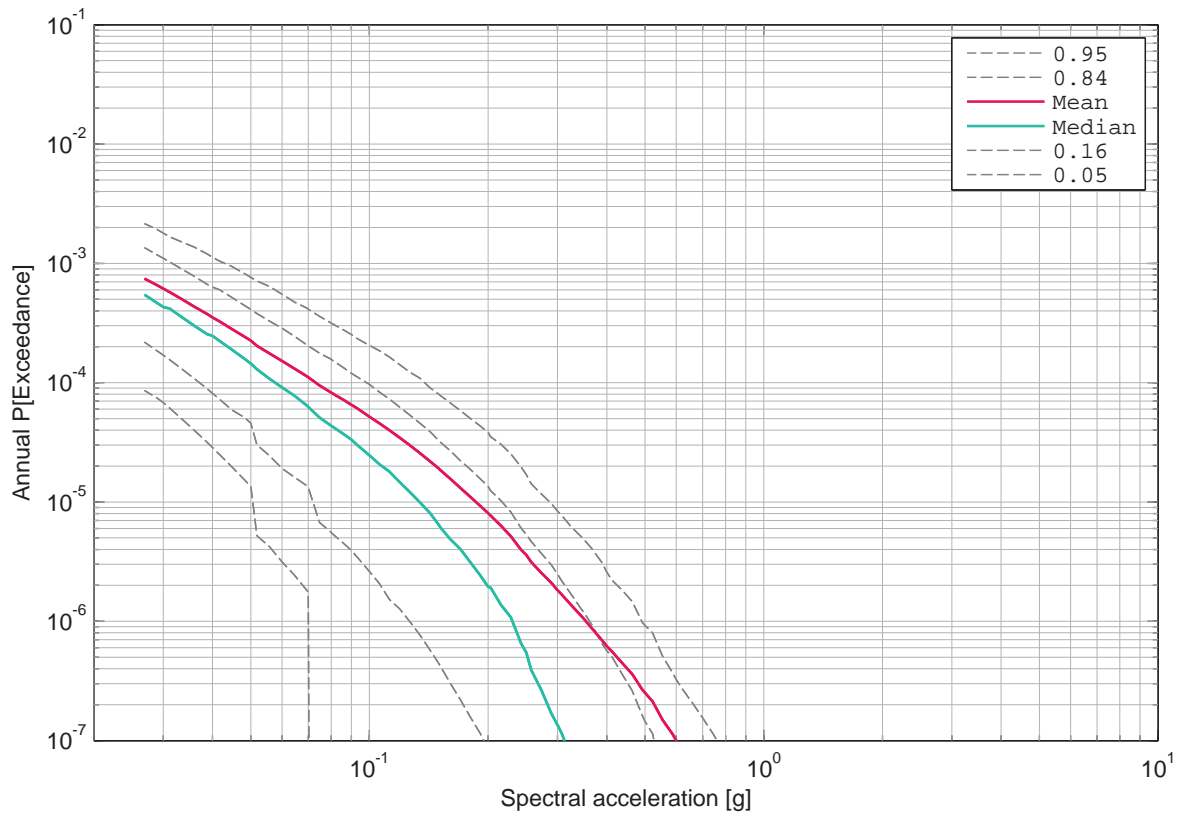


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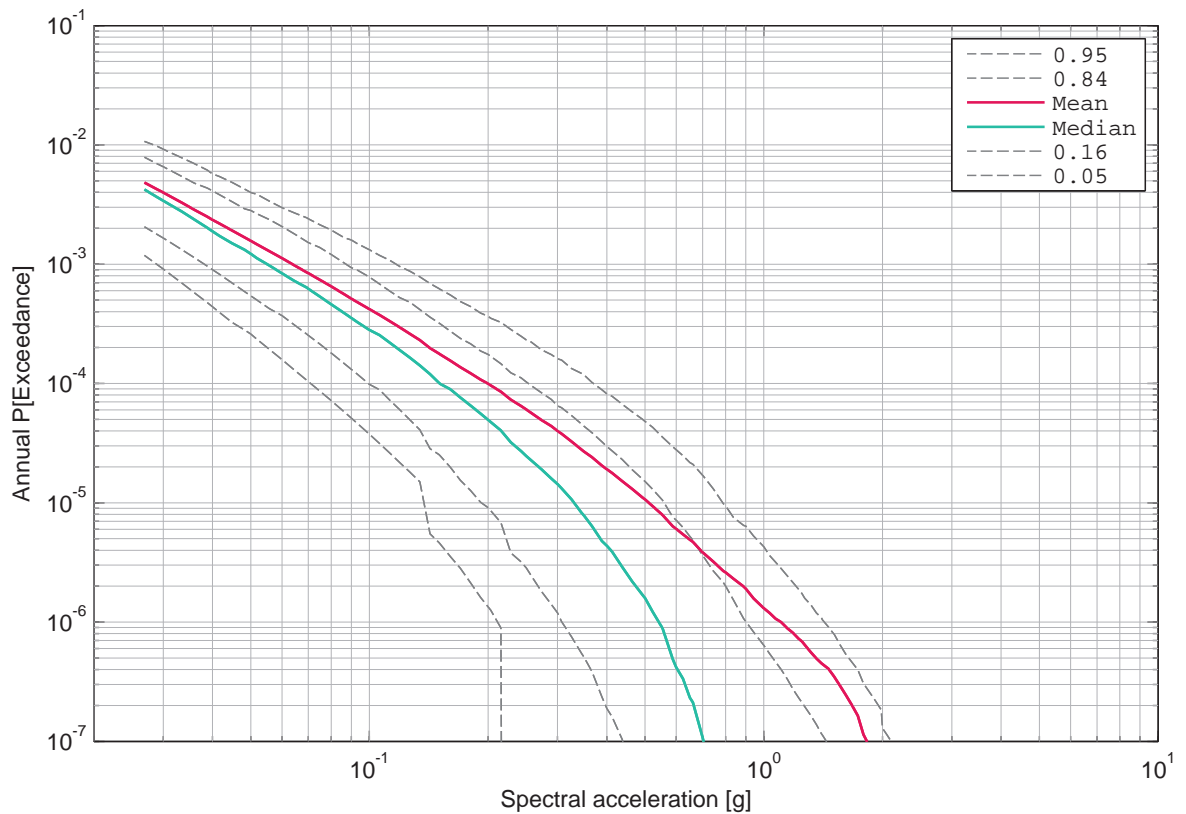


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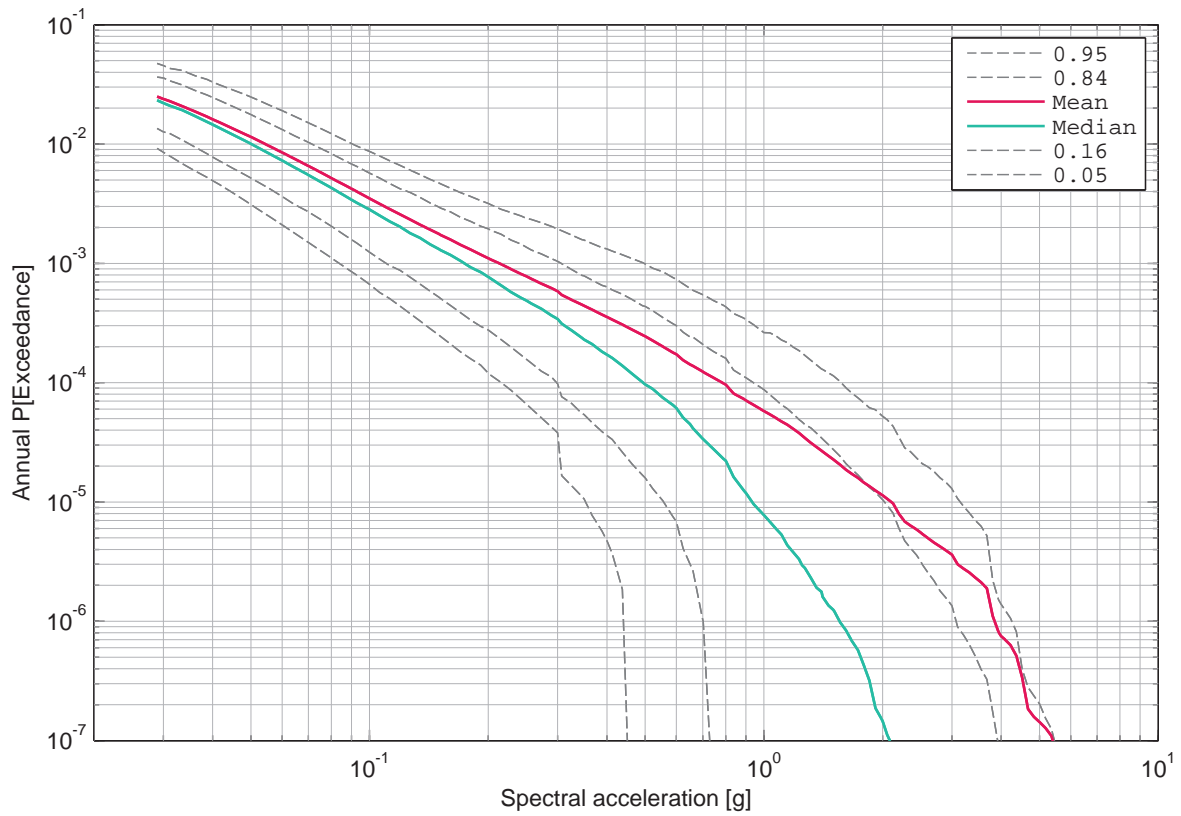


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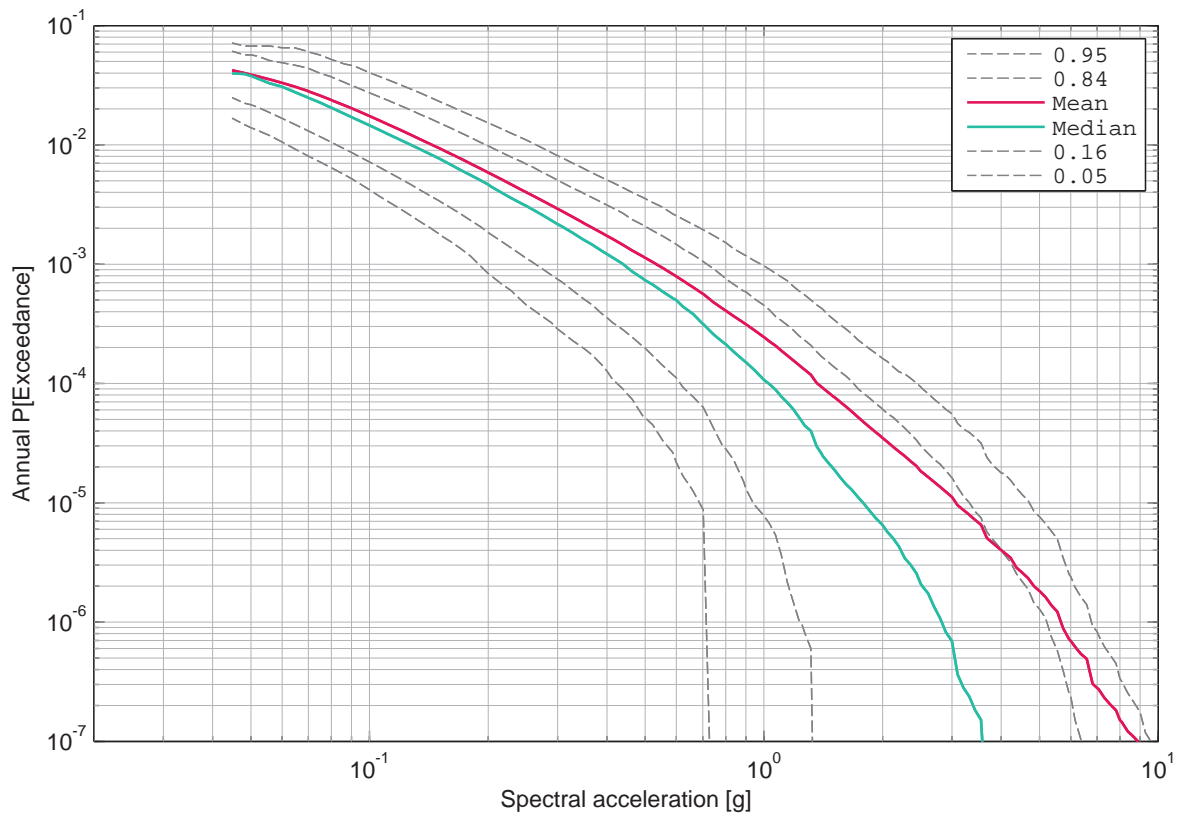


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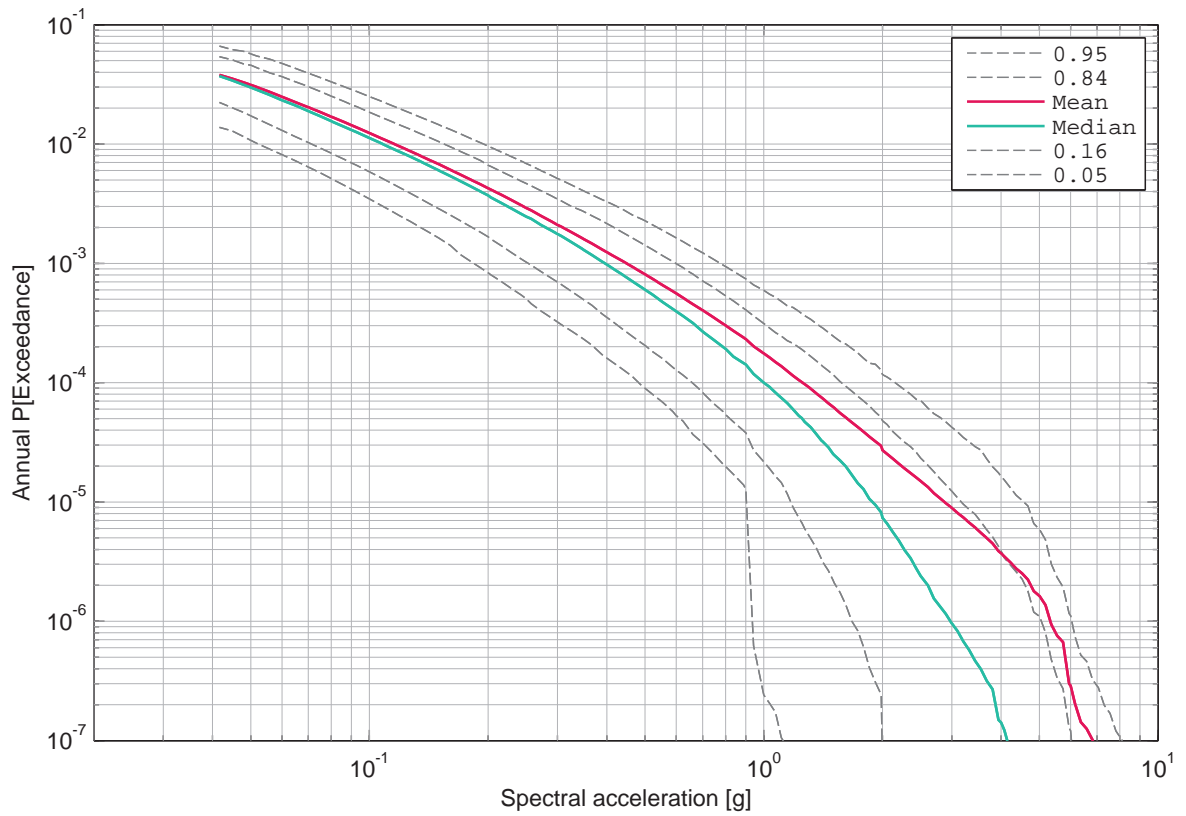


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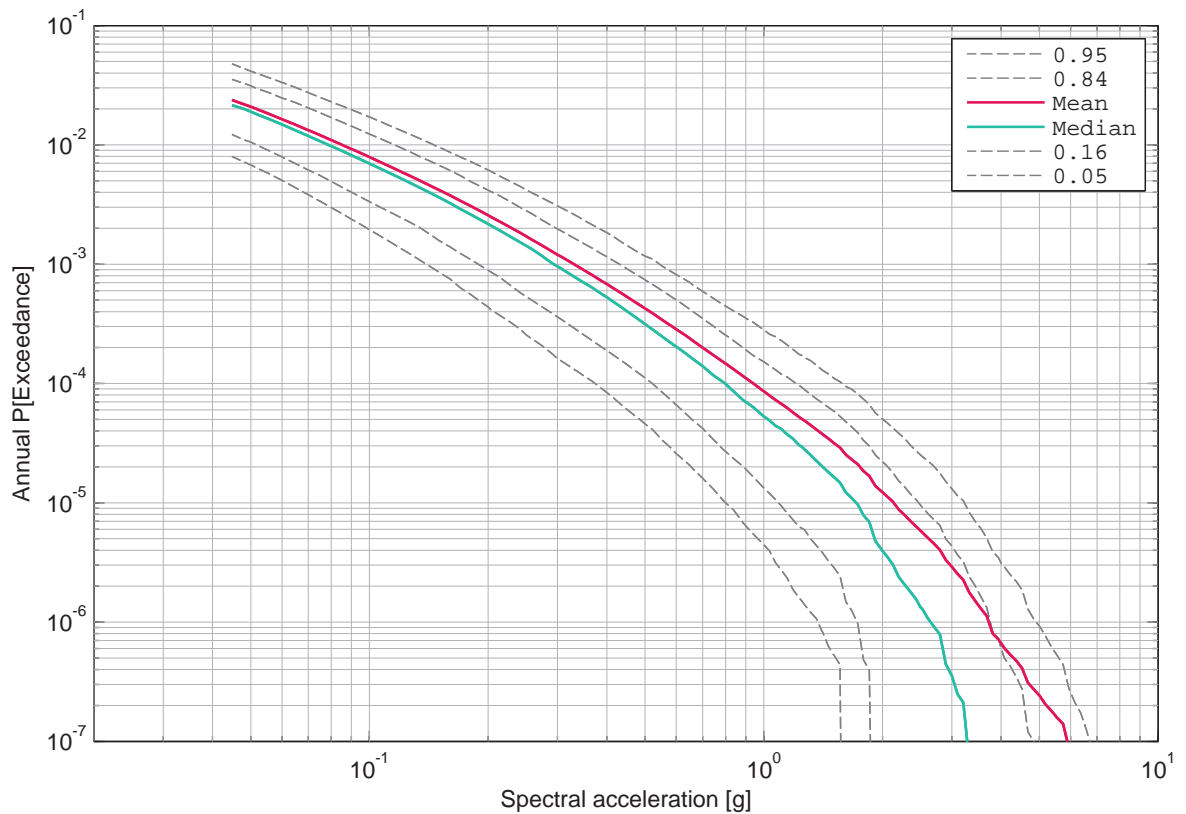


Figure 5.3.6: Mühleberg, horizontal component, soil, -7 m, mean hazard and fractiles, 20 Hz.

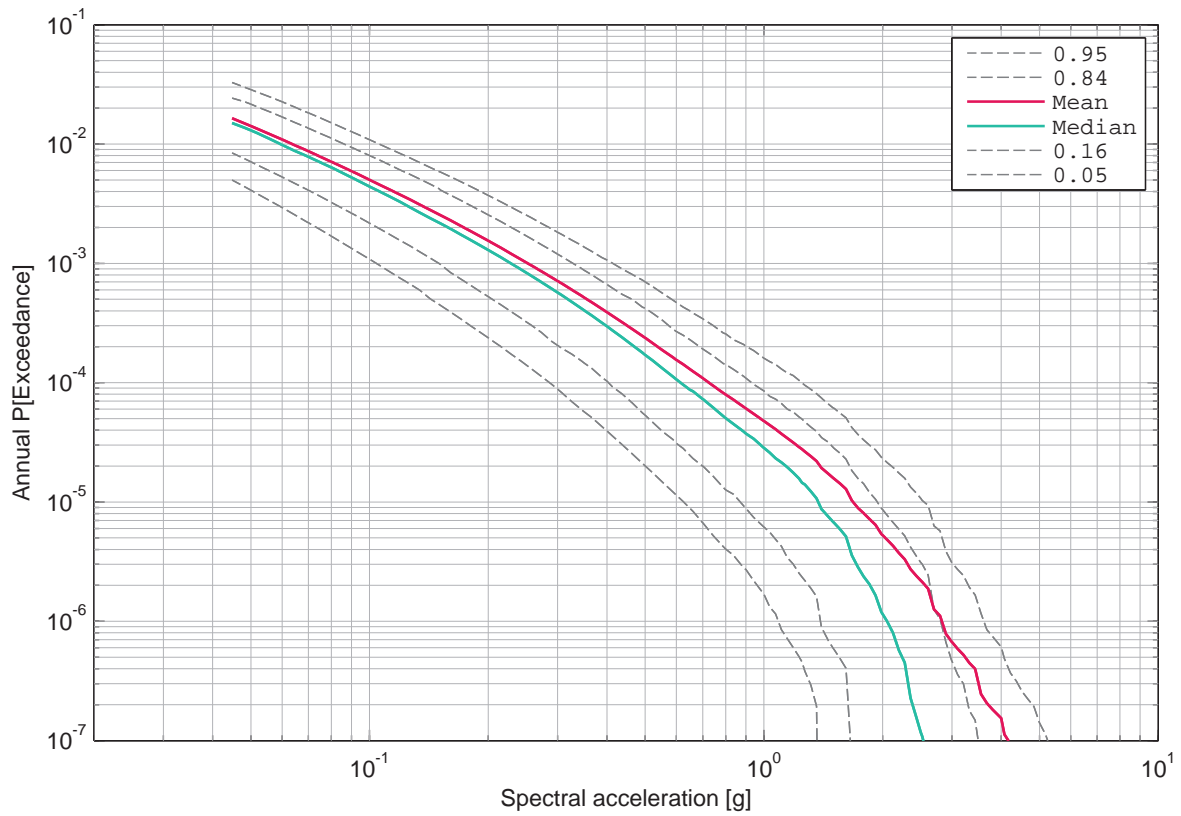


Figure 5.3.7: Mühleberg, horizontal component, soil, -7 m, mean hazard and fractiles, 33 Hz.

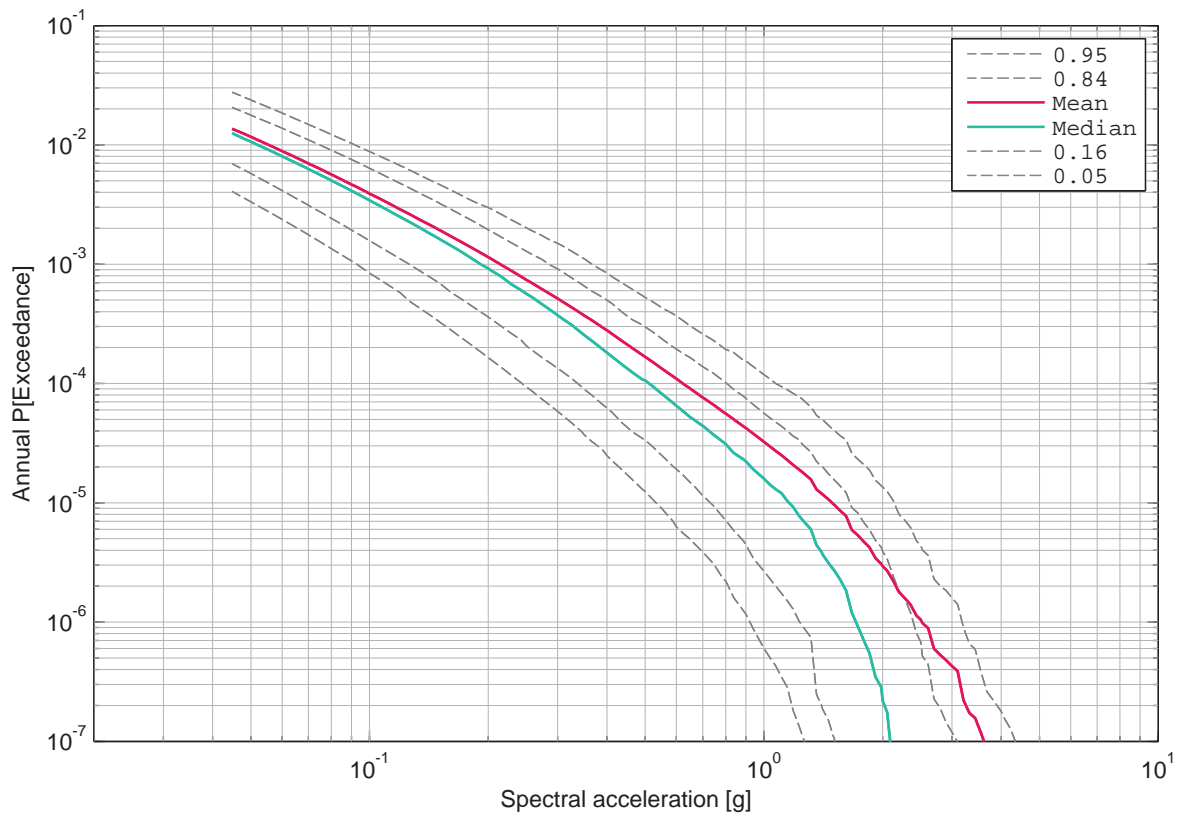


Figure 5.3.8: Mühleberg, horizontal component, soil, -7 m, mean hazard and fractiles, 50 Hz.

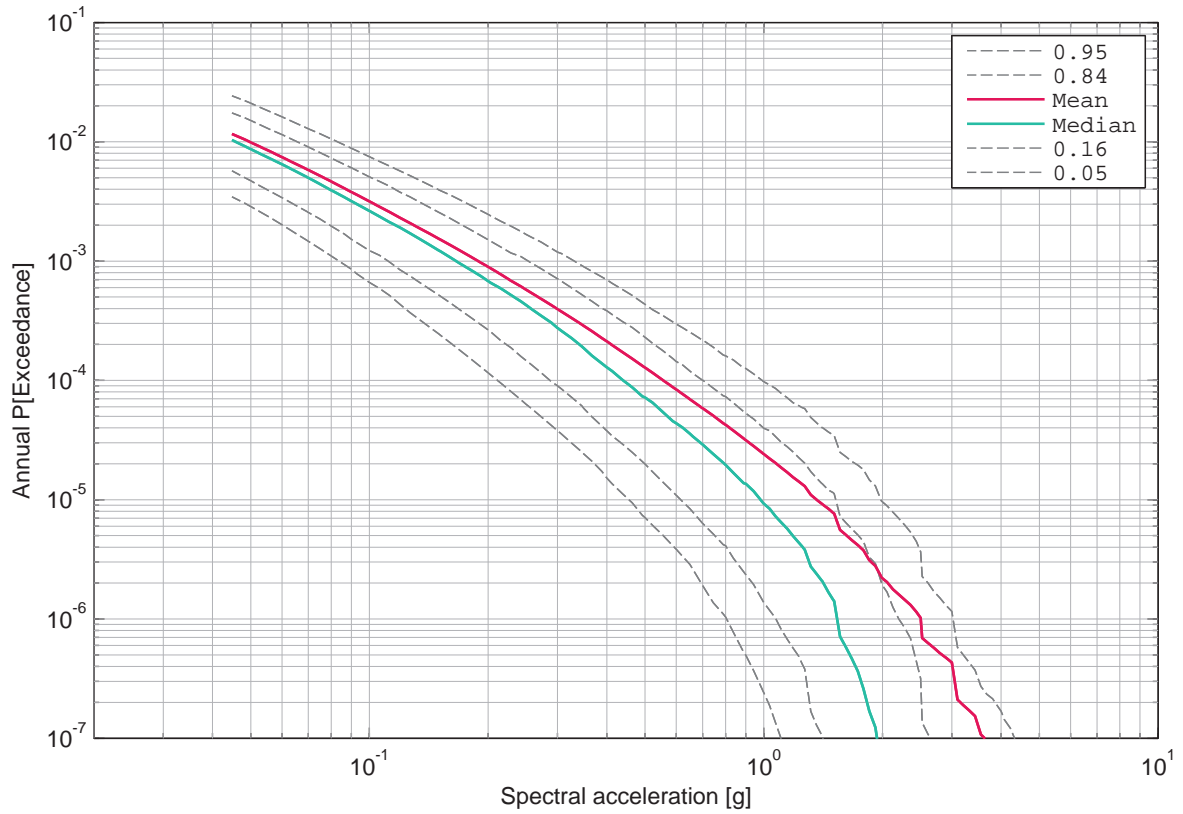


Figure 5.3.9: Mühleberg, horizontal component, soil, -7 m, mean hazard and fractiles, 100 Hz.

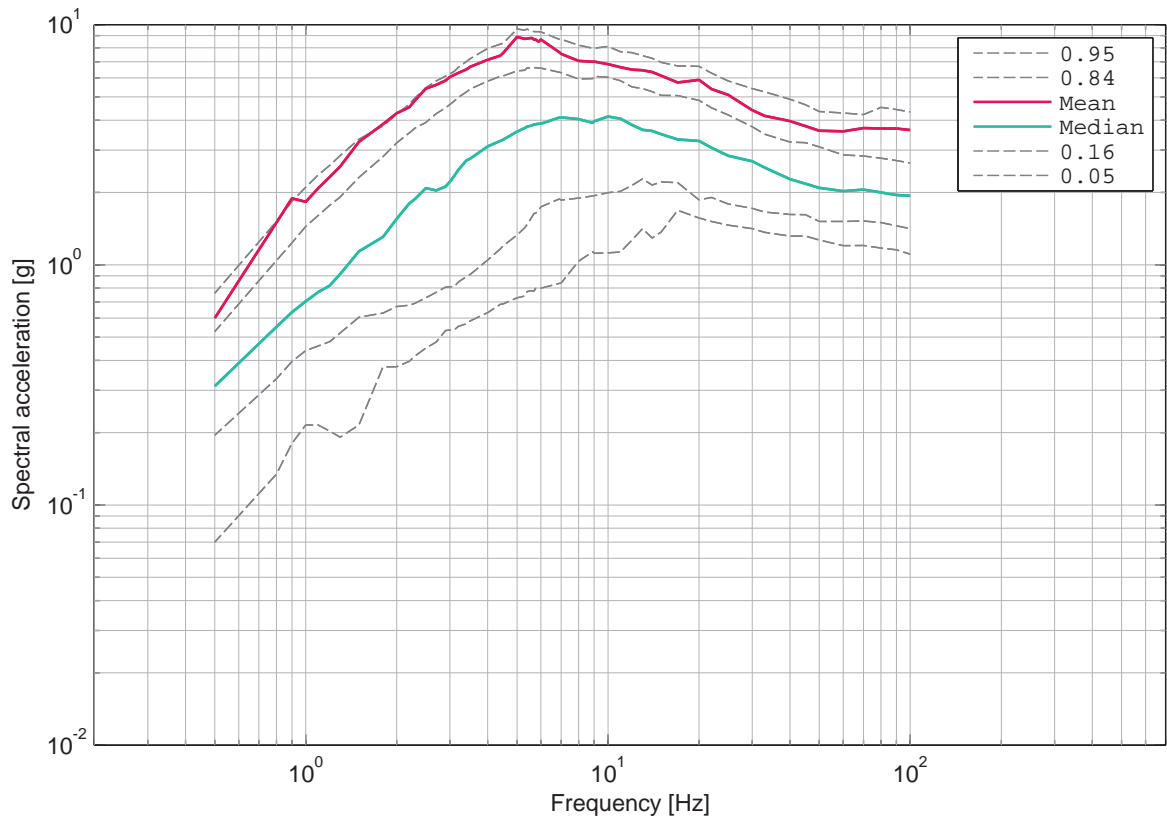


Figure 5.3.10: Mühleberg, horizontal component, soil, -7 m, UHS for an annual probability of exceedance of 1E-07 and 5% damping.

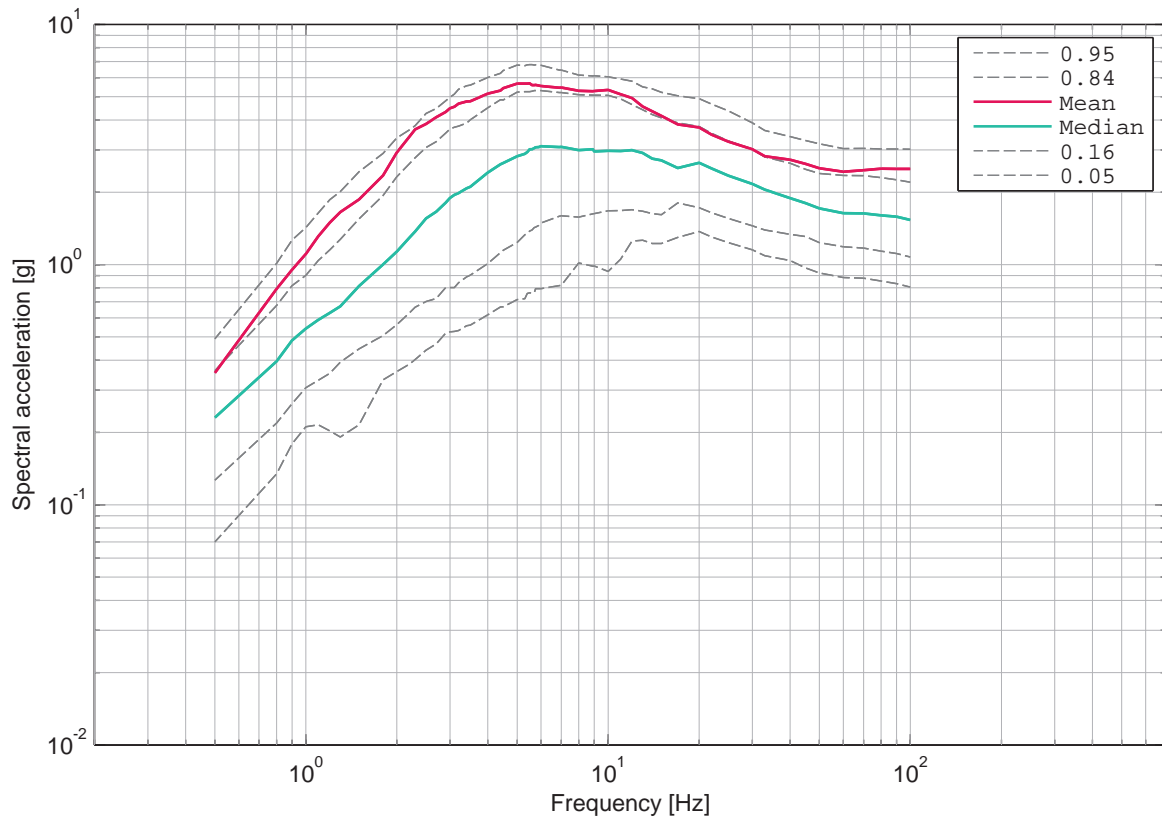


Figure 5.3.11: Mühleberg, horizontal component, soil, -7 m, UHS for an annual probability of exceedance of 1E-06 and 5% damping.

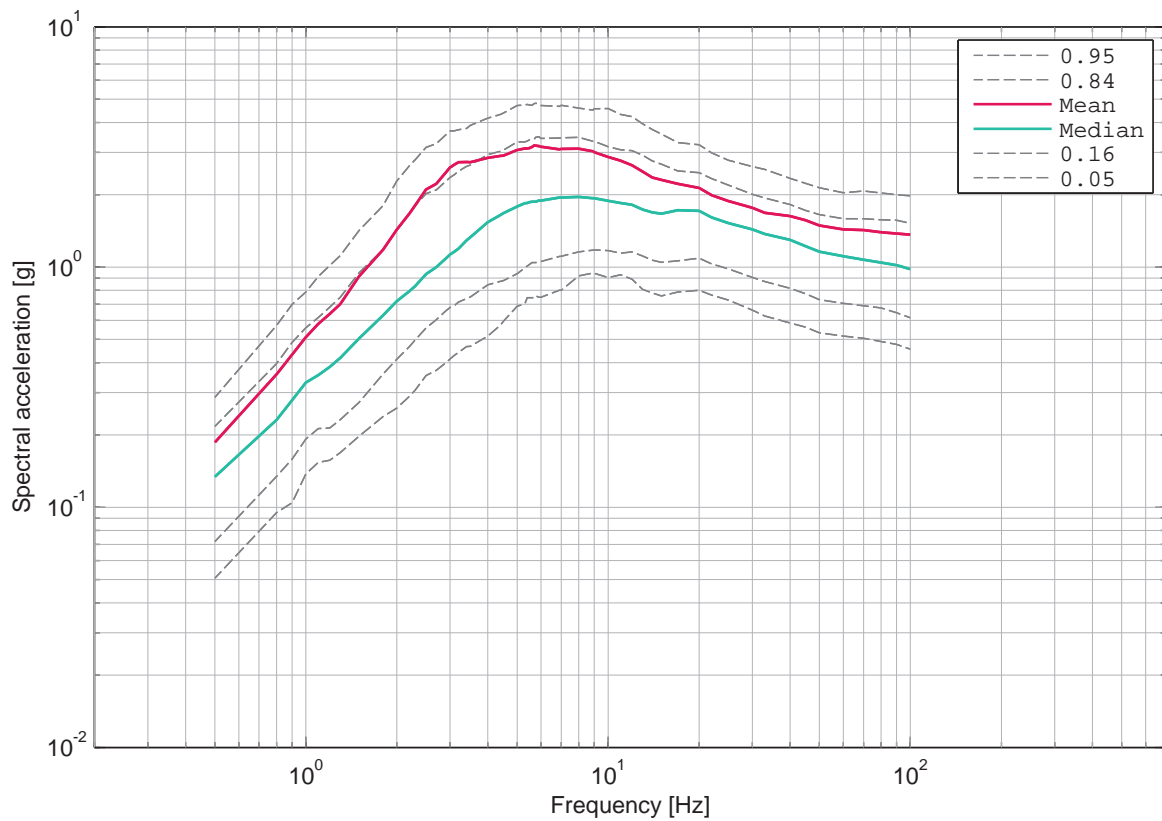


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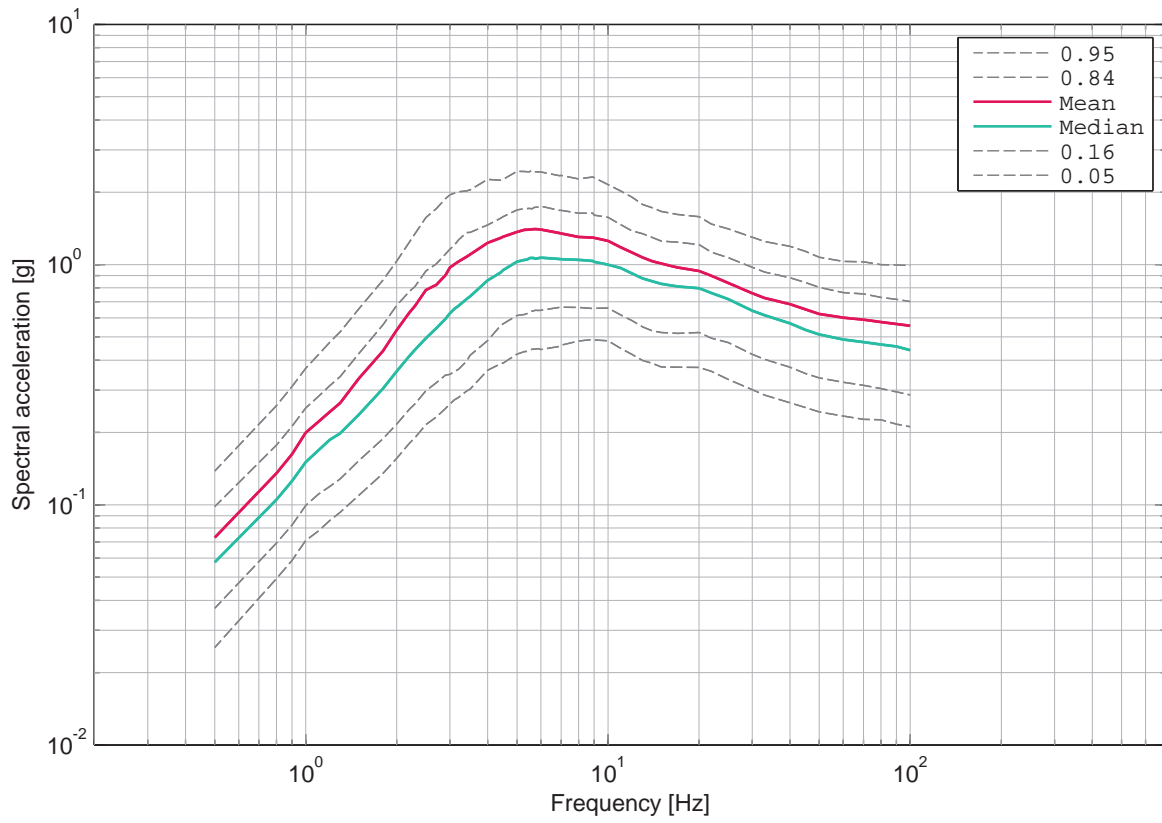


Figure 5.3.13: Mühleberg, horizontal component, soil, -7 m, UHS for an annual probability of exceedance of 1E-04 and 5% damping.

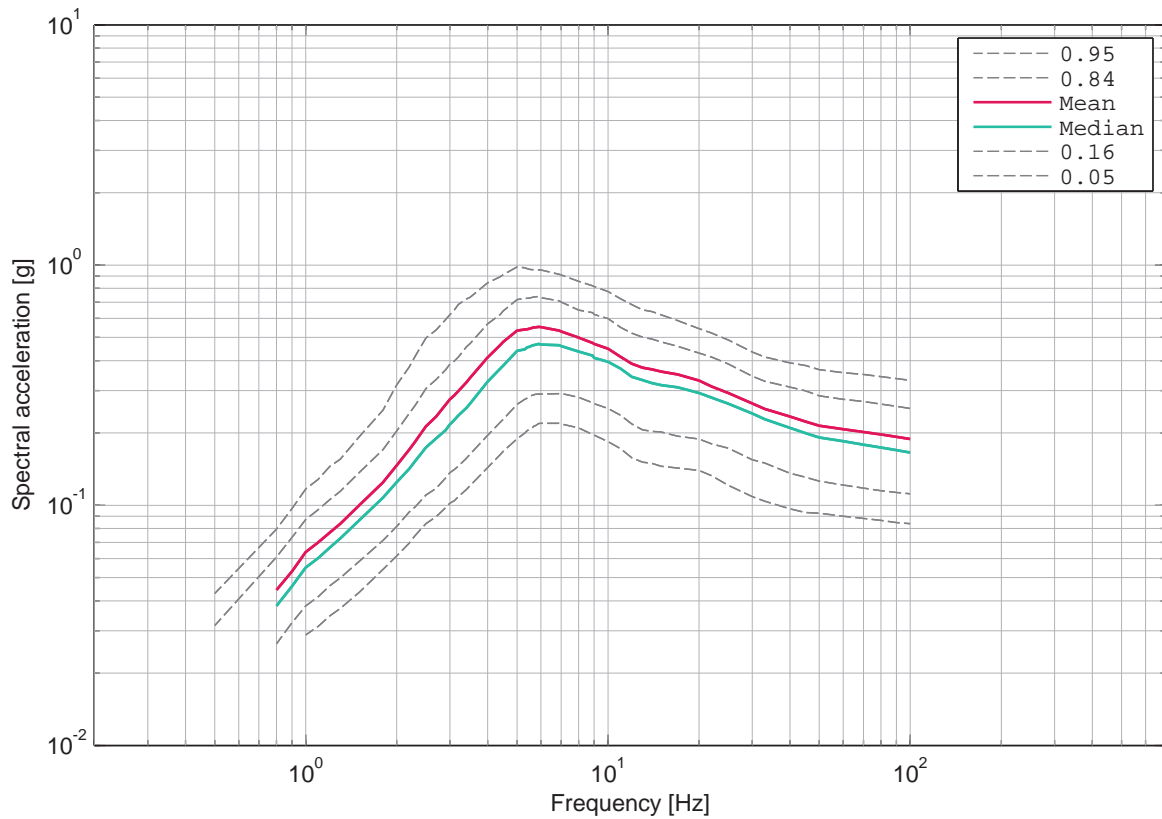


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5.4 Mühleberg, Soil Hazard, Horizontal Component, -14 m

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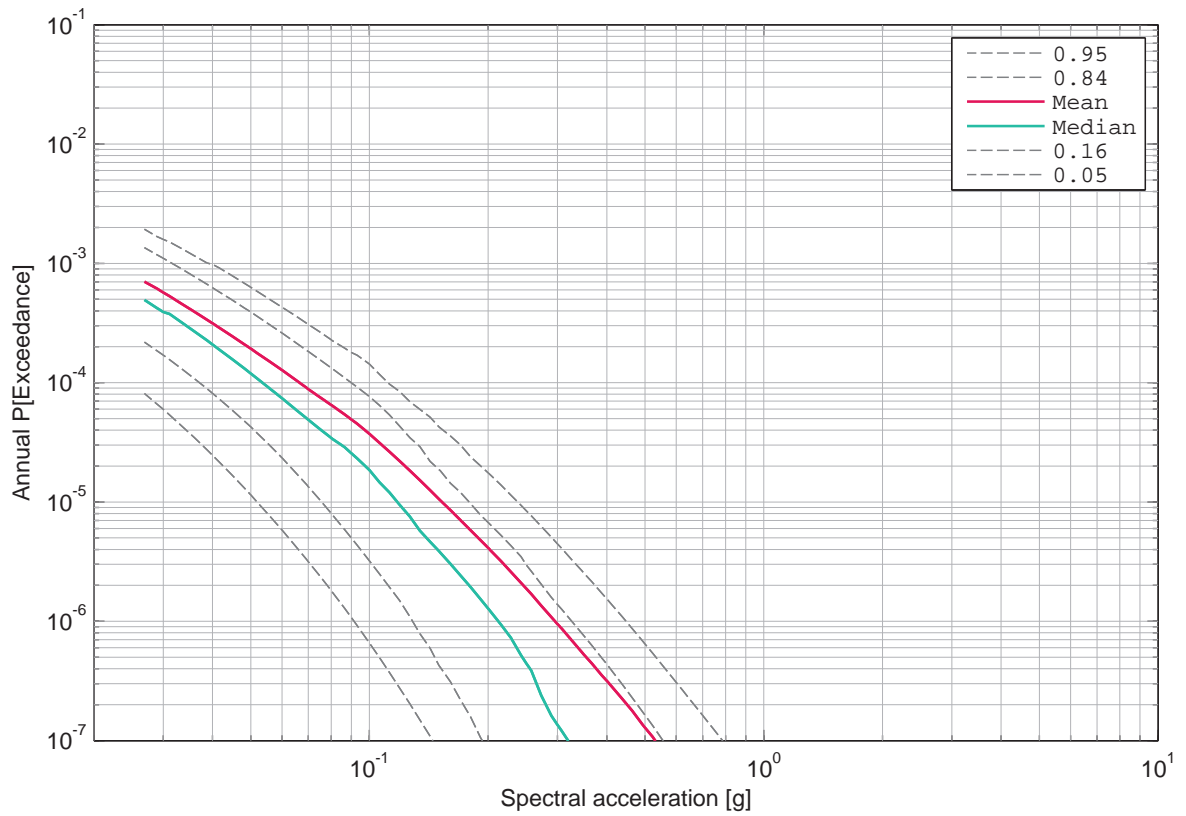


Figure 5.4.1: Mühleberg, horizontal component, soil, -14 m, mean hazard and fractiles, 0.5 Hz.

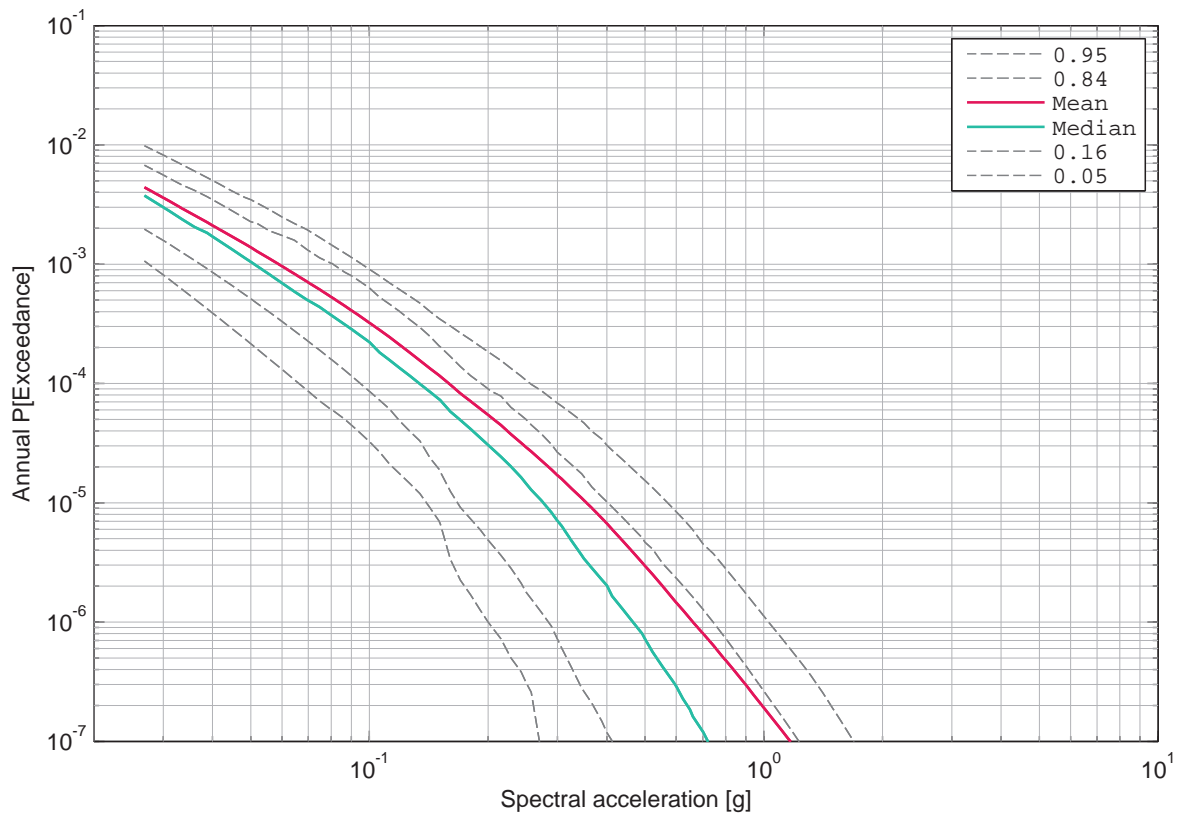


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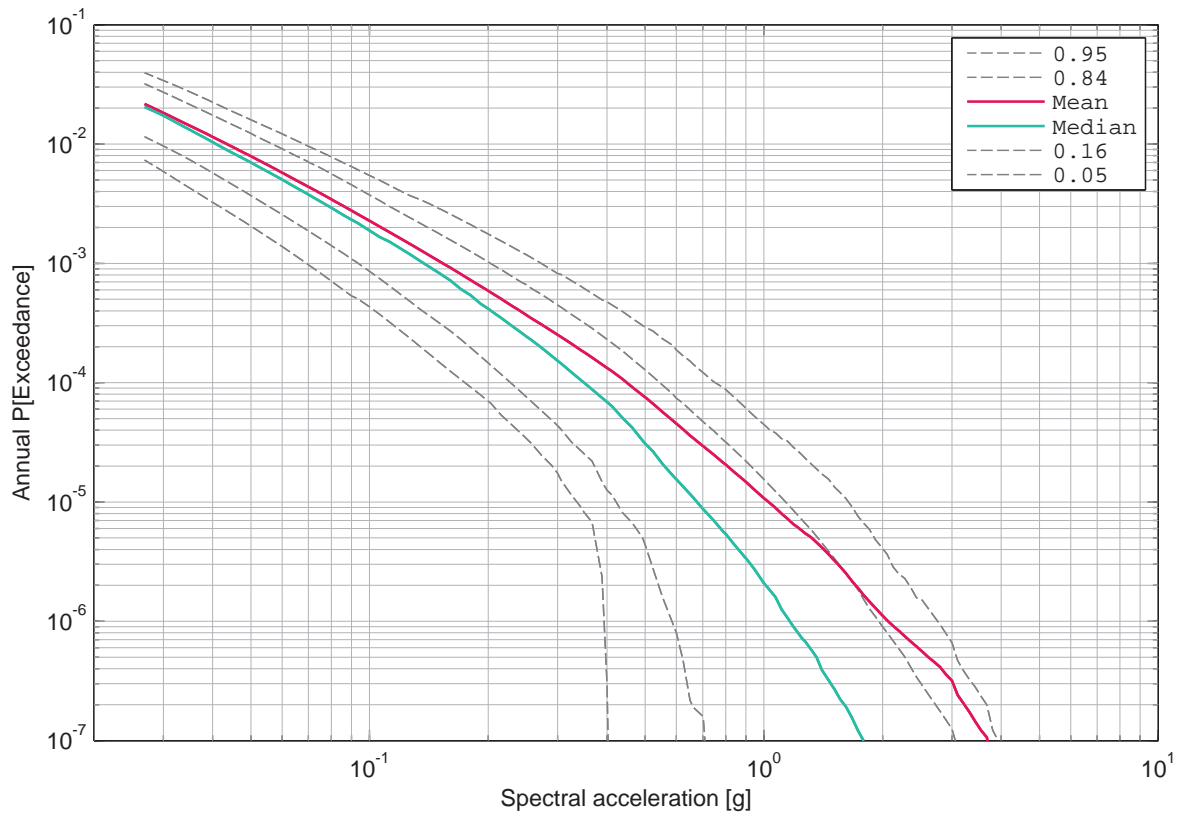


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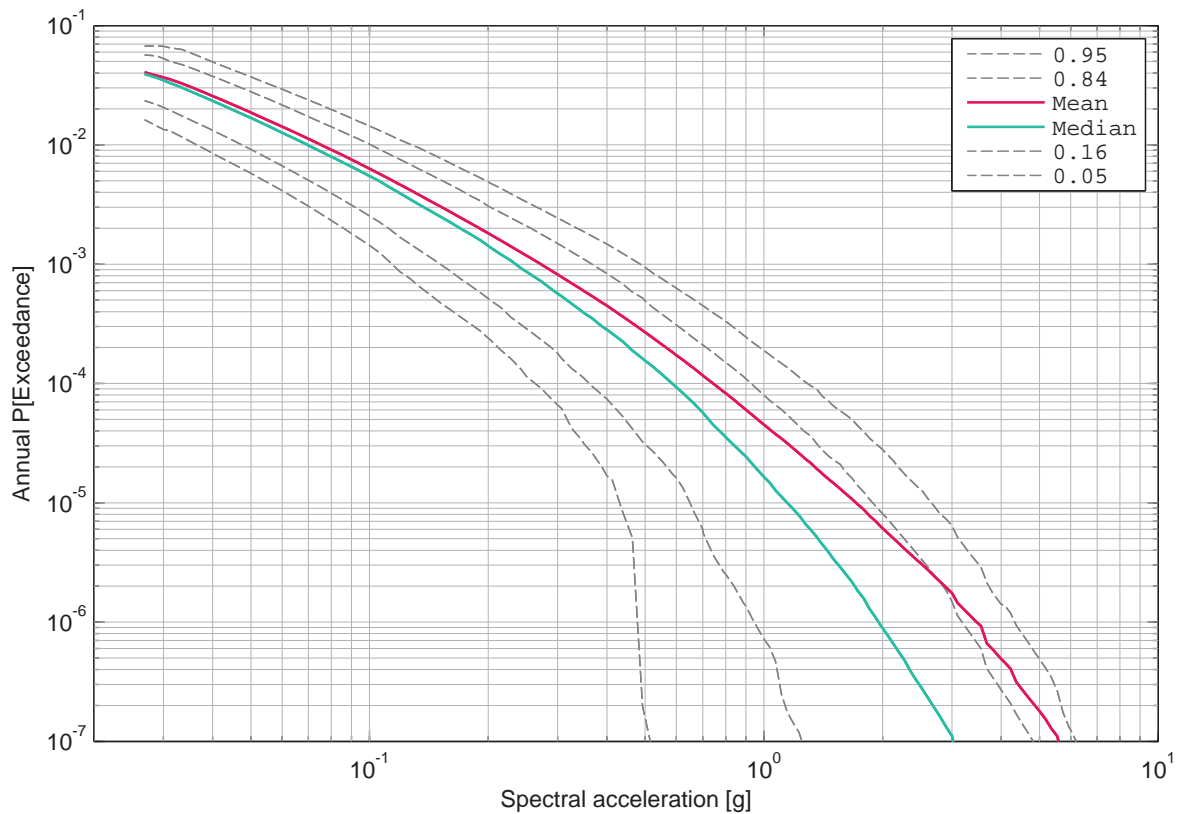


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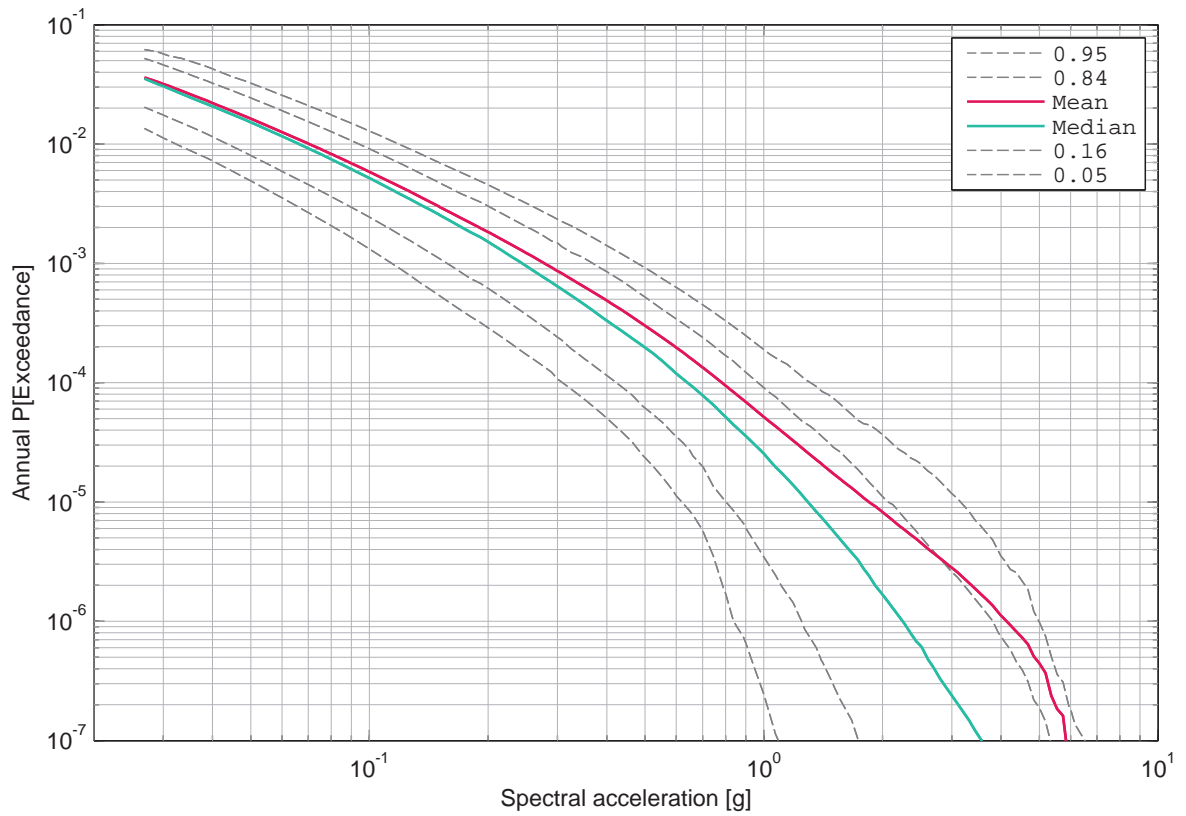


Figure 5.4.5: Mühleberg, horizontal component, soil, -14 m, mean hazard and fractiles, 10 Hz.

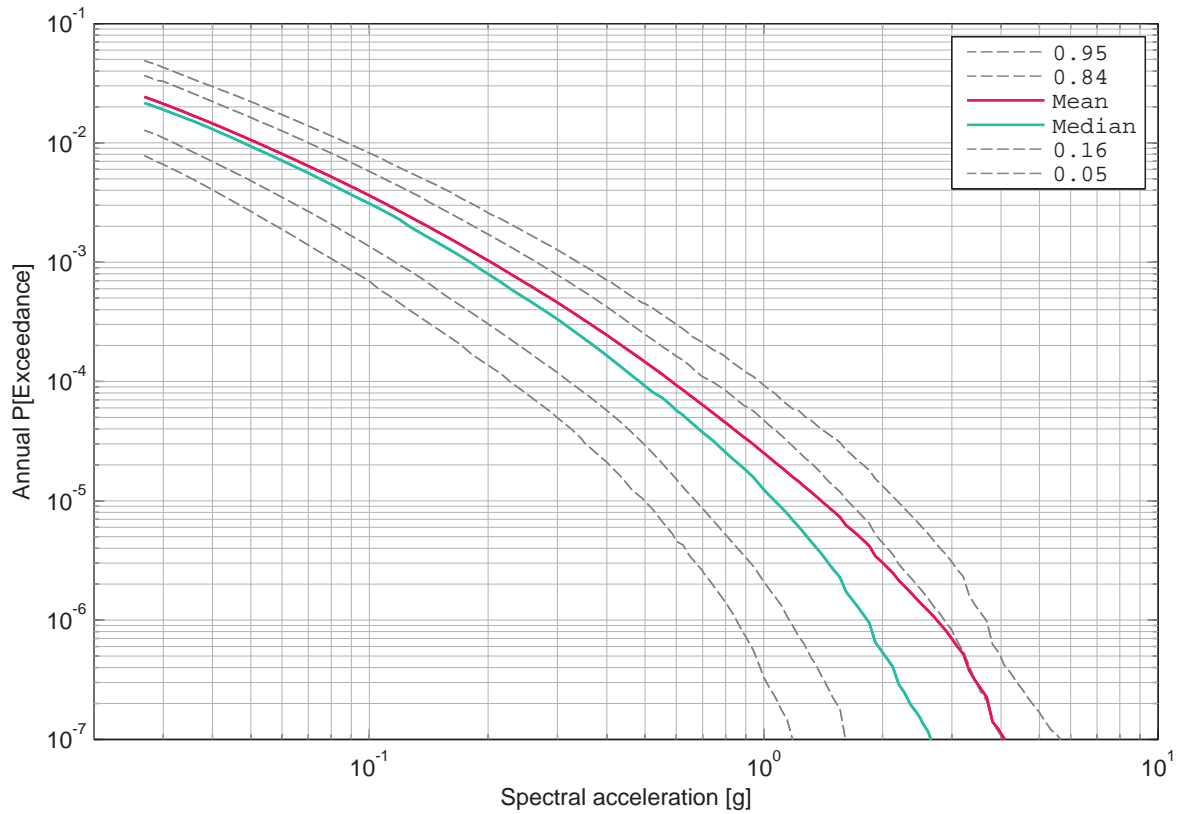


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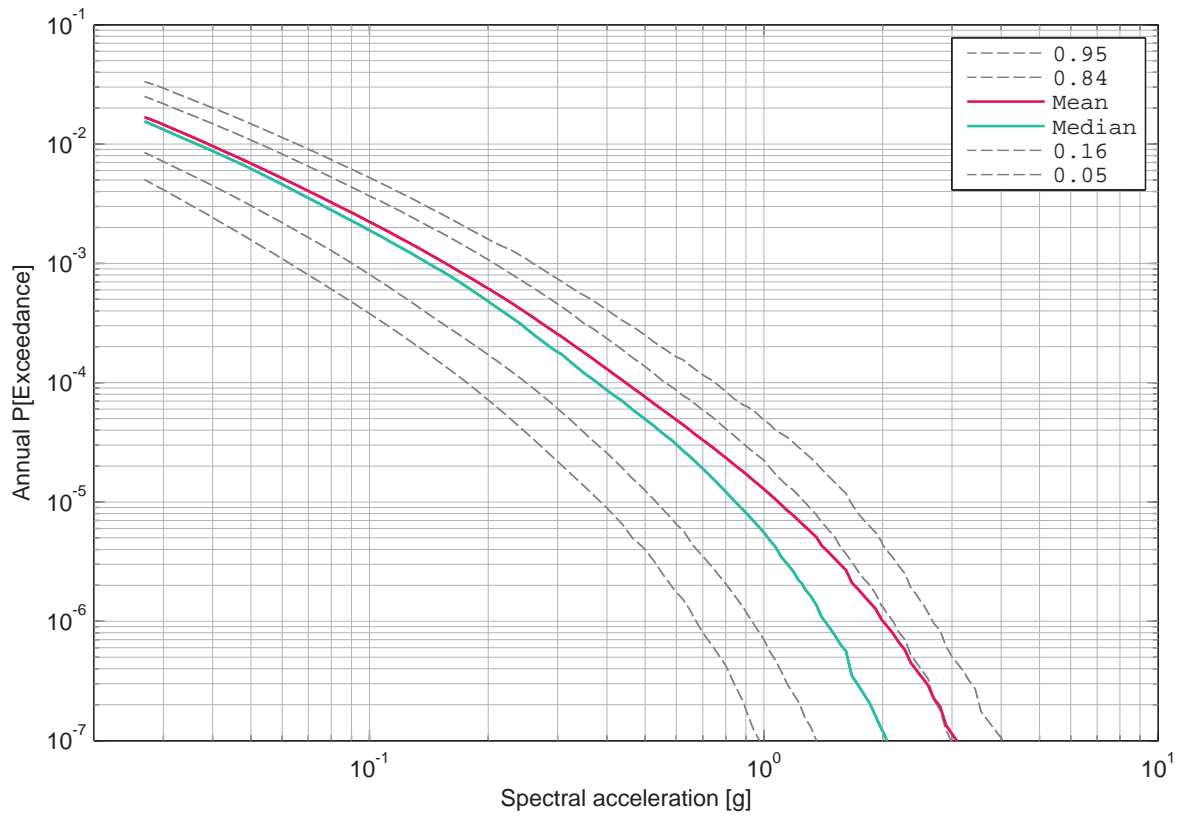


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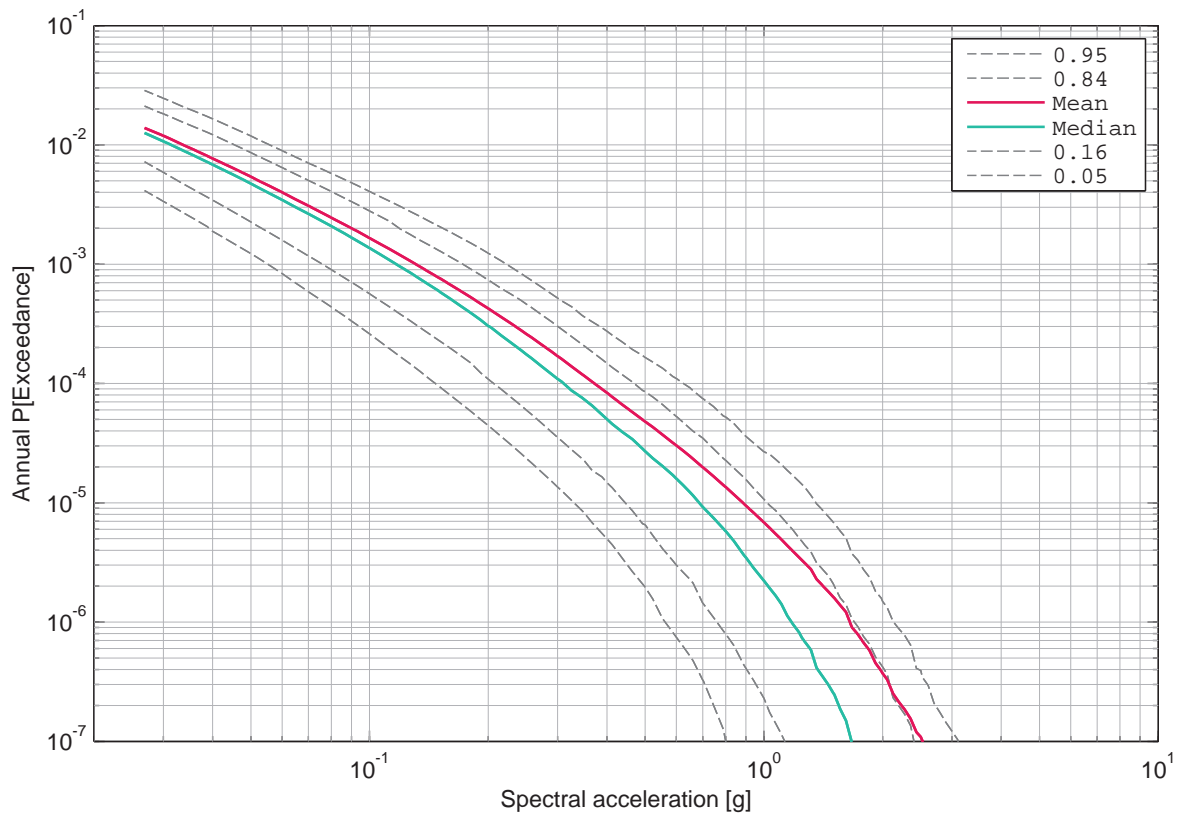


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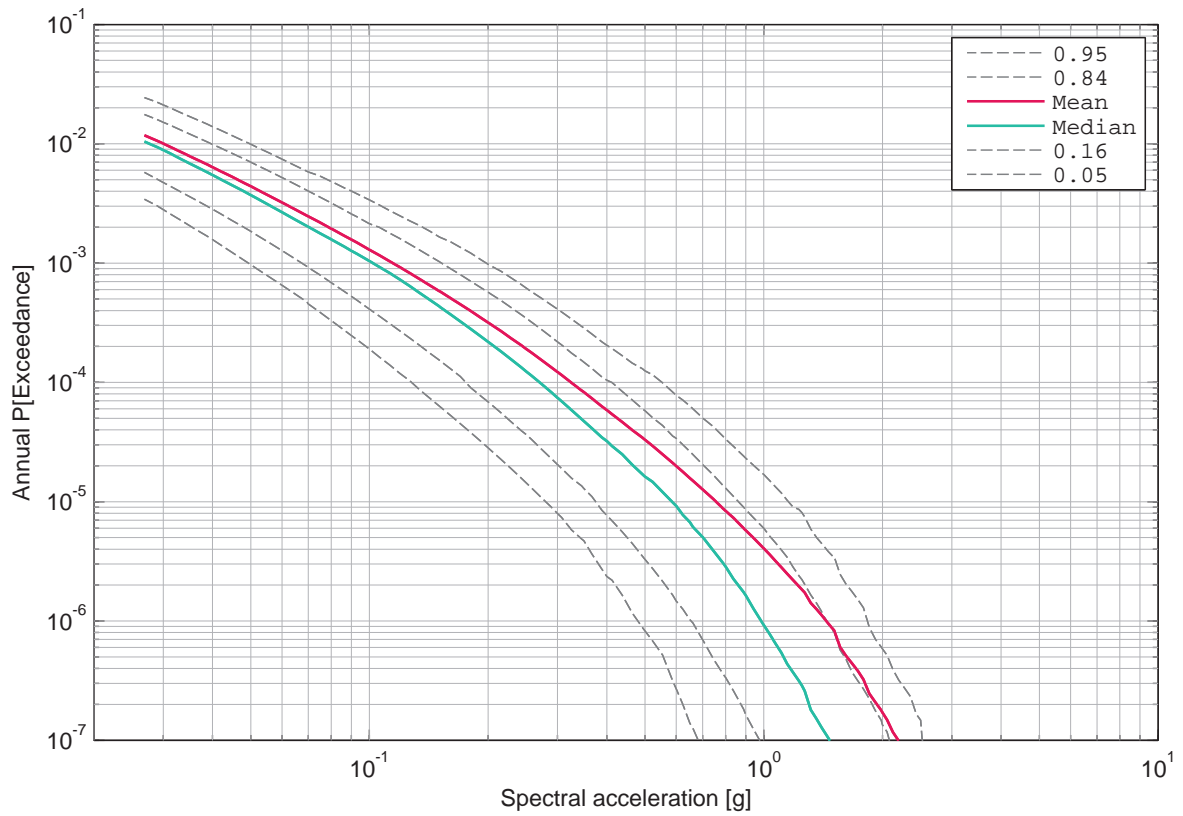


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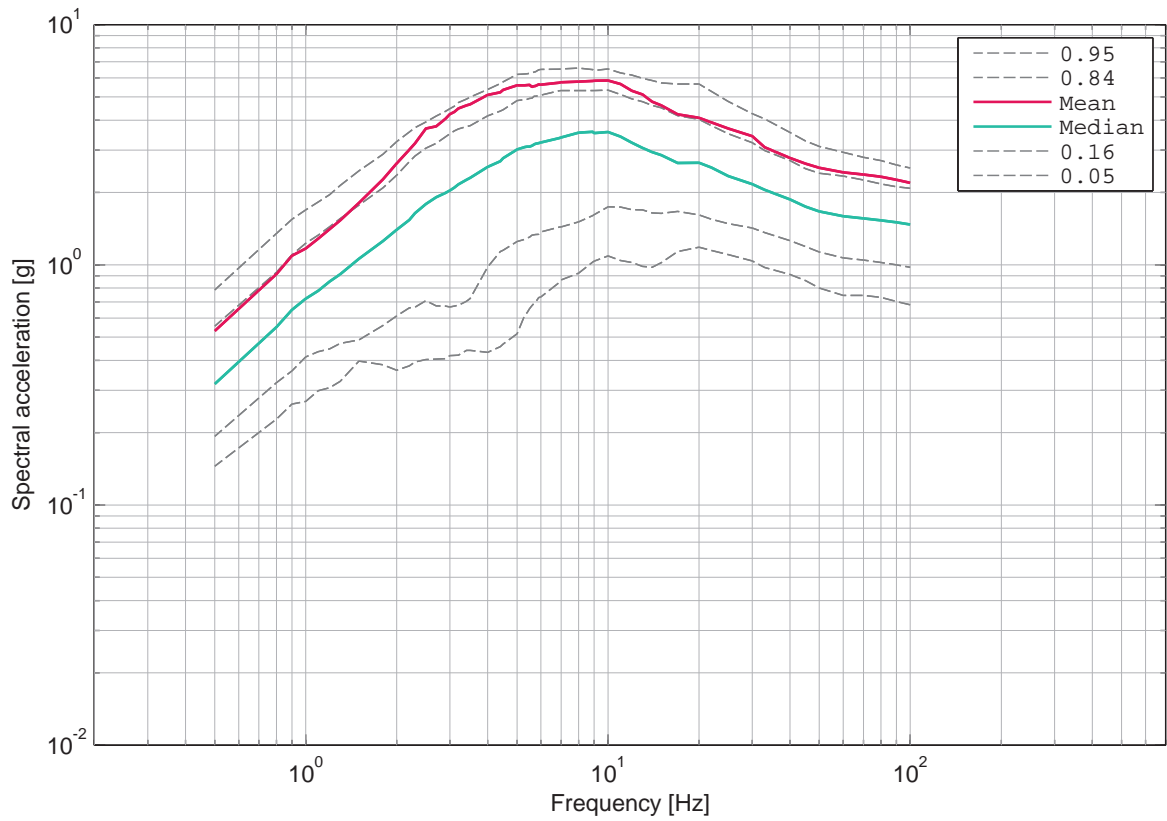


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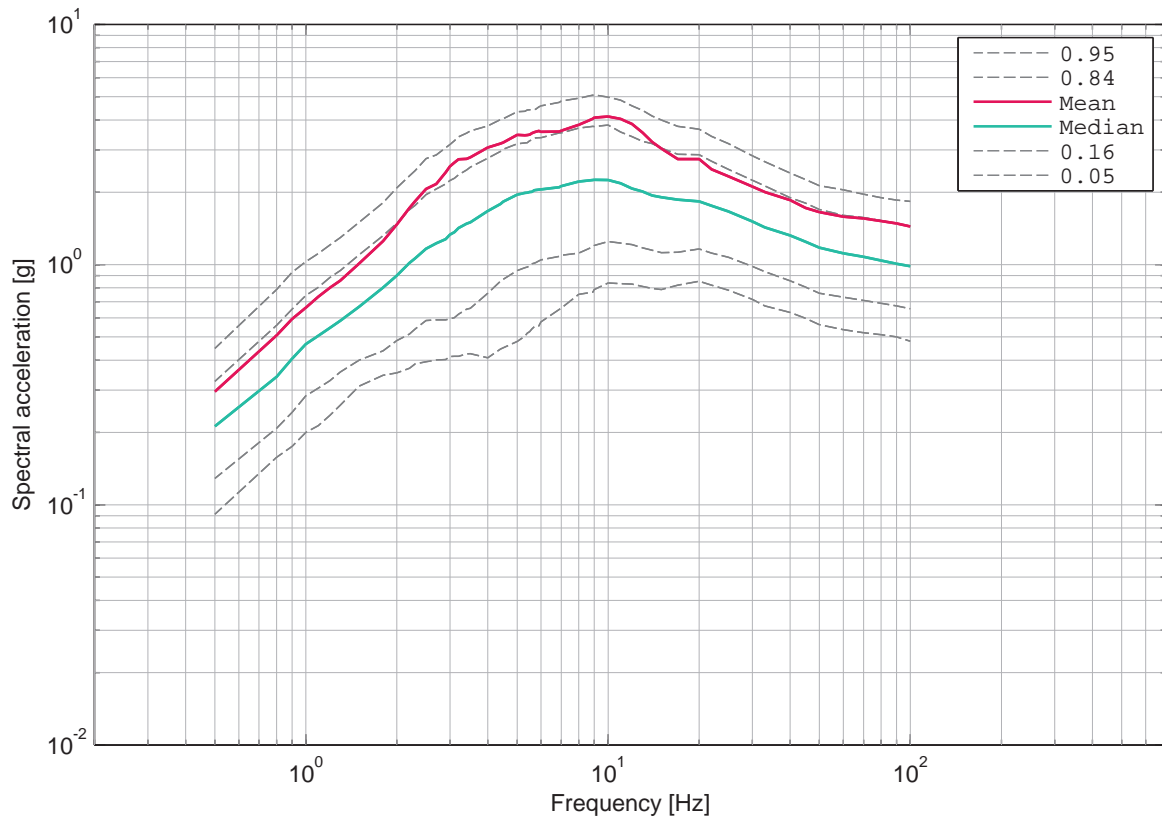


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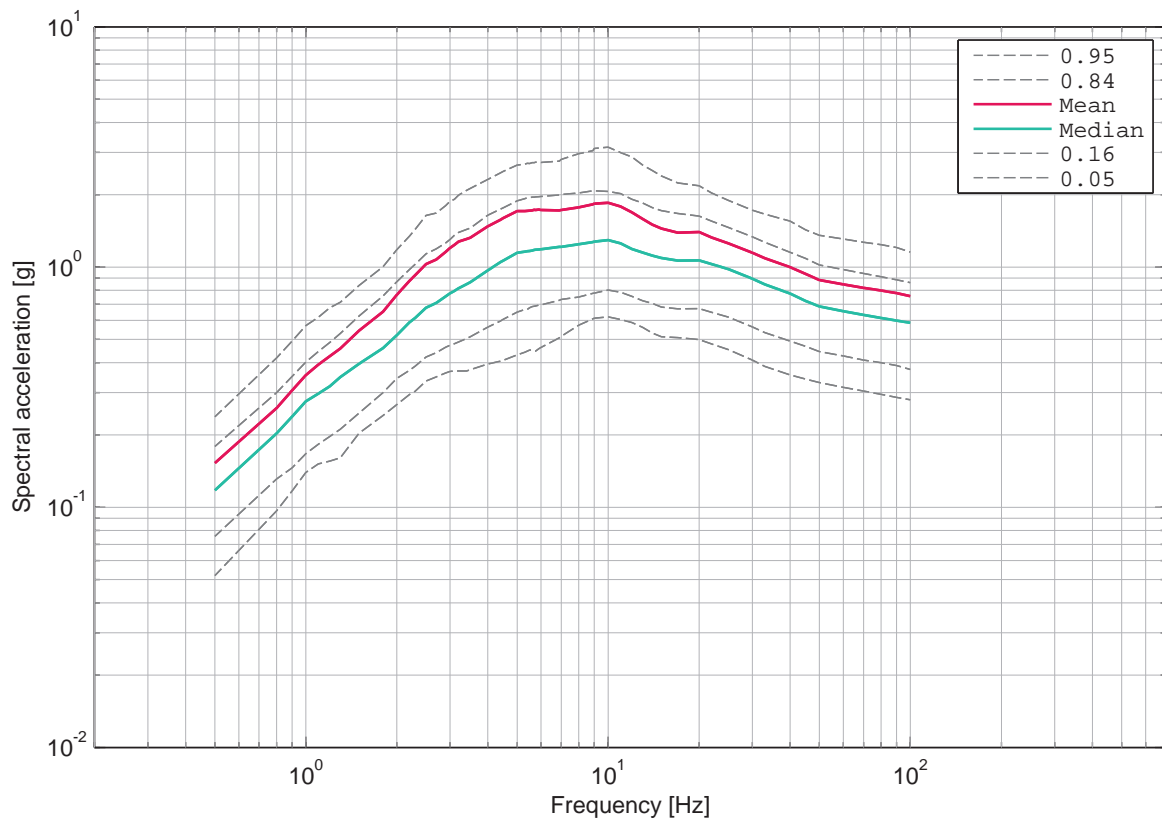


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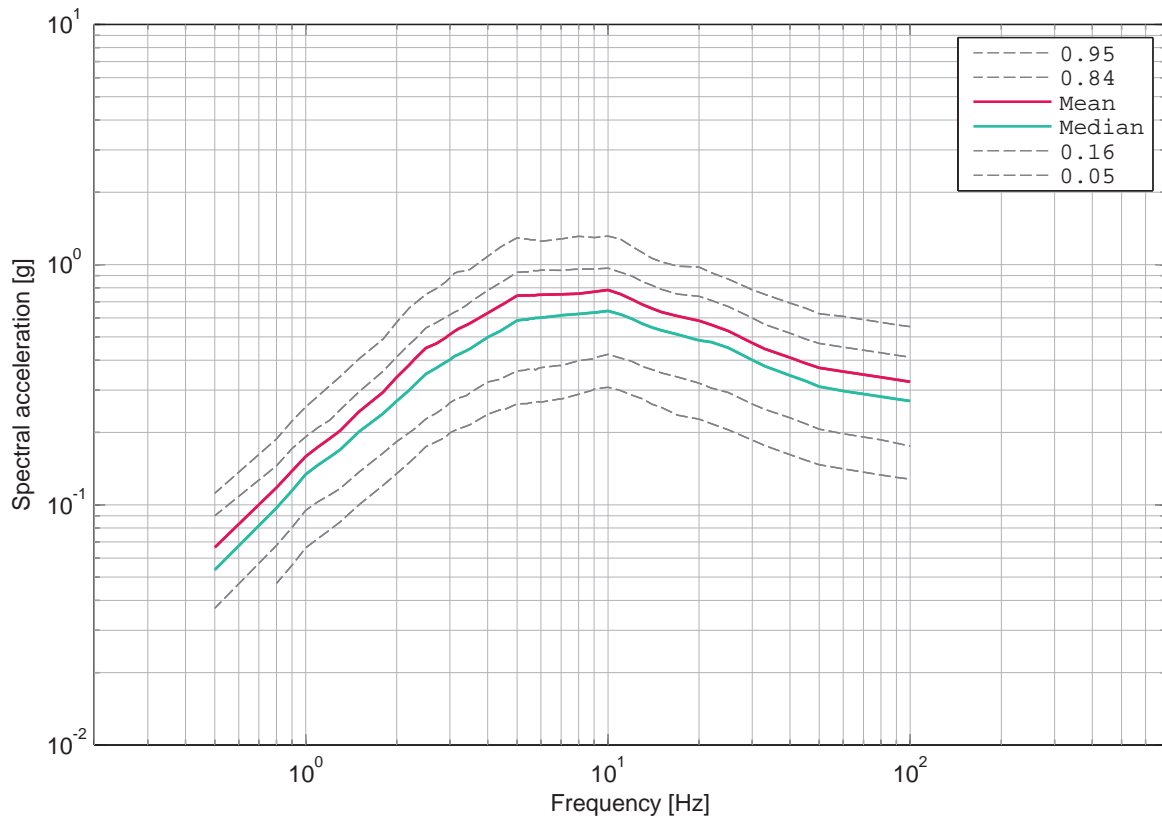


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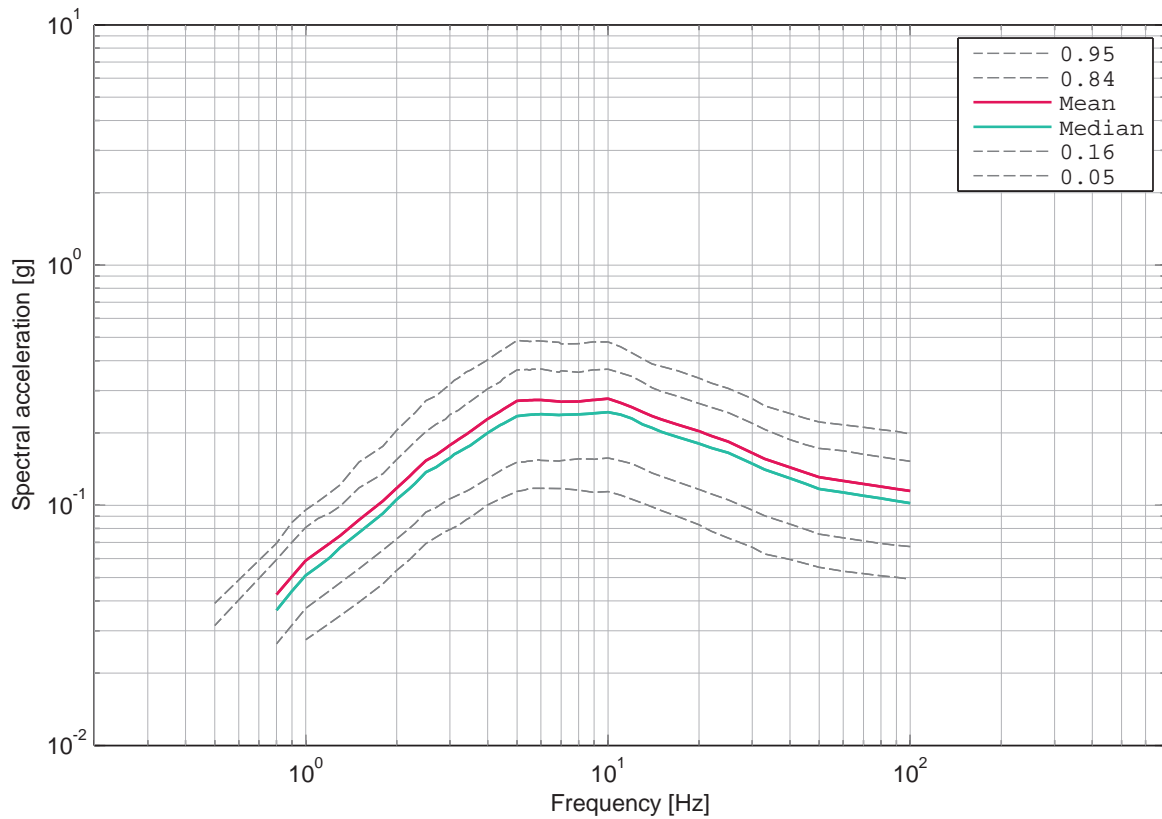


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5.5 Mühleberg, Rock Hazard Deaggregation, Horizontal Component

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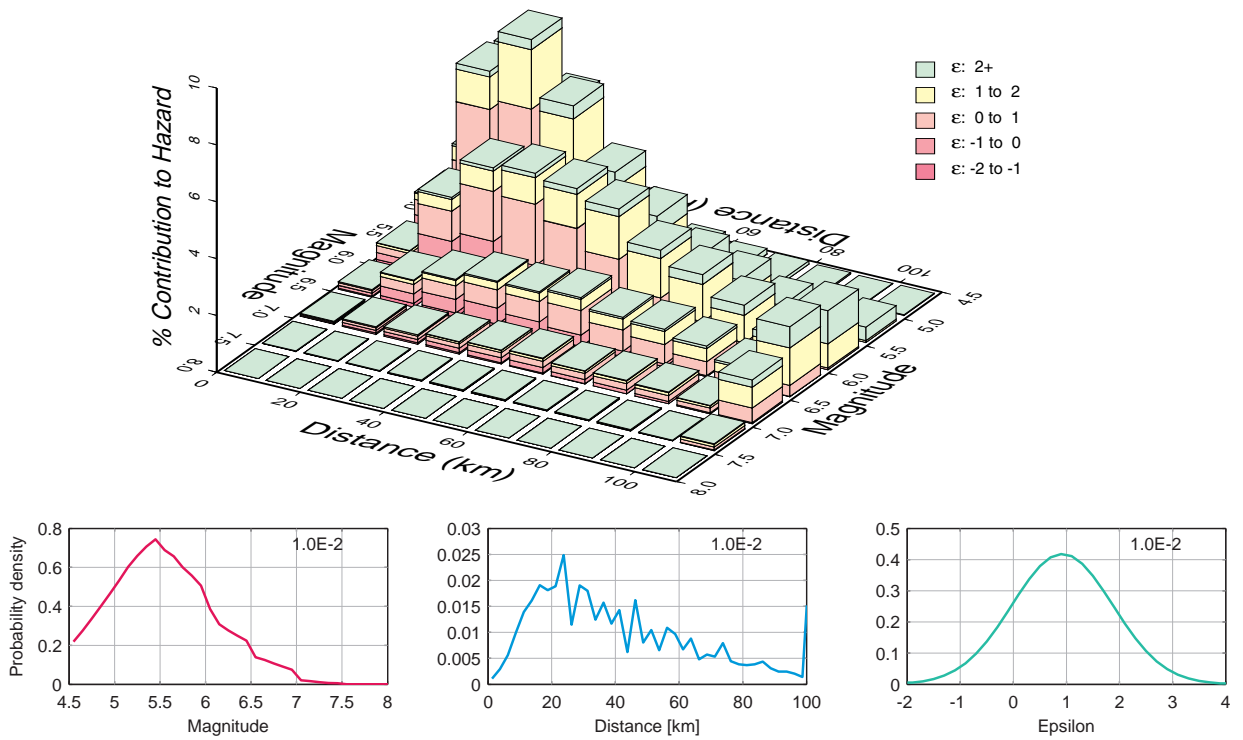


Figure 5.5.1: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-02, 5 Hz.

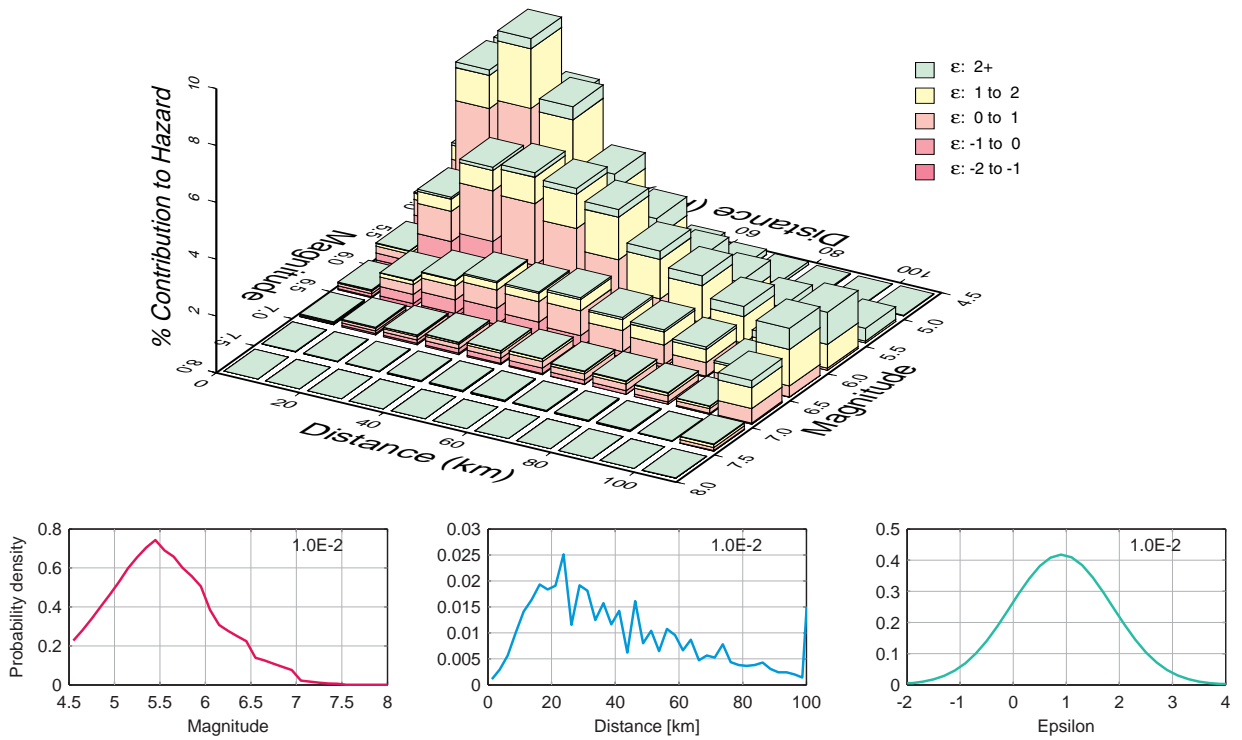


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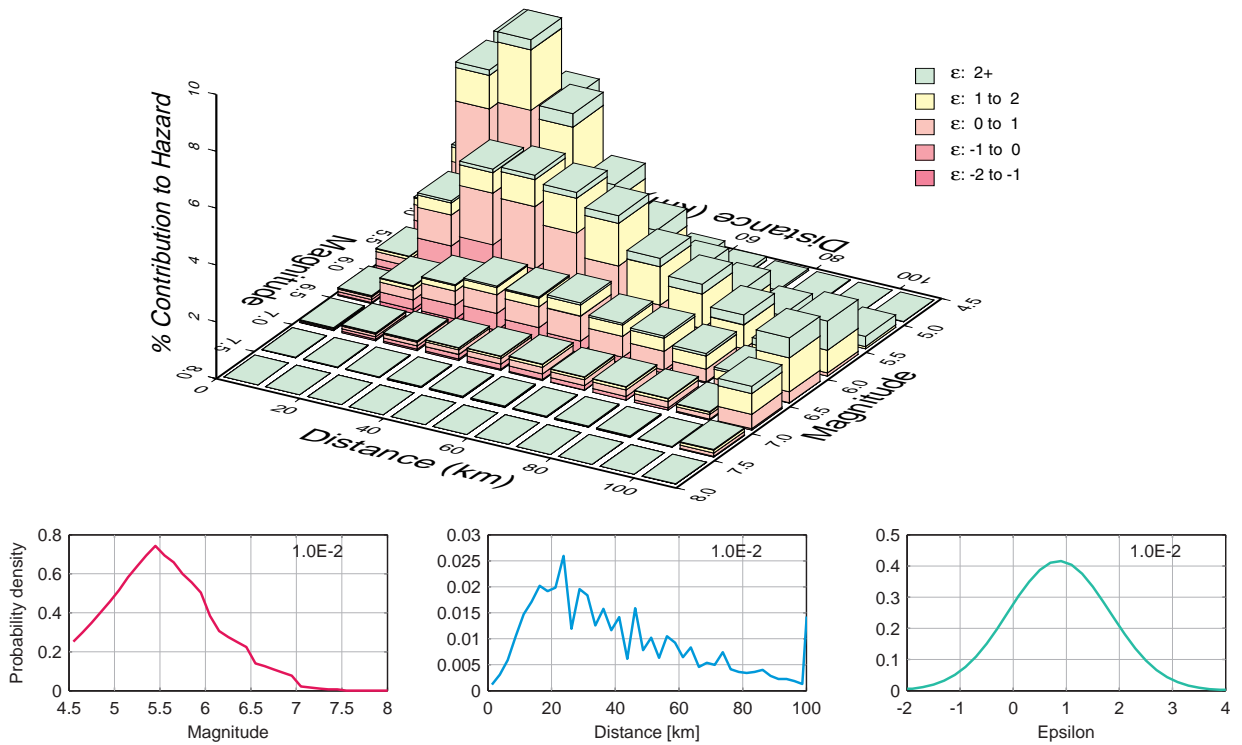


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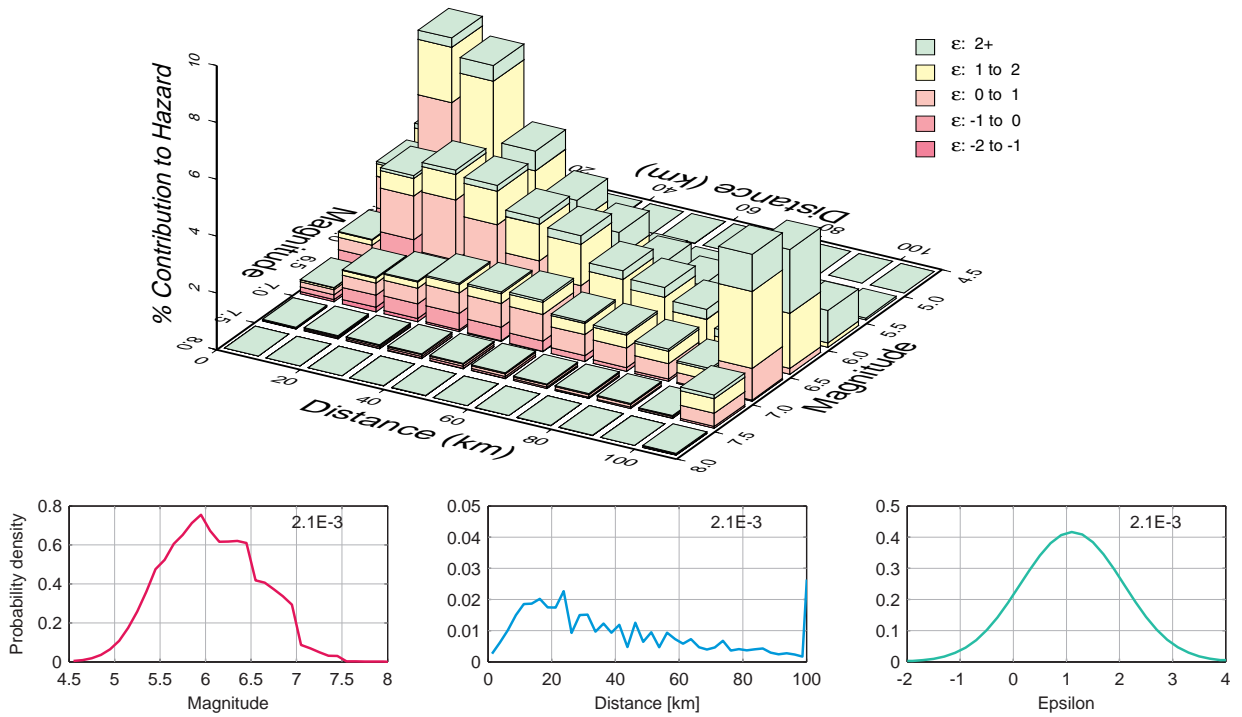


Figure 5.5.4: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 2.1E-03, 1 Hz.

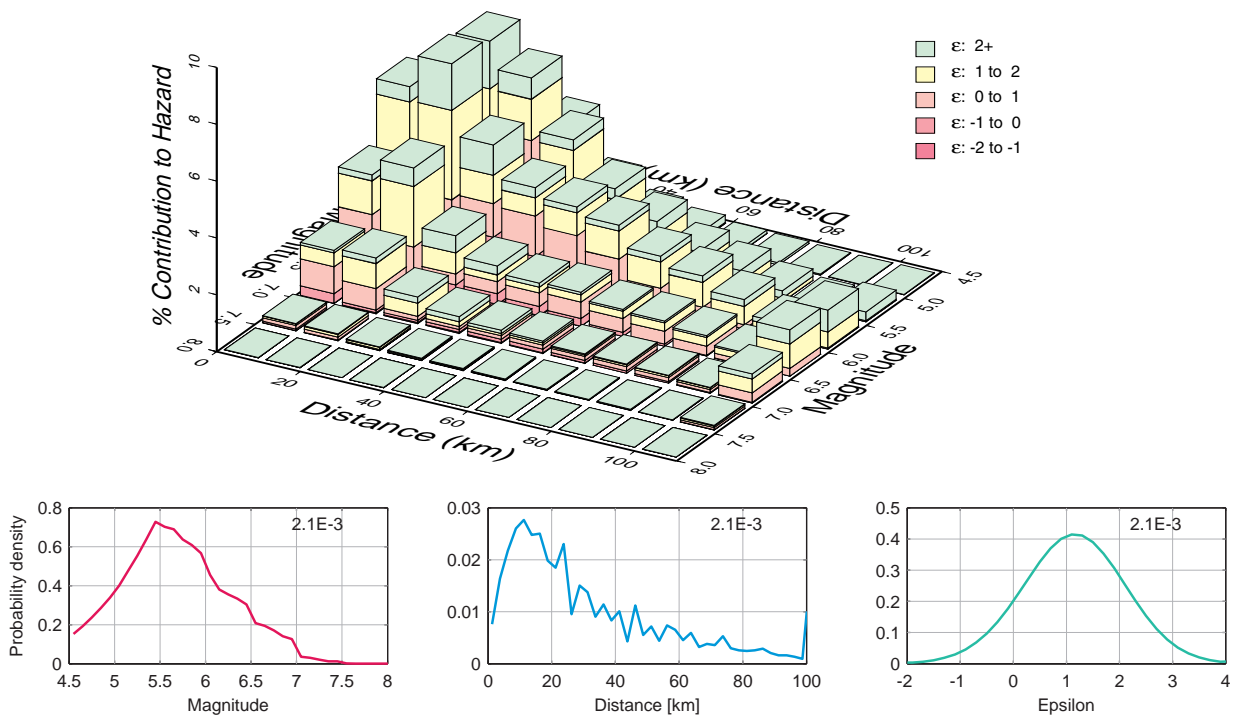


Figure 5.5.5: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 2.1E-03, 5 Hz.

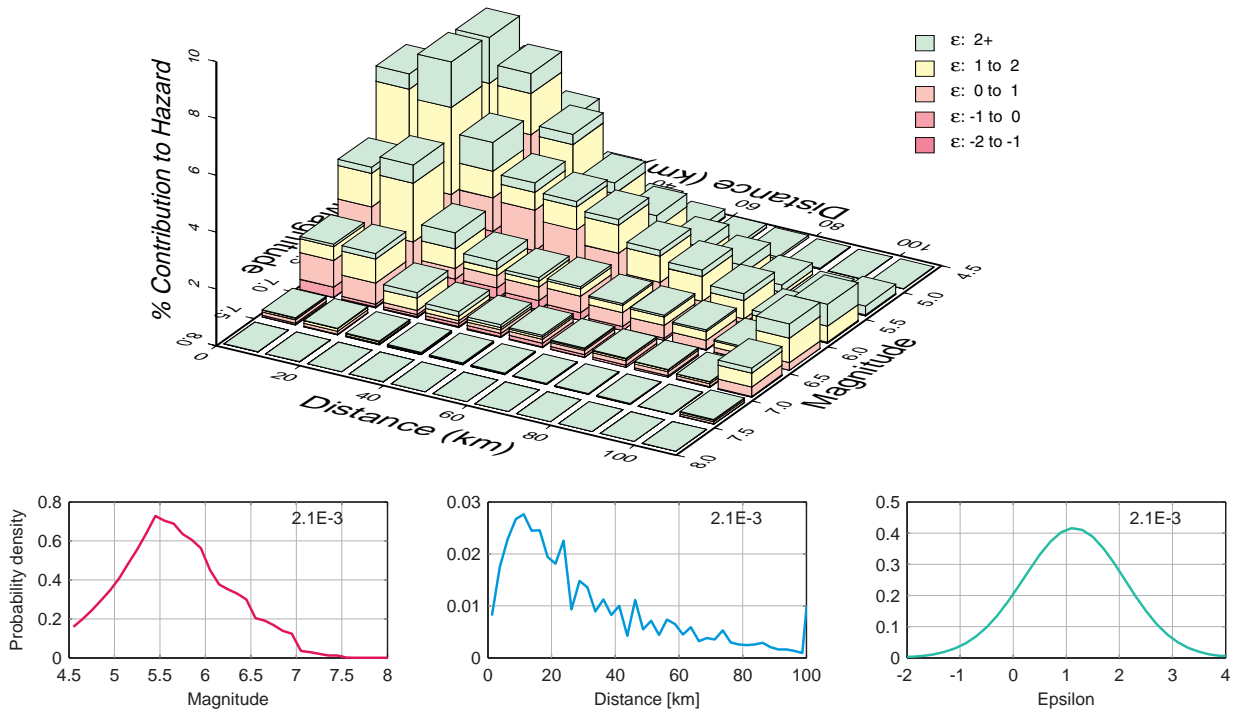


Figure 5.5.6: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 2.1E-03, 10 Hz.

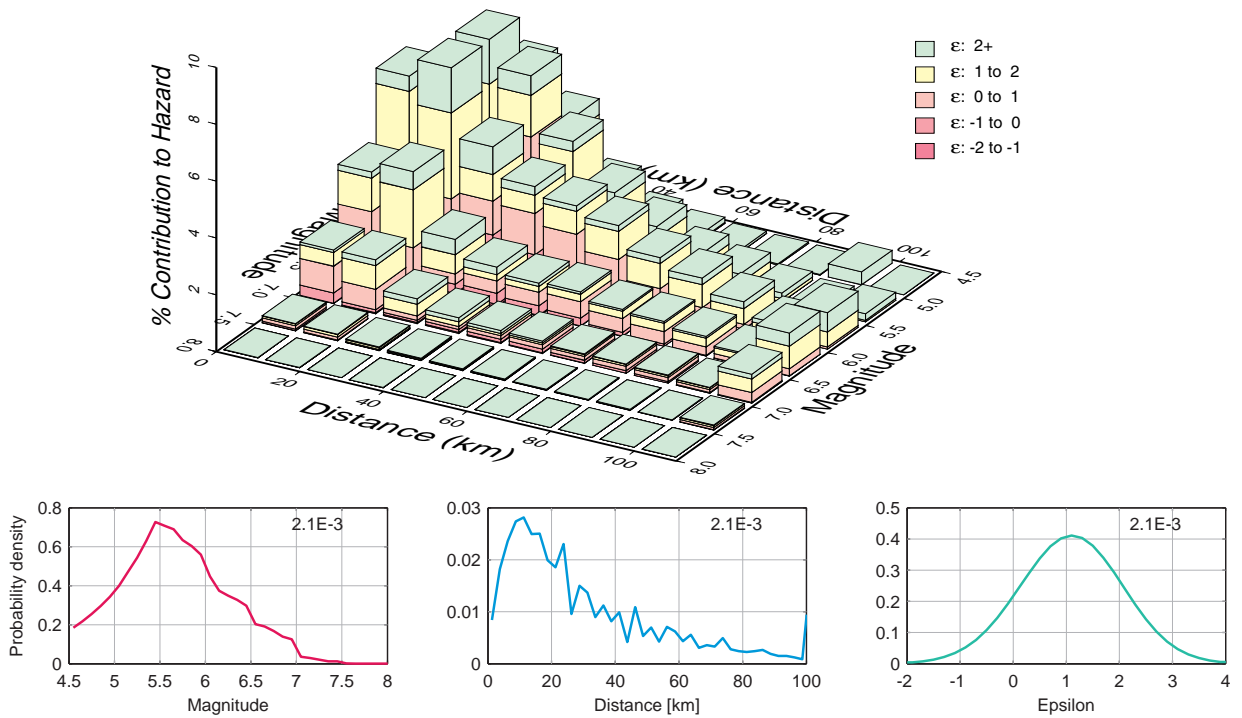


Figure 5.5.7: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 2.1E-03, 100 Hz.

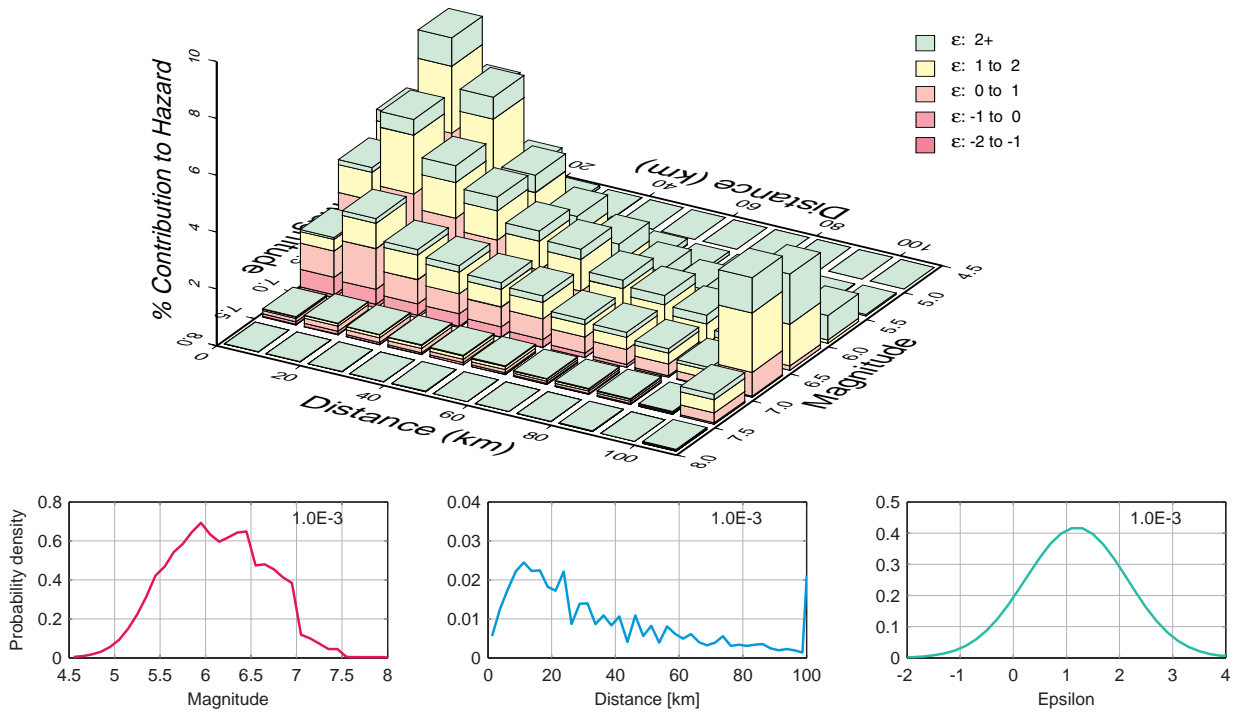


Figure 5.5.8: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-03, 1 Hz.

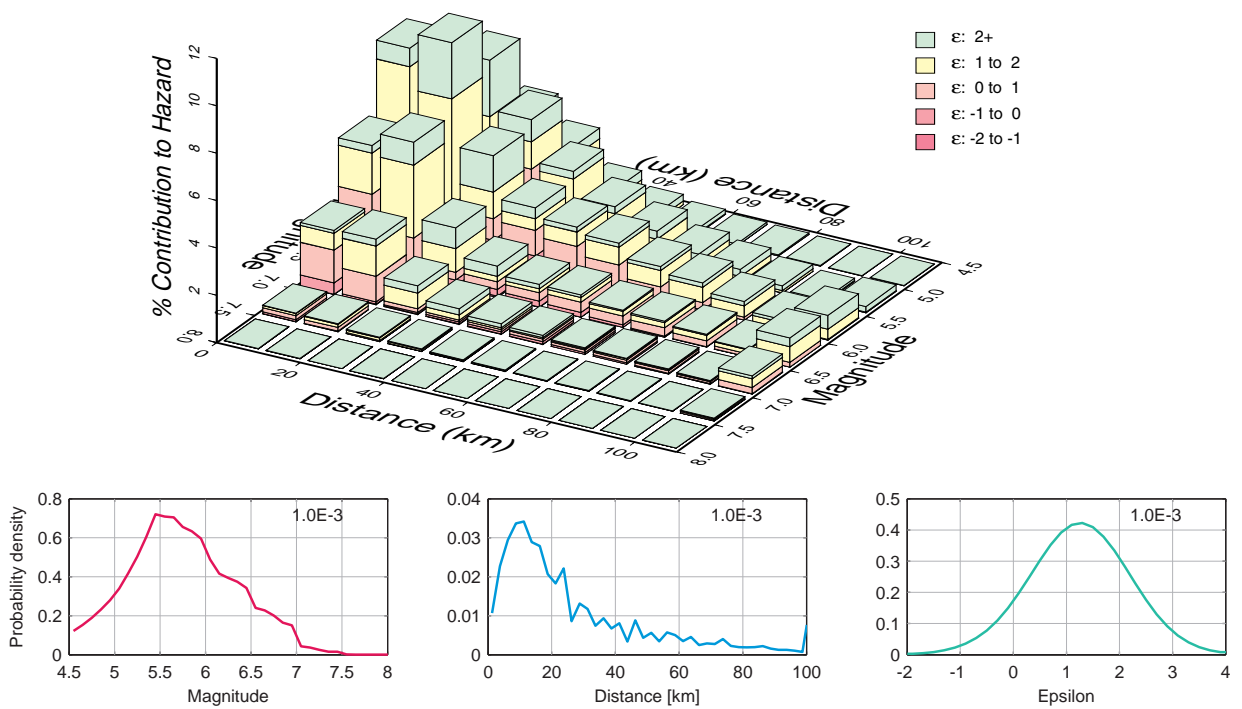


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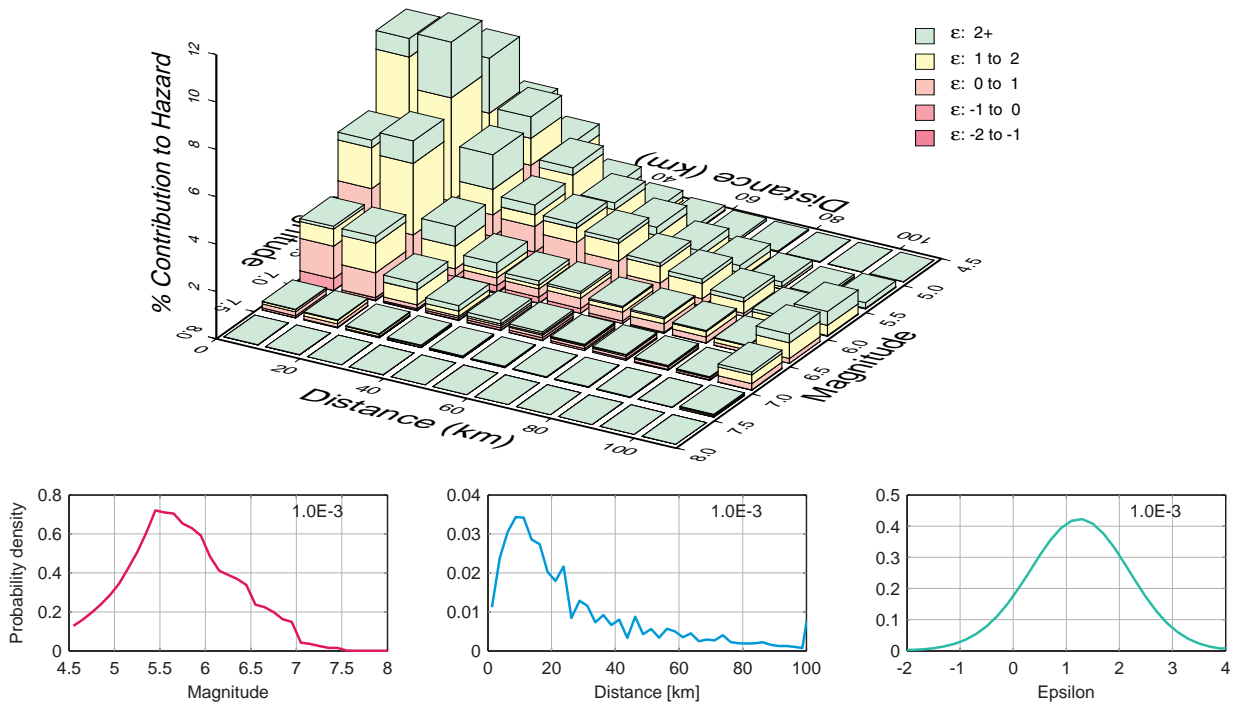


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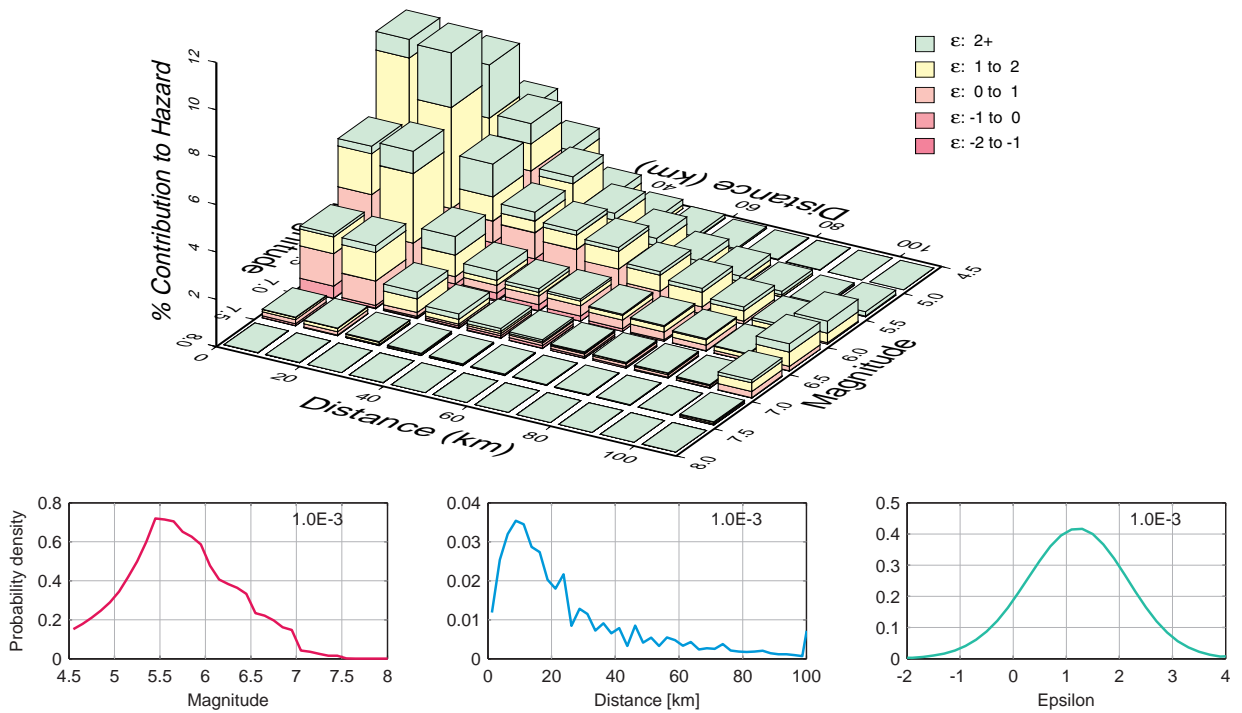


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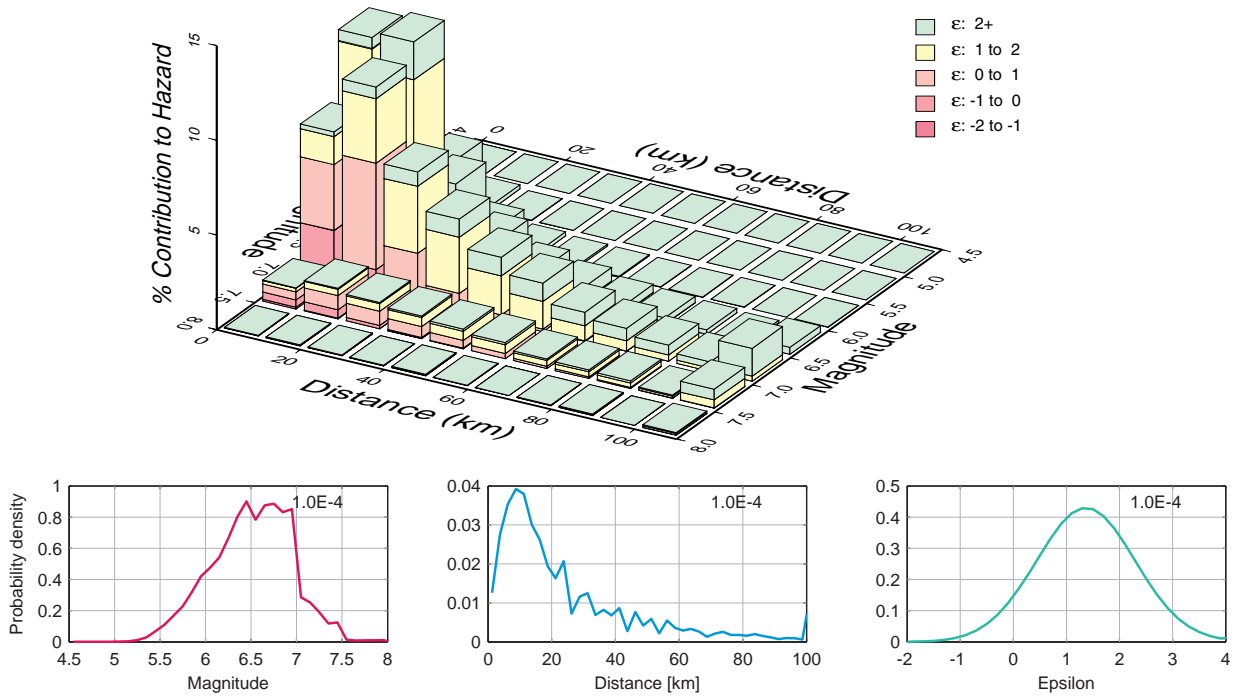


Figure 5.5.12: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-04, 0.5 Hz.

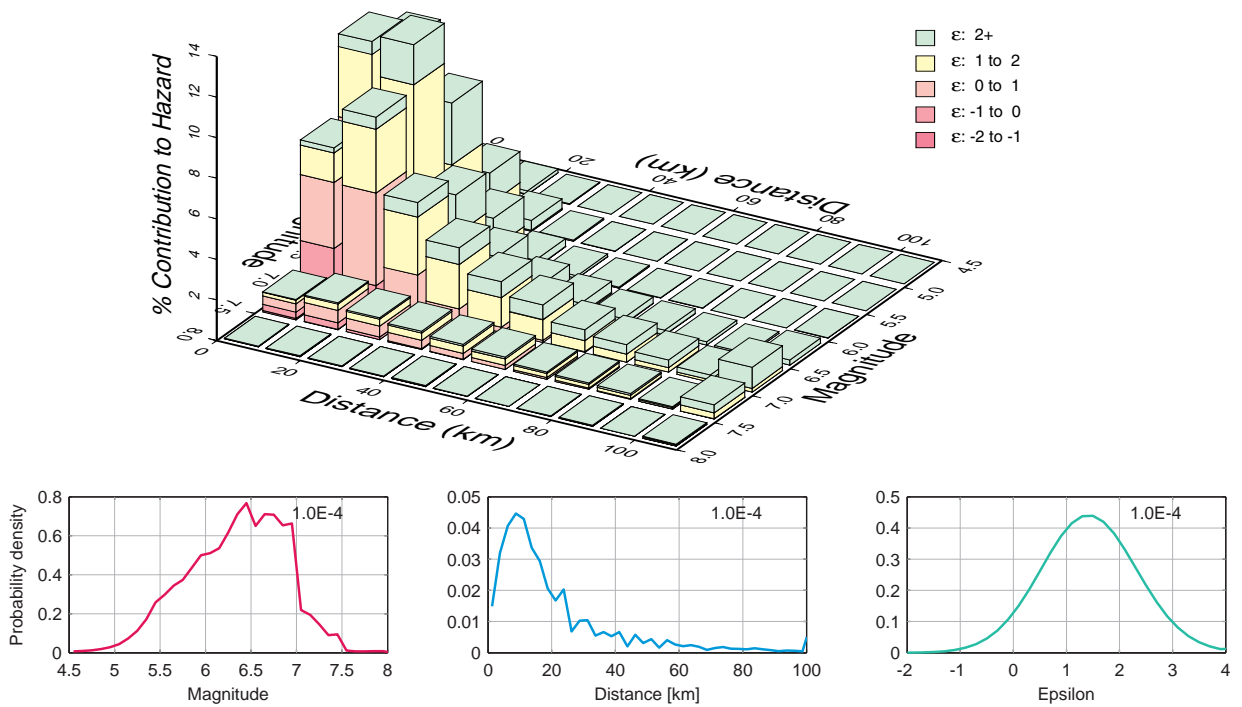


Figure 5.5.13: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-04, 1 Hz.

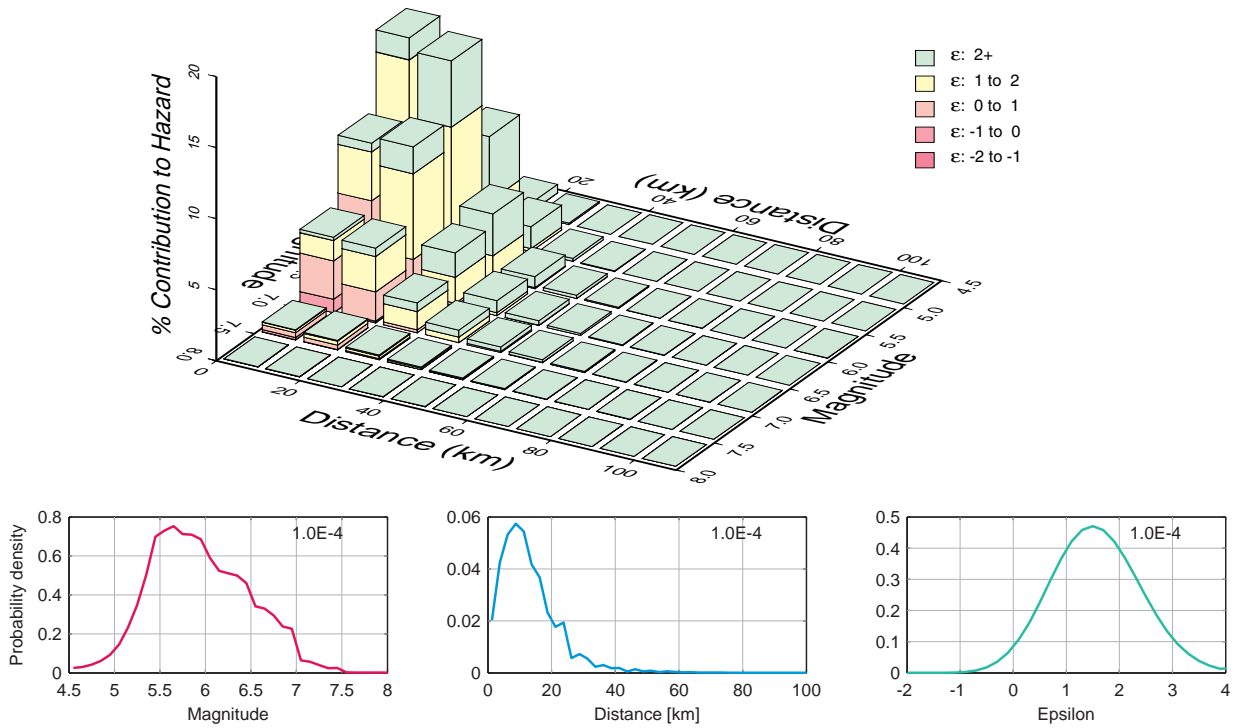


Figure 5.5.14: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-04, 5 Hz.

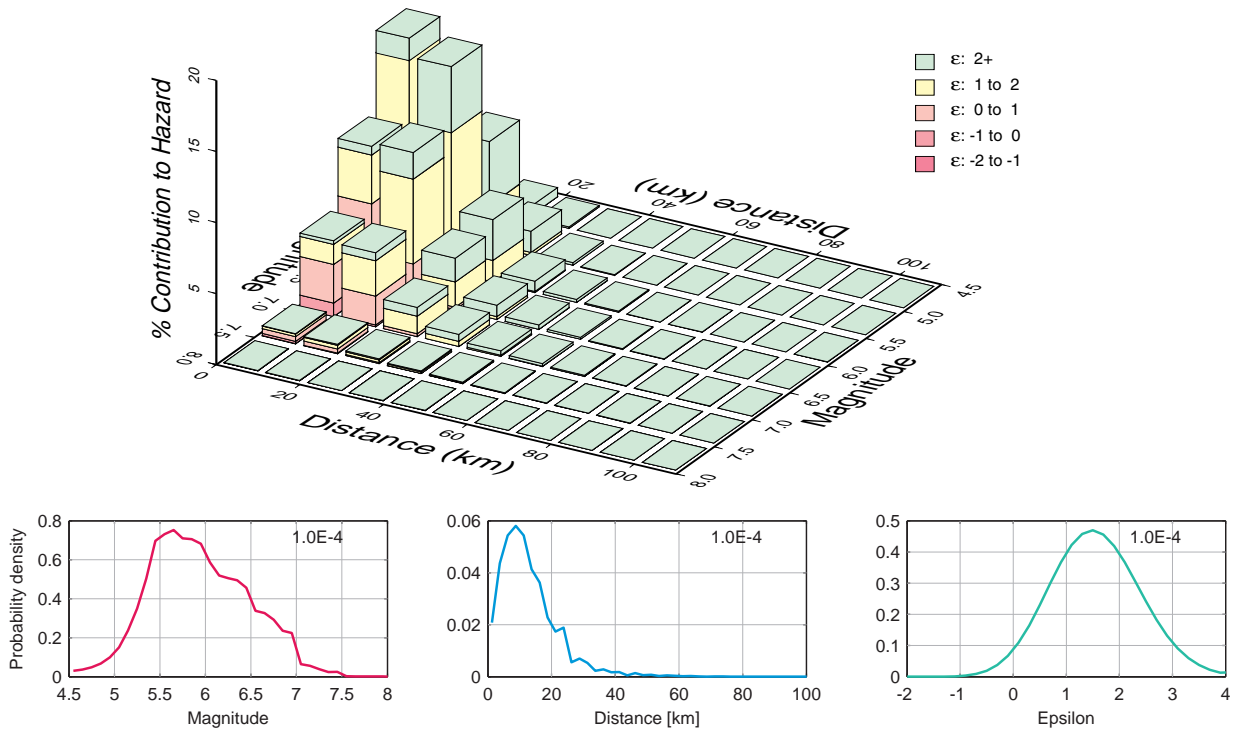


Figure 5.5.15: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-04, 10 Hz.

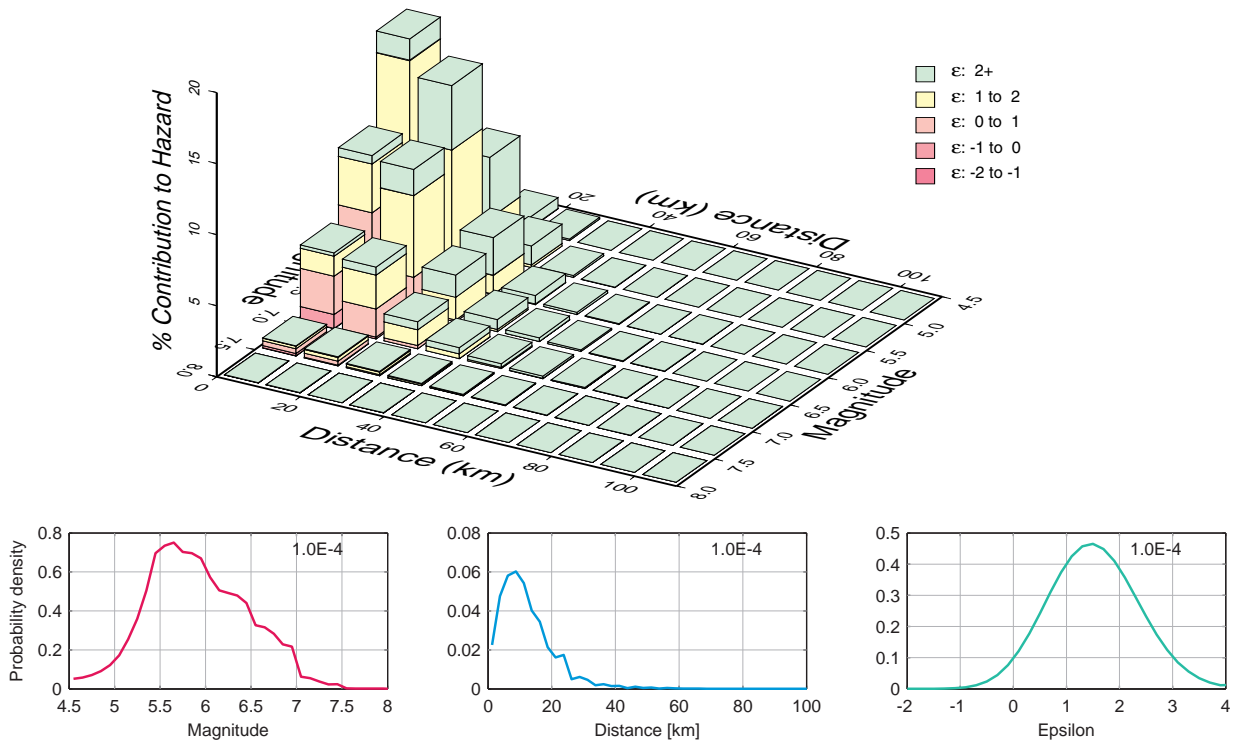


Figure 5.5.16: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-04, 100 Hz.

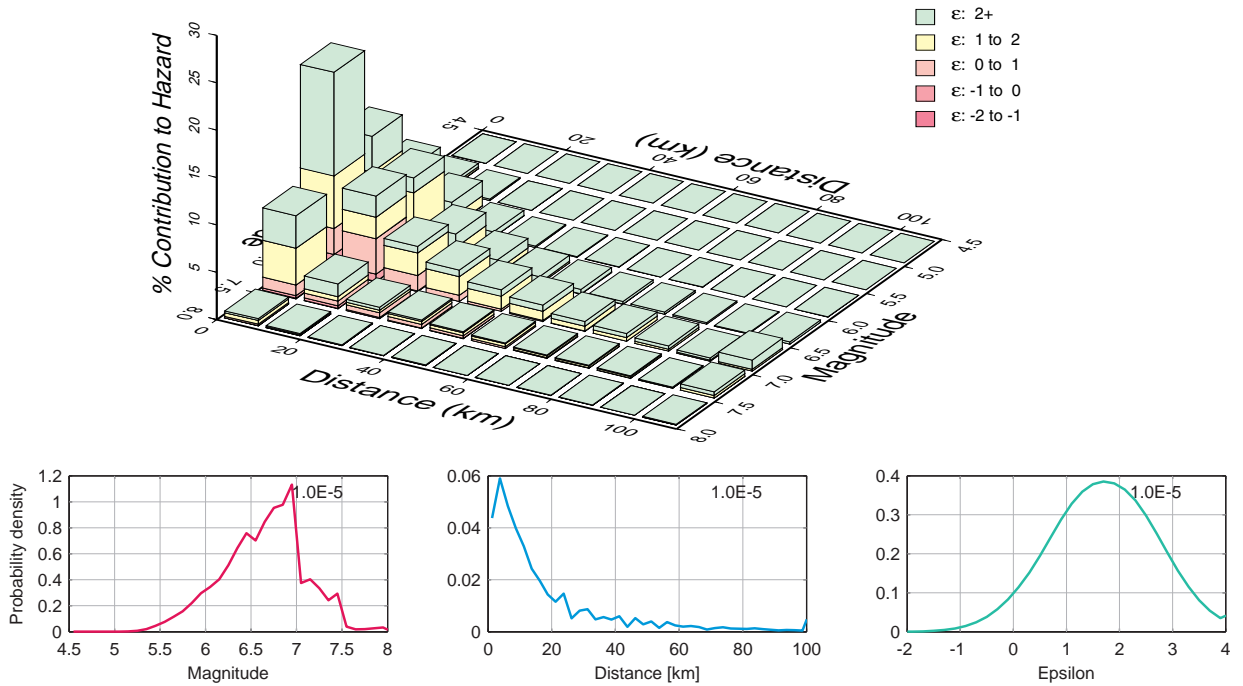


Figure 5.5.17: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-05, 0.5 Hz.

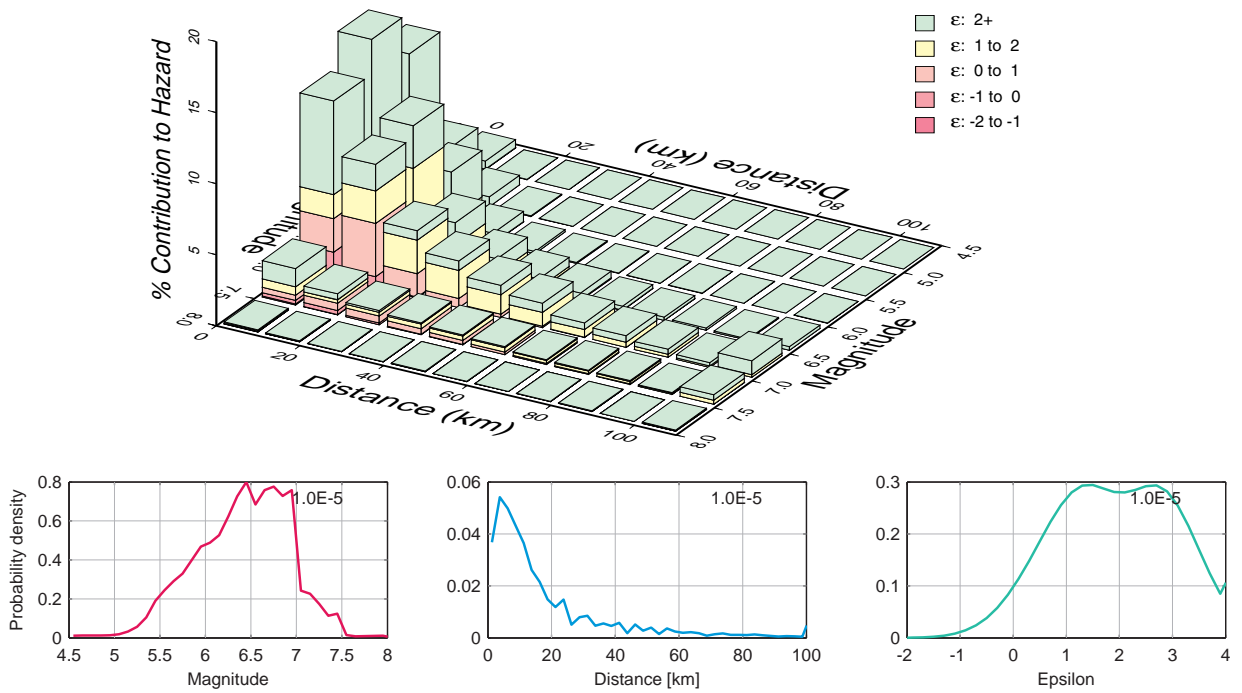


Figure 5.5.18: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-05, 1 Hz.

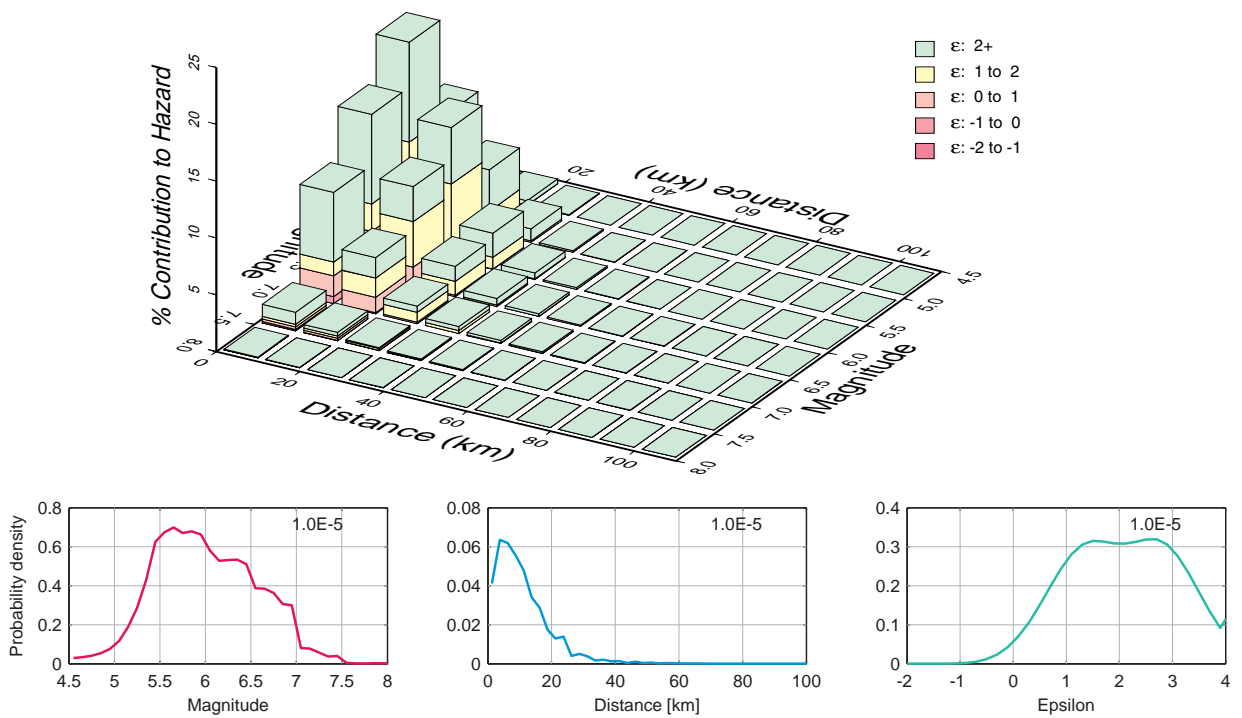


Figure 5.5.19: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-05, 5 Hz.

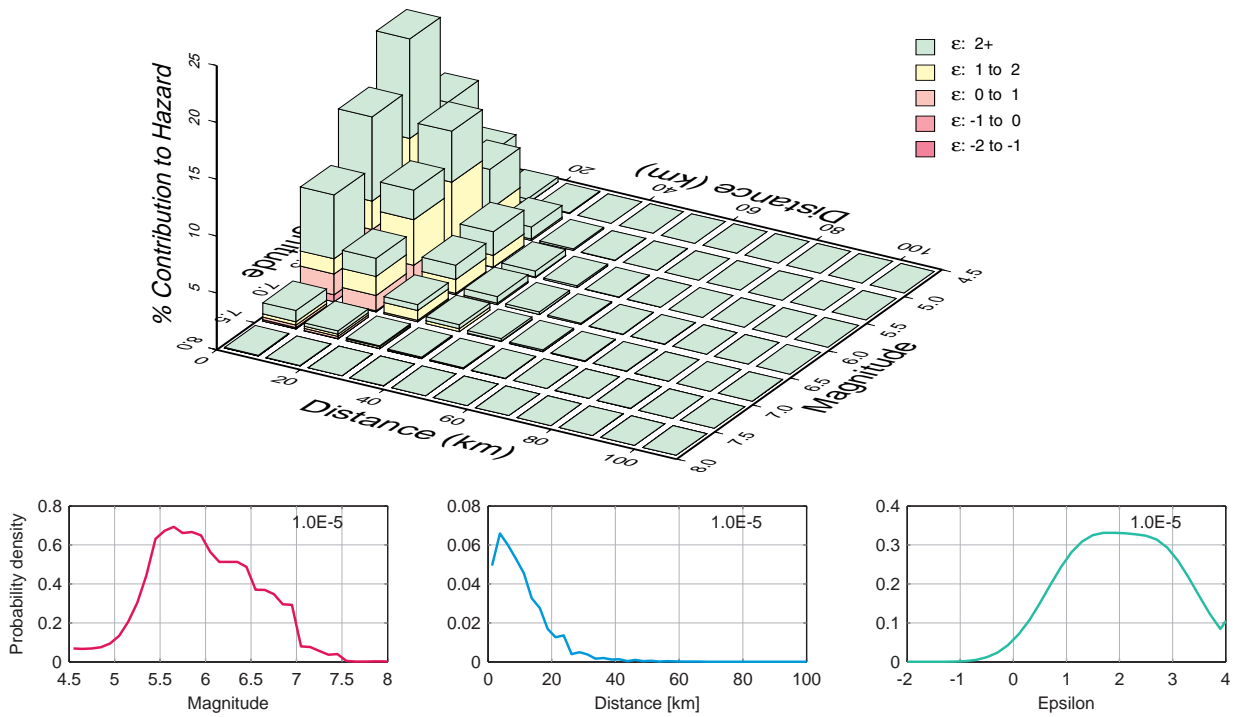


Figure 5.5.20: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-05, 10 Hz.

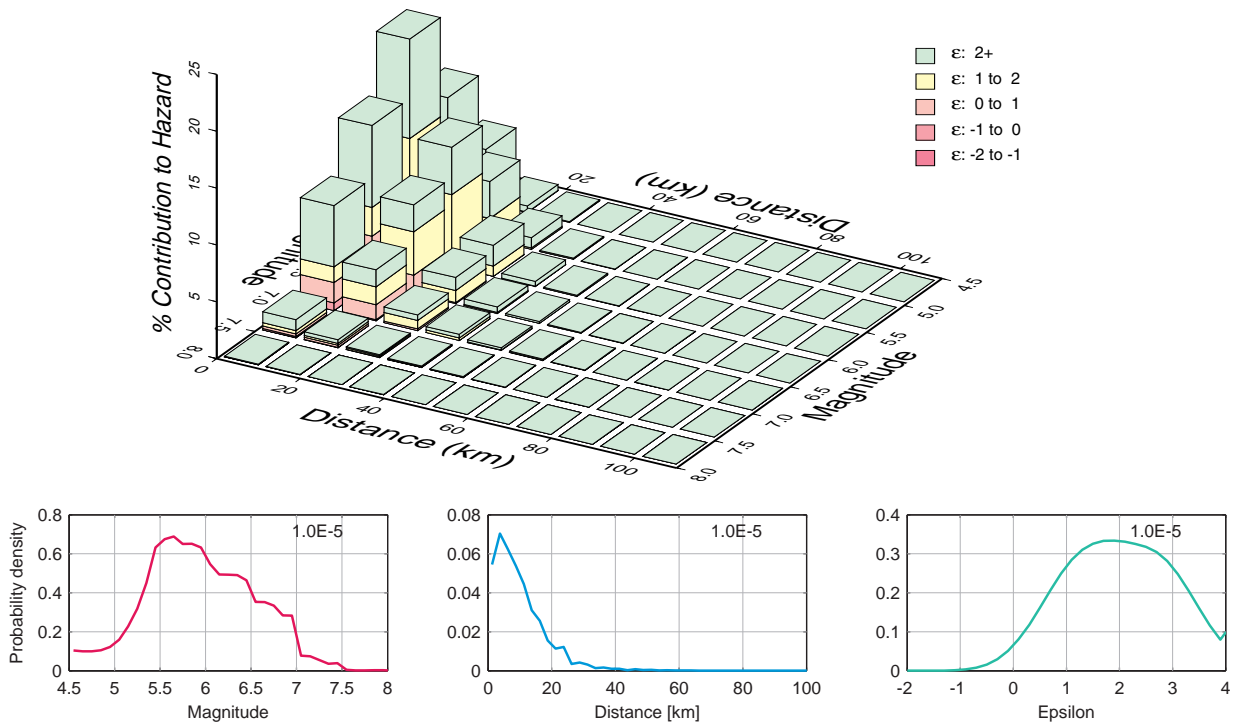


Figure 5.5.21: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-05, 100 Hz.

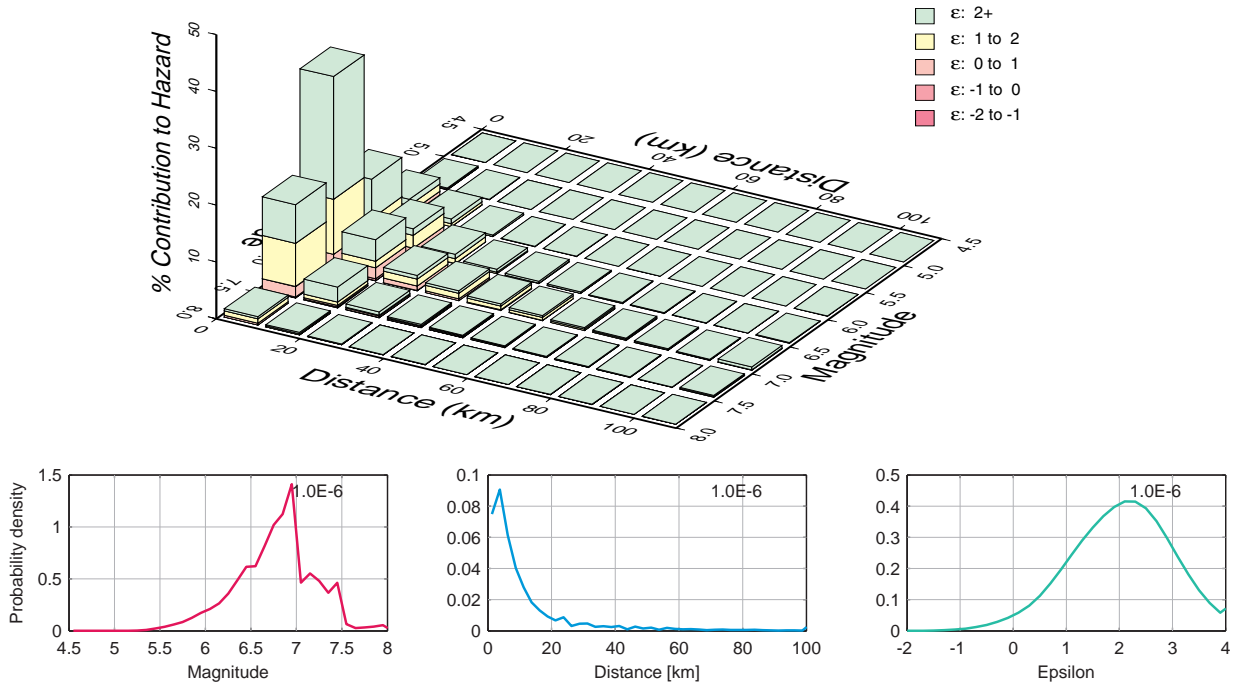


Figure 5.5.22: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-06, 0.5 Hz.

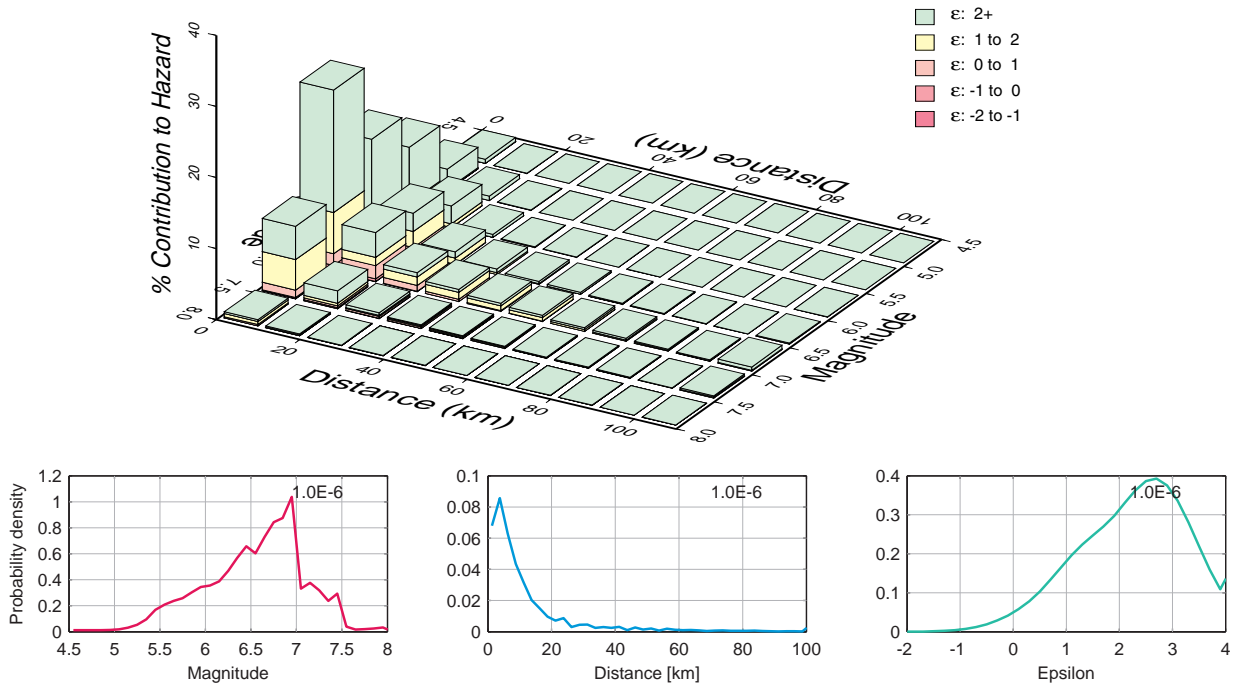


Figure 5.5.23: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-06, 1 Hz.

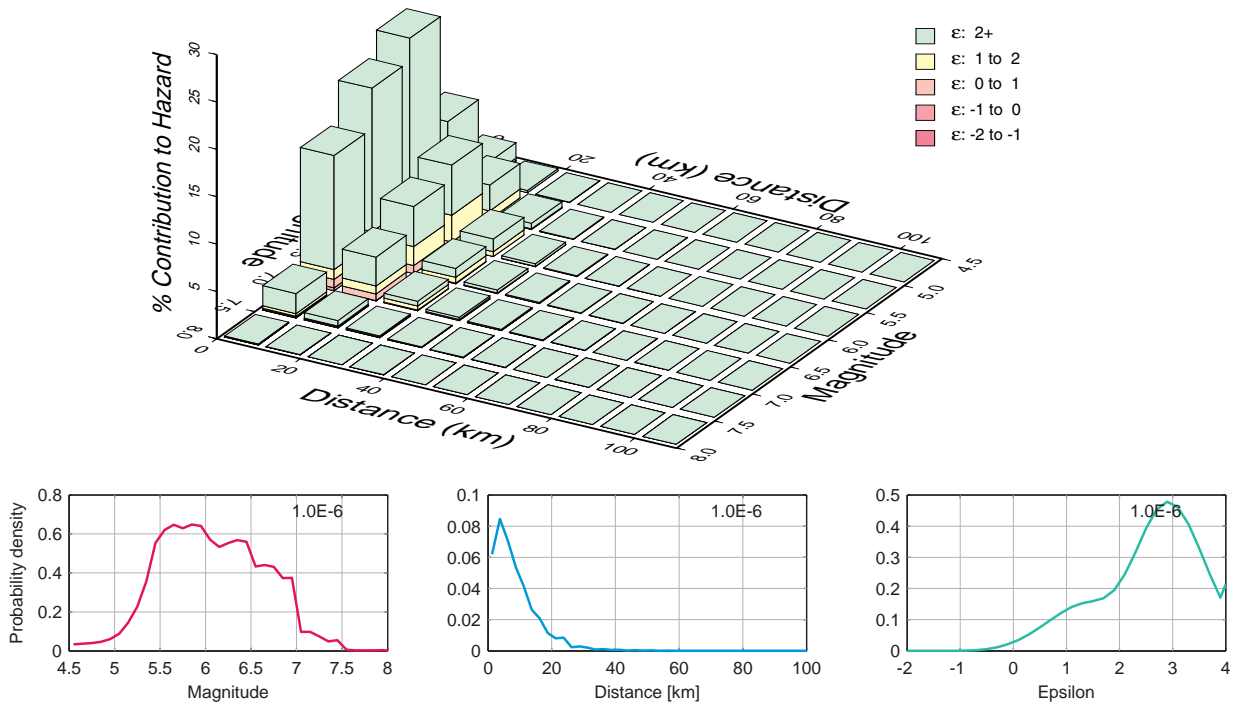


Figure 5.5.24: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-06, 5 Hz.

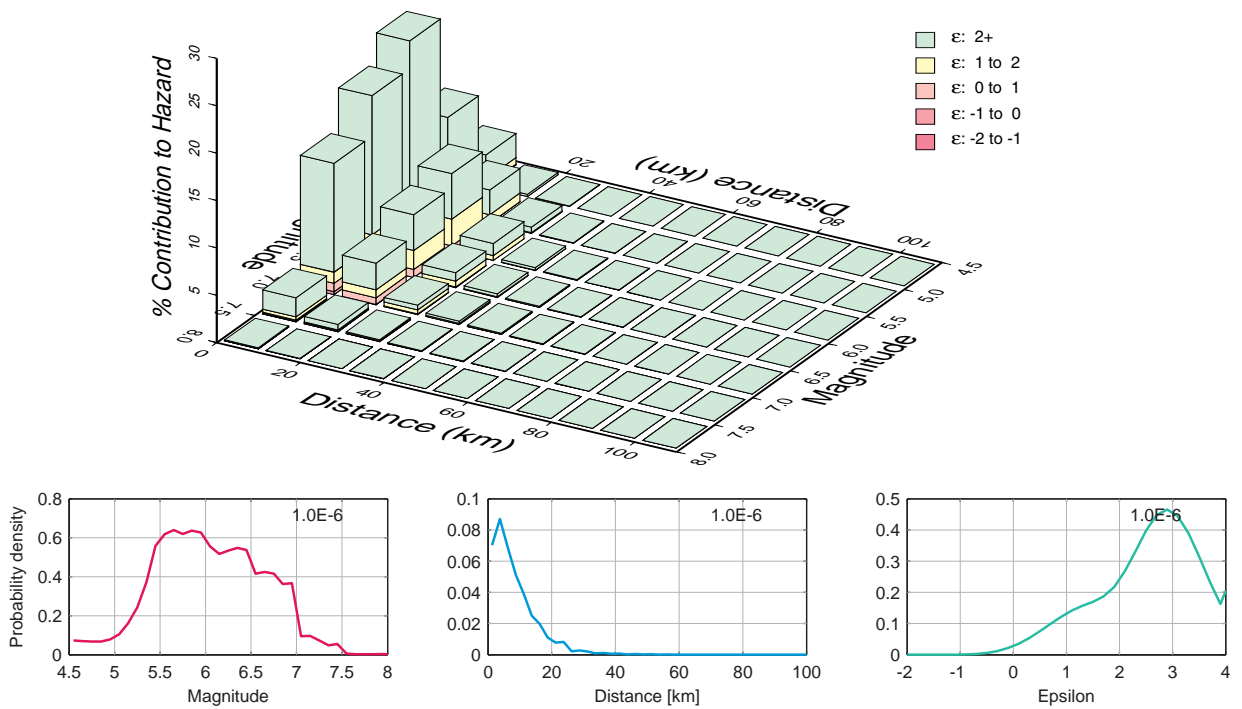


Figure 5.5.25: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-06, 10 Hz.

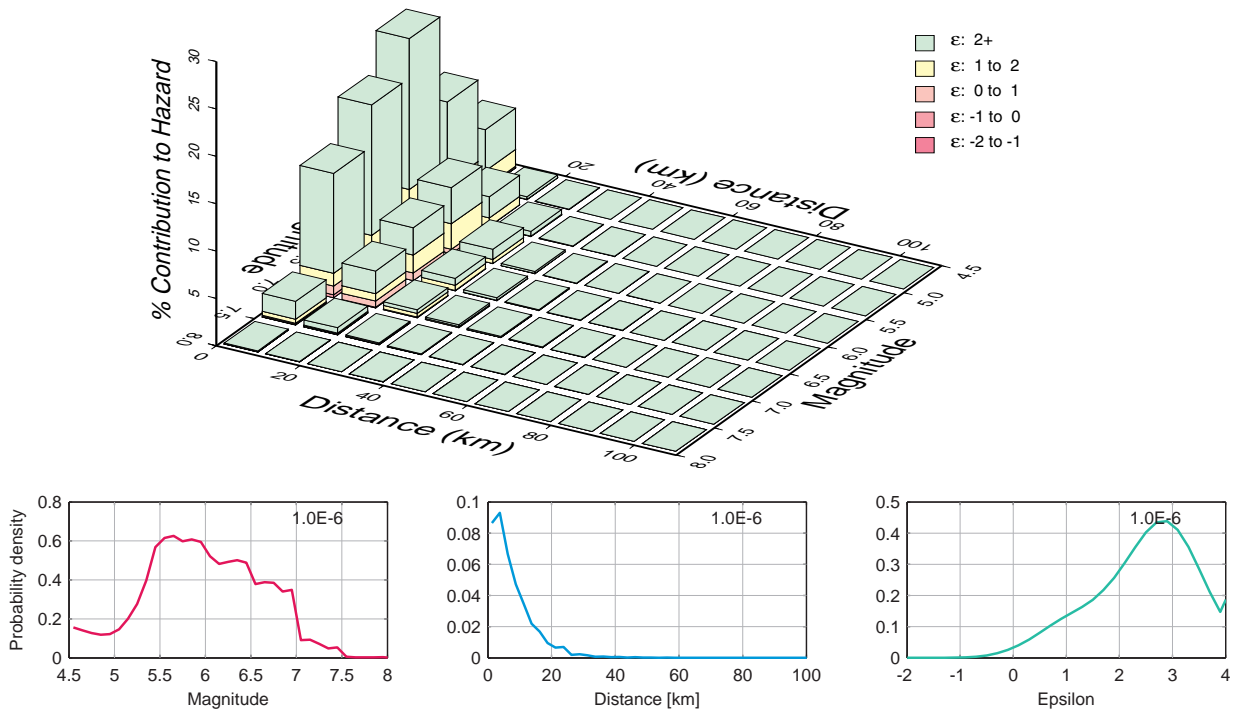


Figure 5.5.26: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-06, 100 Hz.

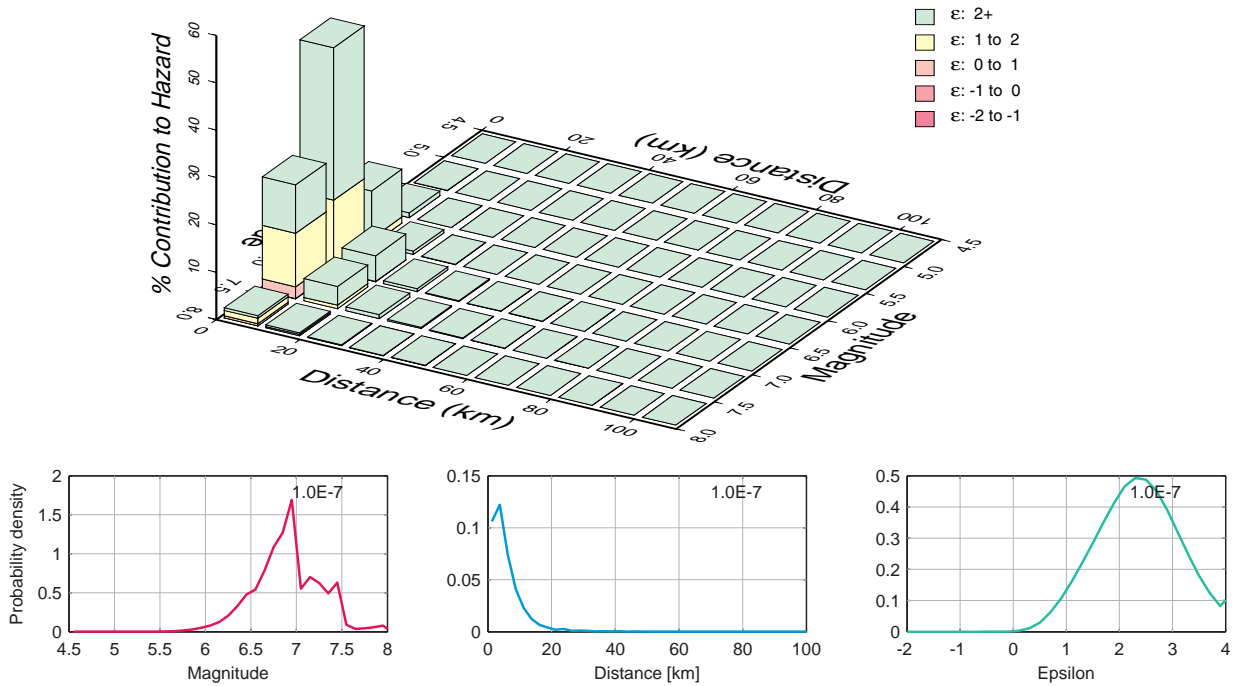


Figure 5.5.27: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-07, 0.5 Hz.

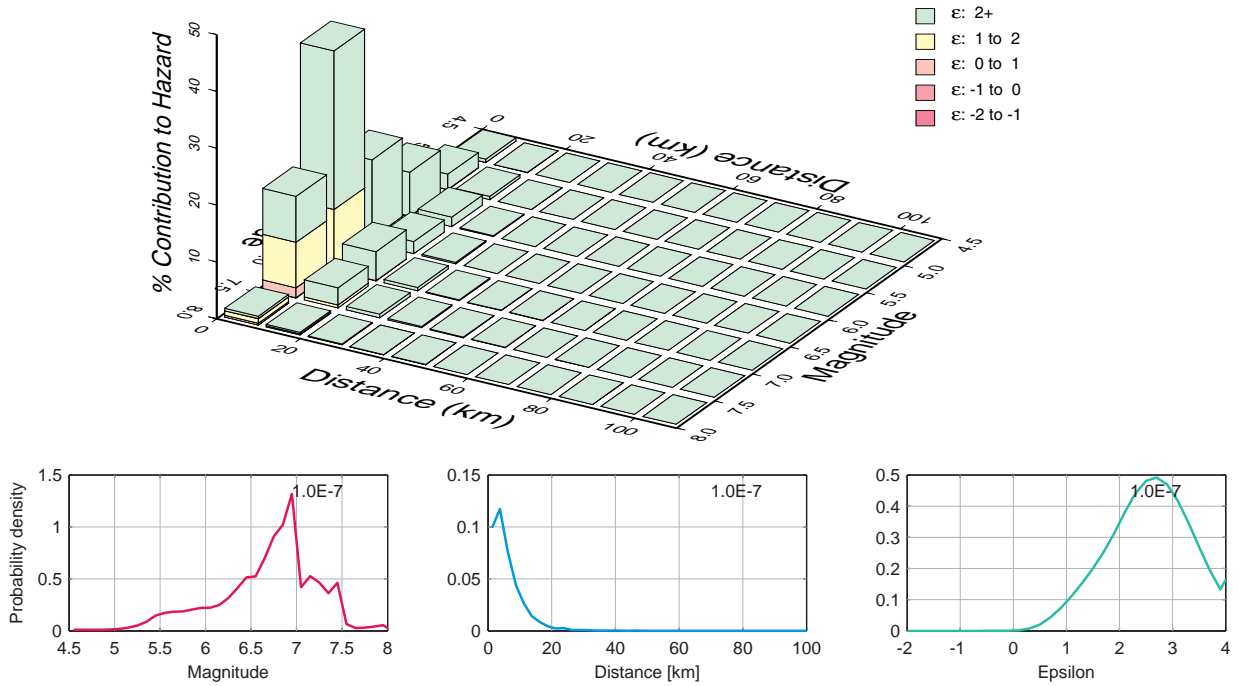


Figure 5.5.28: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-07, 1 Hz.

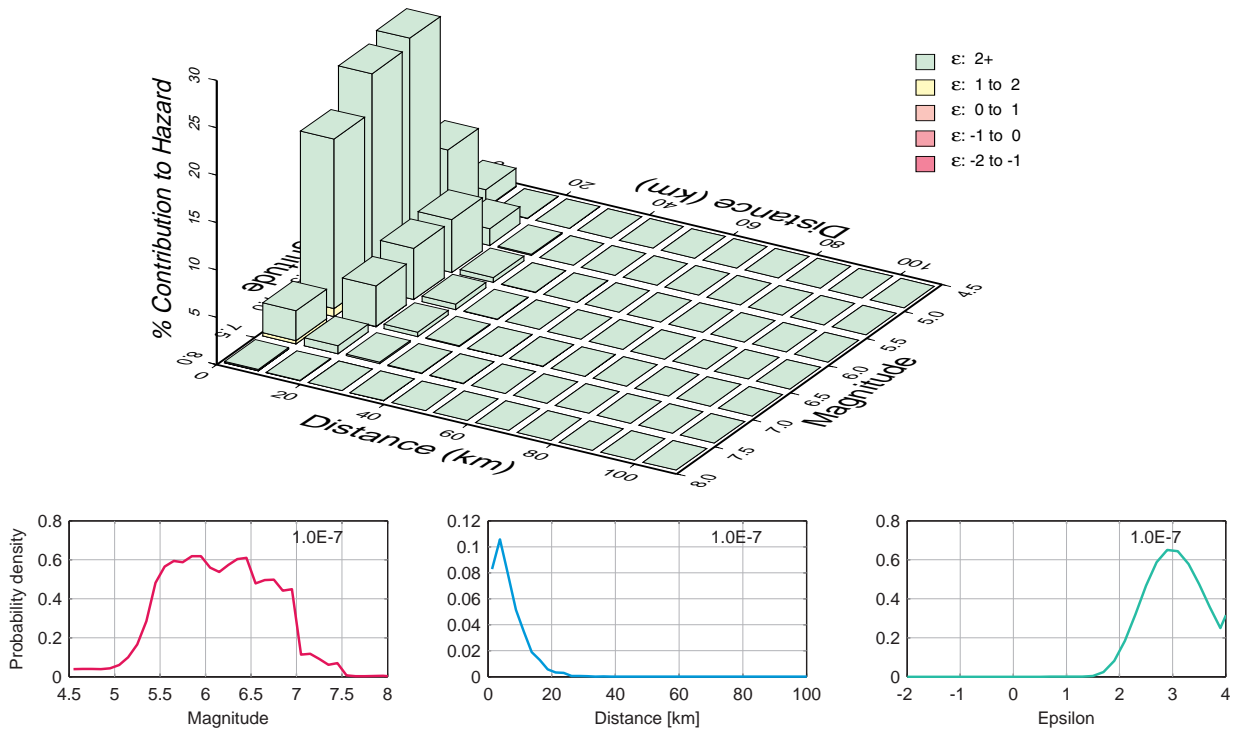


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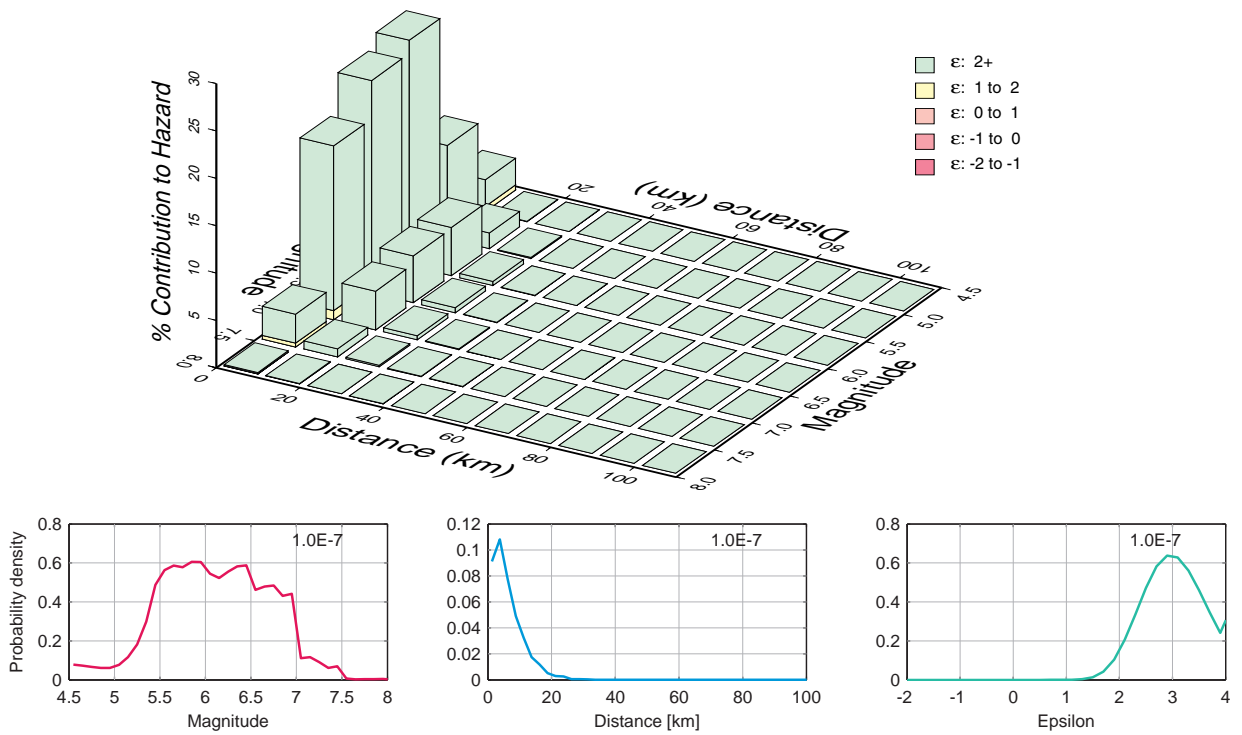


Figure 5.5.30: Mühleberg, horizontal component, rock, hazard deaggregation by magnitude, distance and epsilon for annual hazard level 1.0E-07, 10 Hz.

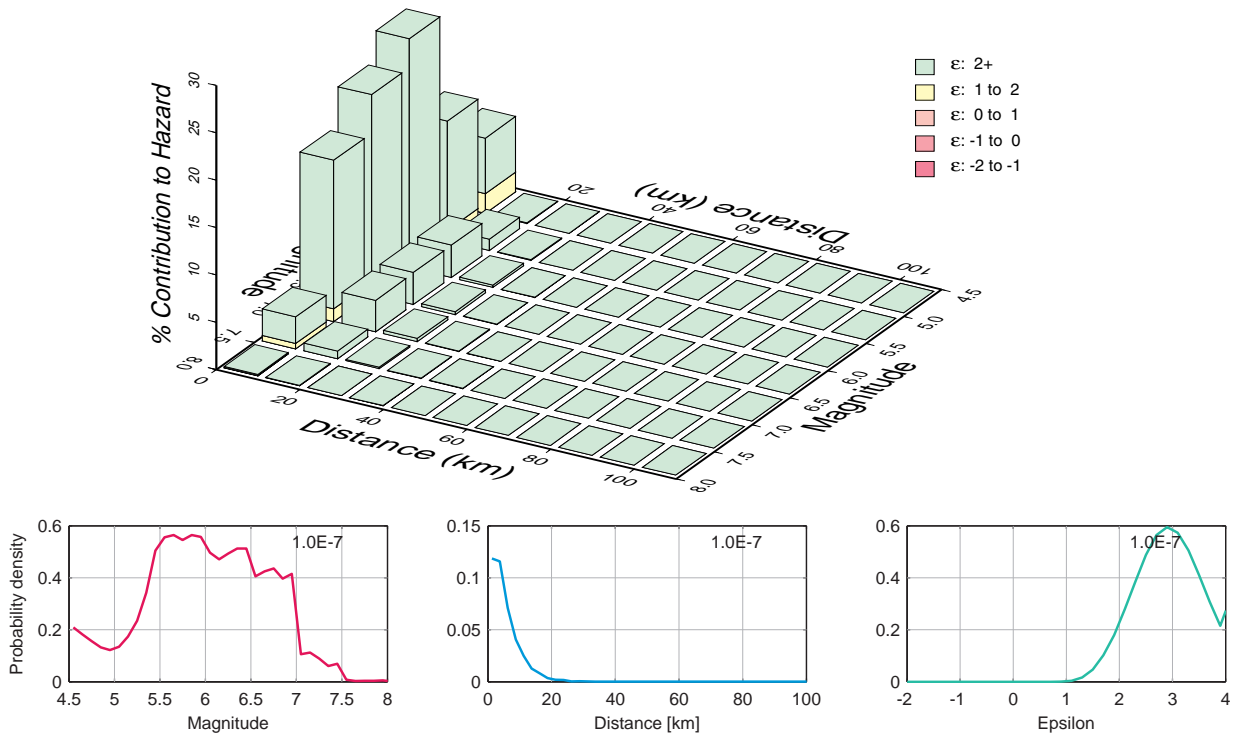


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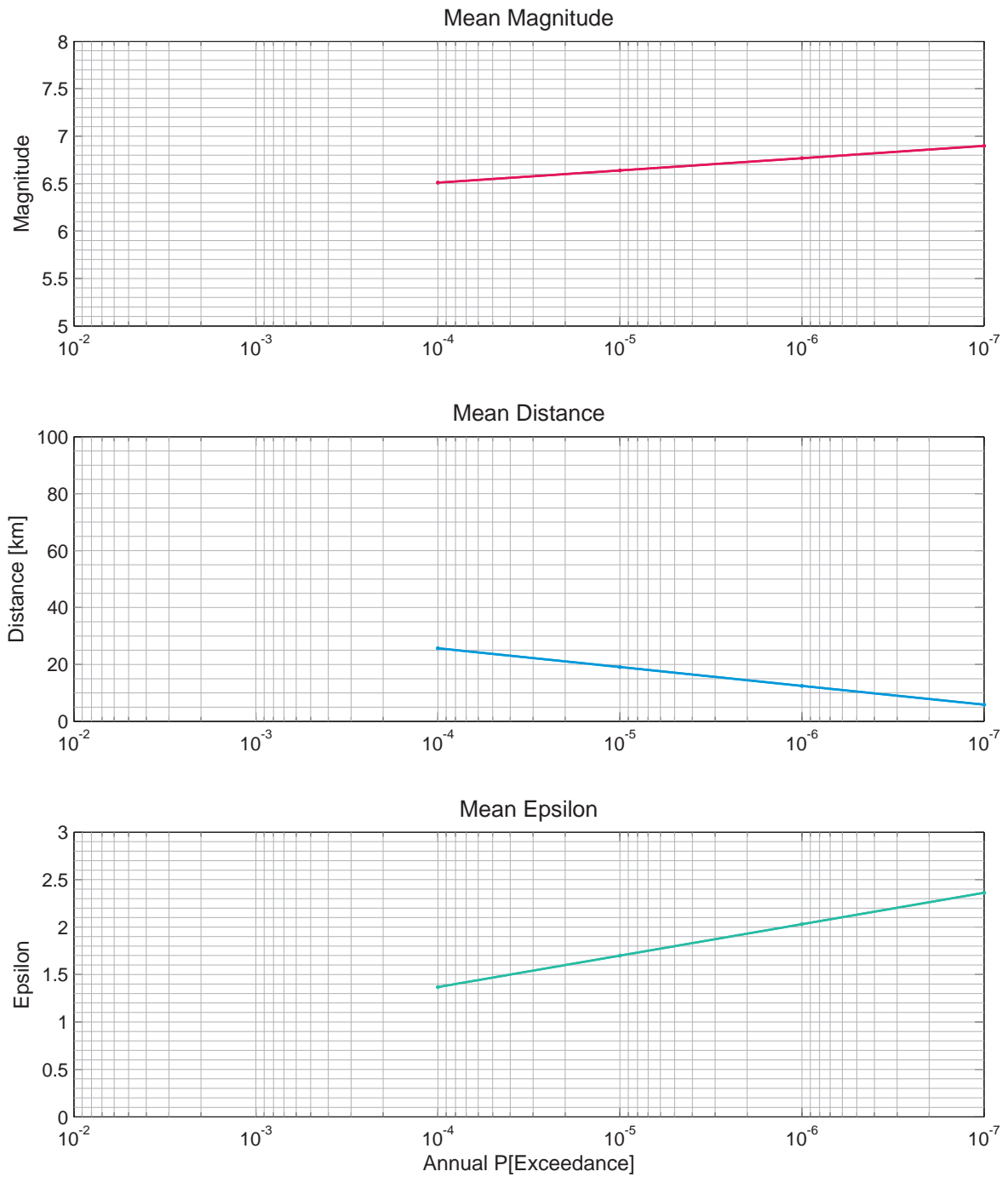


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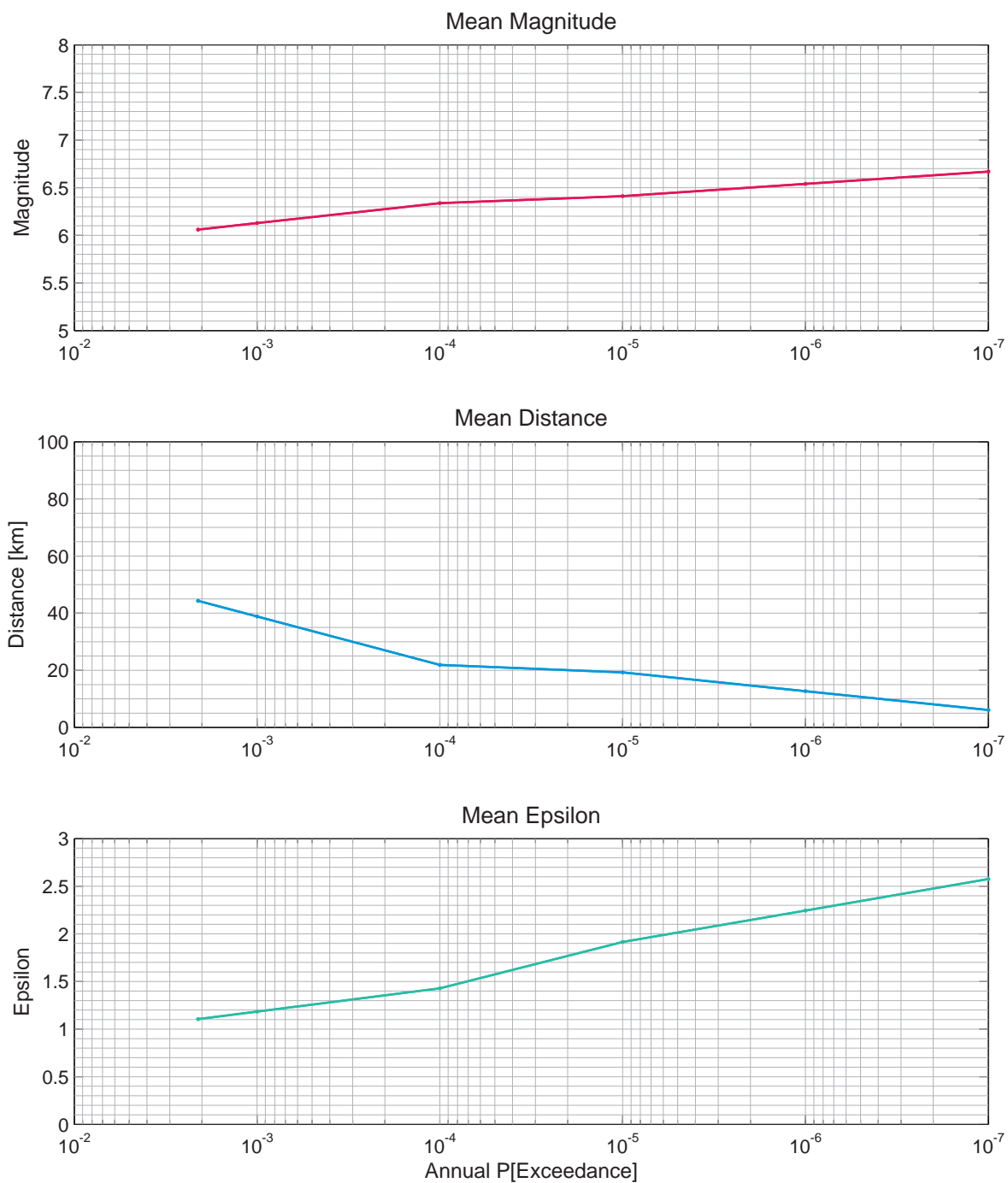


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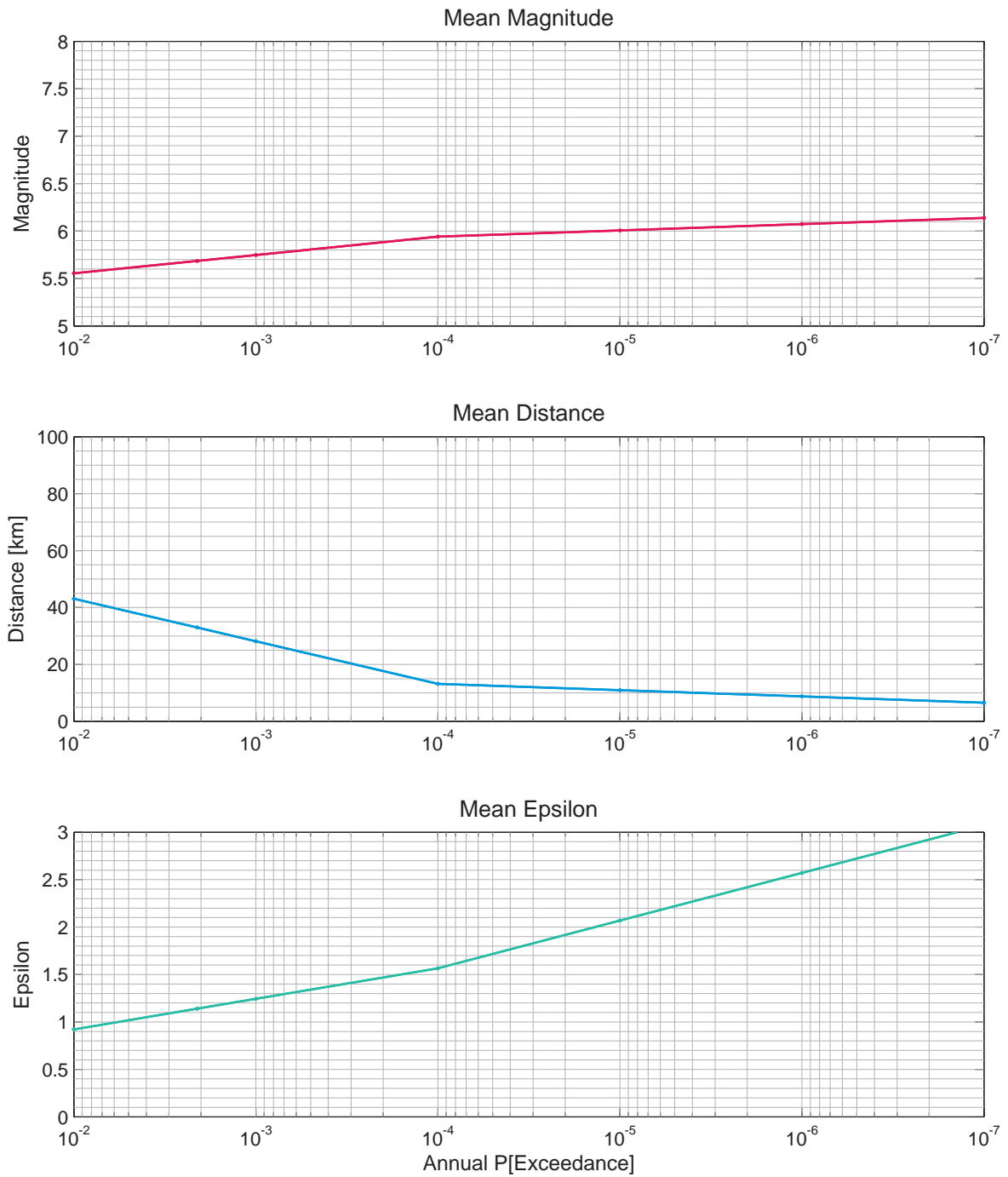


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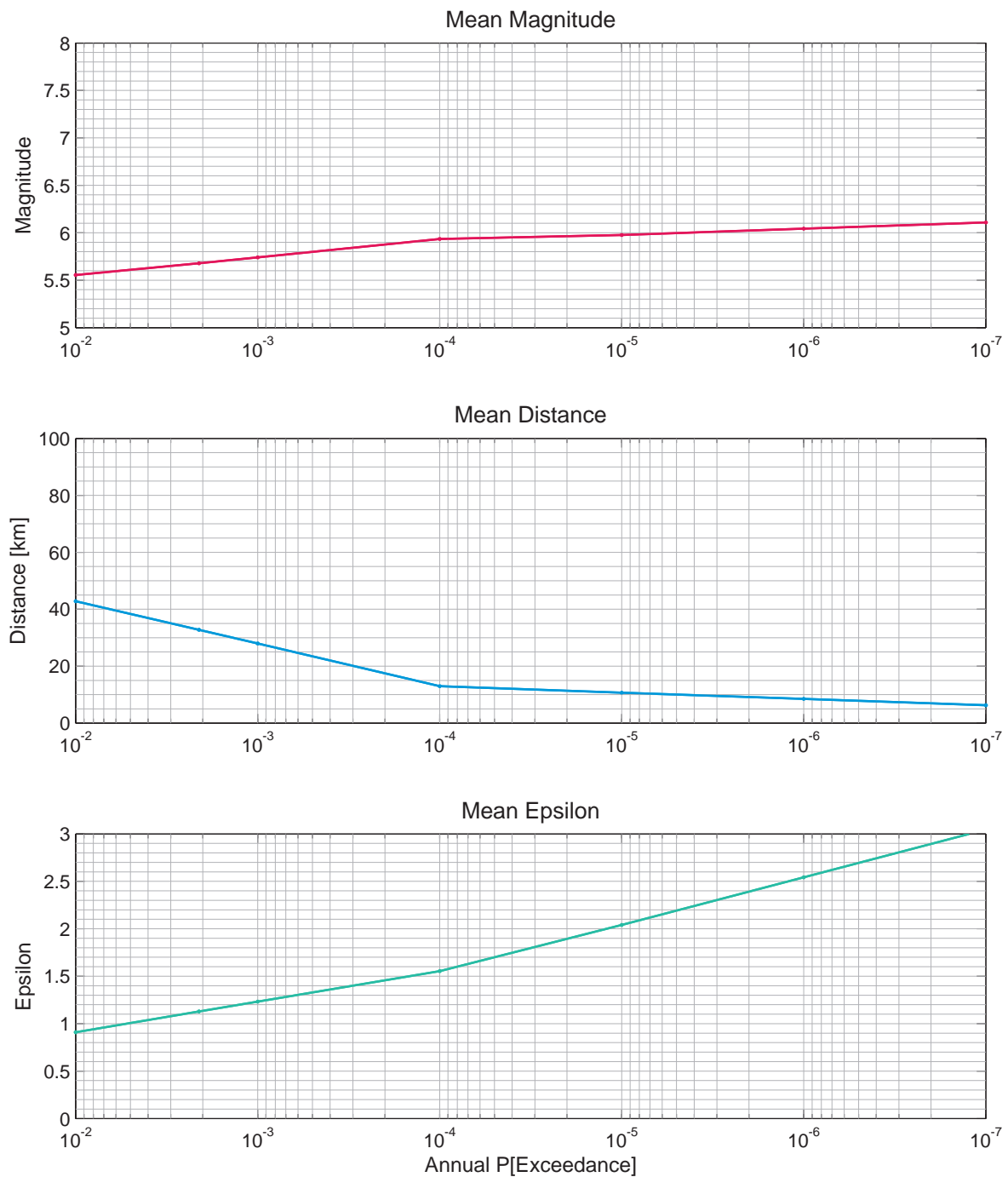


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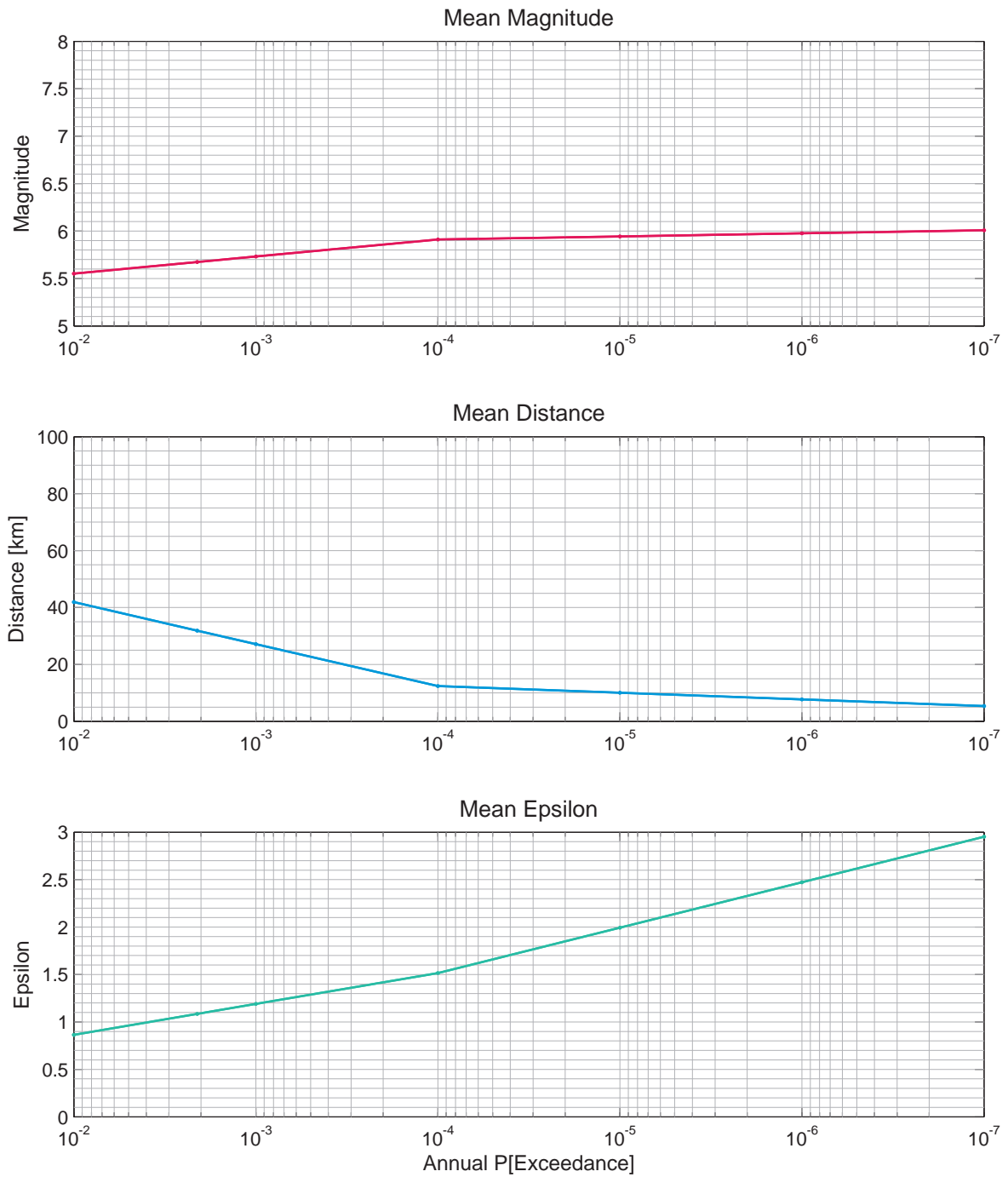


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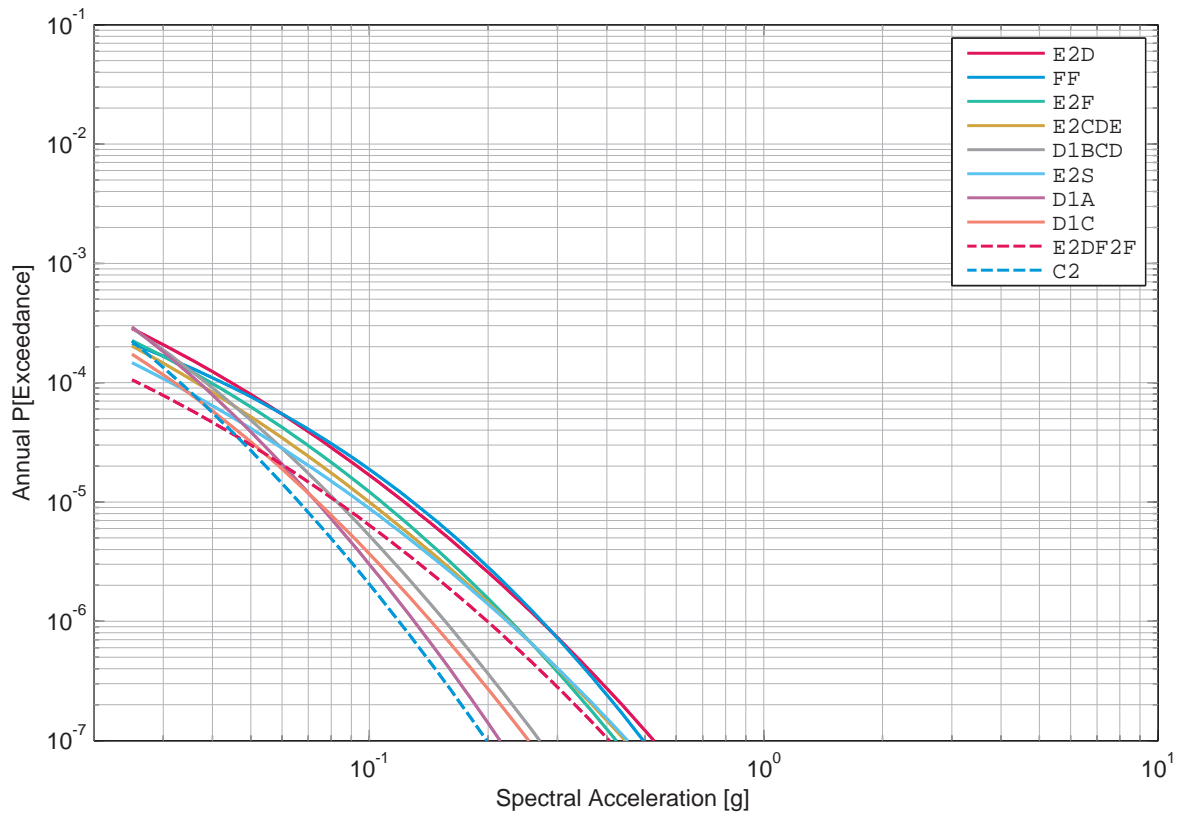


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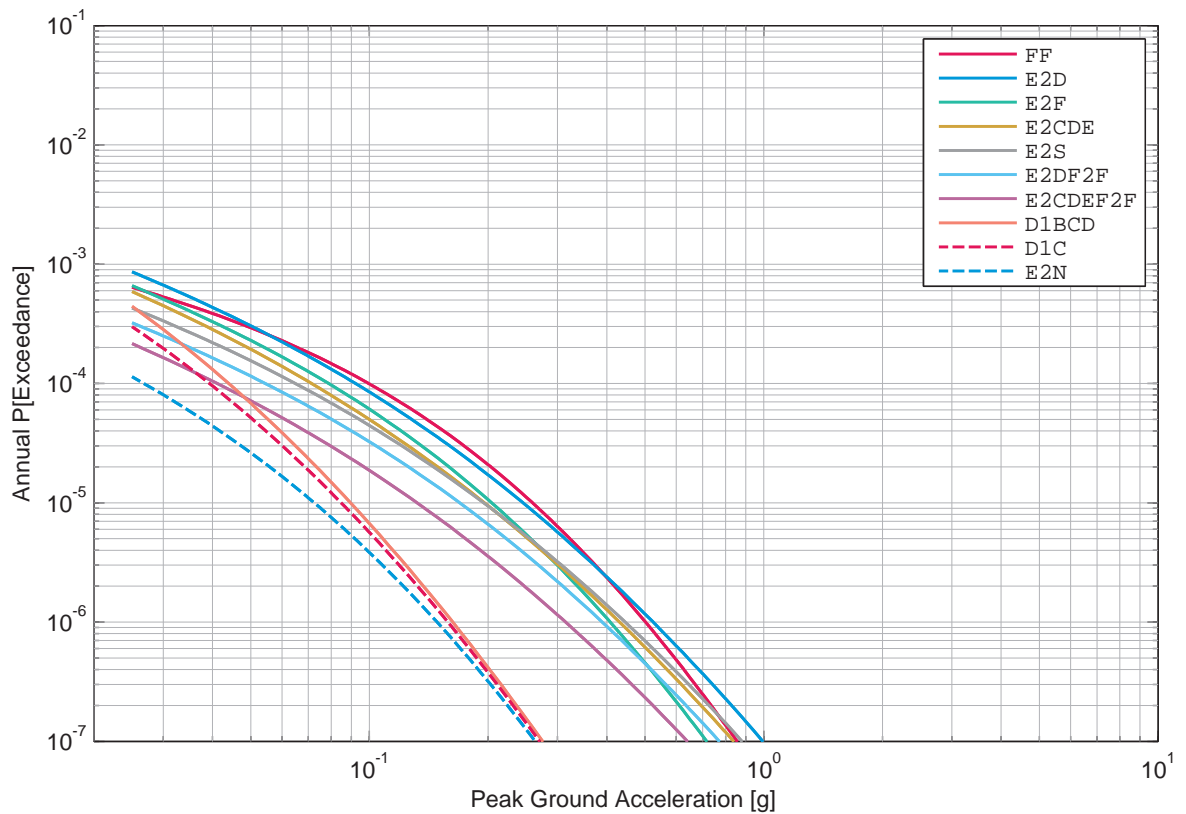


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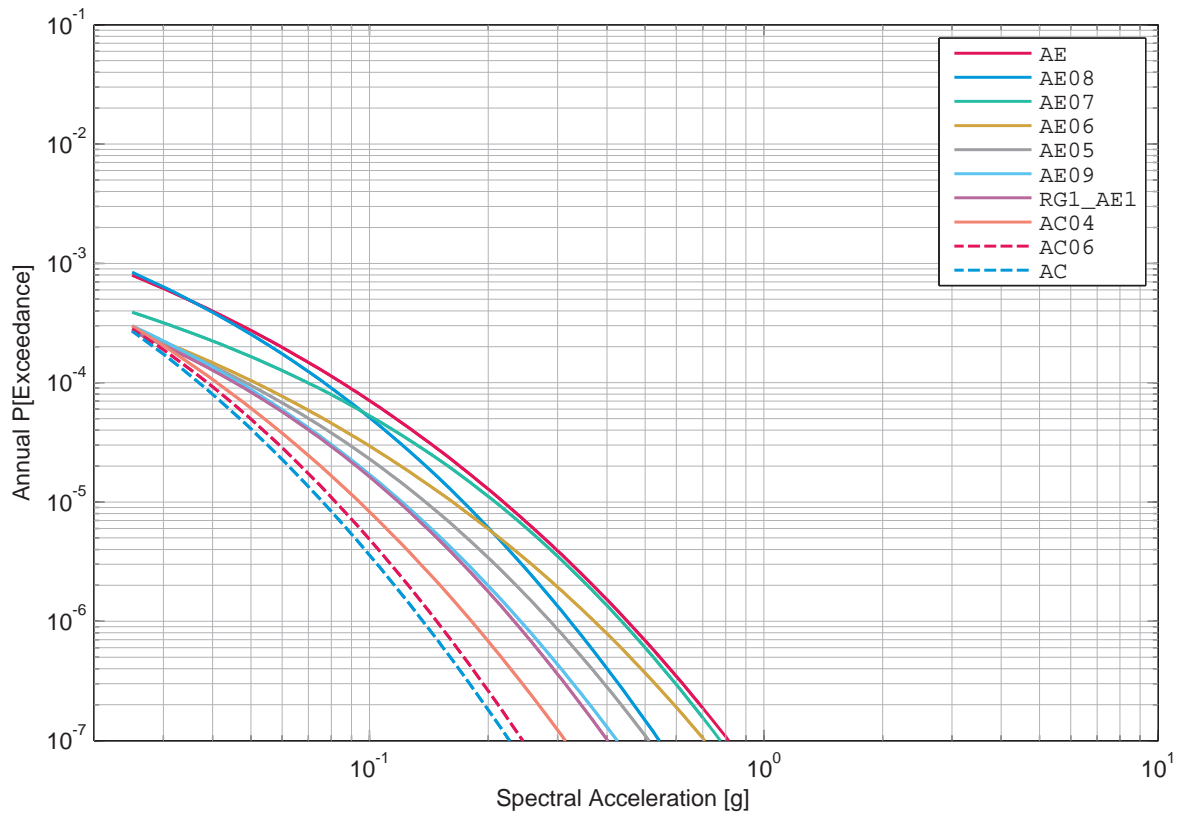


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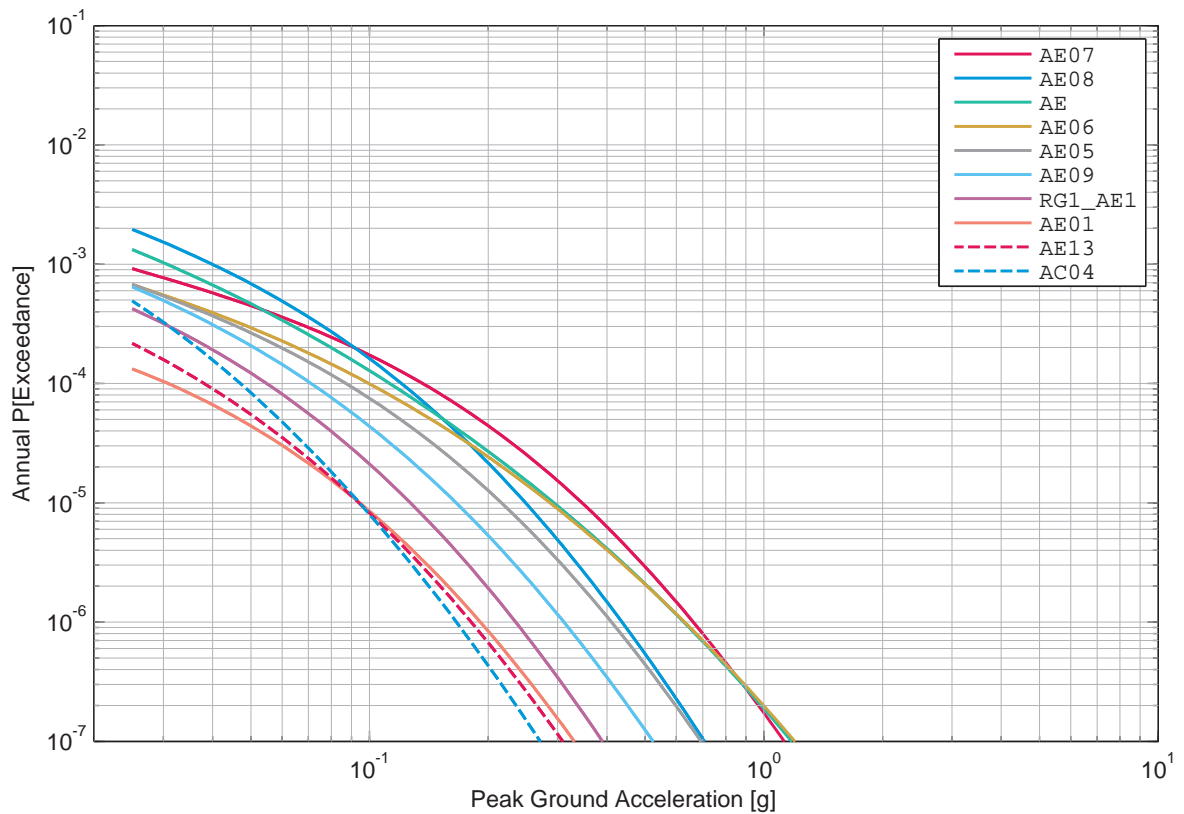


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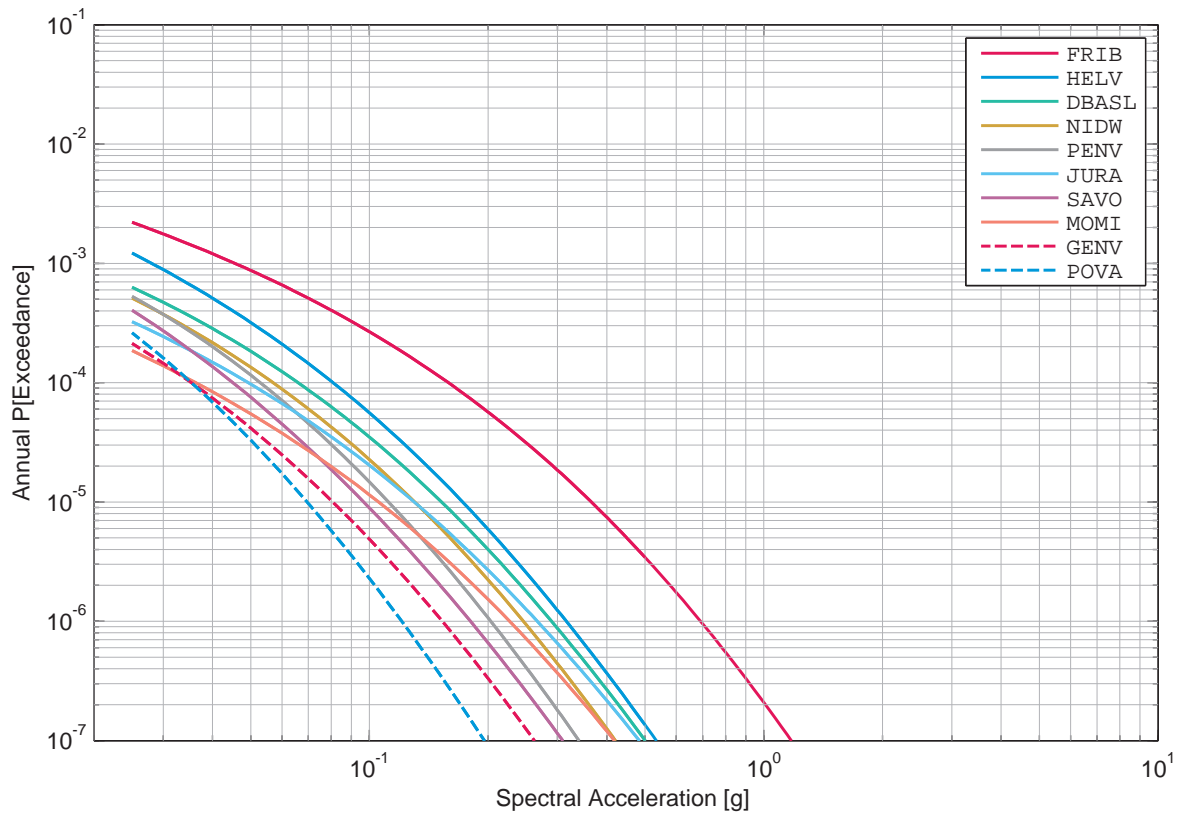


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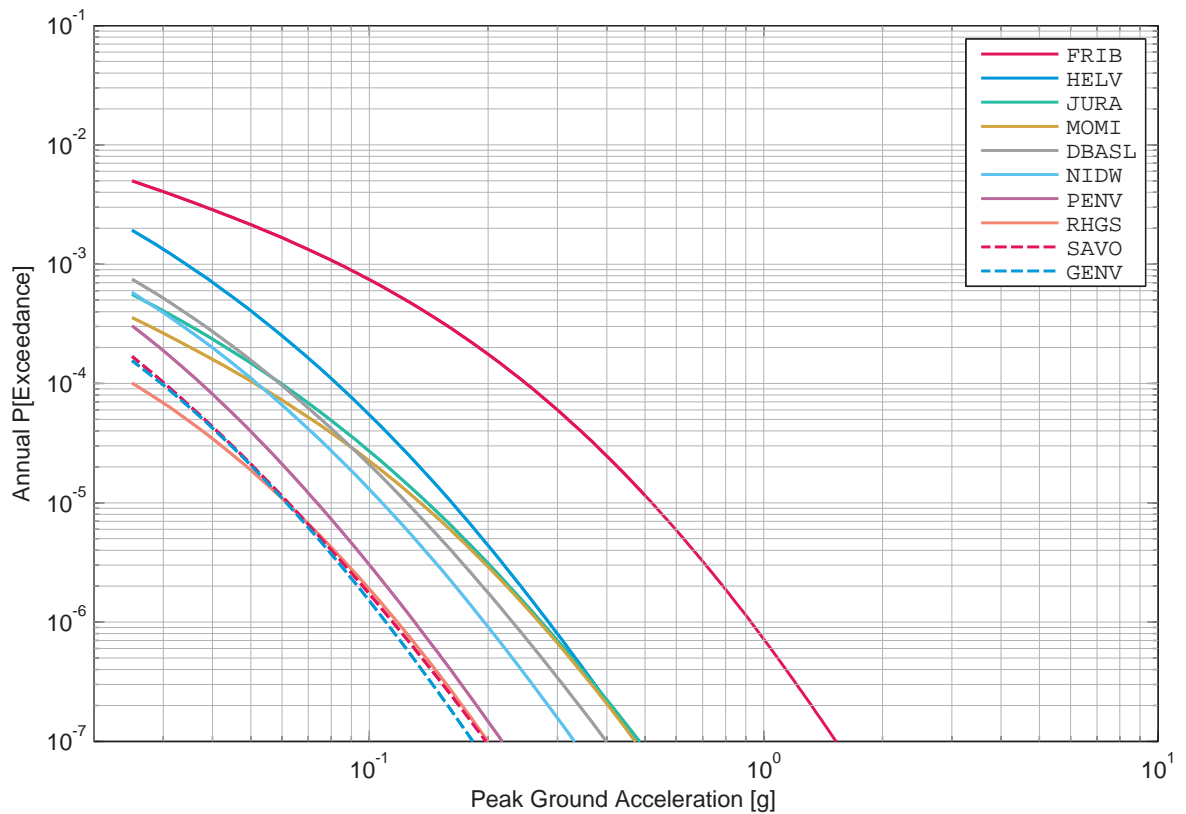


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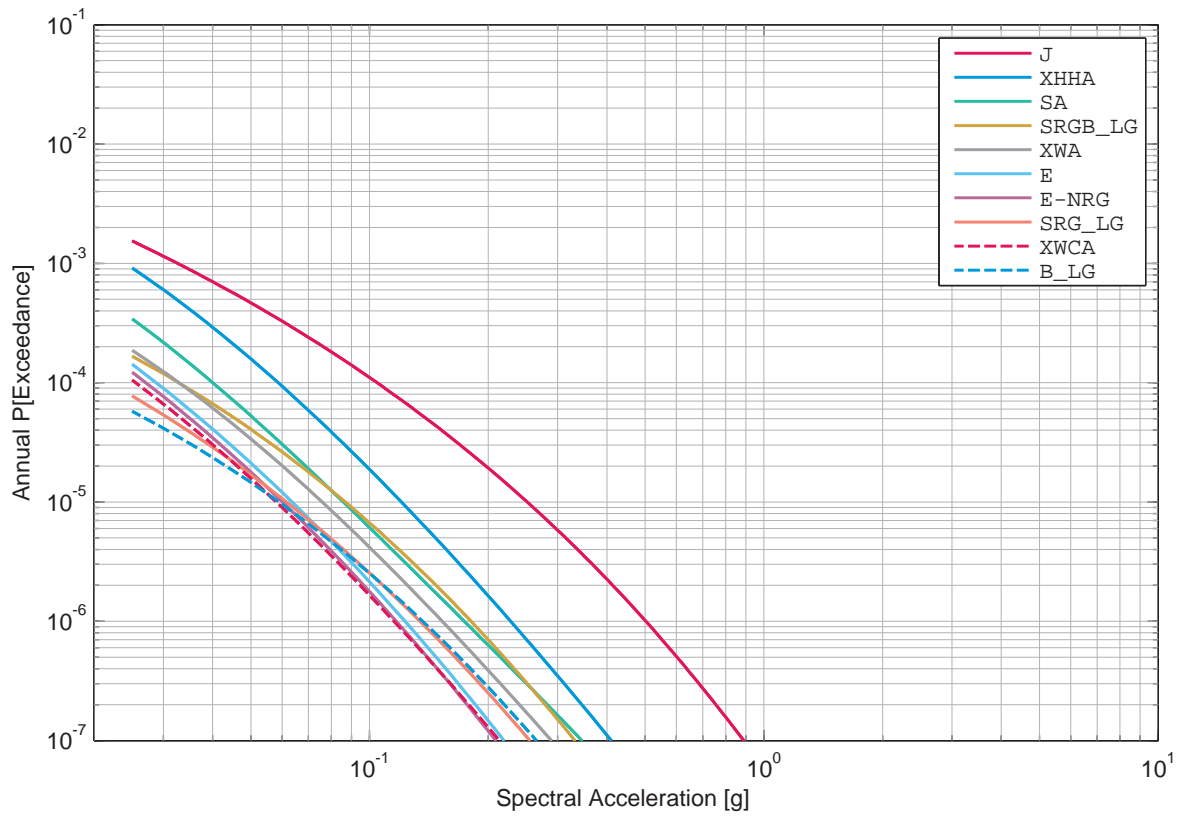


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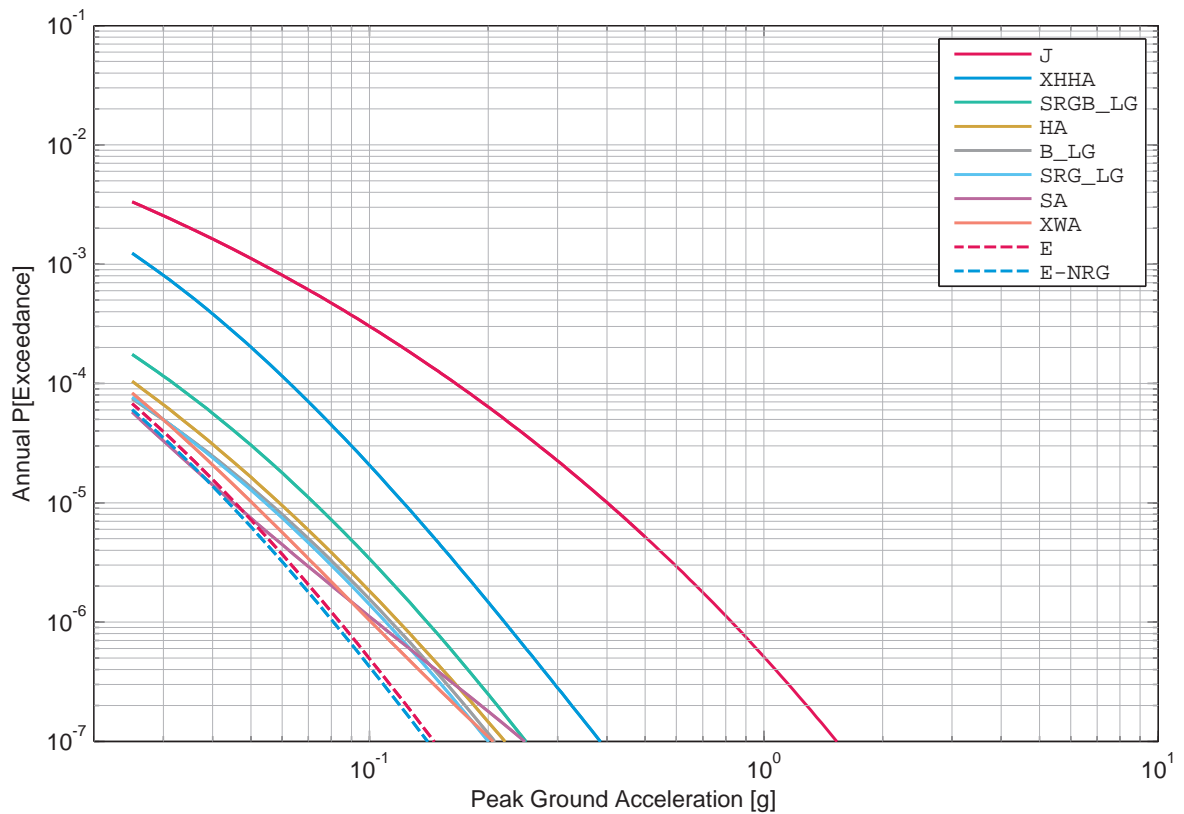


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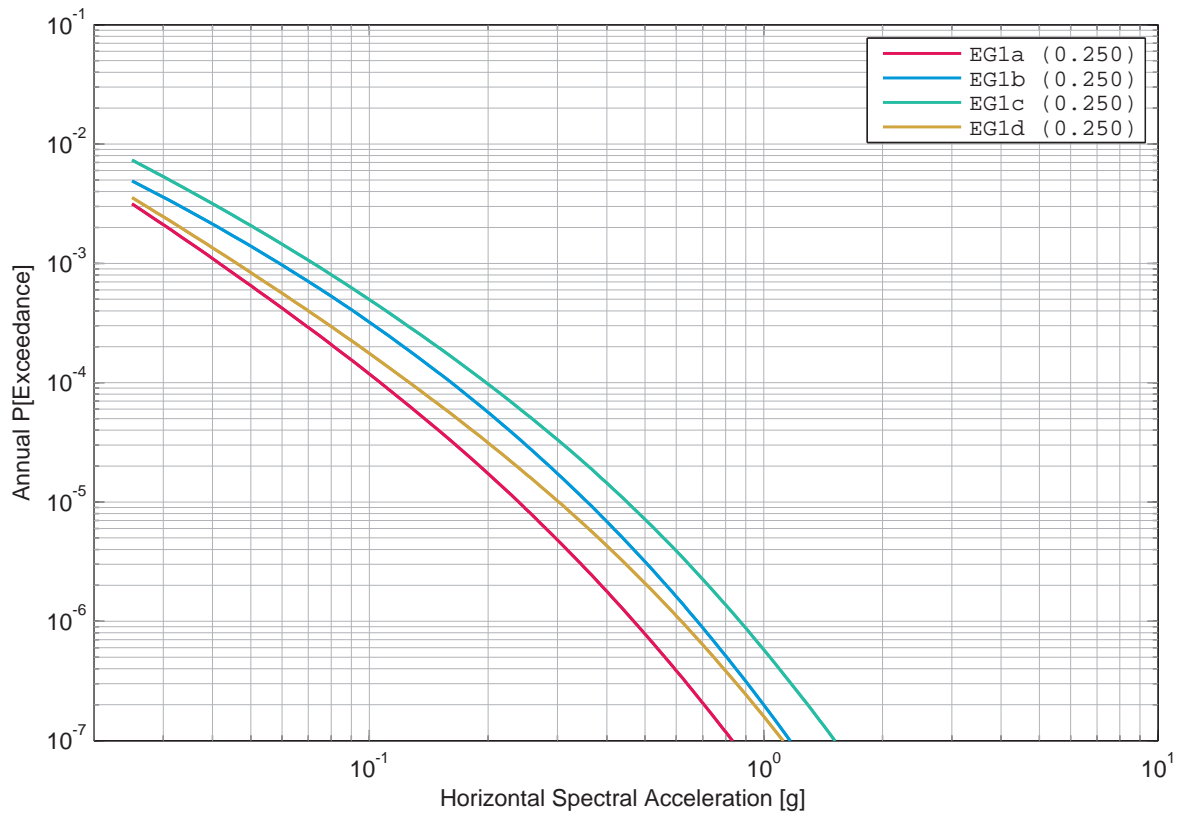


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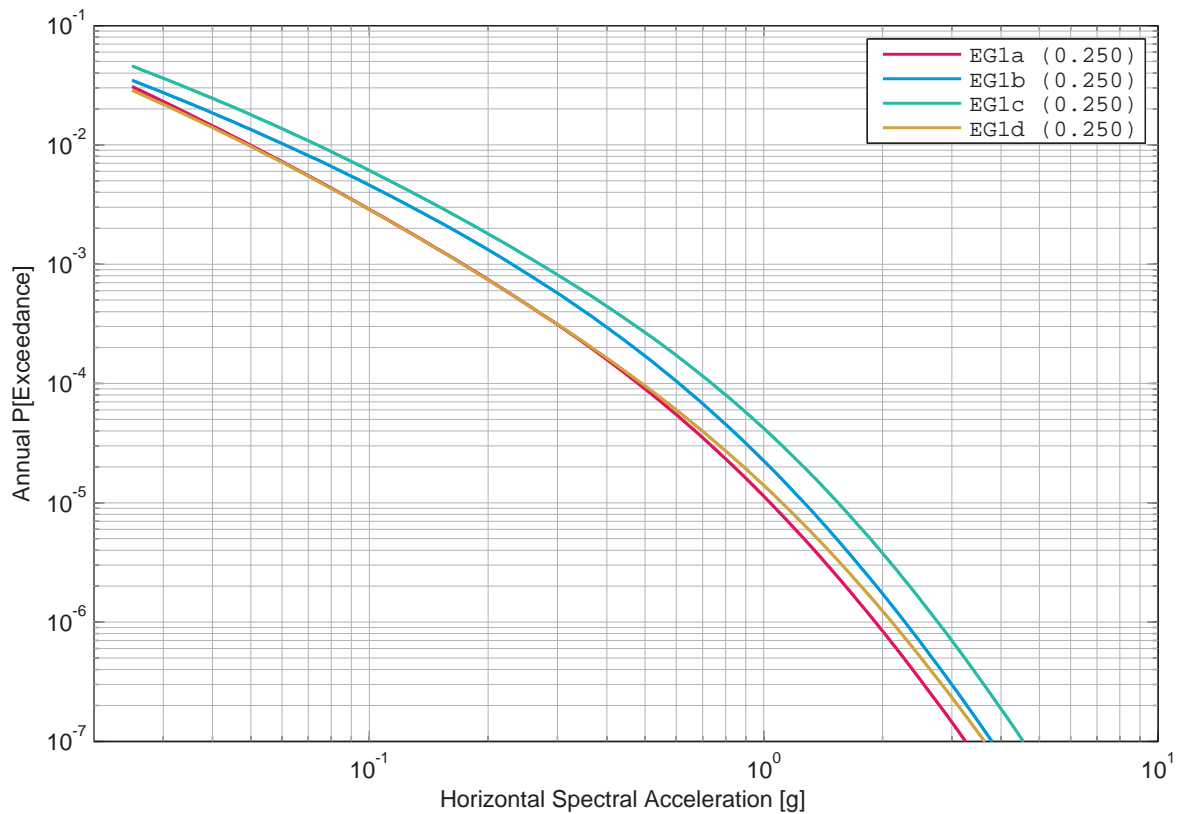


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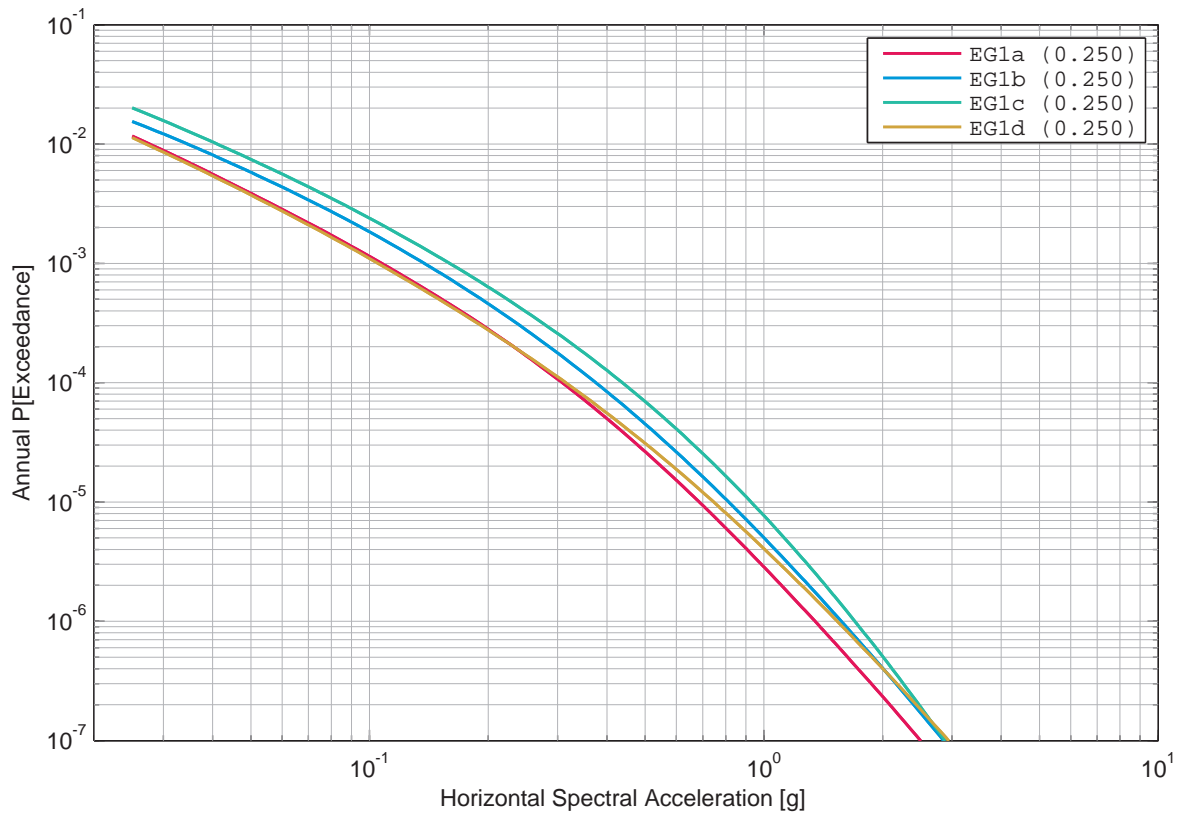


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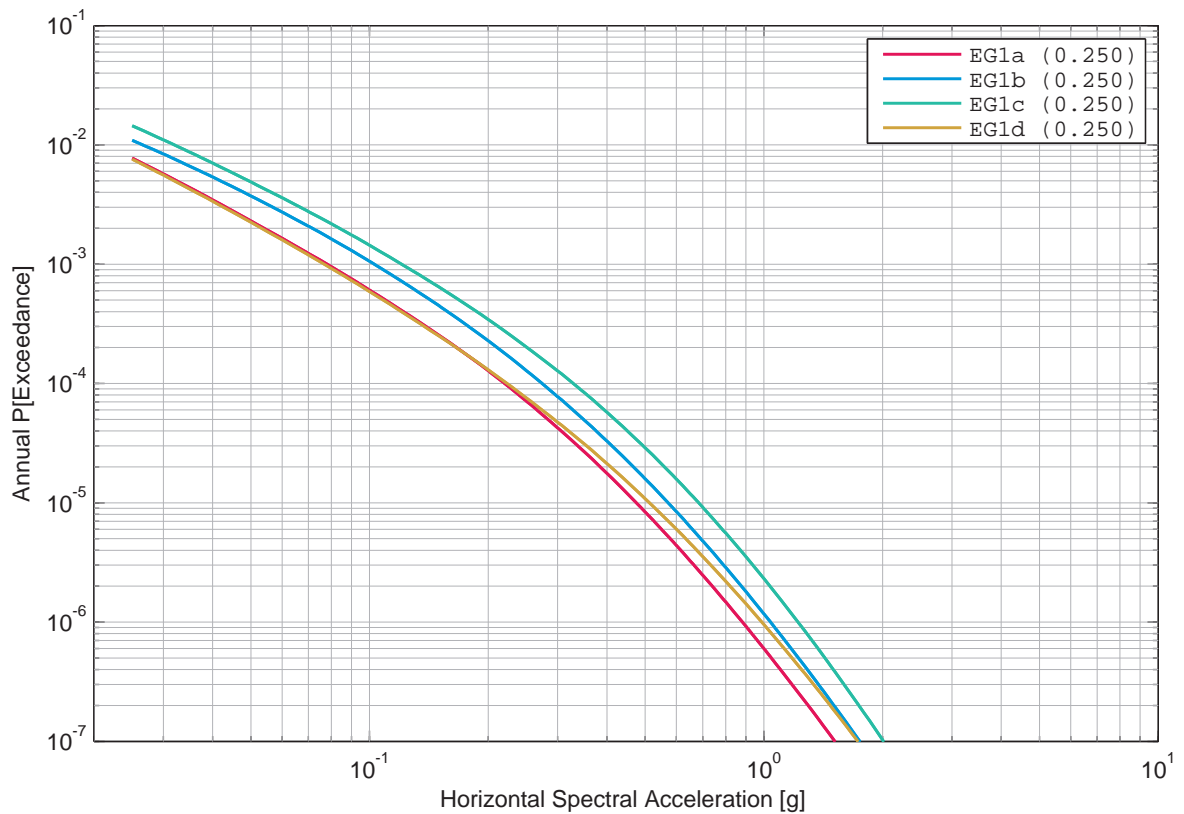


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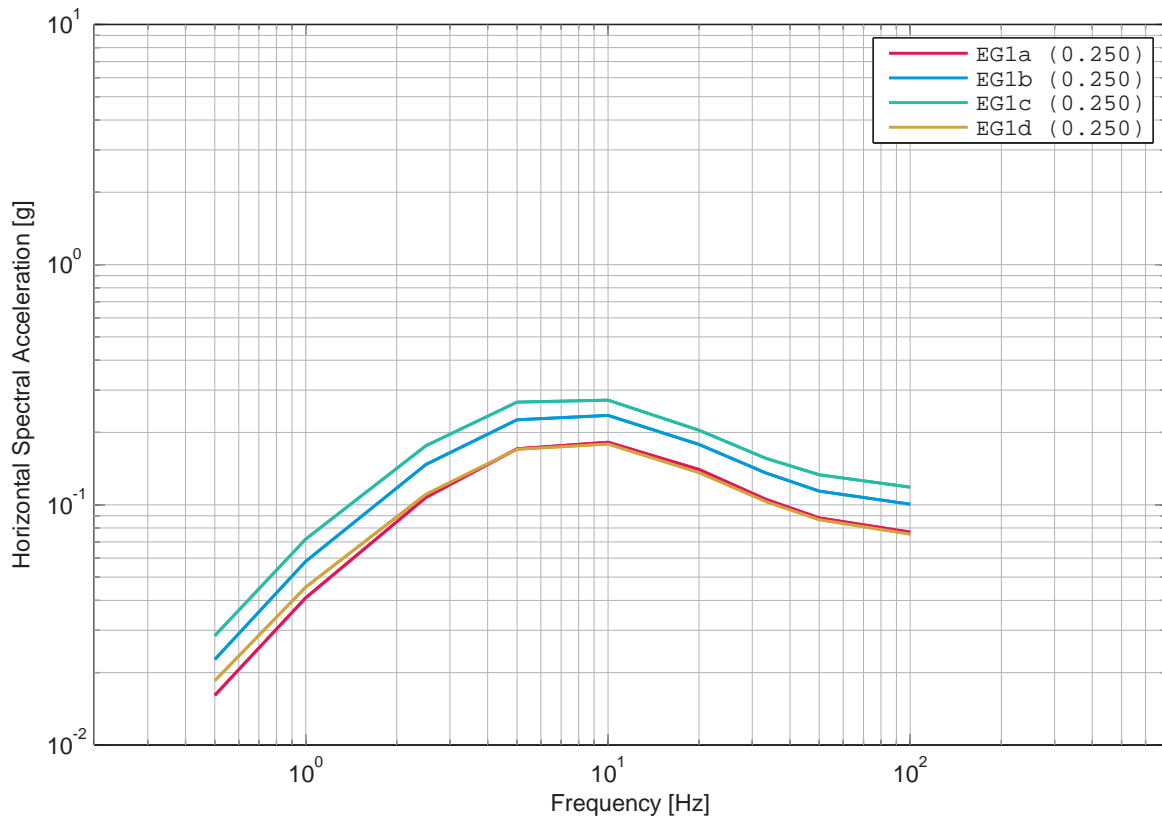


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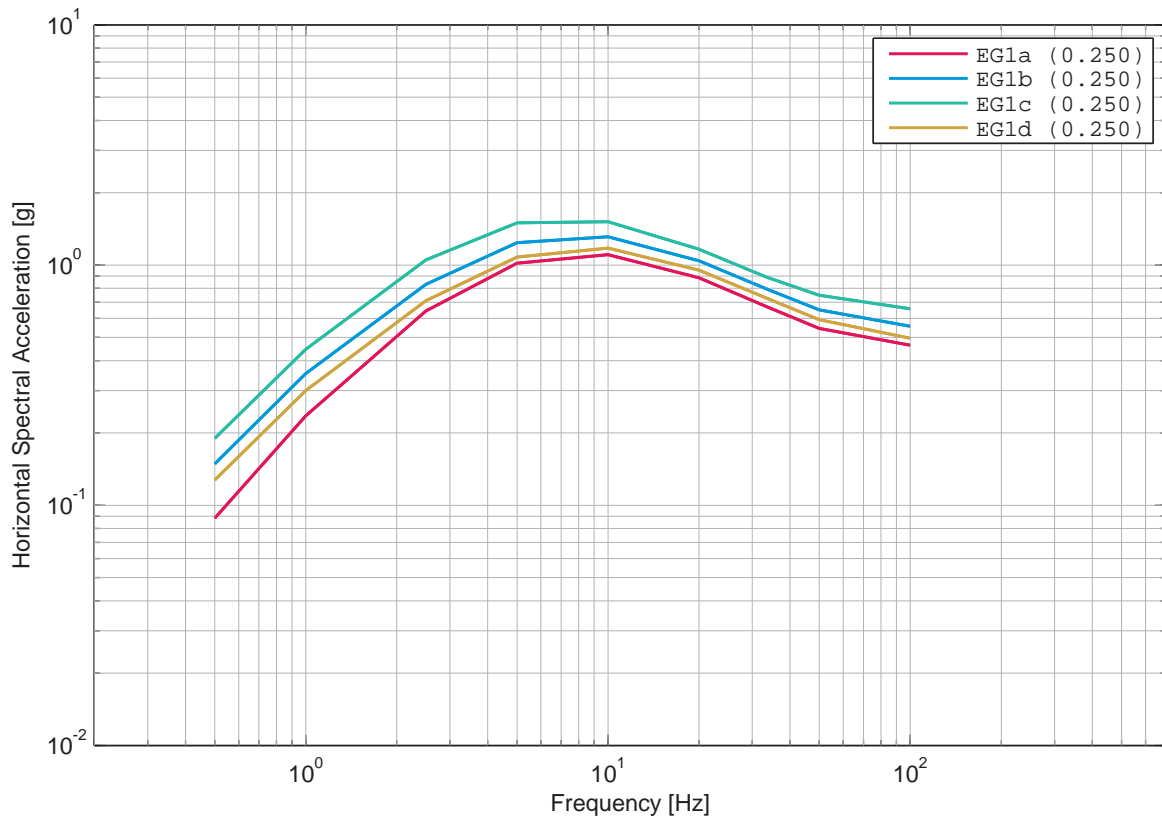


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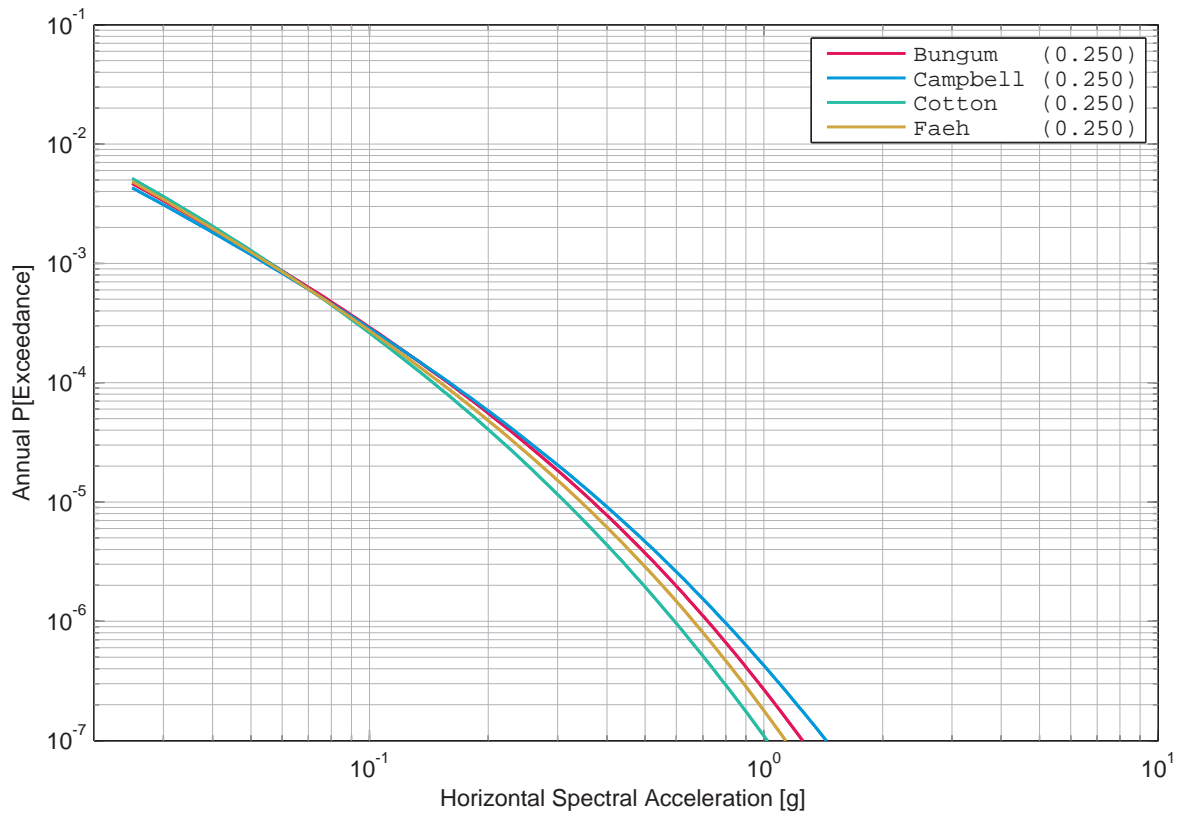


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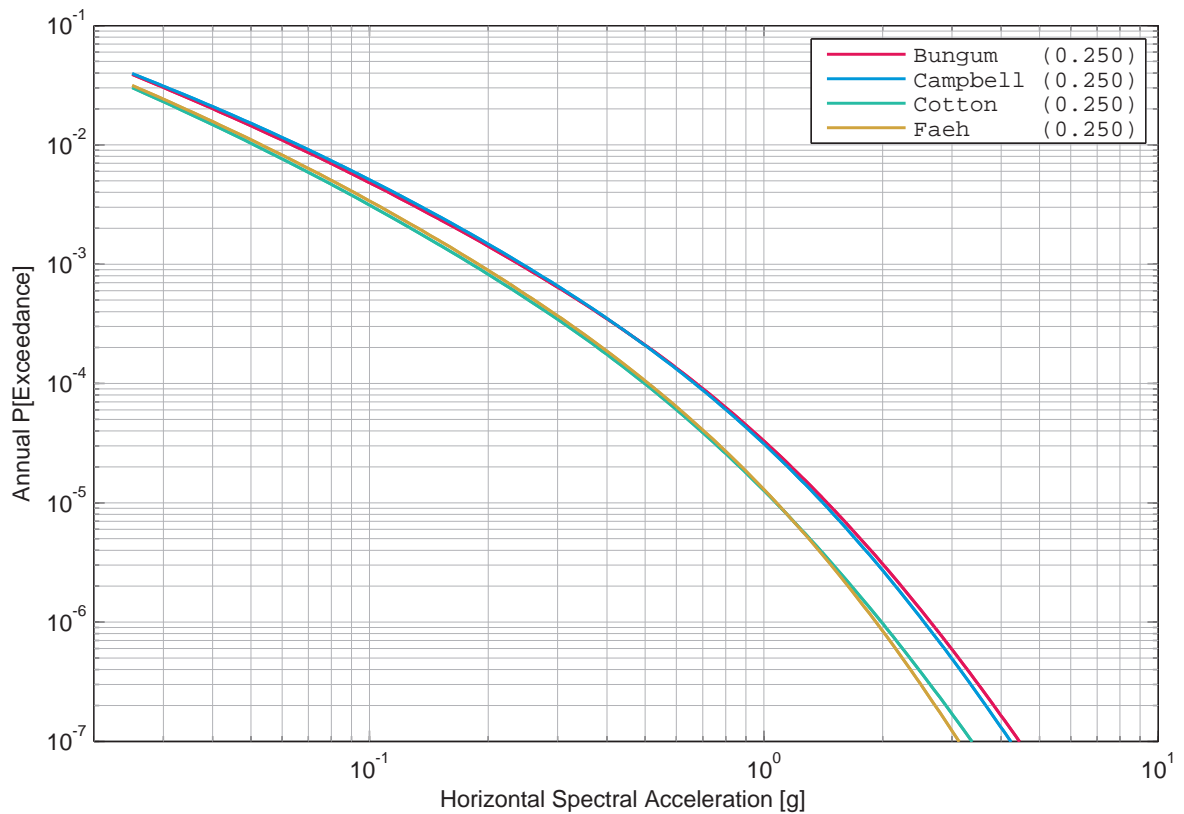


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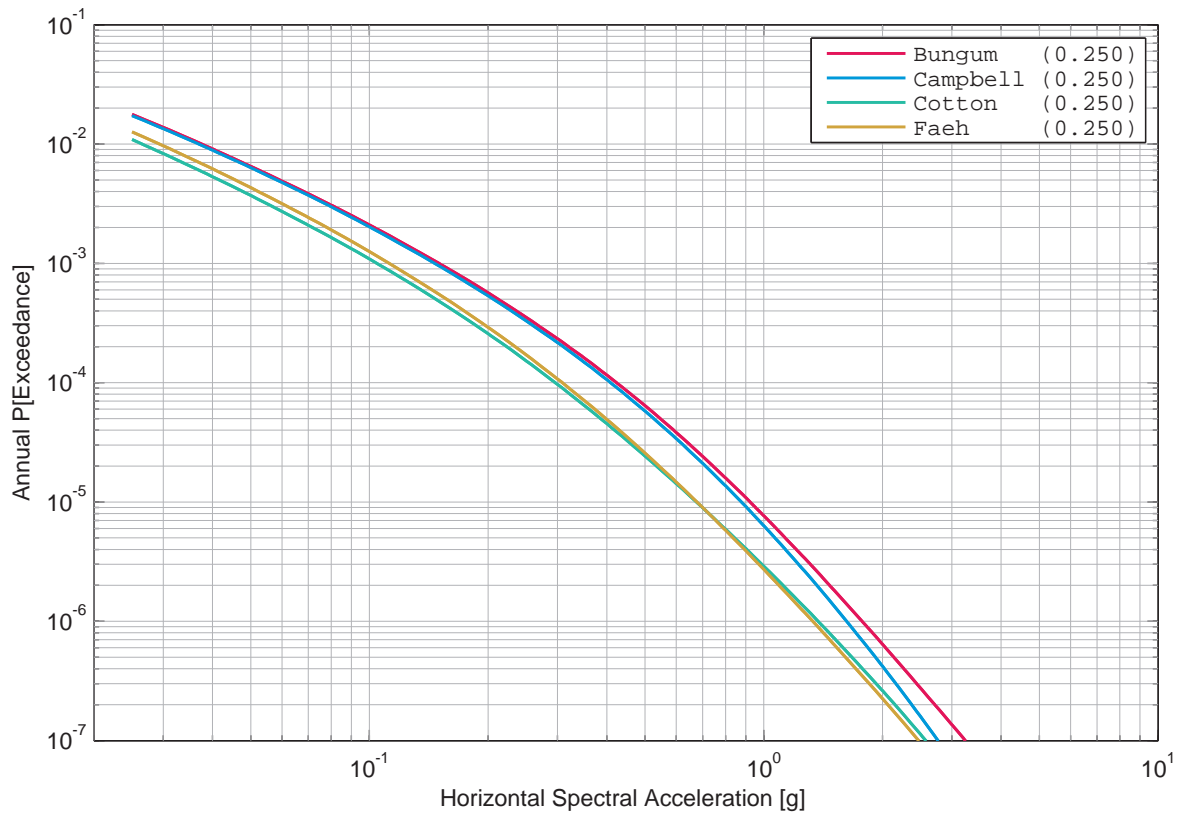


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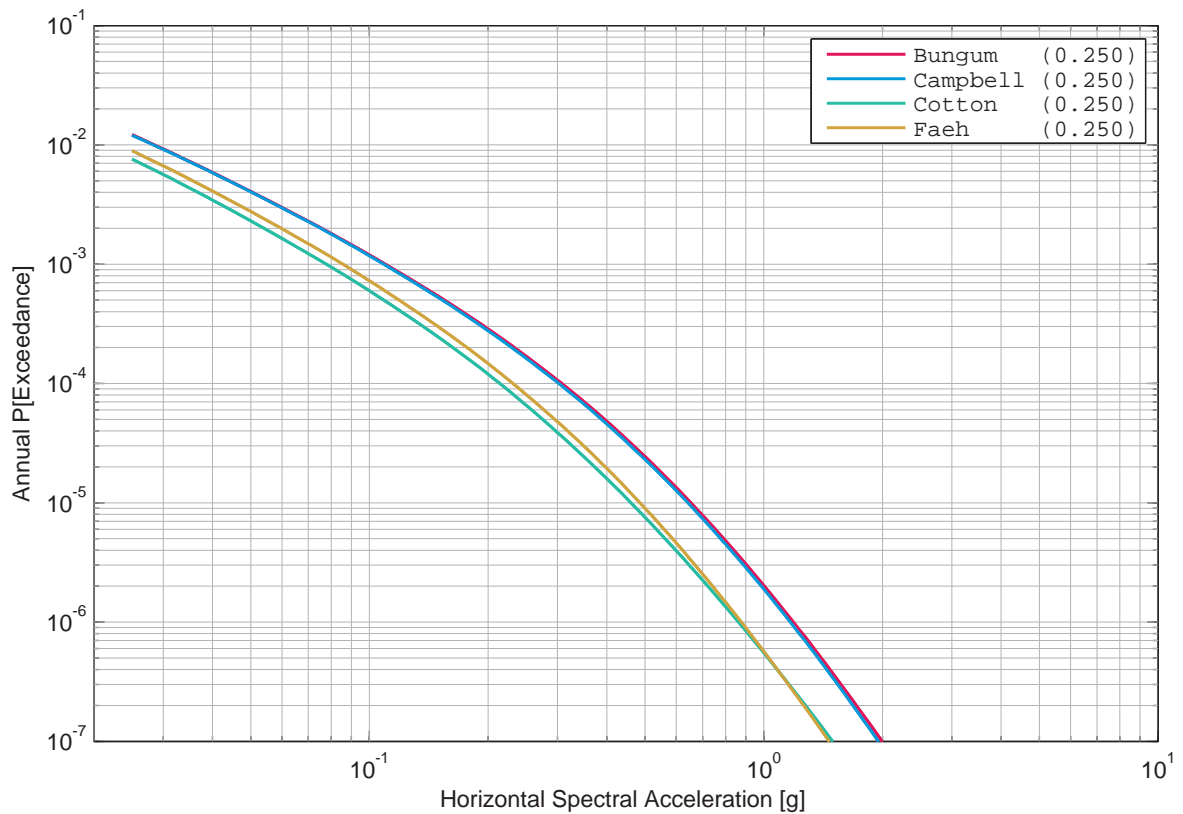


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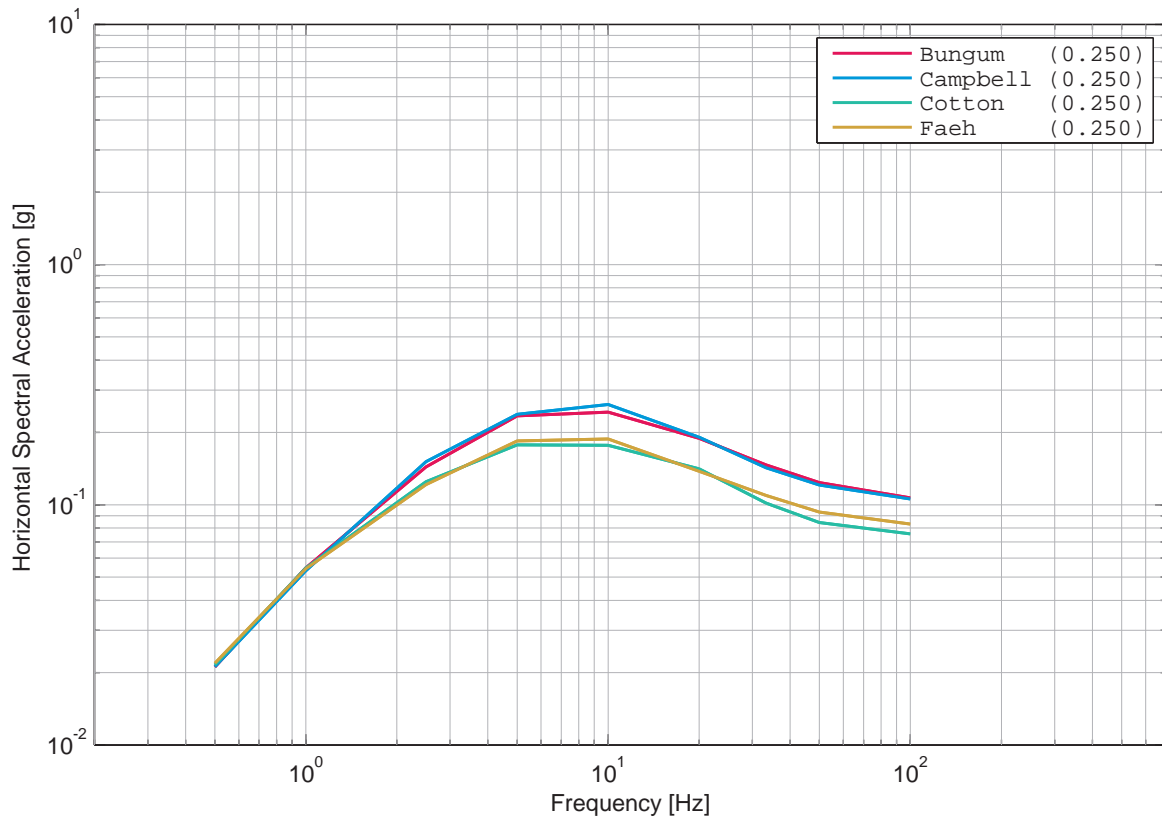


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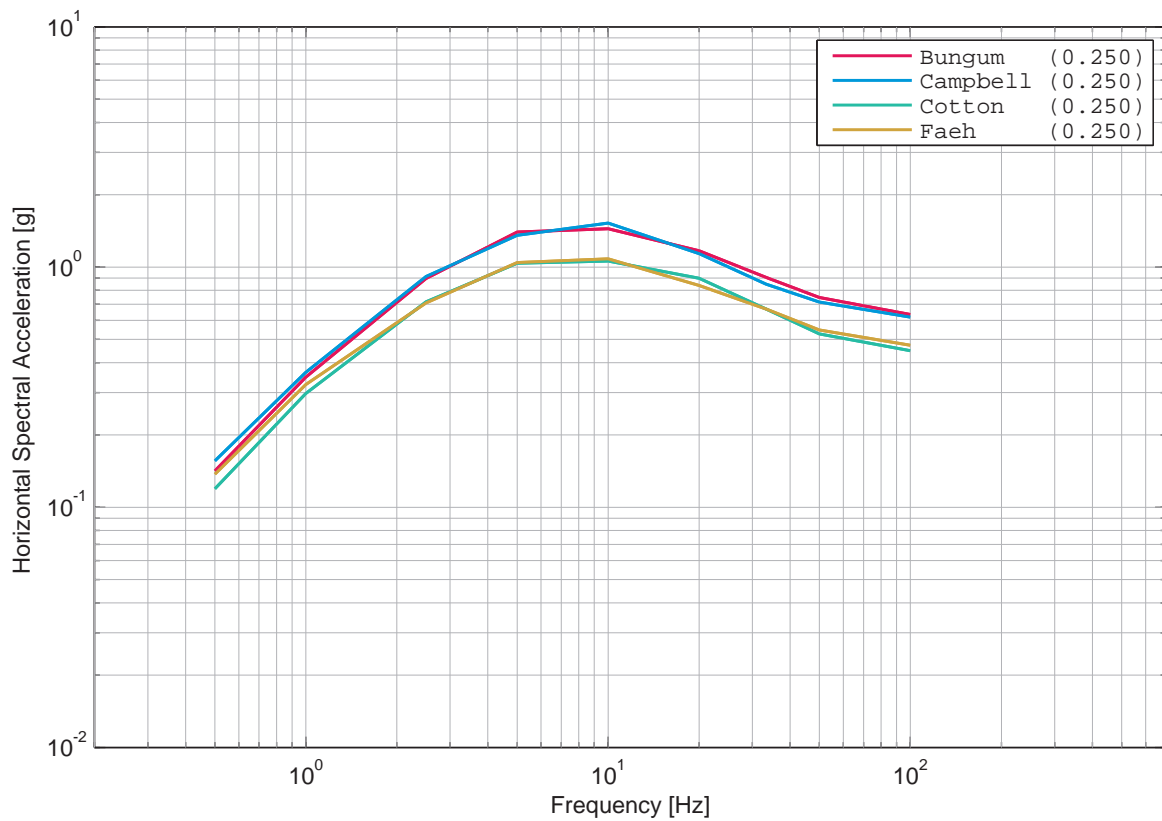


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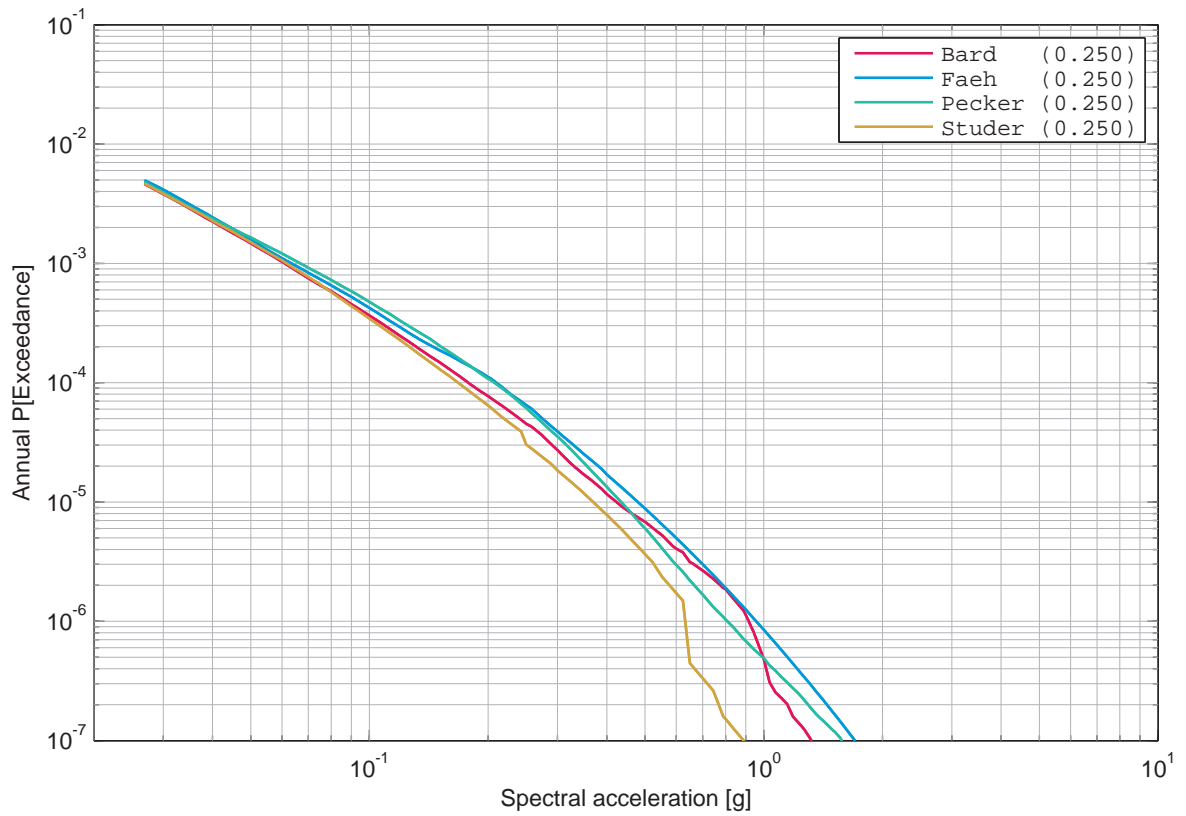


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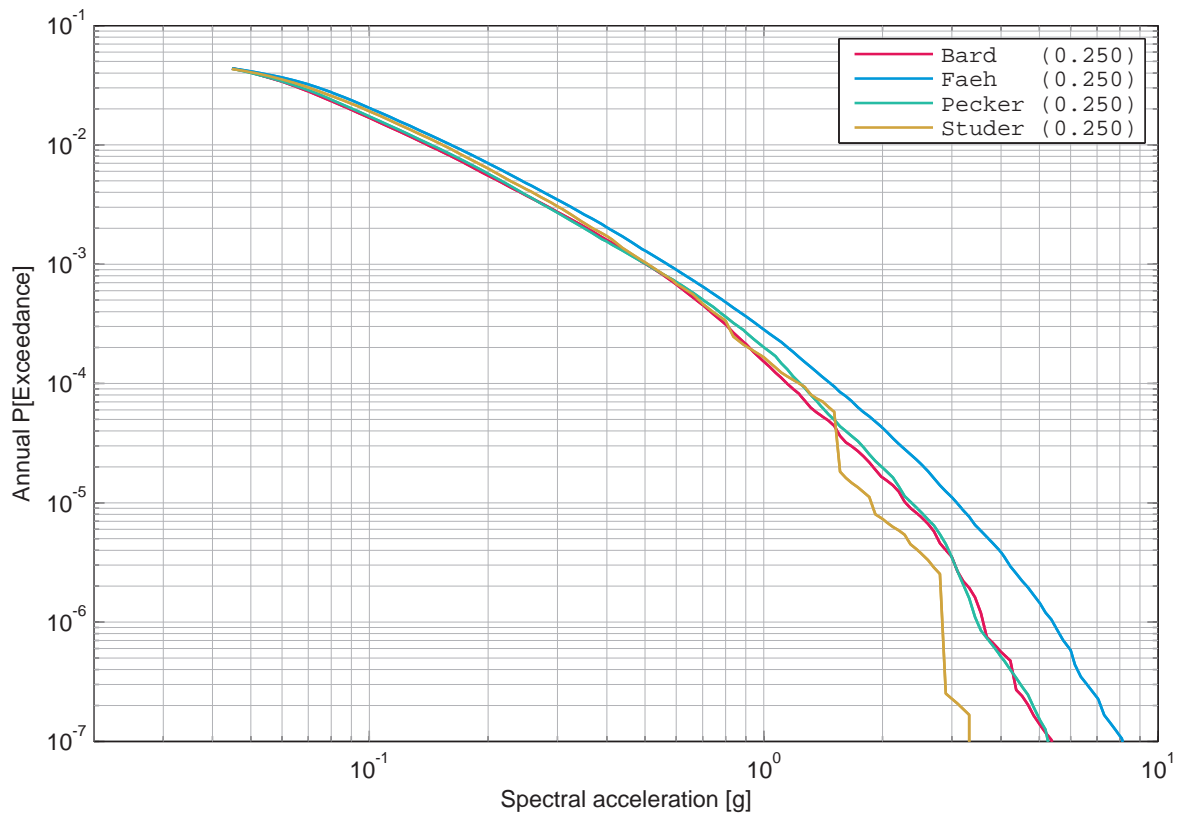


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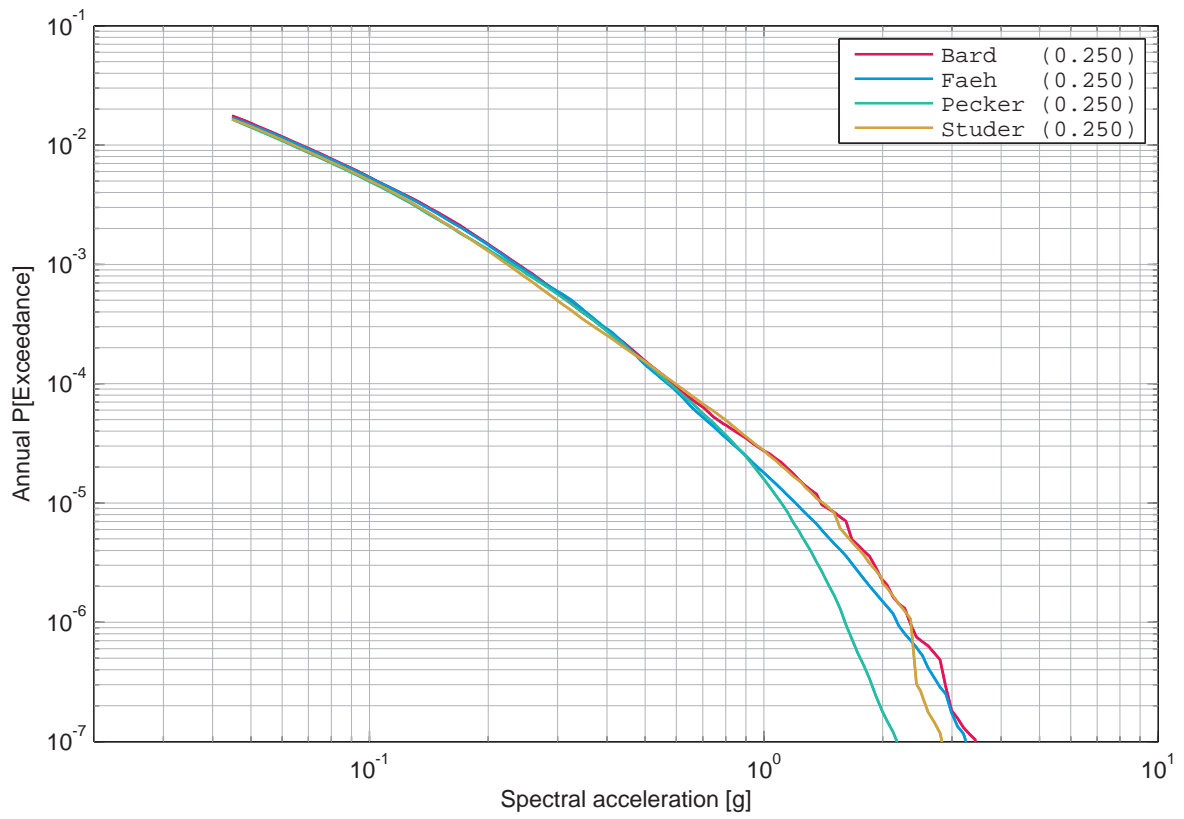


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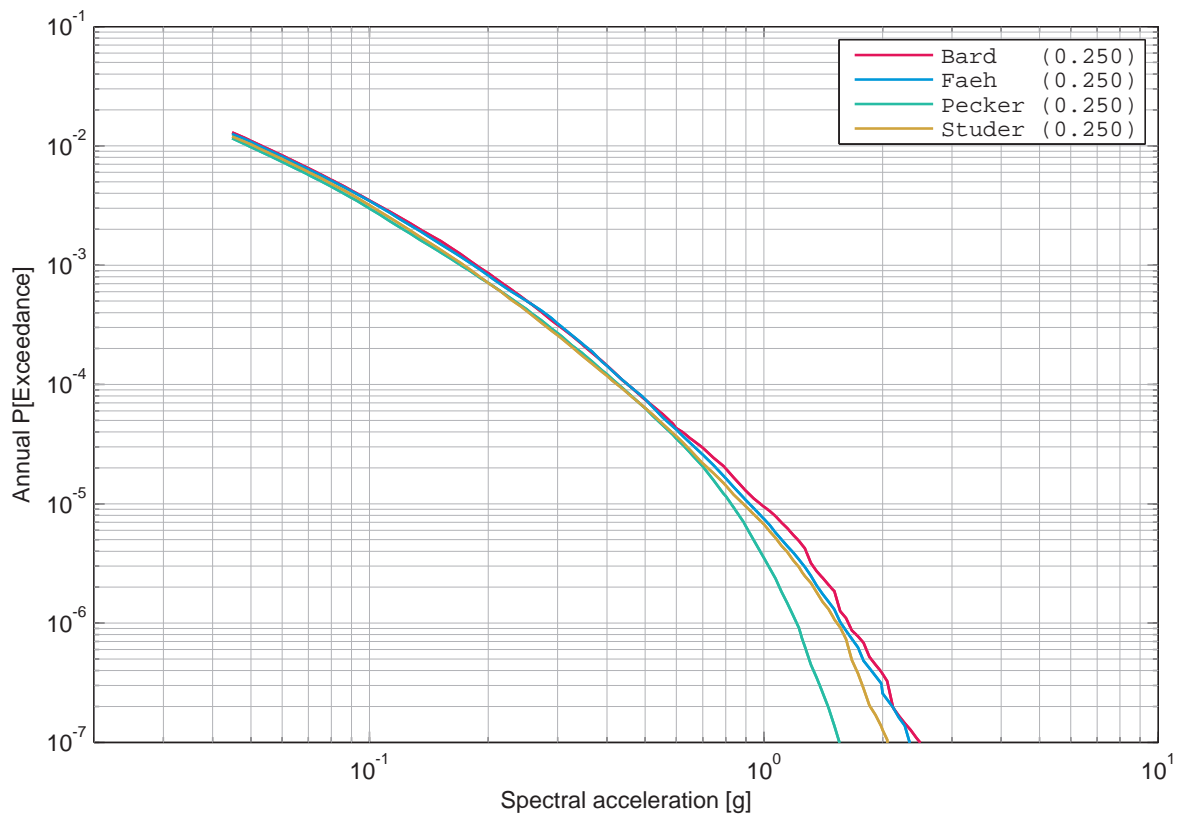


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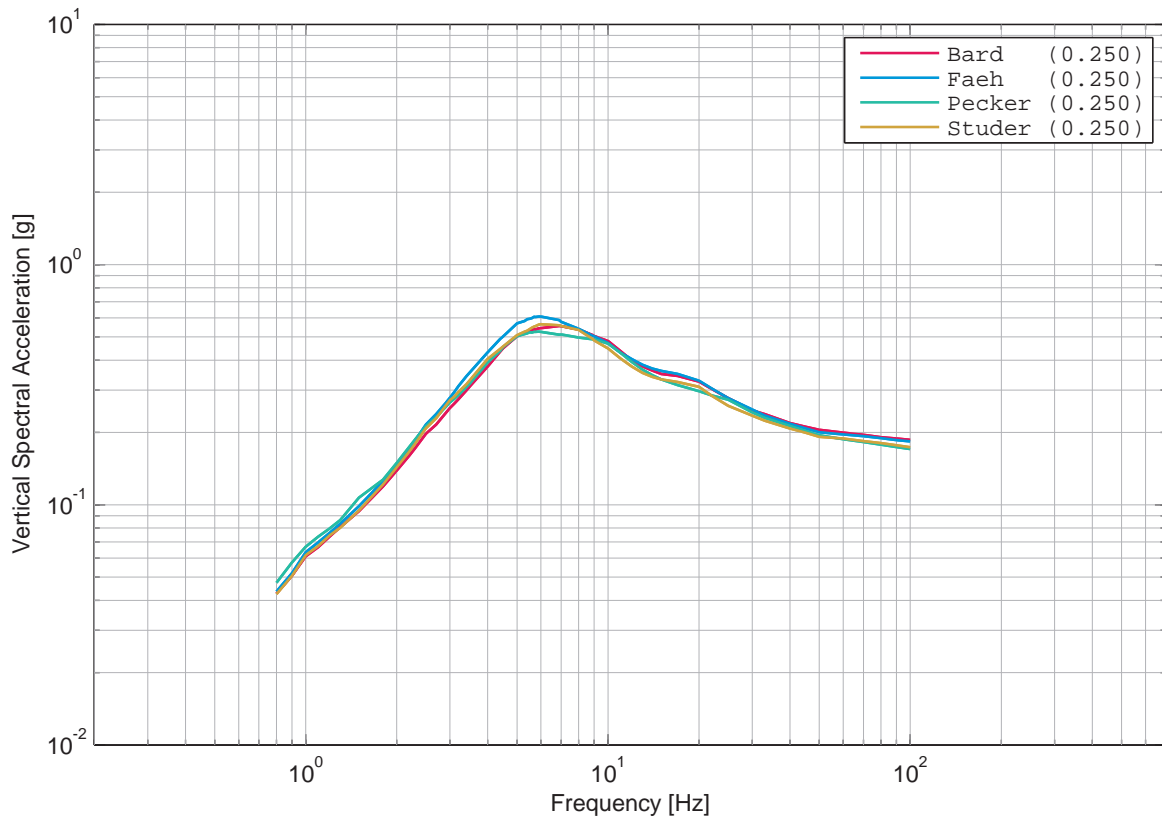


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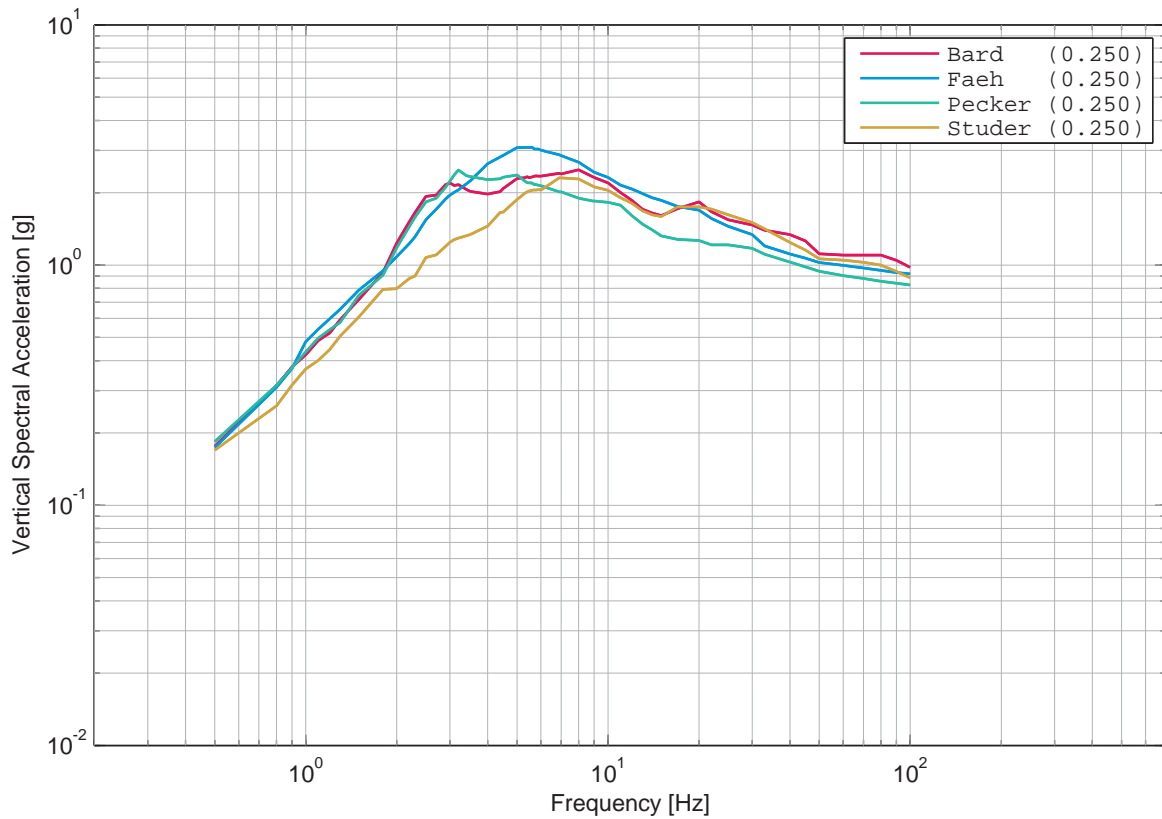


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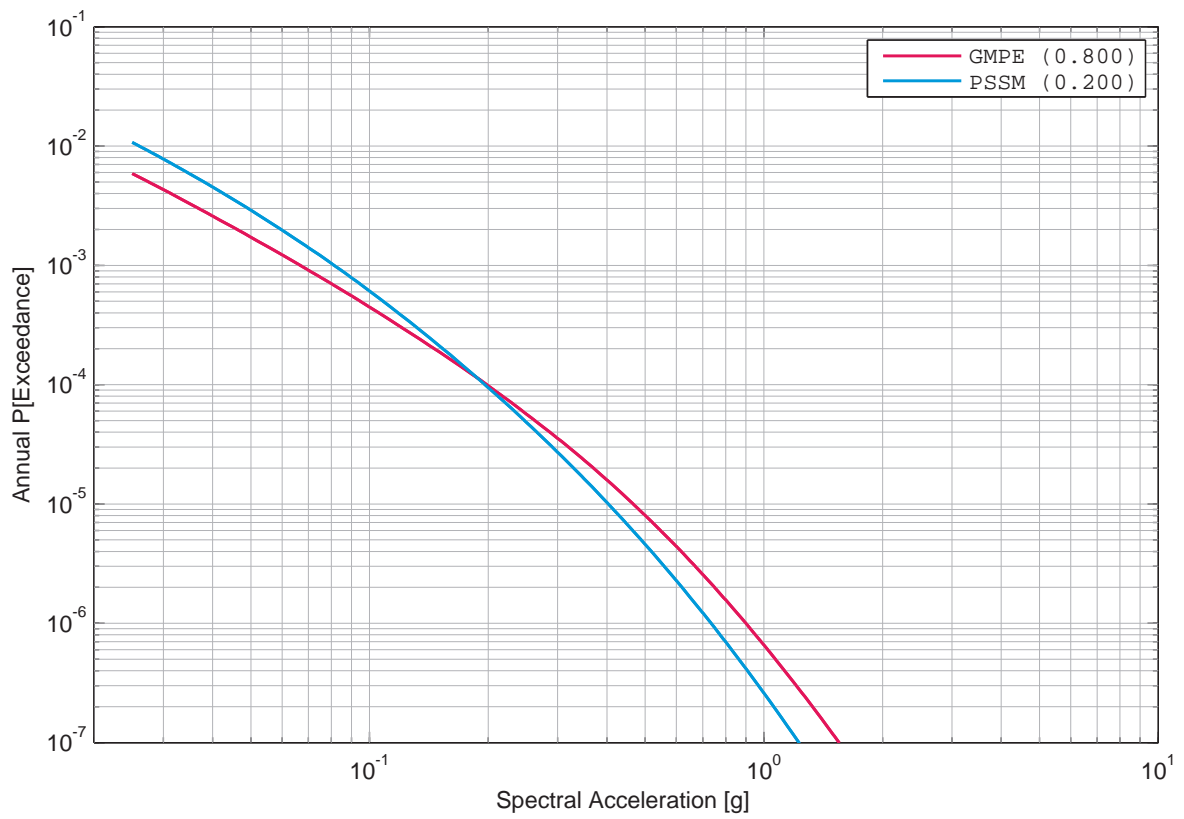


Figure 5.9.1: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the model category, 1 Hz.

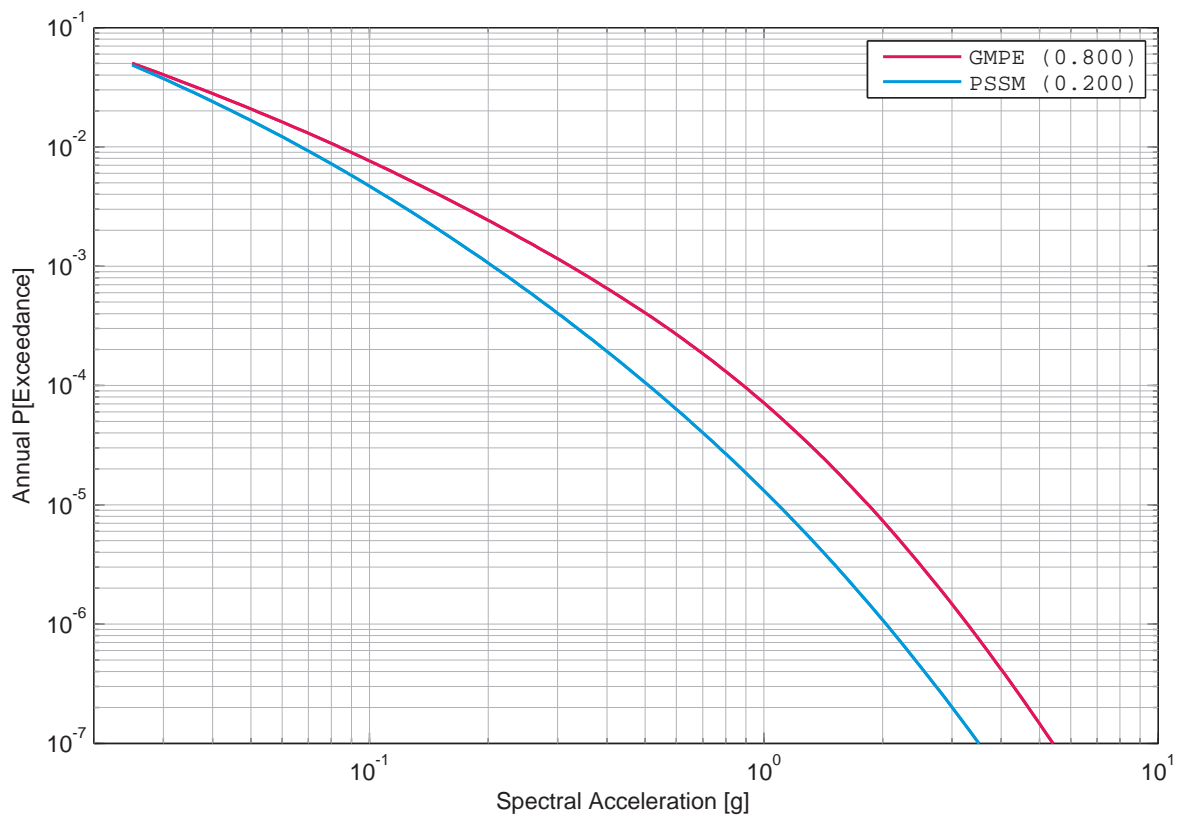


Figure 5.9.2: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the model category, 5 Hz.

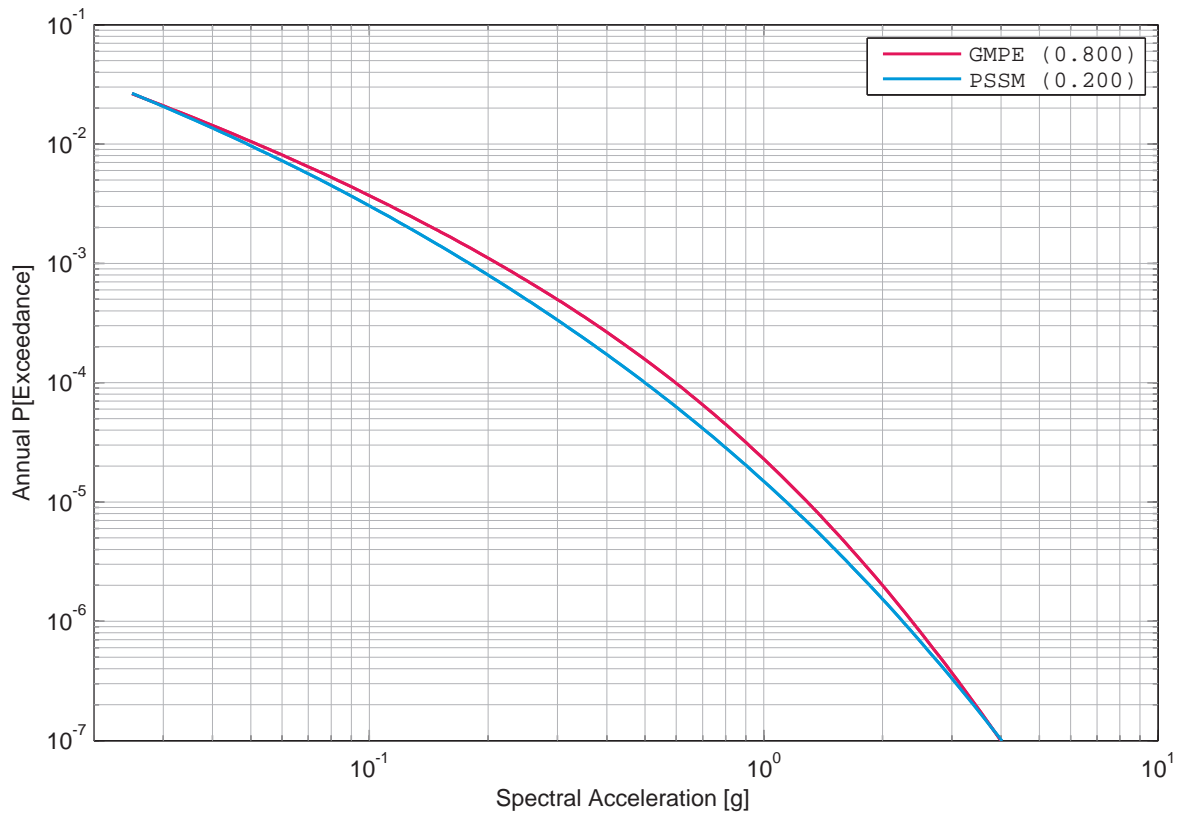


Figure 5.9.3: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the model category, 33 Hz.

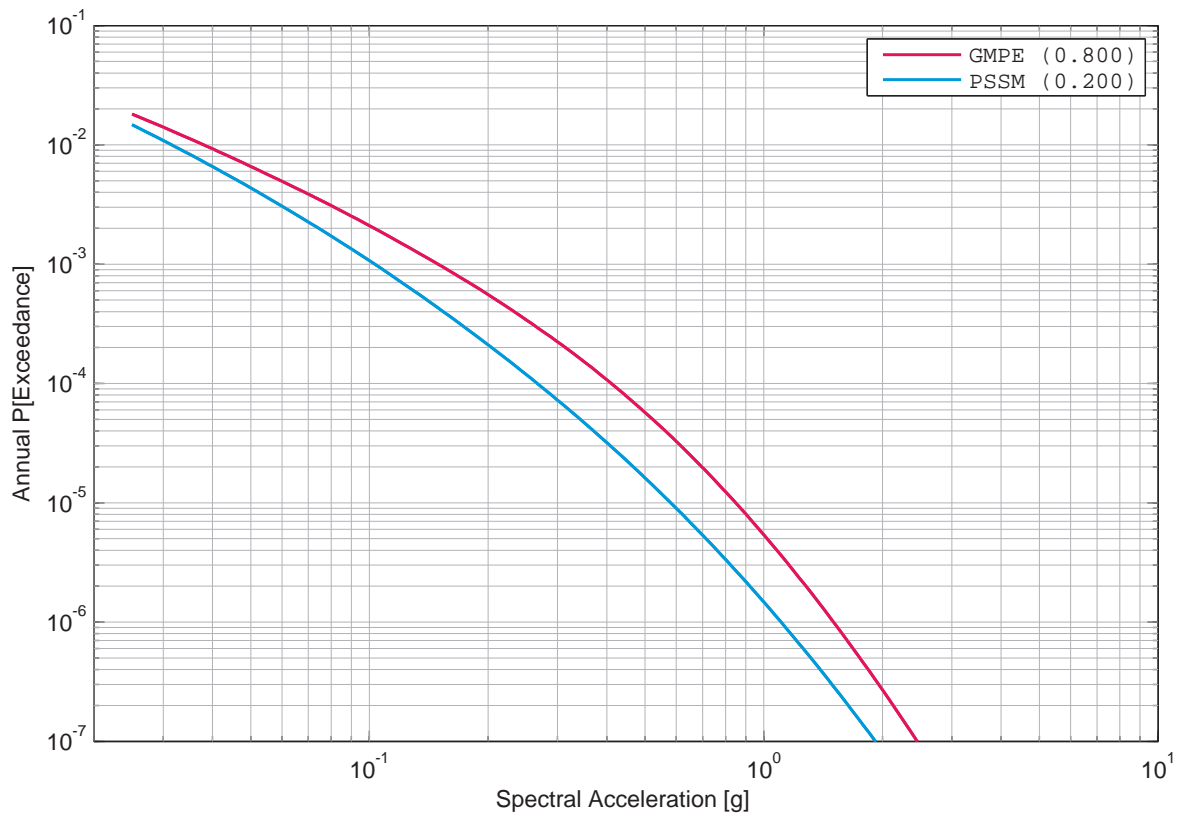


Figure 5.9.4: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the model category, 100 Hz.

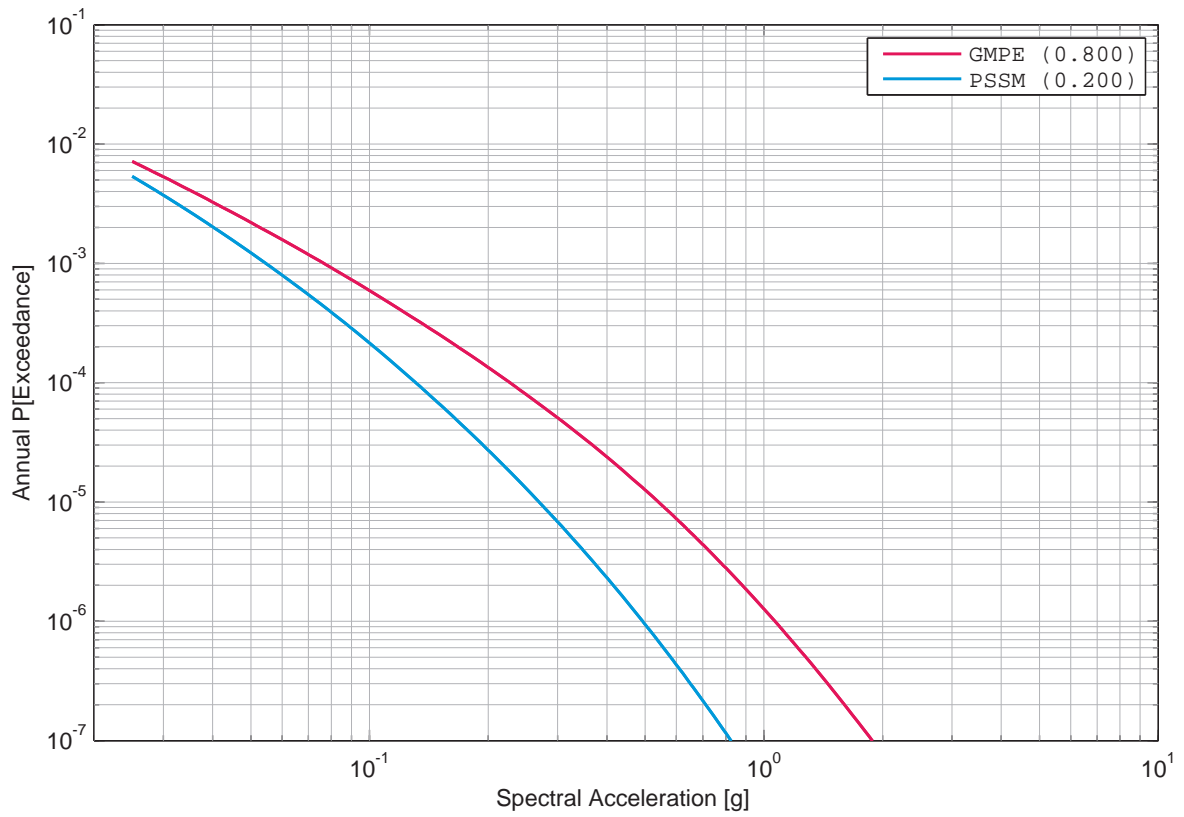


Figure 5.9.5: Mühleberg, horizontal component, rock, Campbell's sensitivity to the model category, 1 Hz.

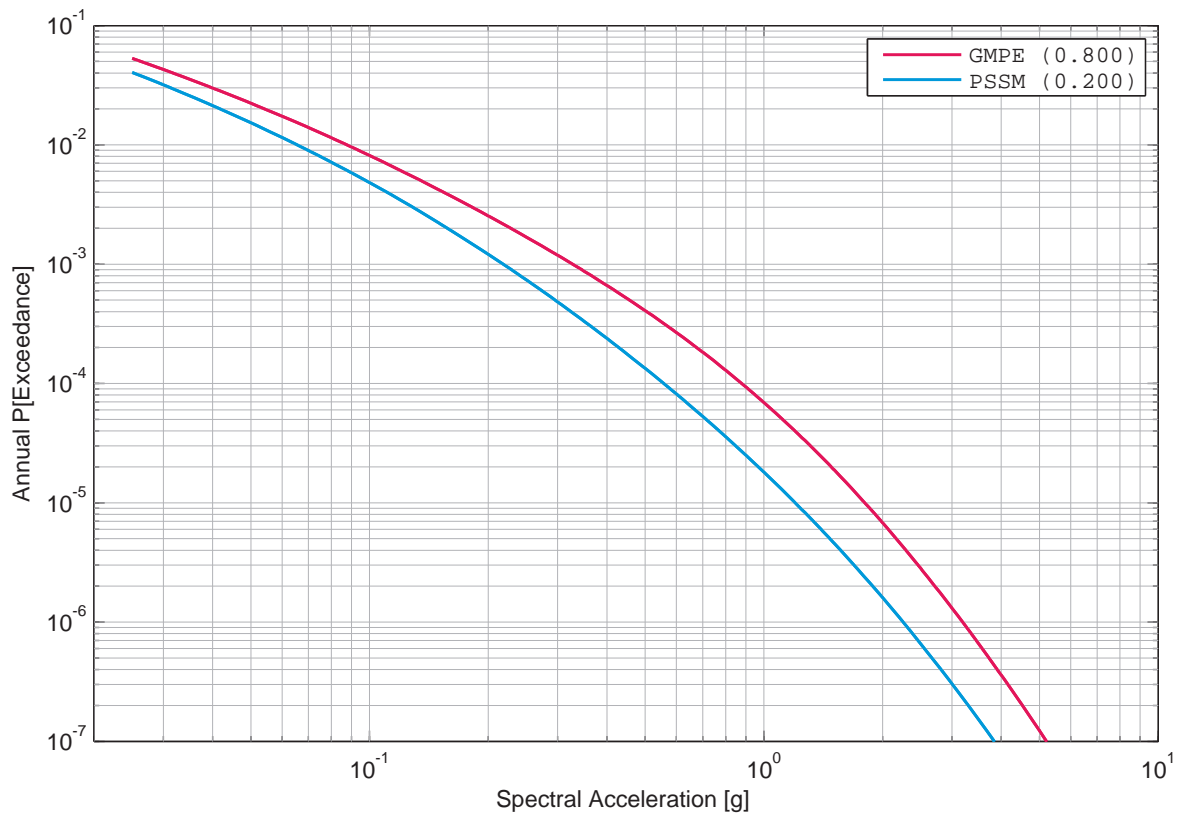


Figure 5.9.6: Mühleberg, horizontal component, rock, Campbell's sensitivity to the model category, 5 Hz.

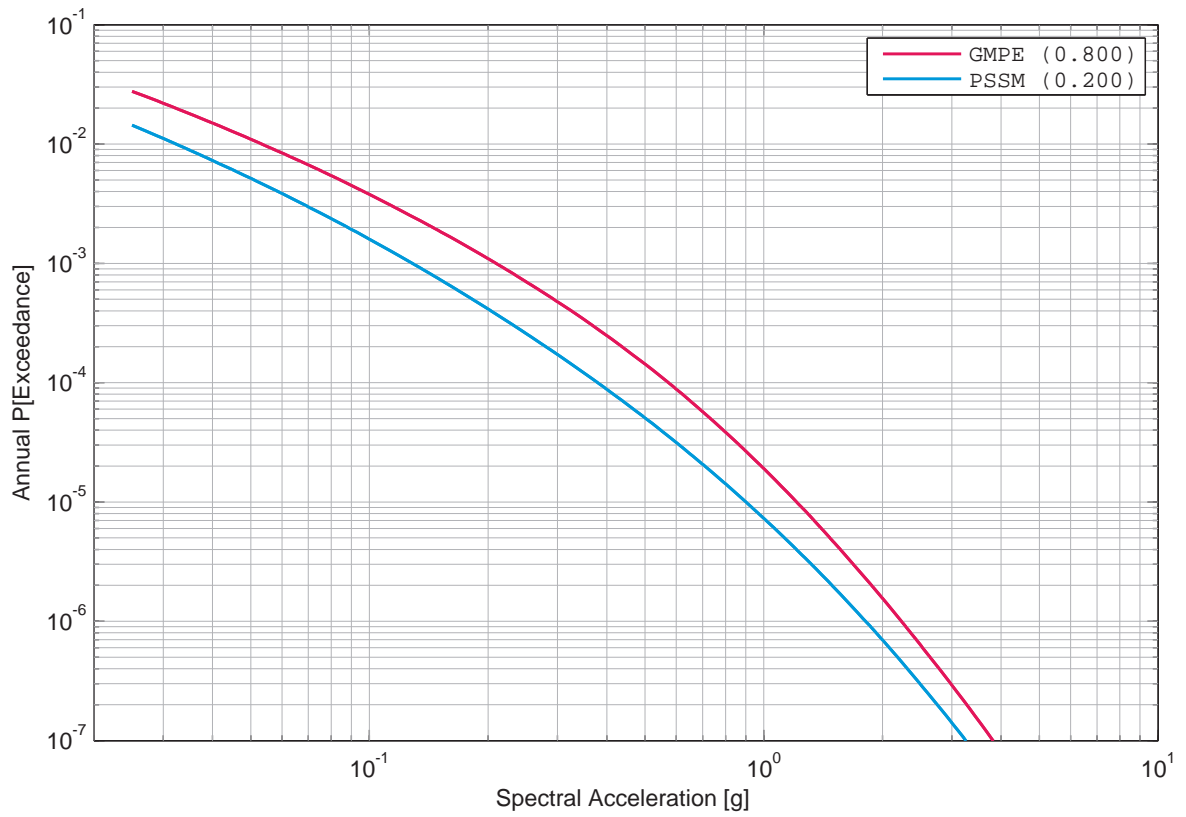


Figure 5.9.7: Mühleberg, horizontal component, rock, Campbell’s sensitivity to the model category, 33 Hz.

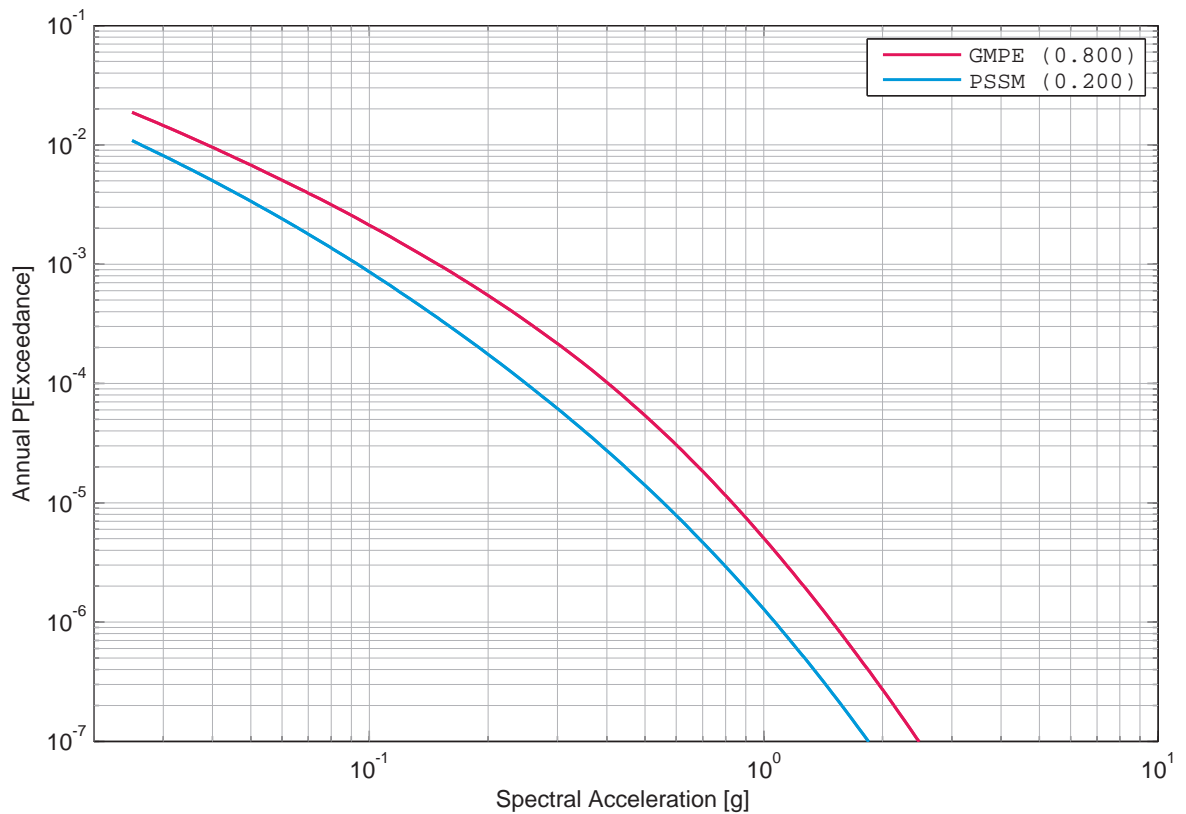


Figure 5.9.8: Mühleberg, horizontal component, rock, Campbell’s sensitivity to the model category, 100 Hz.

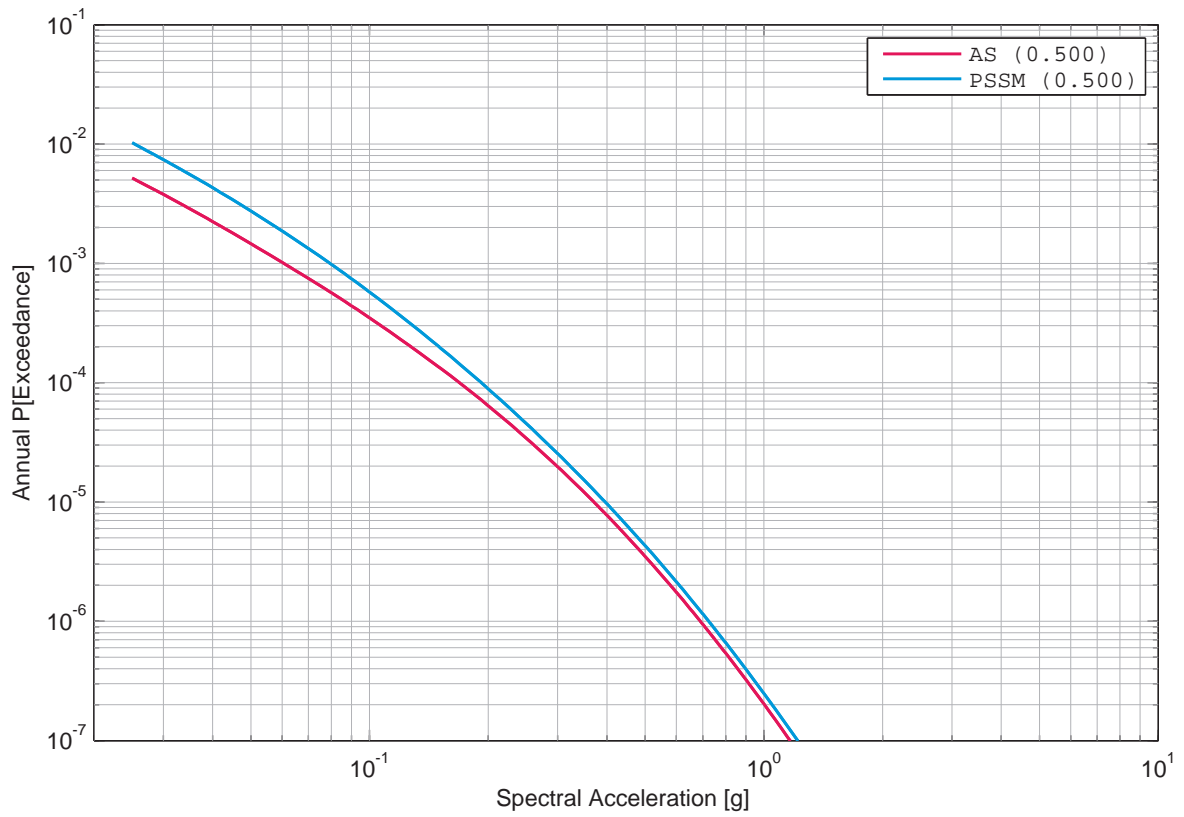


Figure 5.9.9: Mühleberg, horizontal component, rock, Cotton's sensitivity to the model category, 1 Hz.

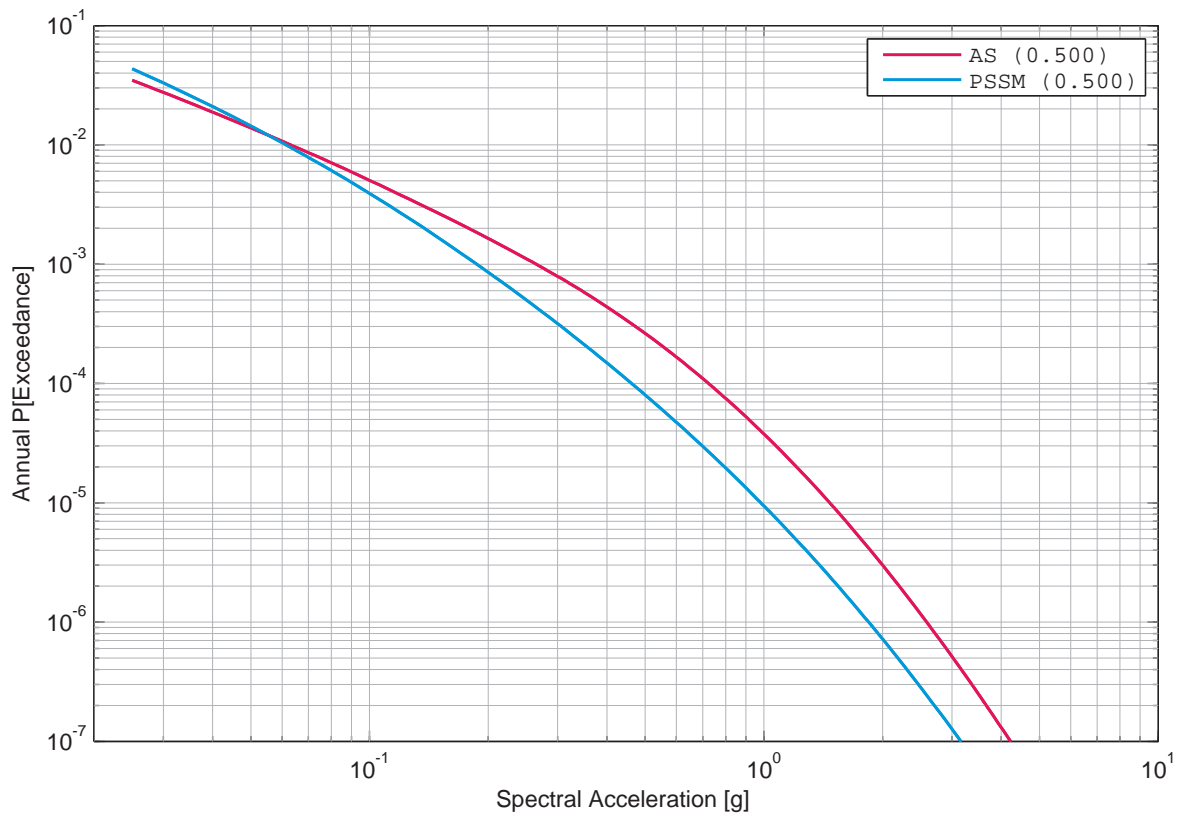


Figure 5.9.10: Mühleberg, horizontal component, rock, Cotton's sensitivity to the model category, 5 Hz.

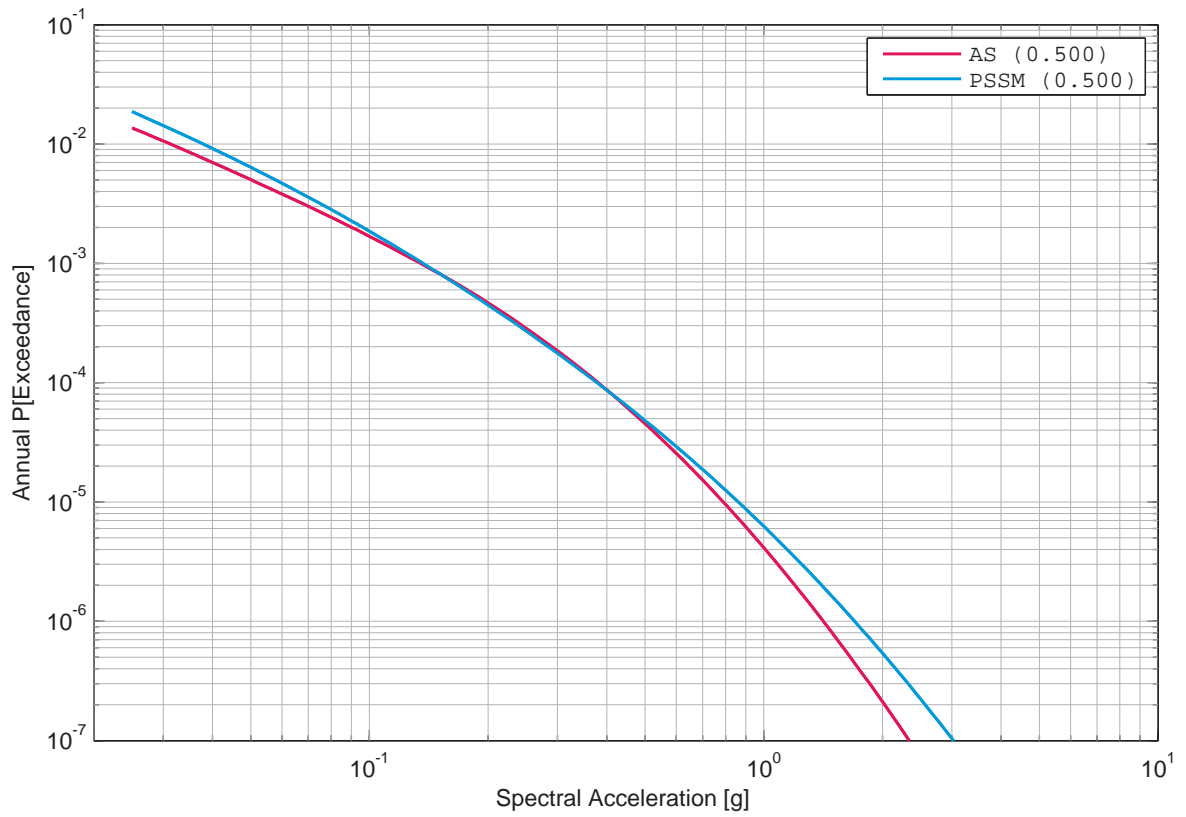


Figure 5.9.11: Mühleberg, horizontal component, rock, Cotton’s sensitivity to the model category, 33 Hz.

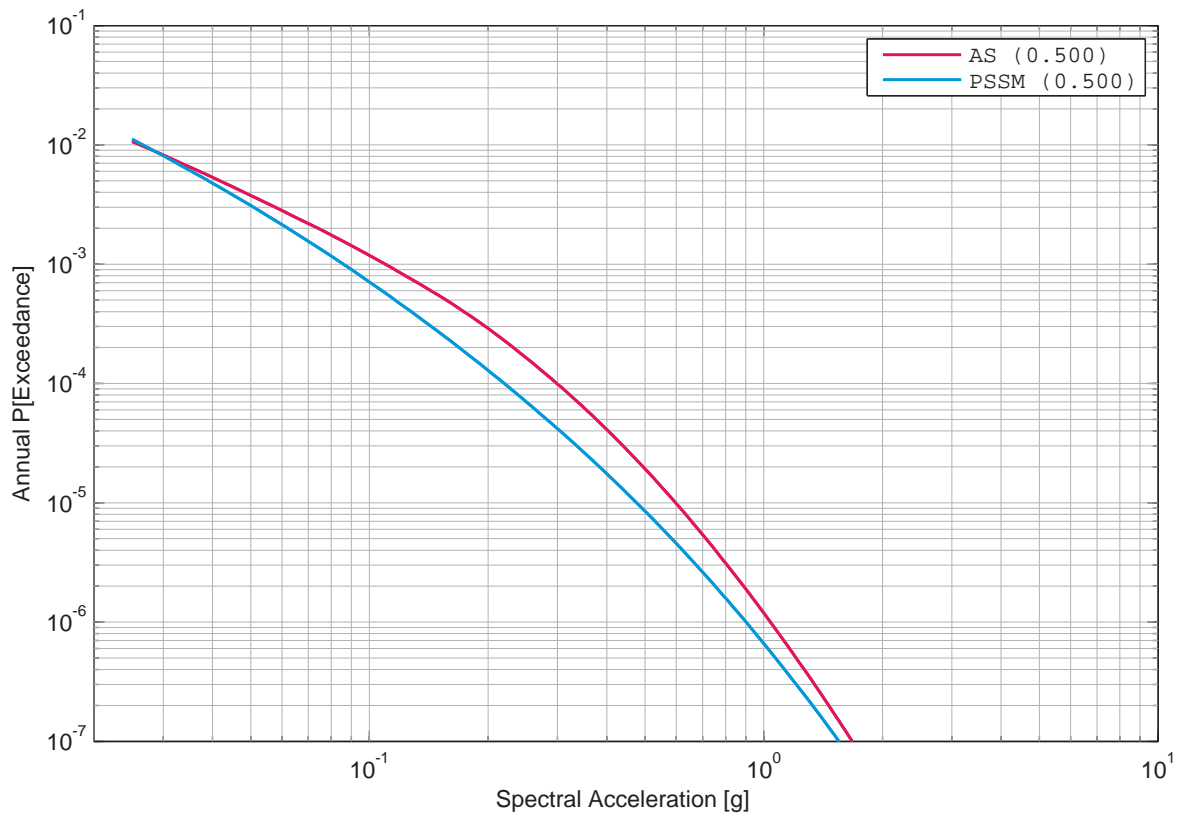


Figure 5.9.12: Mühleberg, horizontal component, rock, Cotton’s sensitivity to the model category, 100 Hz.

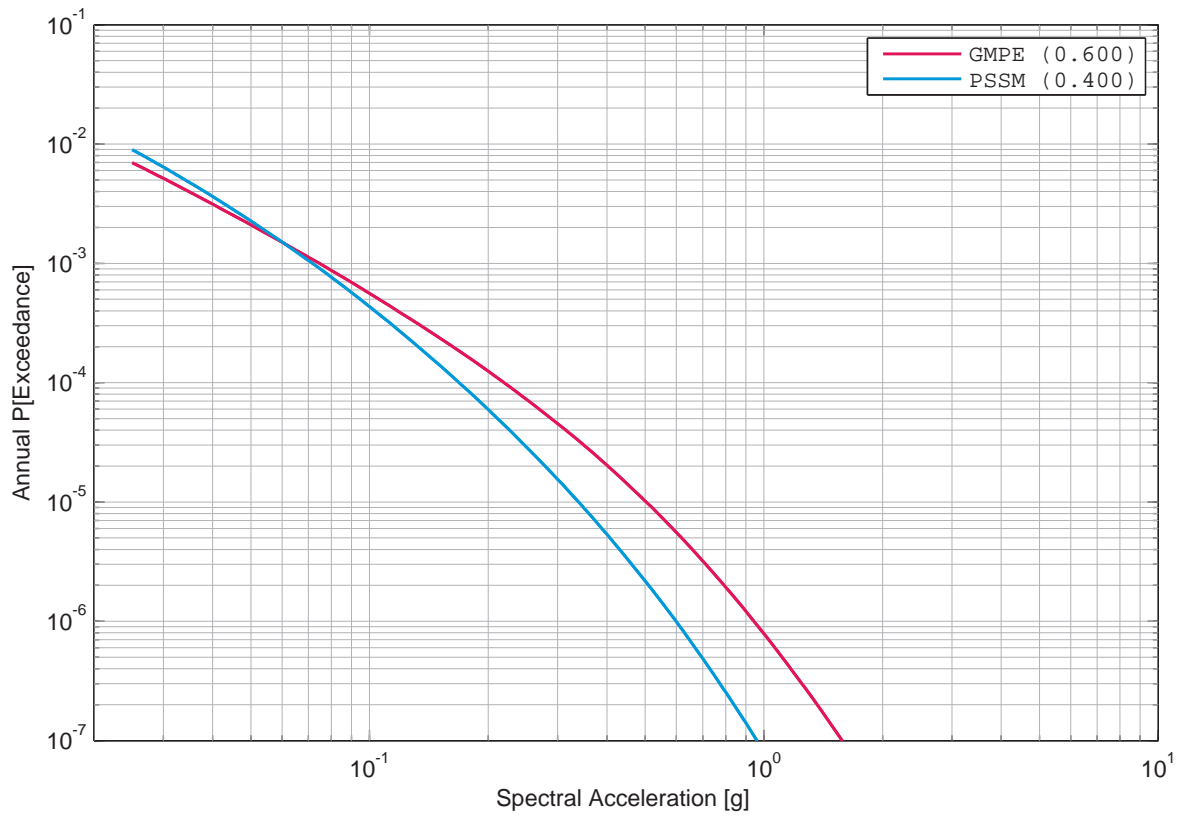


Figure 5.9.13: Mühleberg, horizontal component, rock, Faeh's sensitivity to the model category, 1 Hz.

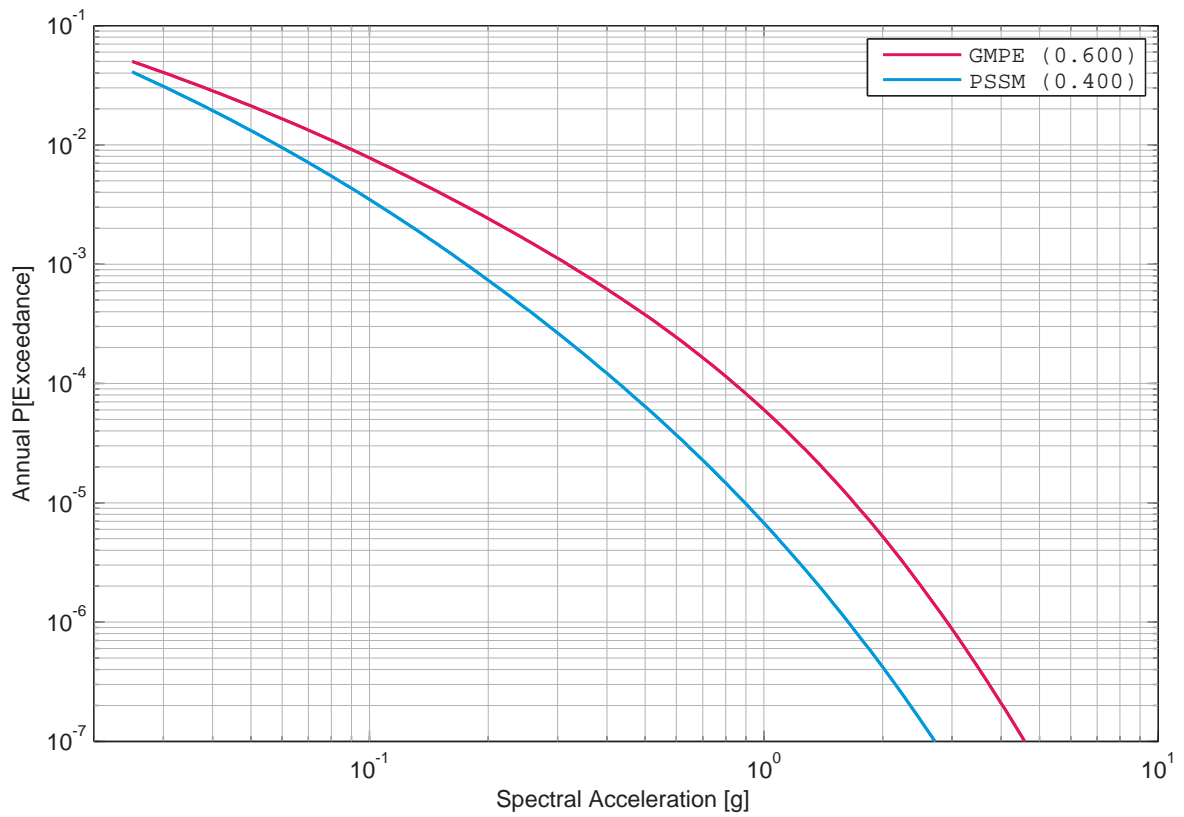


Figure 5.9.14: Mühleberg, horizontal component, rock, Faeh's sensitivity to the model category, 5 Hz.

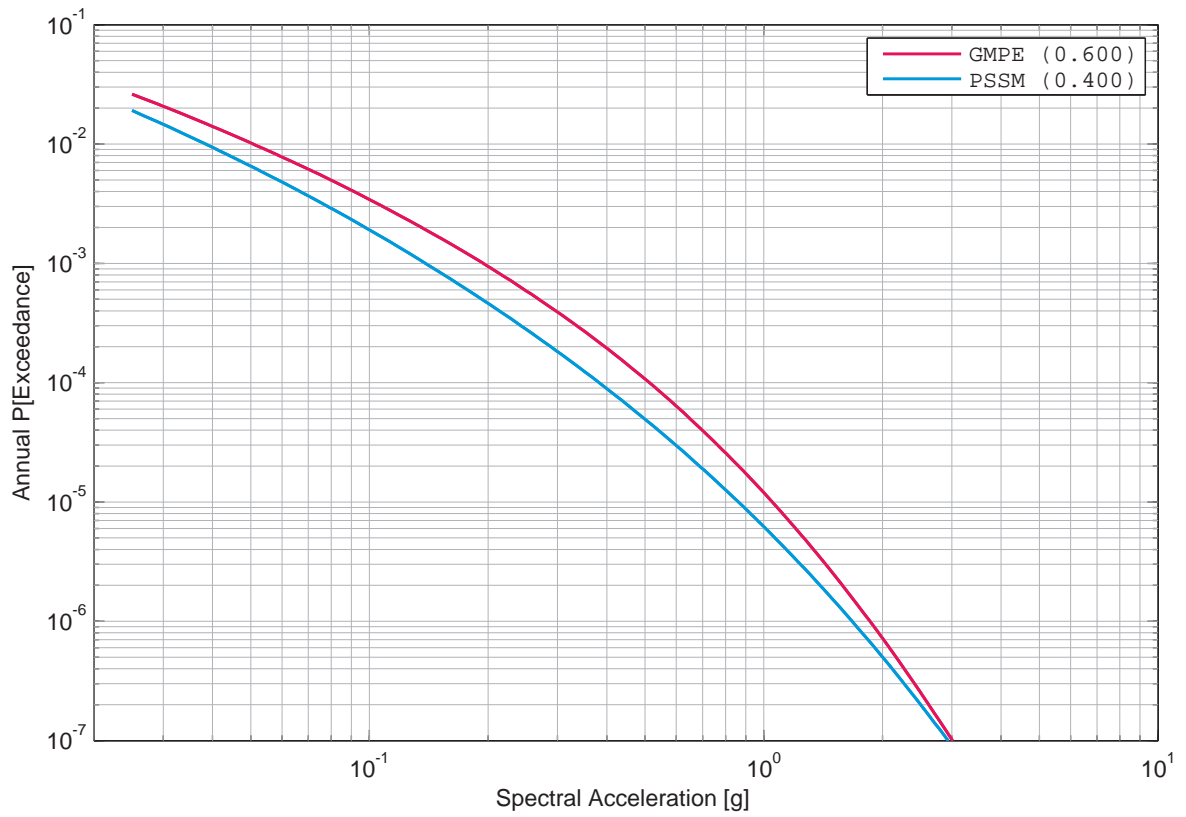


Figure 5.9.15: Mühleberg, horizontal component, rock, Faeh’s sensitivity to the model category, 33 Hz.

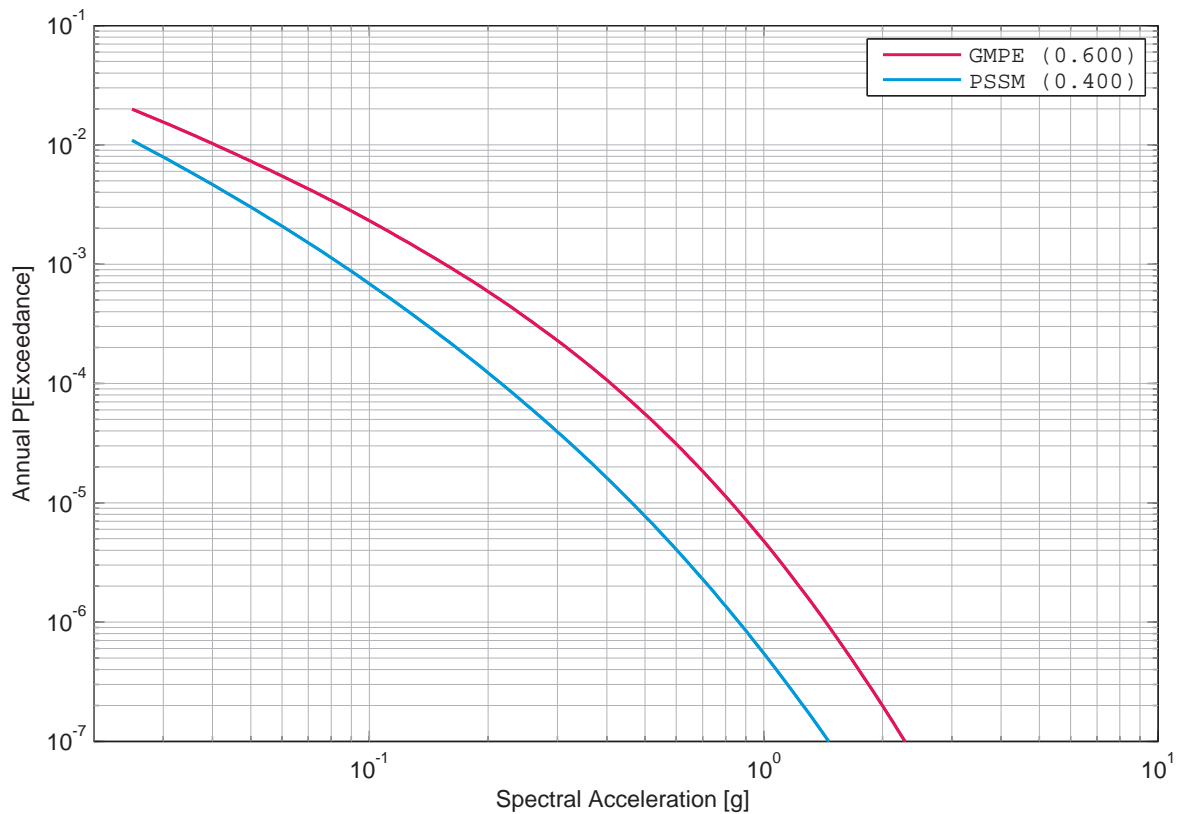


Figure 5.9.16: Mühleberg, horizontal component, rock, Faeh’s sensitivity to the model category, 100 Hz.

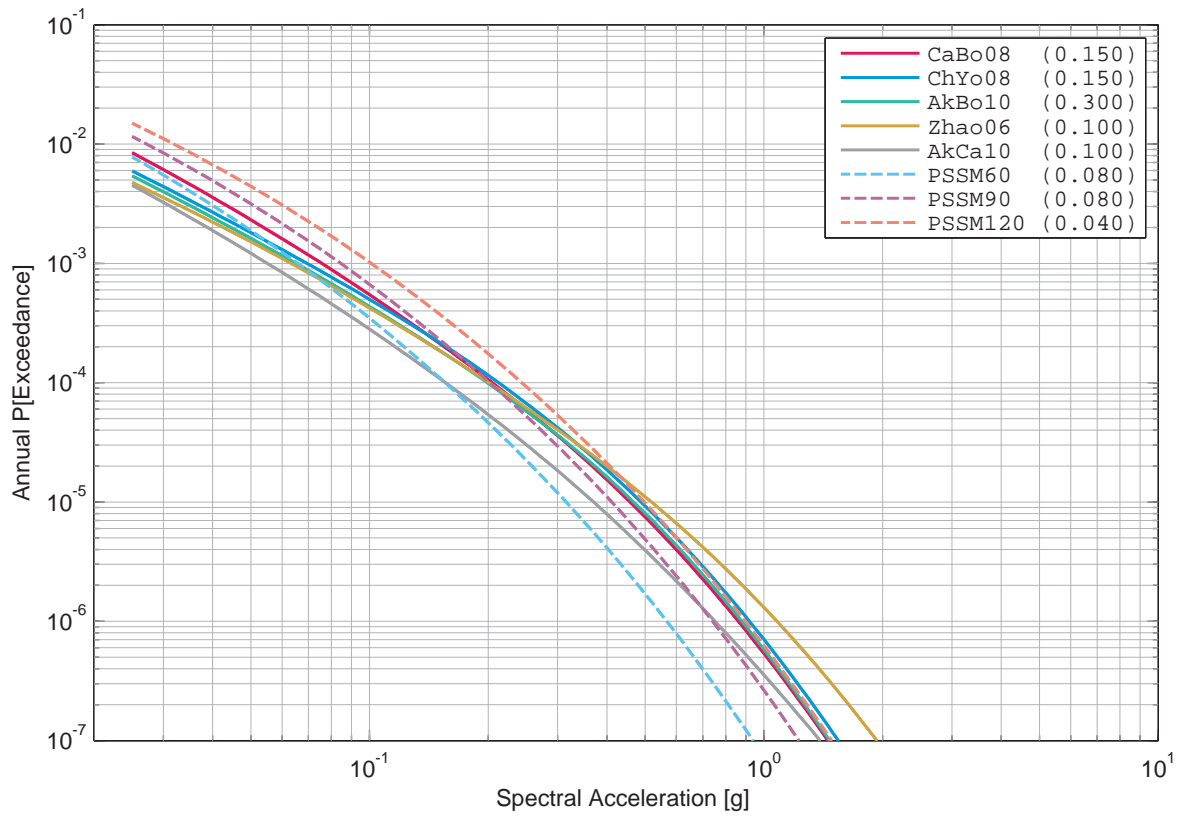


Figure 5.9.17: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the model, 1 Hz.

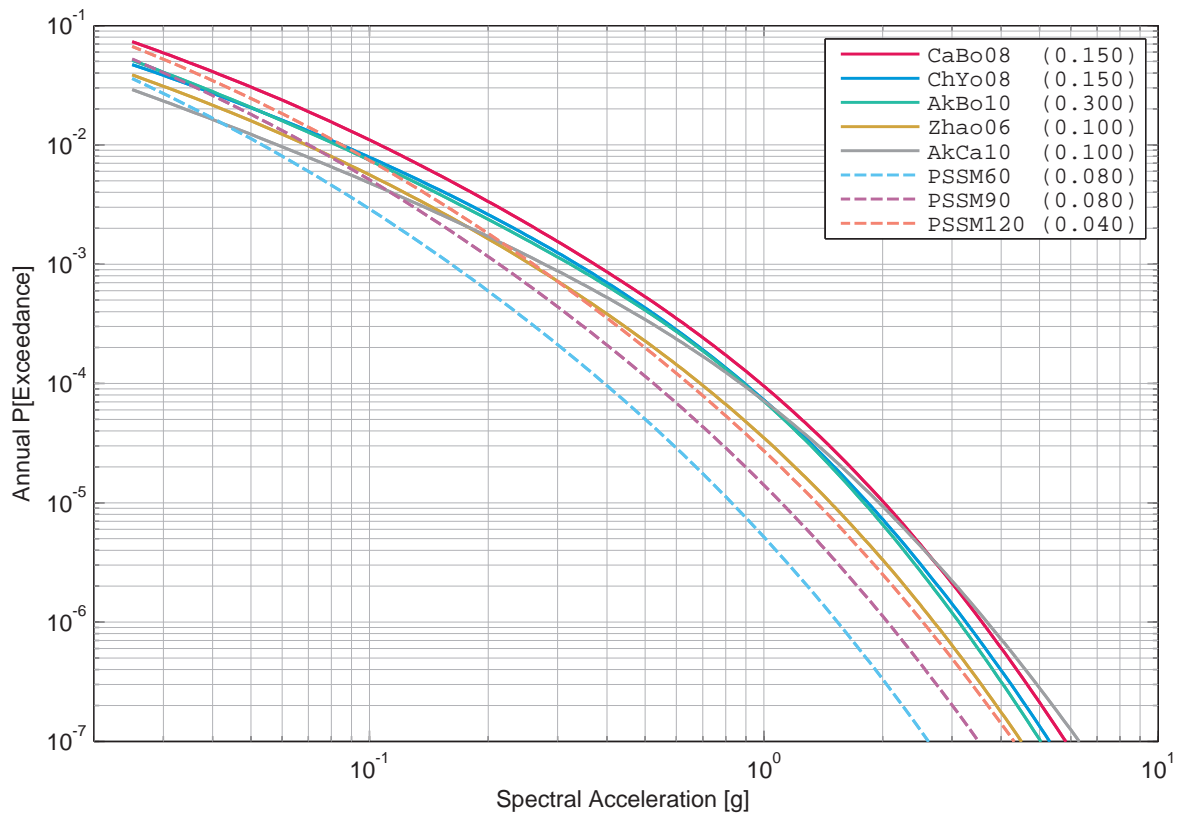


Figure 5.9.18: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the model, 5 Hz.

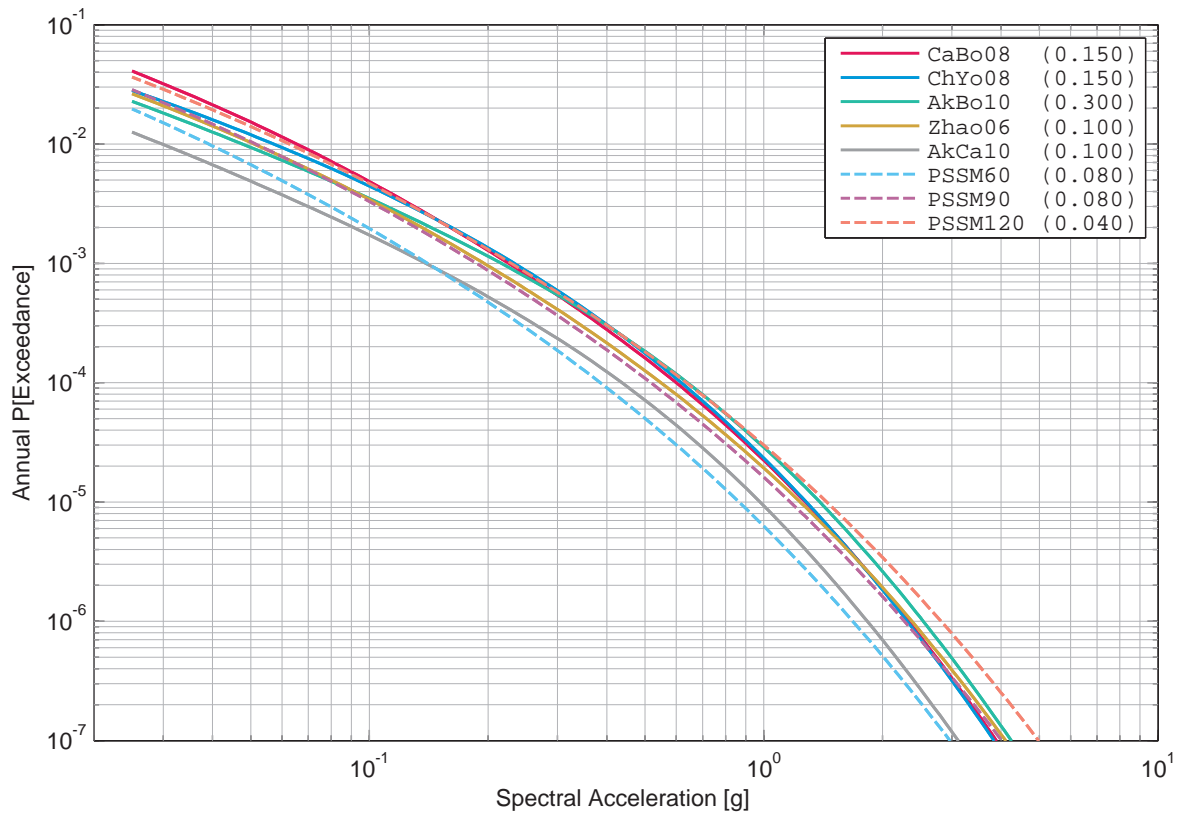


Figure 5.9.19: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the model, 33 Hz.

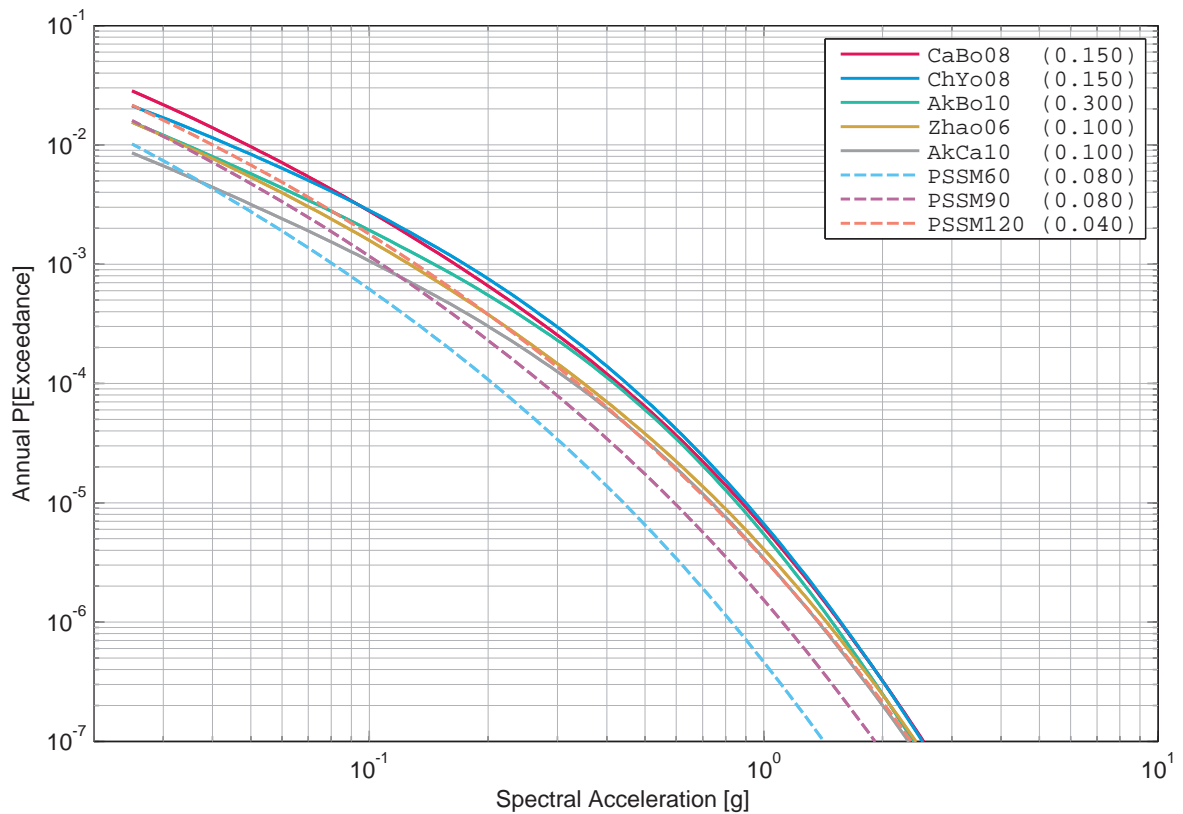


Figure 5.9.20: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the model, 100 Hz.

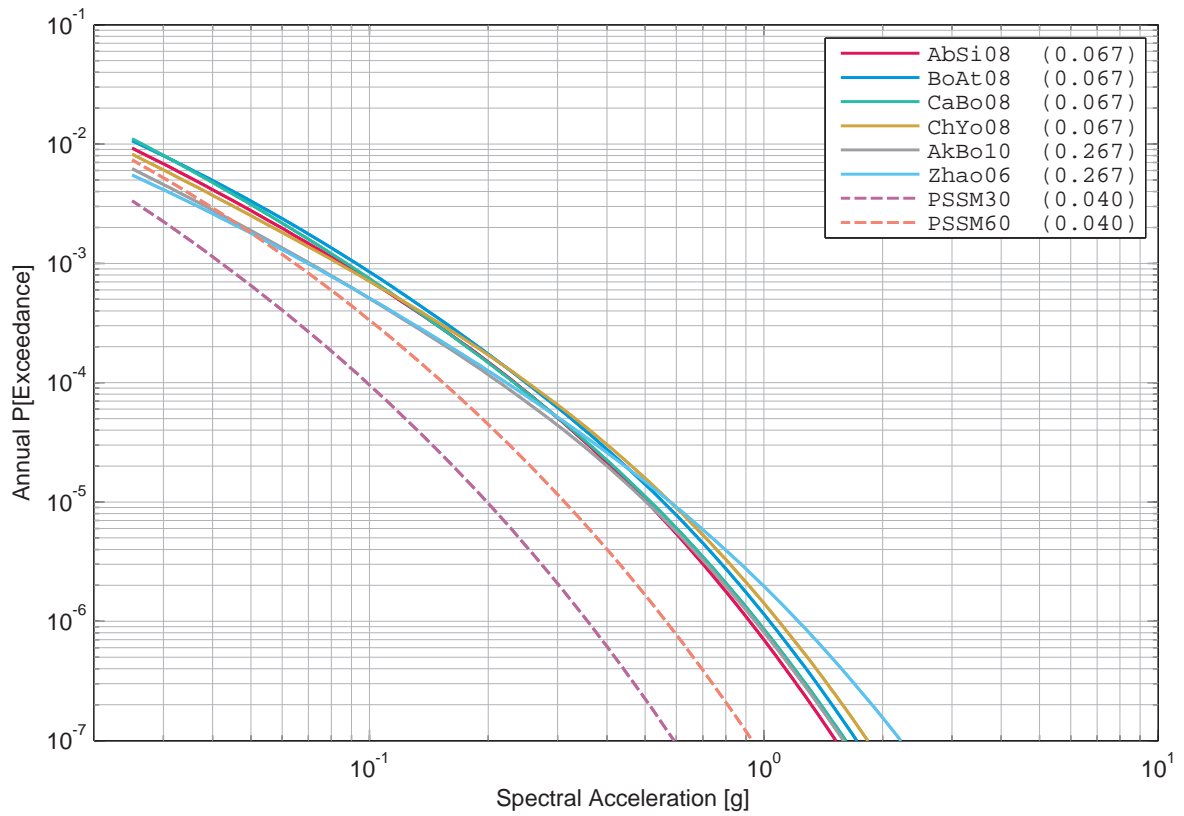


Figure 5.9.21: Mühleberg, horizontal component, rock, Campbell's sensitivity to the model, 1 Hz.

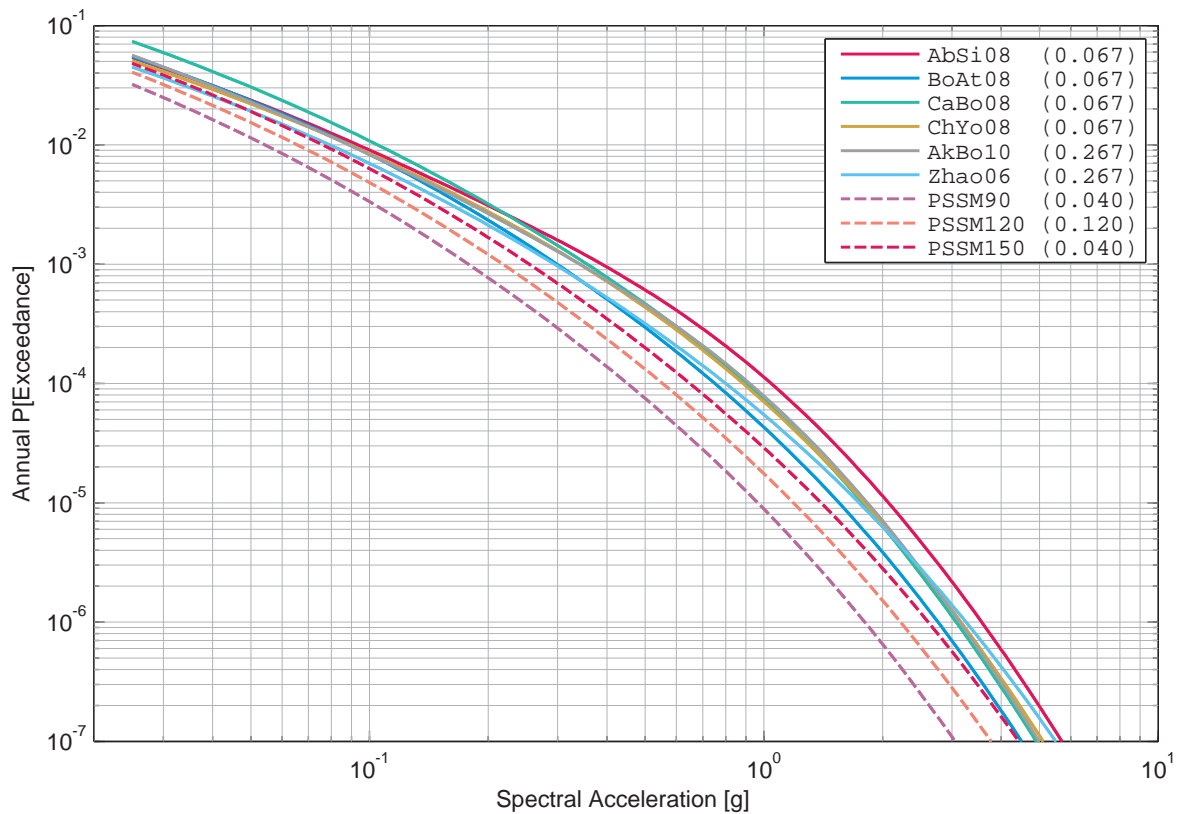


Figure 5.9.22: Mühleberg, horizontal component, rock, Campbell's sensitivity to the model, 5 Hz.

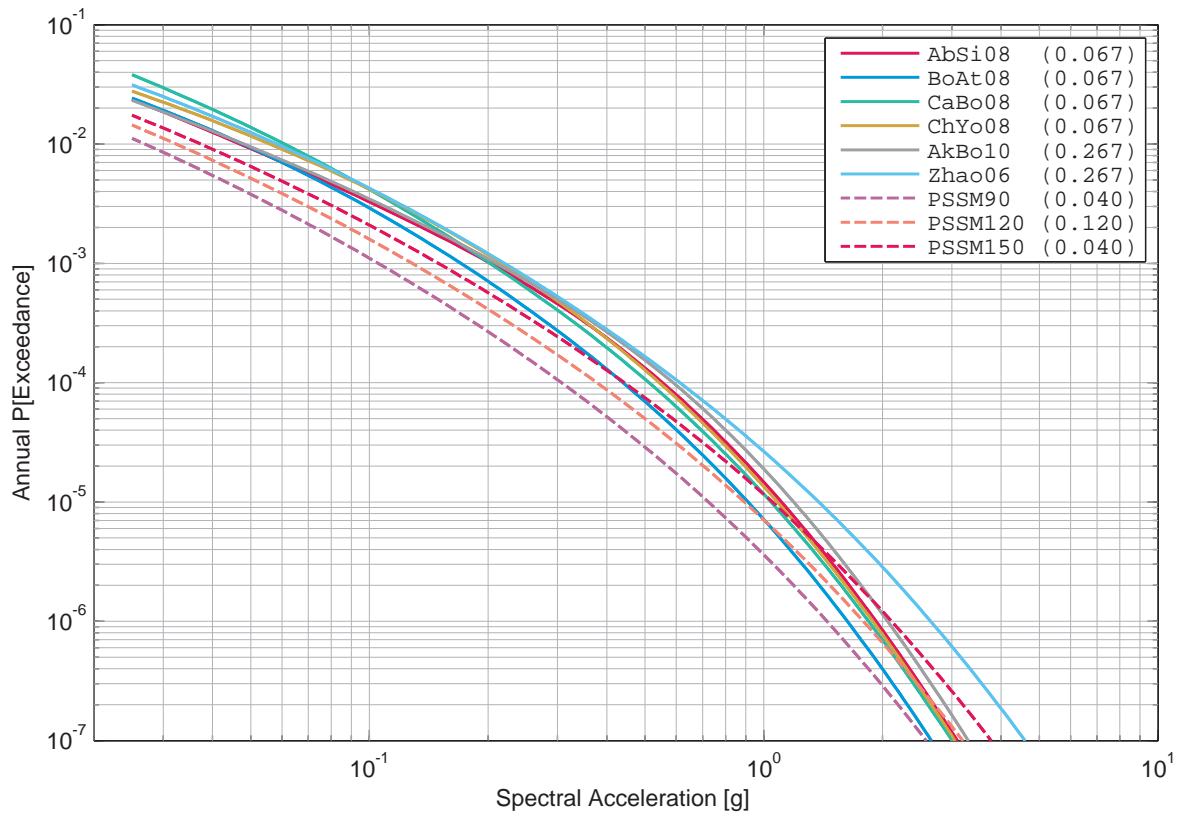


Figure 5.9.23: Mühleberg, horizontal component, rock, Campbell's sensitivity to the model, 33 Hz.

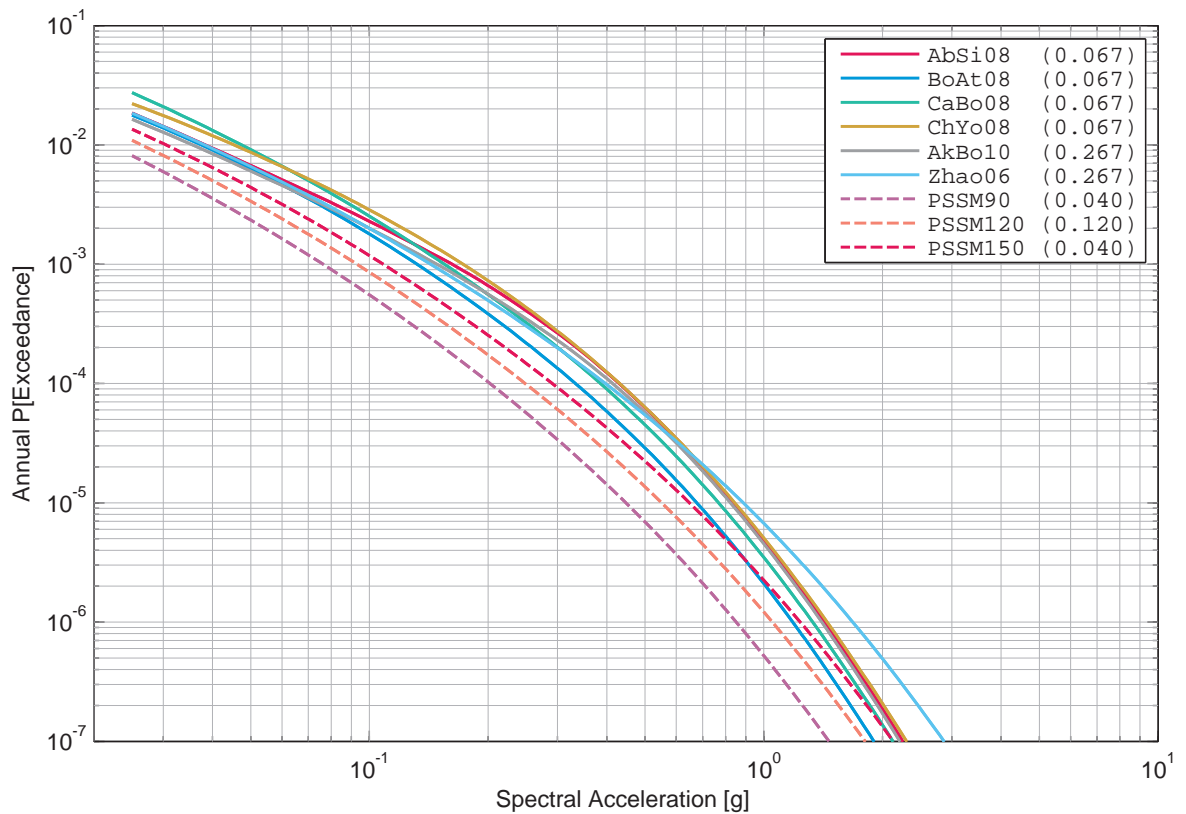


Figure 5.9.24: Mühleberg, horizontal component, rock, Campbell's sensitivity to the model, 100 Hz.

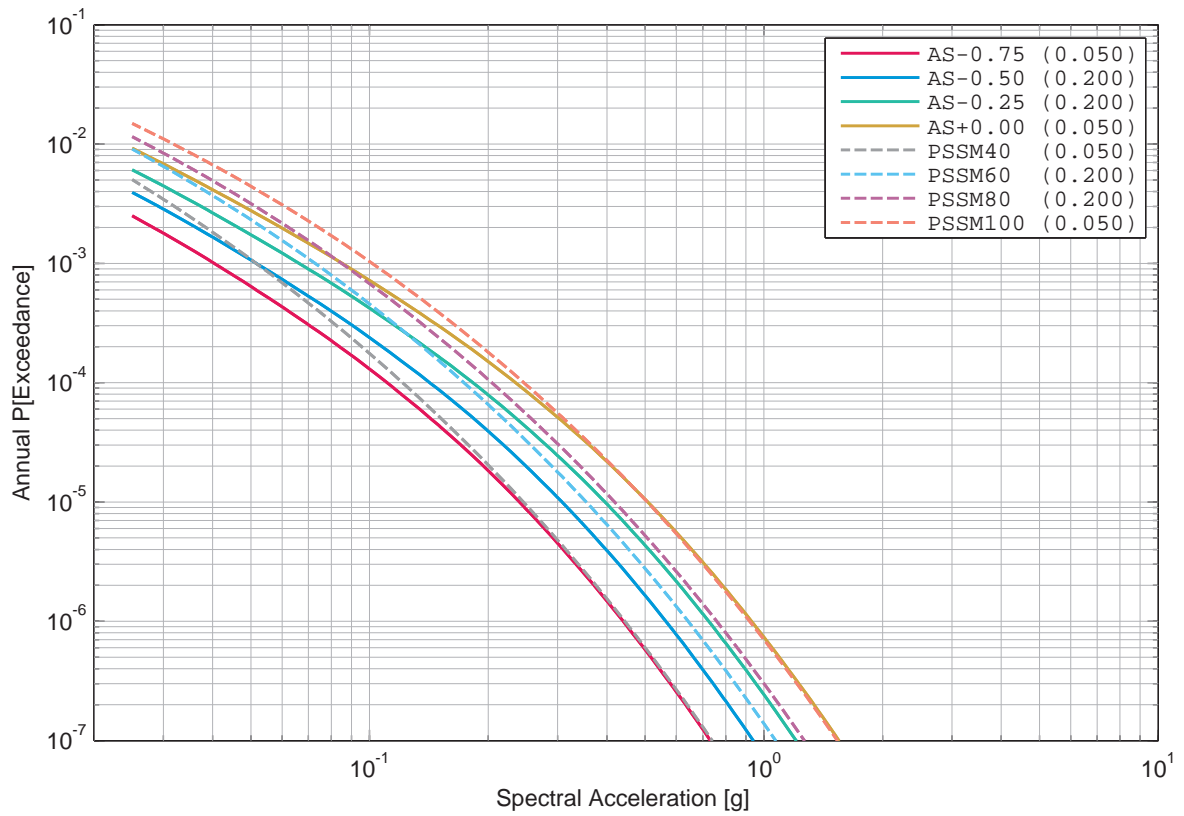


Figure 5.9.25: Mühleberg, horizontal component, rock, Cotton's sensitivity to the model, 1 Hz.

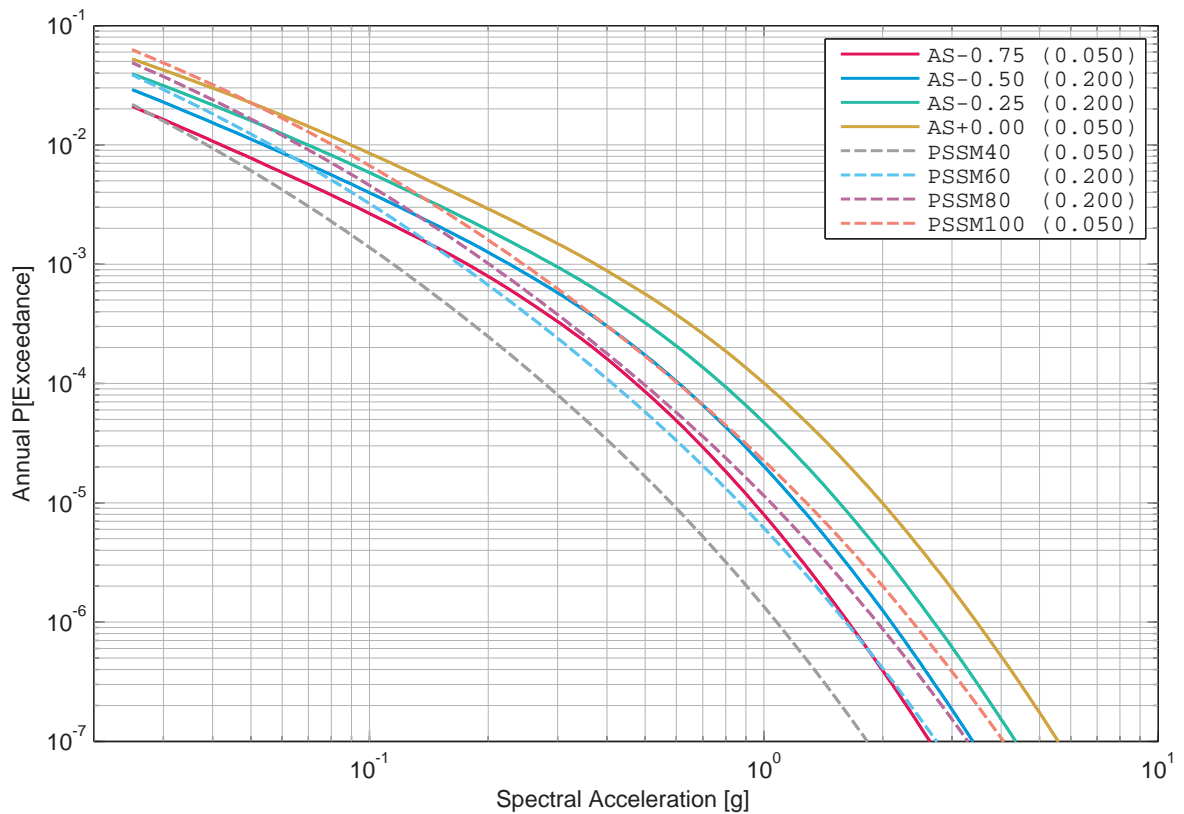


Figure 5.9.26: Mühleberg, horizontal component, rock, Cotton's sensitivity to the model, 5 Hz.

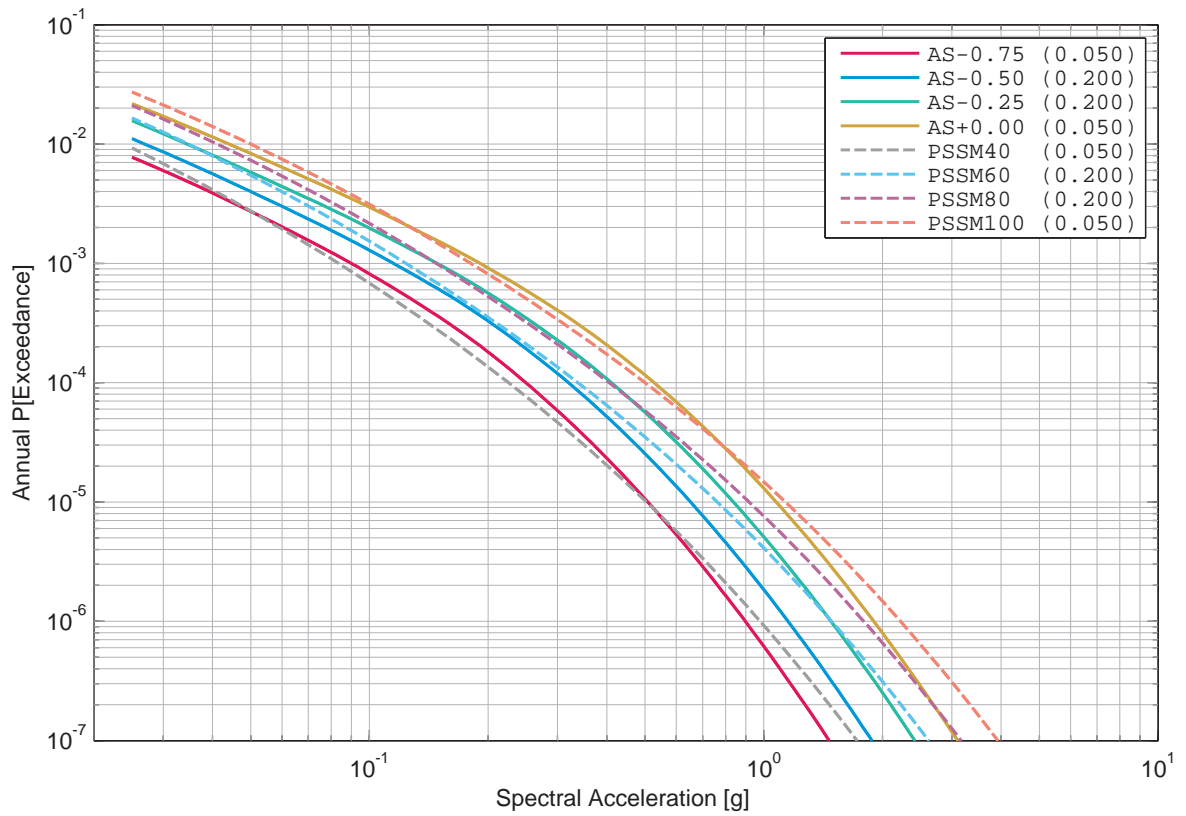


Figure 5.9.27: Mühleberg, horizontal component, rock, Cotton’s sensitivity to the model, 33 Hz.

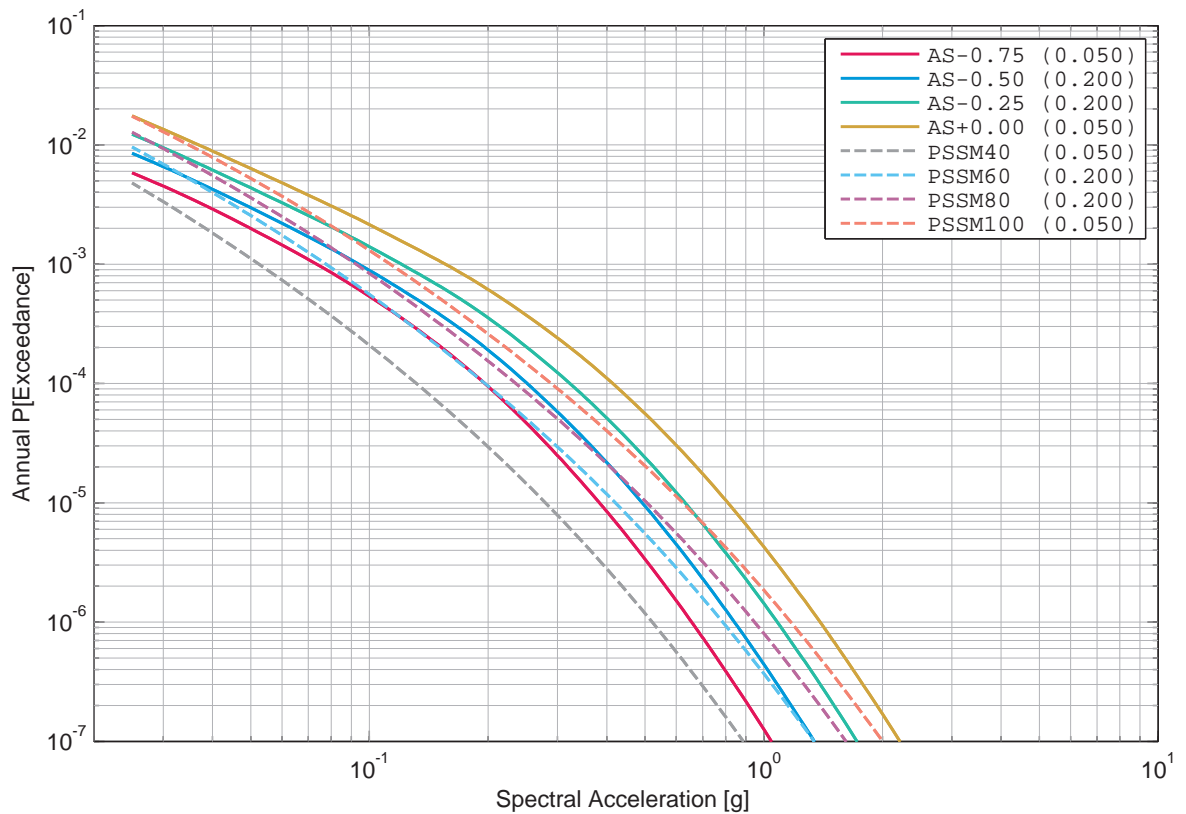


Figure 5.9.28: Mühleberg, horizontal component, rock, Cotton’s sensitivity to the model, 100 Hz.

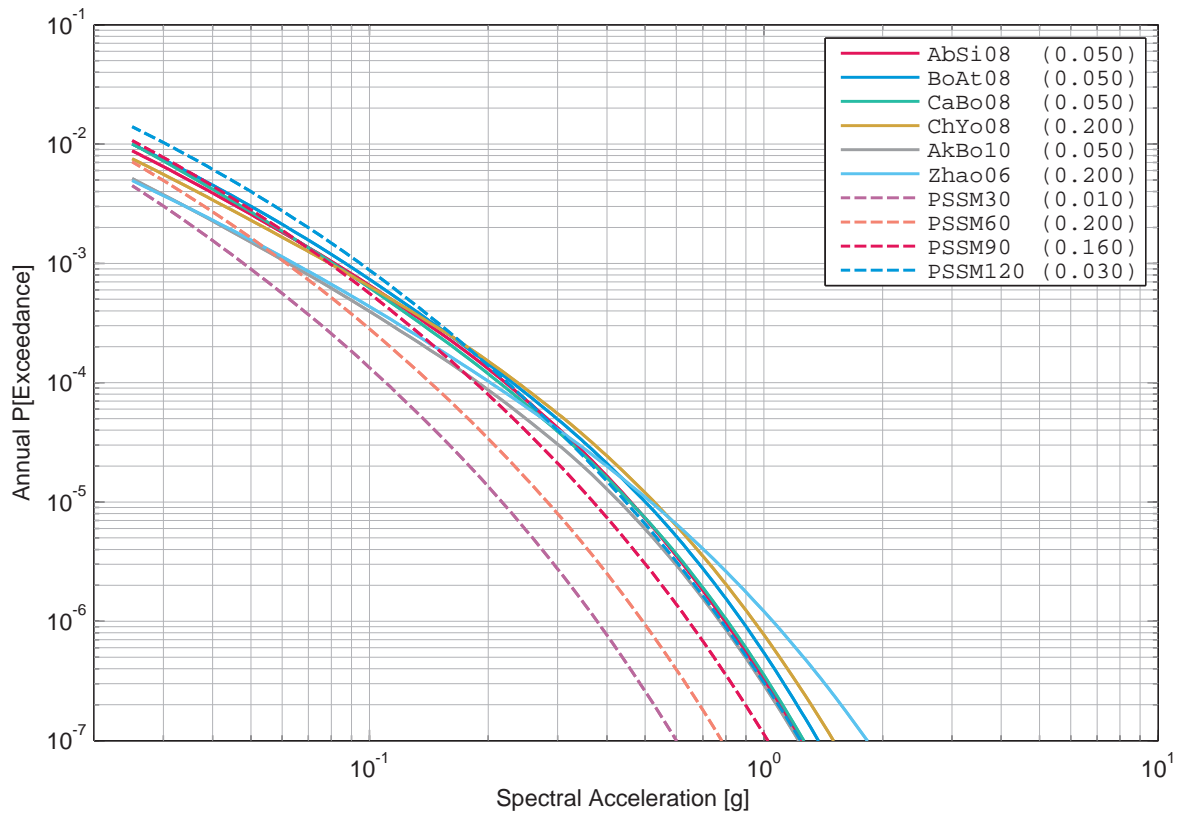


Figure 5.9.29: Mühleberg, horizontal component, rock, Faeh's sensitivity to the model, 1 Hz.

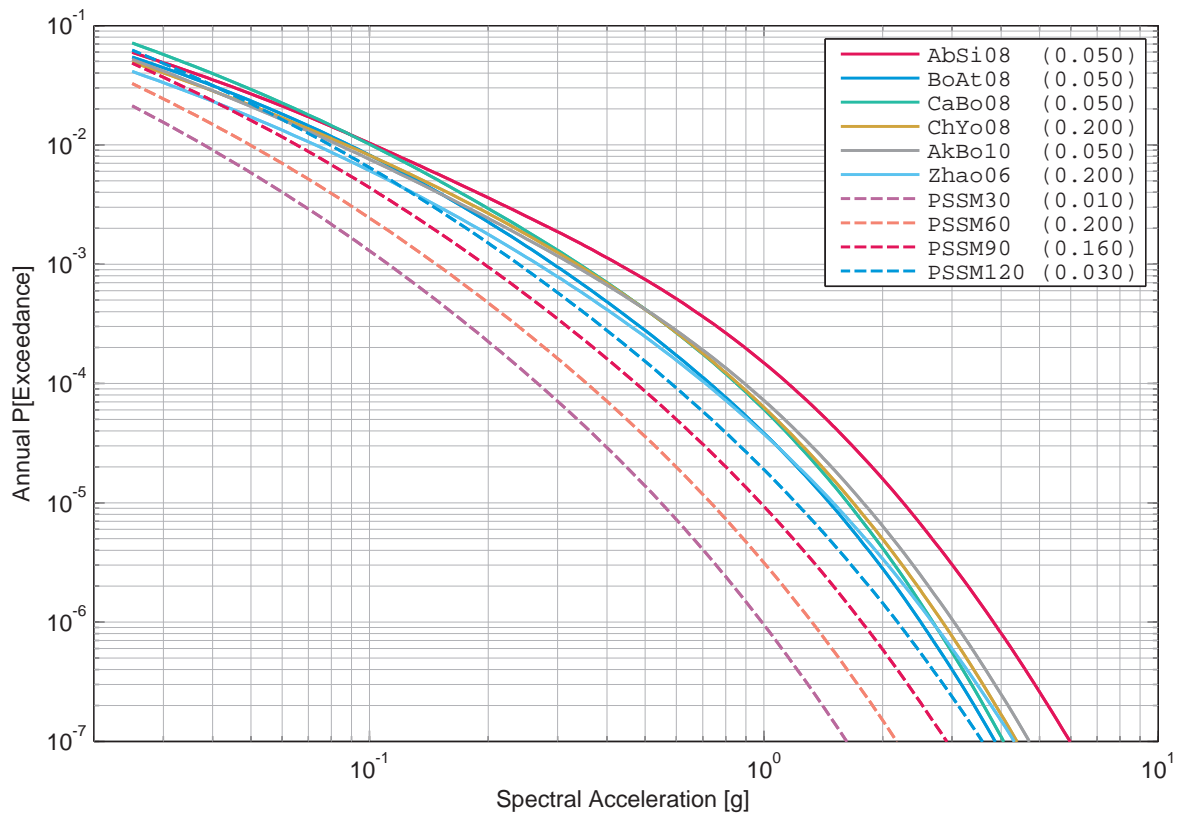


Figure 5.9.30: Mühleberg, horizontal component, rock, Faeh's sensitivity to the model, 5 Hz.

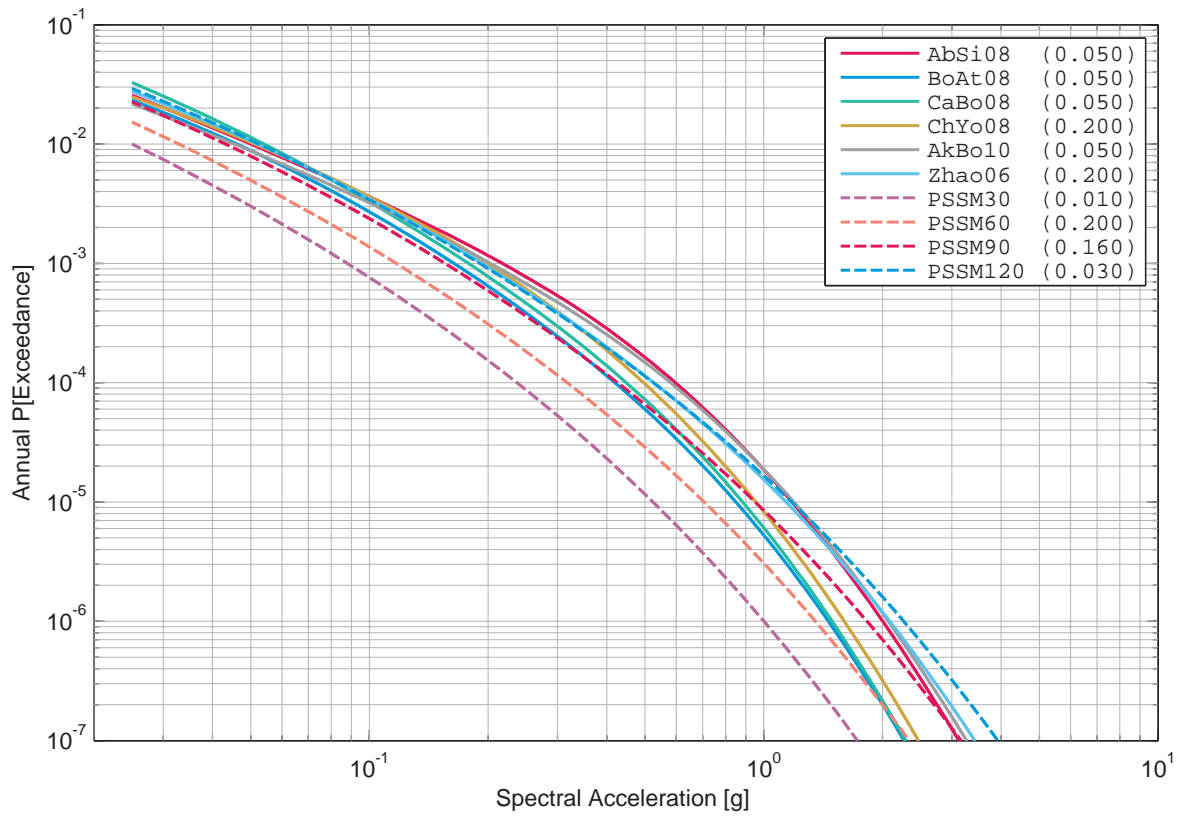


Figure 5.9.31: Mühleberg, horizontal component, rock, Faeh’s sensitivity to the model, 33 Hz.

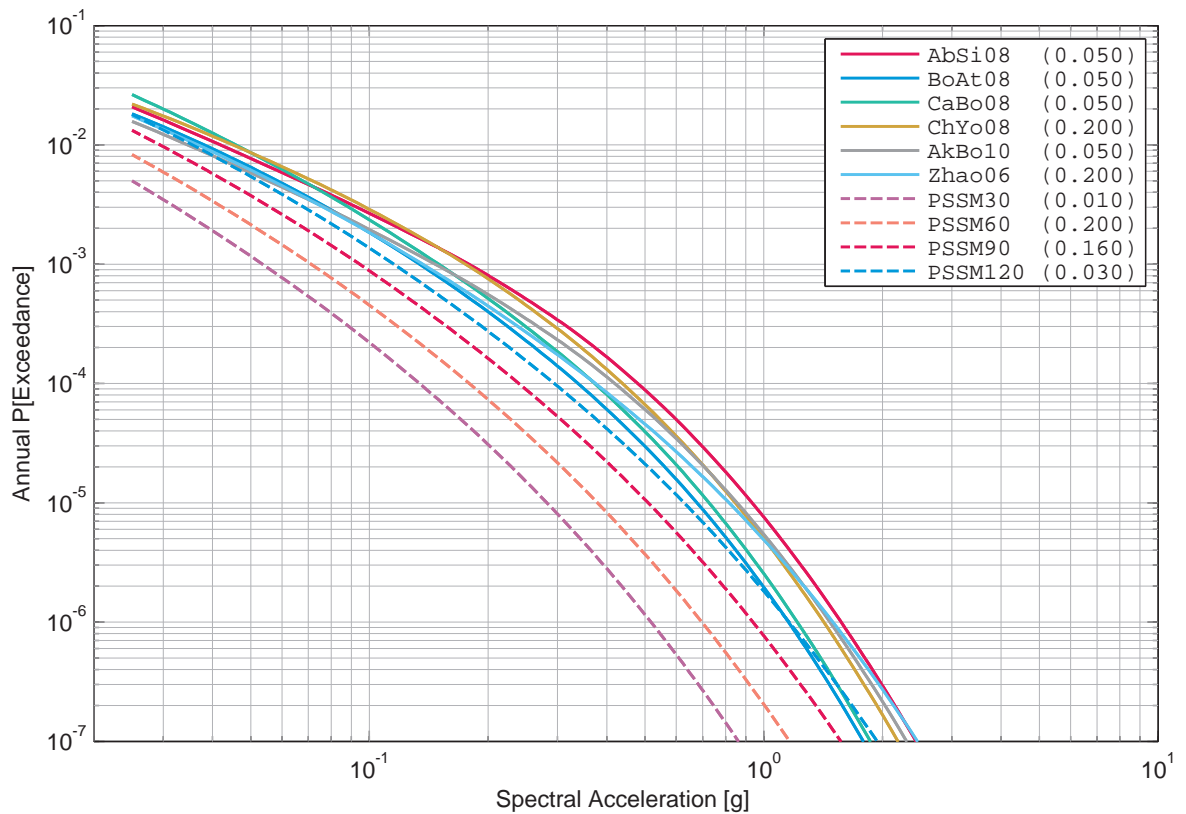


Figure 5.9.32: Mühleberg, horizontal component, rock, Faeh’s sensitivity to the model, 100 Hz.

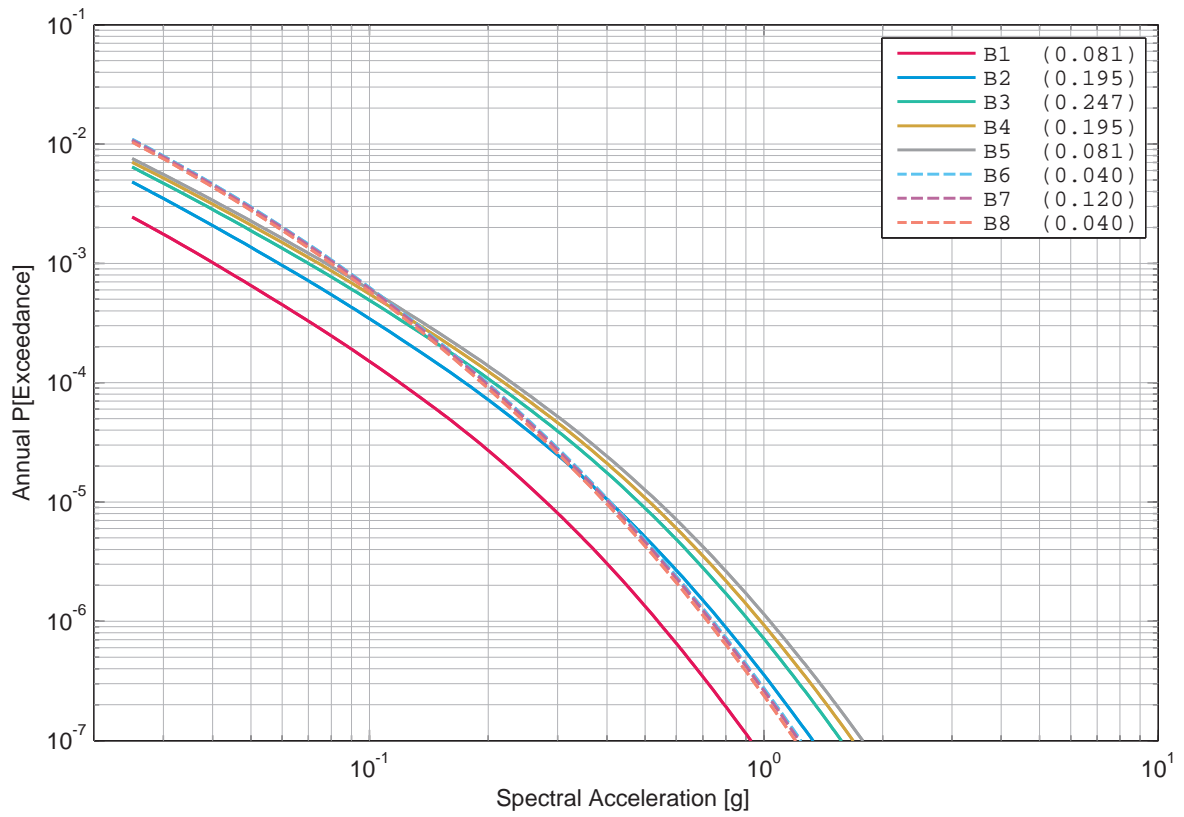


Figure 5.9.33: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the Vs-kappa correction, 1 Hz.

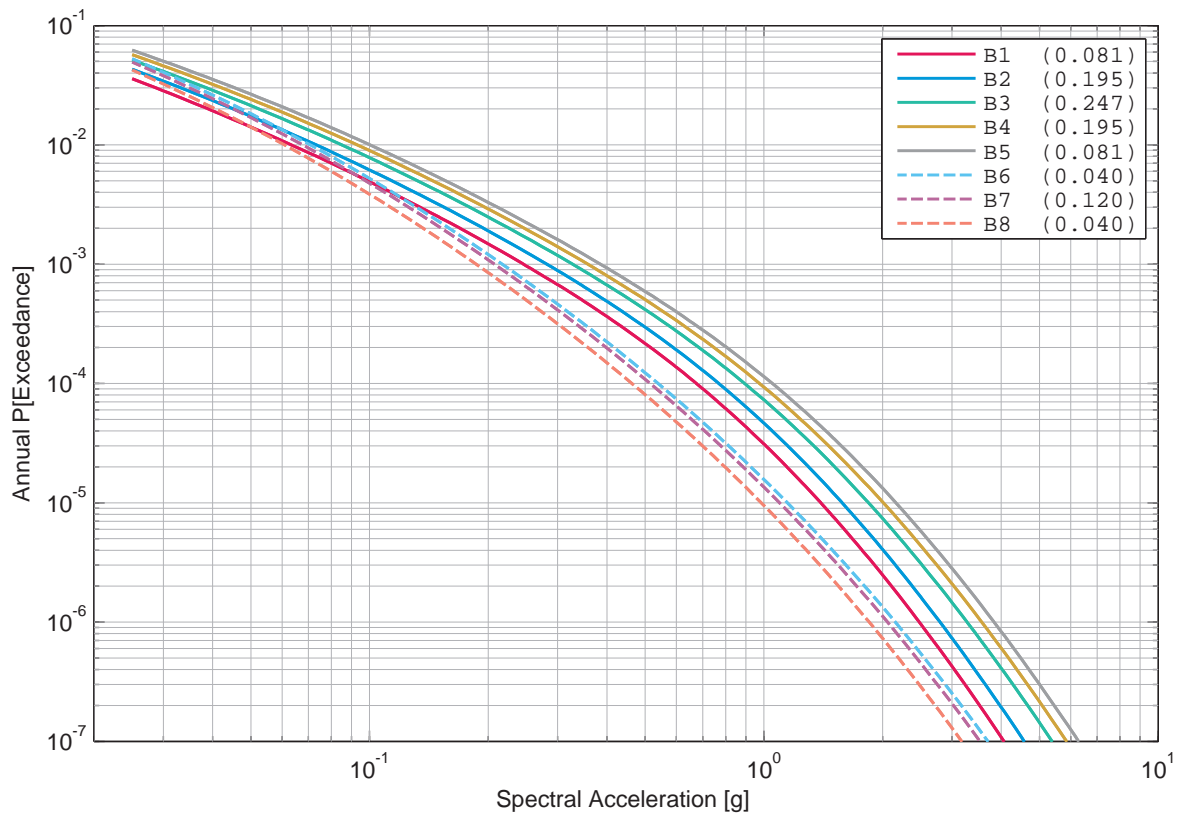


Figure 5.9.34: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the Vs-kappa correction, 5 Hz.

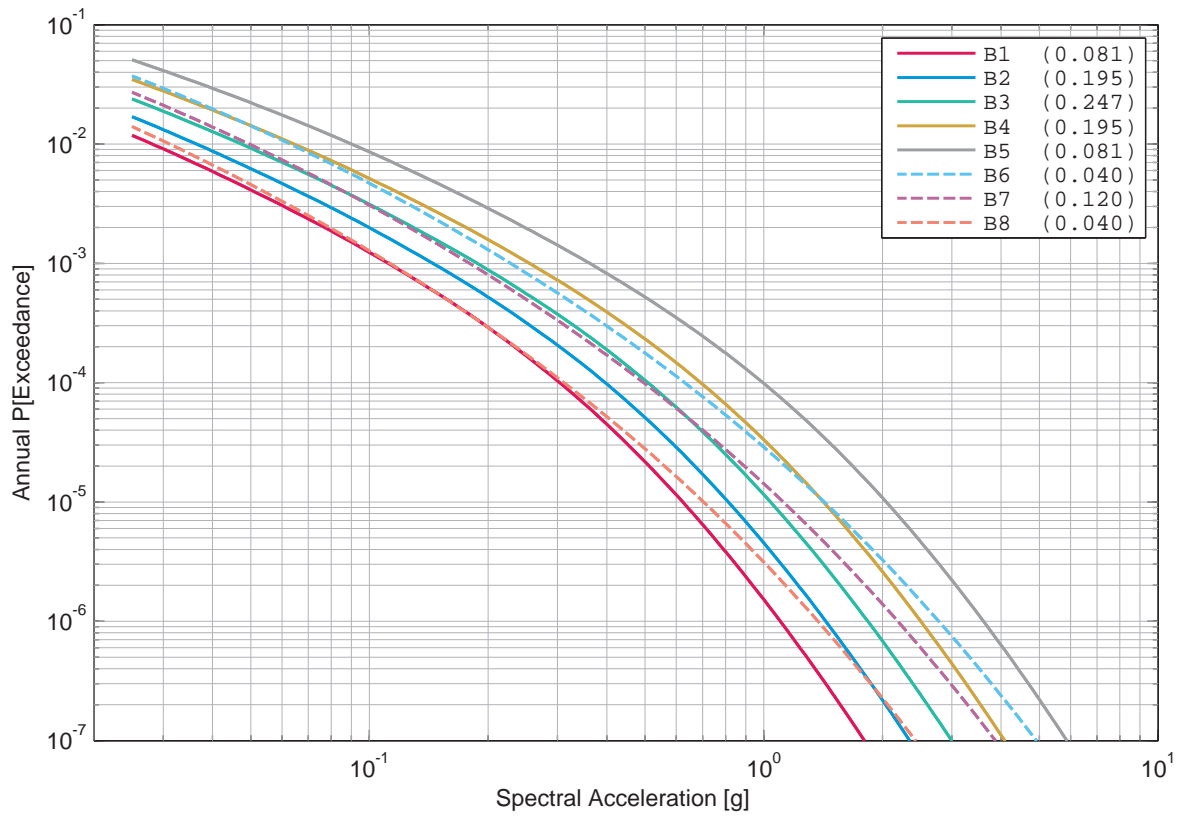


Figure 5.9.35: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the Vs-kappa correction, 33 Hz.

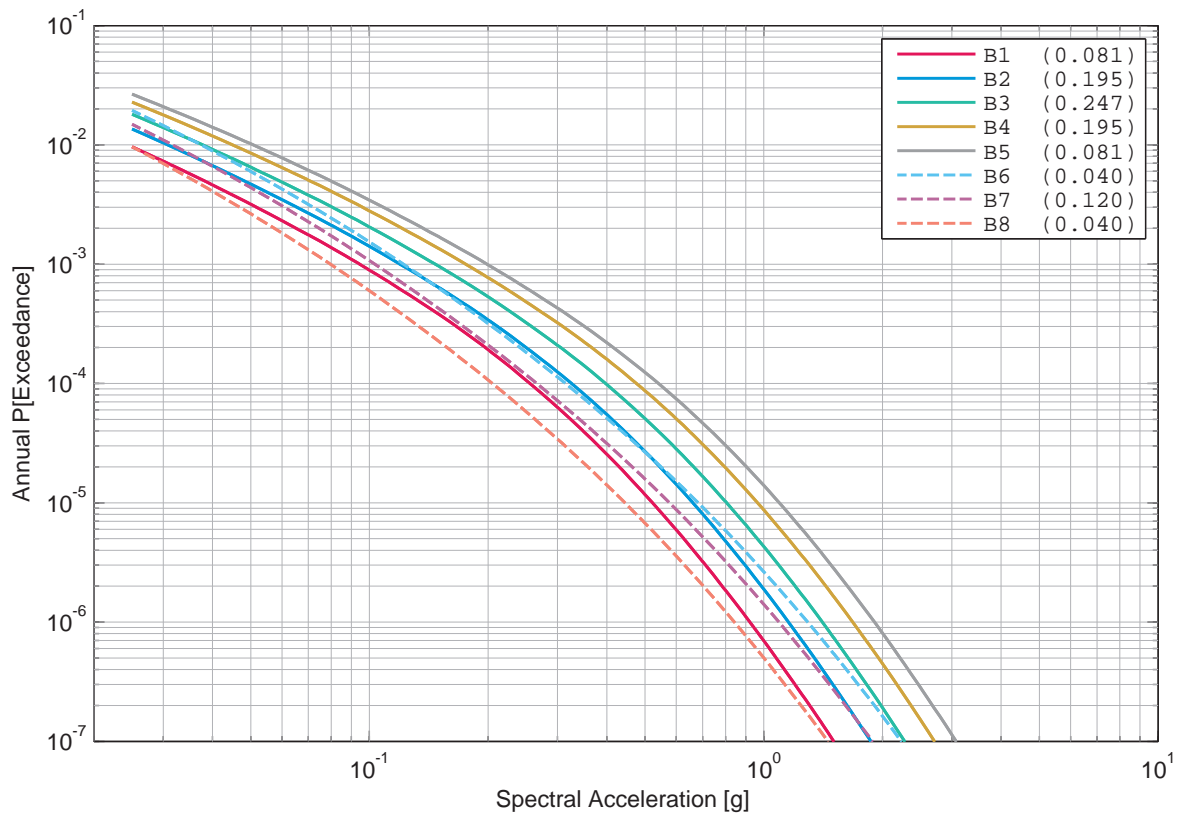


Figure 5.9.36: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the Vs-kappa correction, 100 Hz.

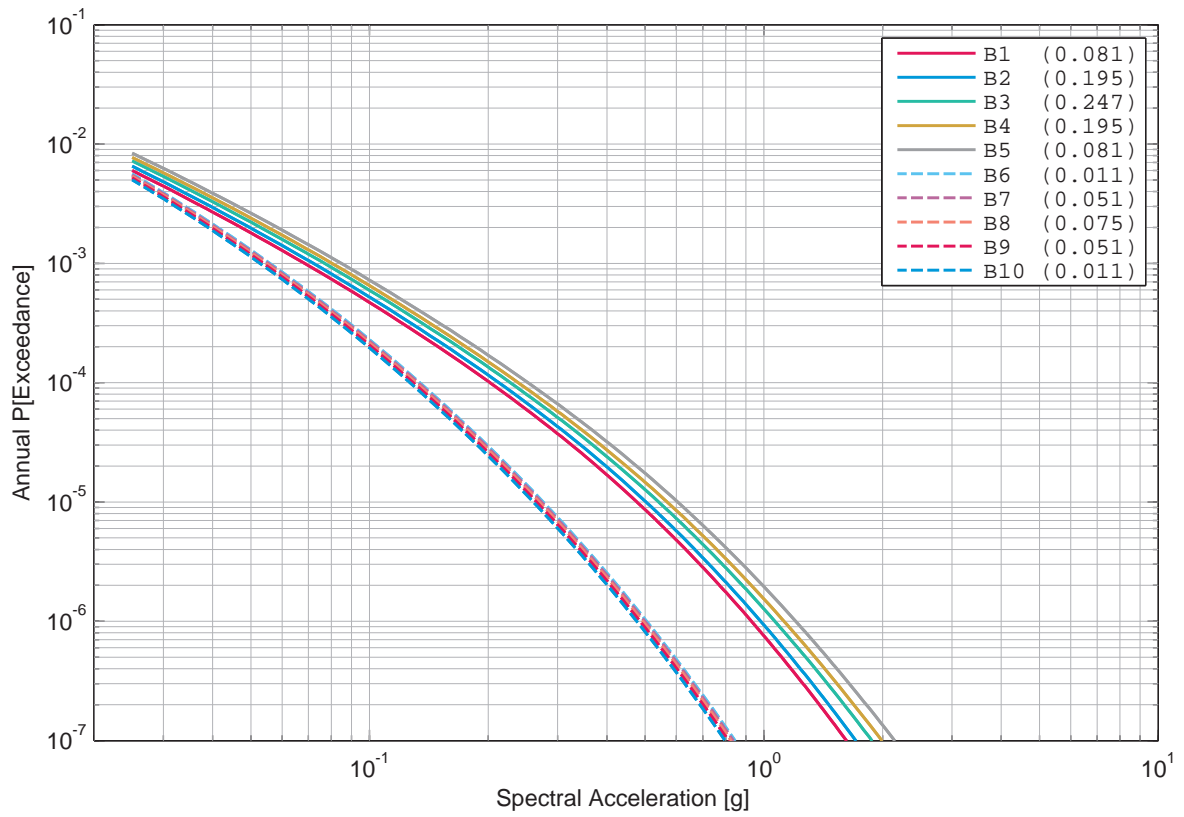


Figure 5.9.37: Mühleberg, horizontal component, rock, Campbell's sensitivity to the Vs-kappa correction, 1 Hz.

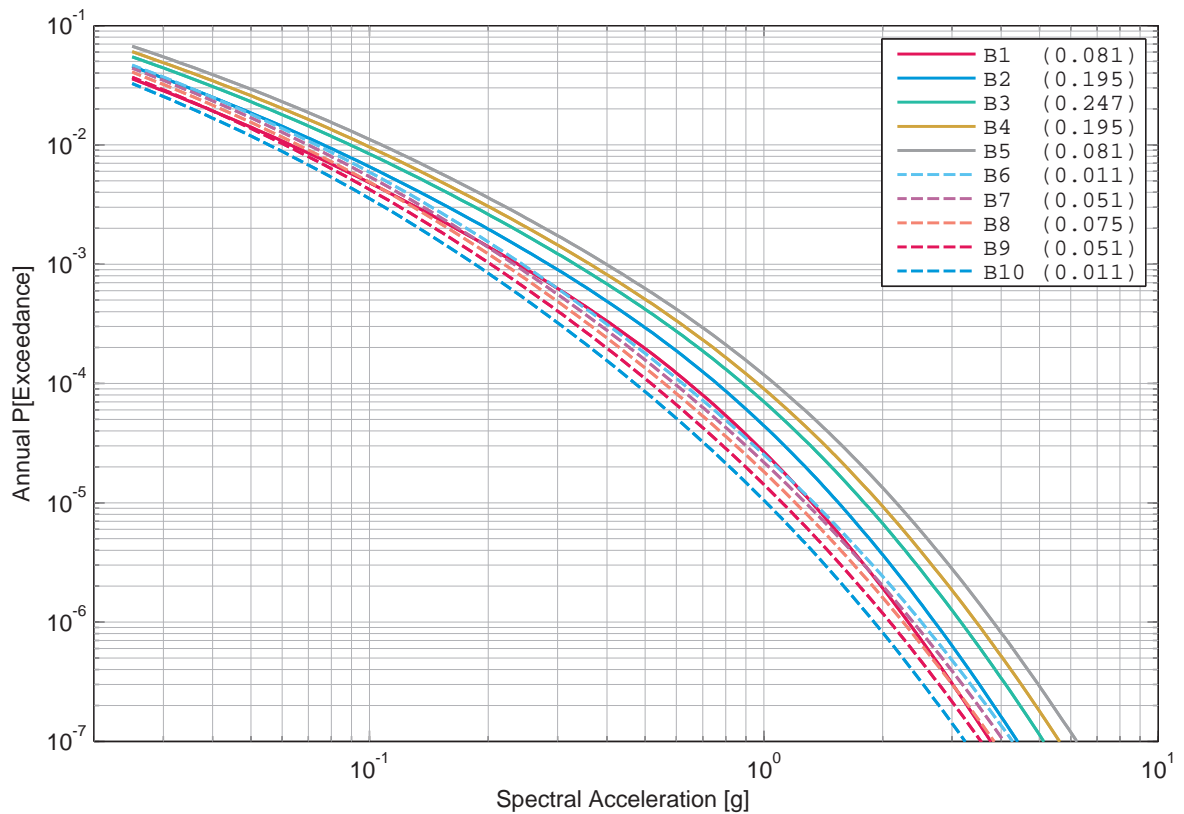


Figure 5.9.38: Mühleberg, horizontal component, rock, Campbell's sensitivity to the Vs-kappa correction, 5 Hz.

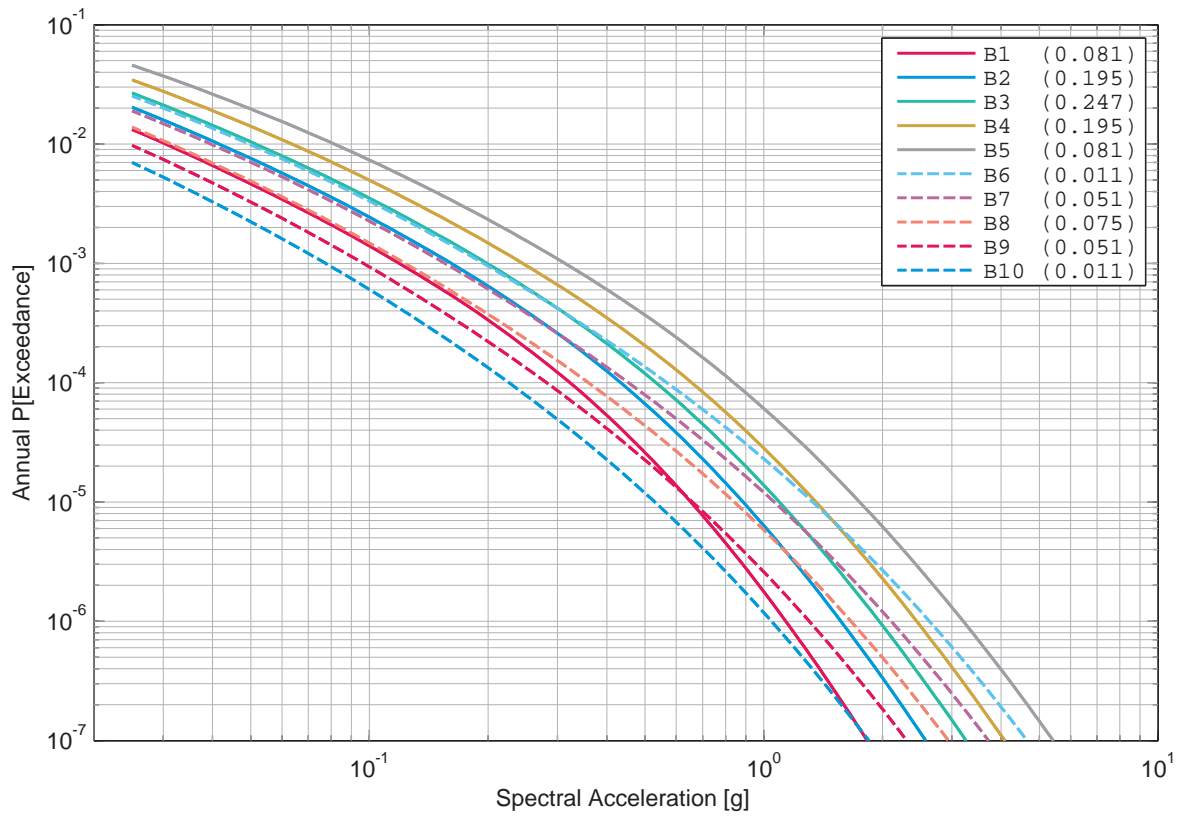


Figure 5.9.39: Mühleberg, horizontal component, rock, Campbell's sensitivity to the Vs-kappa correction, 33 Hz.

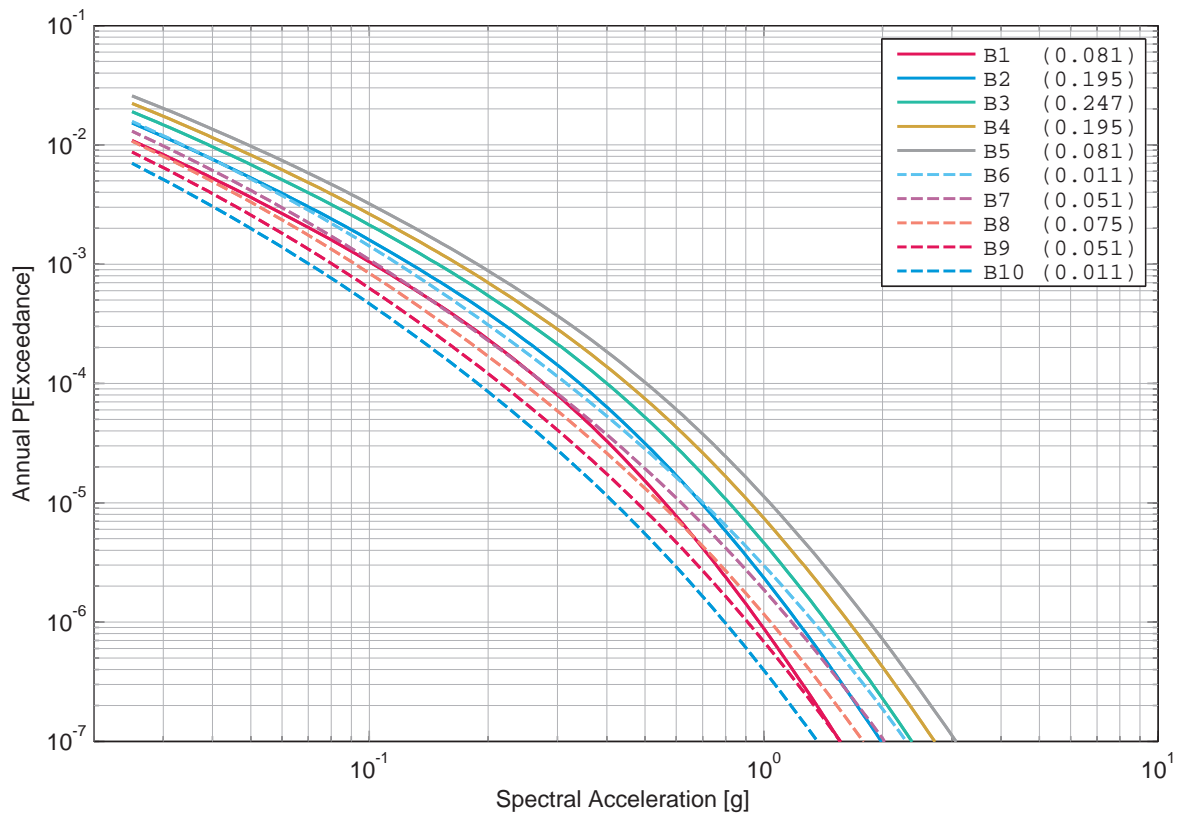


Figure 5.9.40: Mühleberg, horizontal component, rock, Campbell's sensitivity to the Vs-kappa correction, 100 Hz.

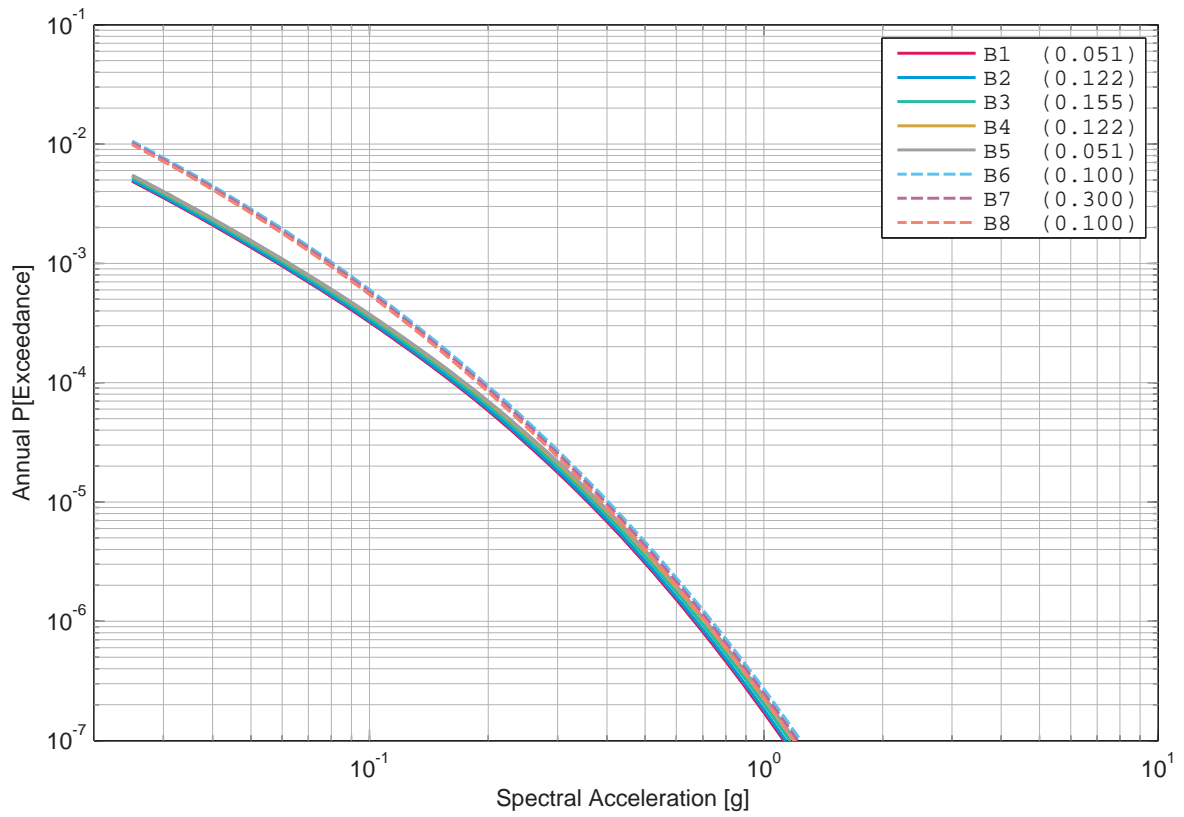


Figure 5.9.41: Mühleberg, horizontal component, rock, Cotton’s sensitivity to the Vs-kappa correction, 1 Hz.

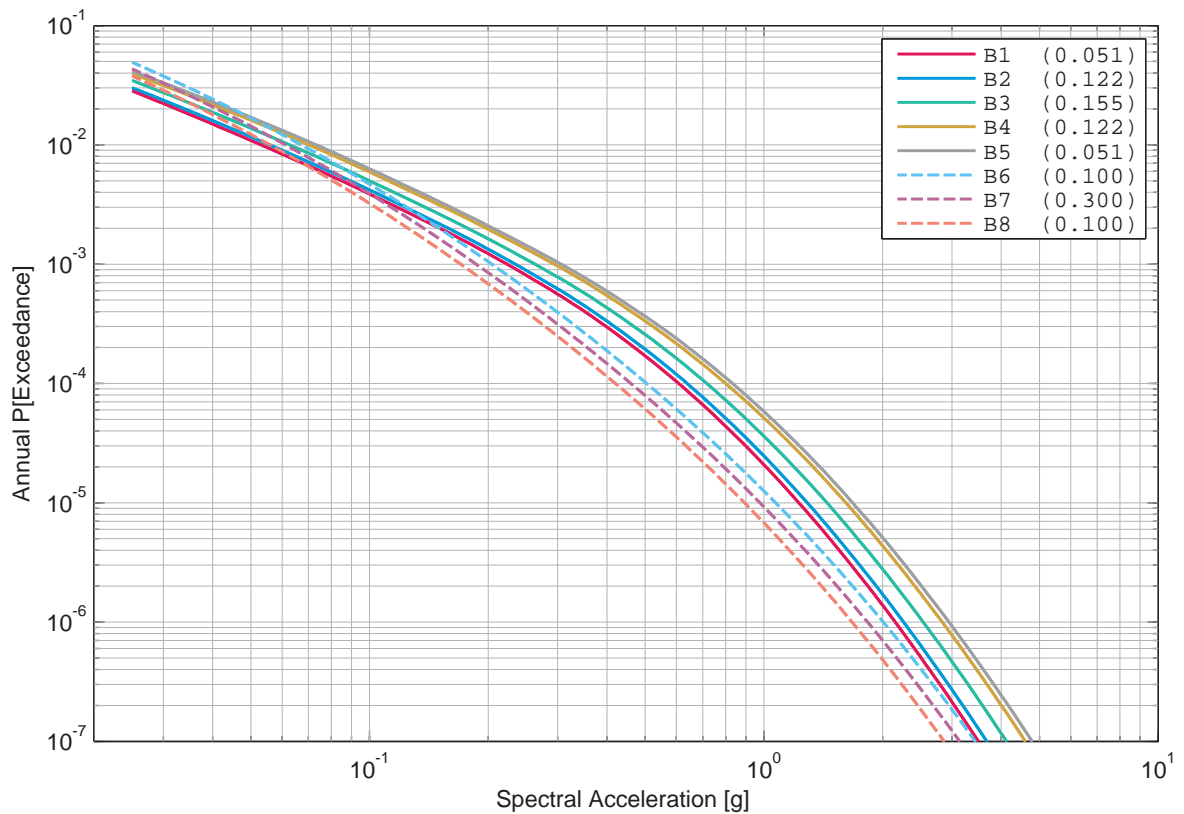


Figure 5.9.42: Mühleberg, horizontal component, rock, Cotton’s sensitivity to the Vs-kappa correction, 5 Hz.

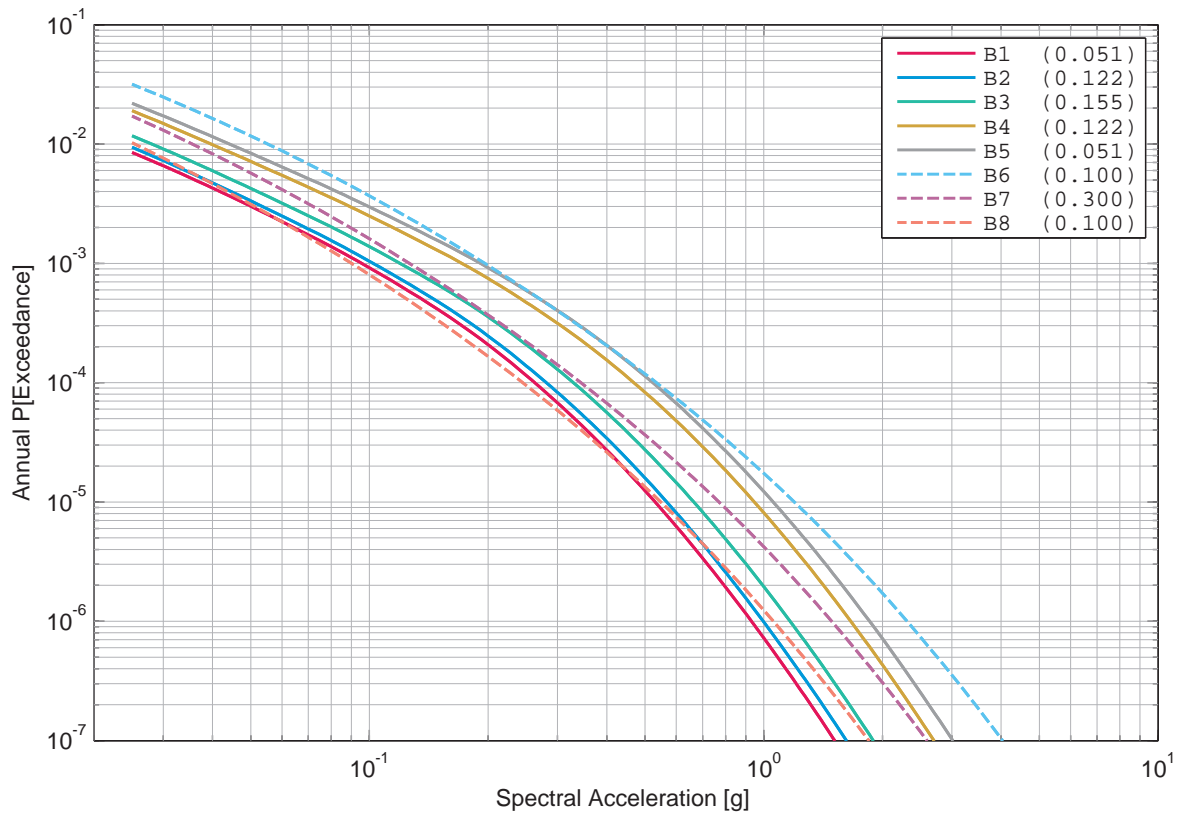


Figure 5.9.43: Mühleberg, horizontal component, rock, Cotton's sensitivity to the Vs-kappa correction, 33 Hz.

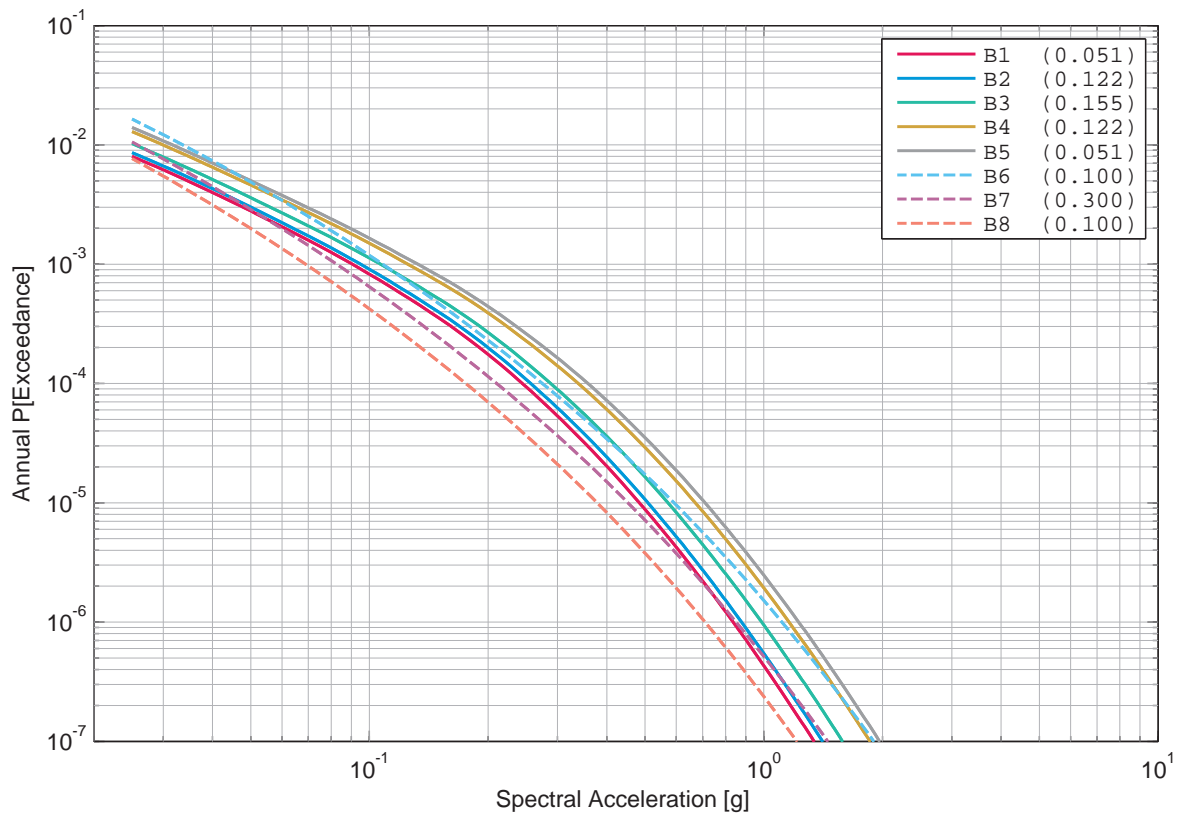


Figure 5.9.44: Mühleberg, horizontal component, rock, Cotton's sensitivity to the Vs-kappa correction, 100 Hz.

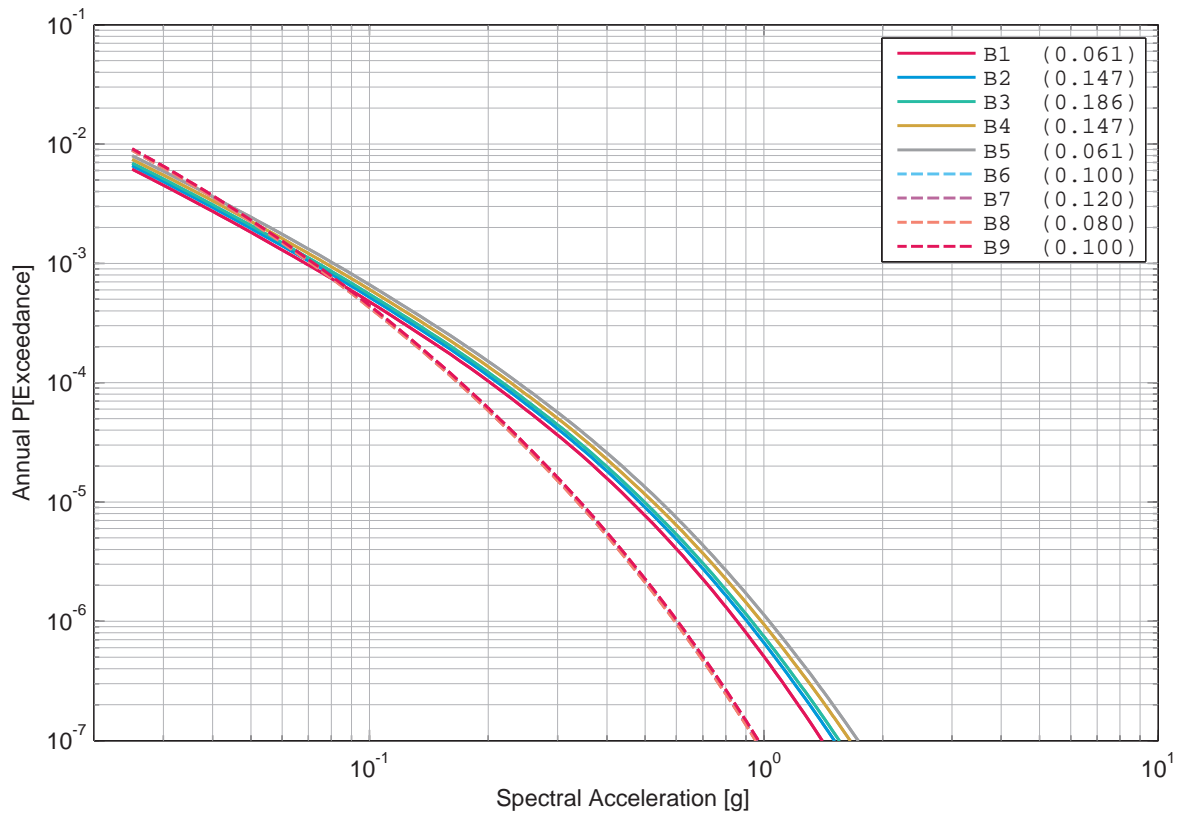


Figure 5.9.45: Mühleberg, horizontal component, rock, Faeh's sensitivity to the Vs-kappa correction, 1 Hz.

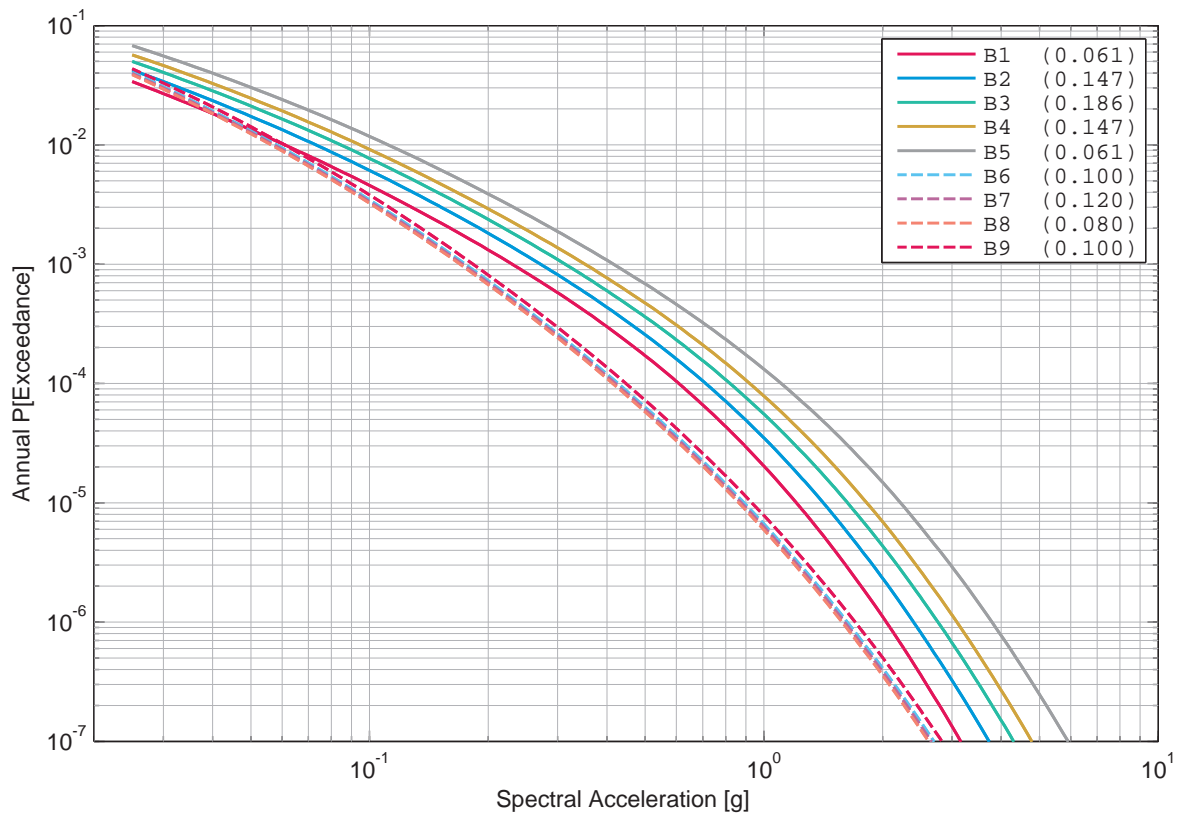


Figure 5.9.46: Mühleberg, horizontal component, rock, Faeh's sensitivity to the Vs-kappa correction, 5 Hz.

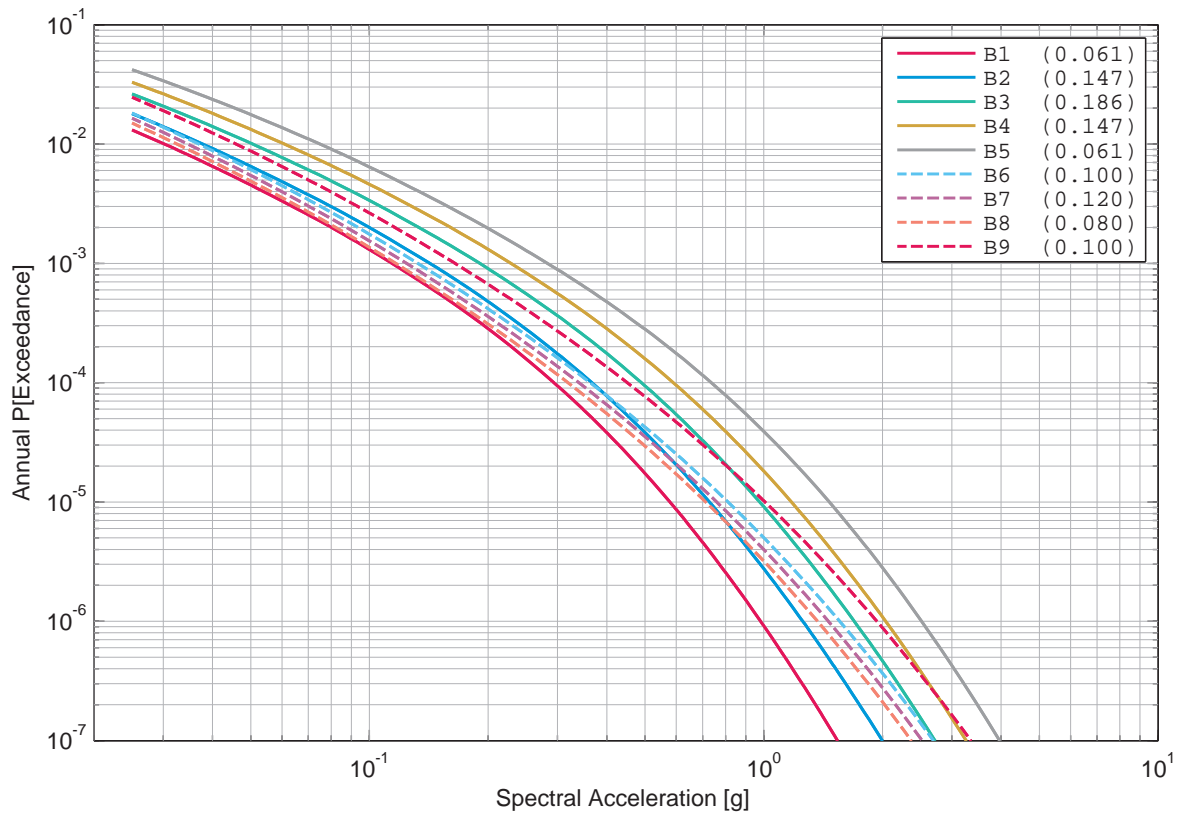


Figure 5.9.47: Mühleberg, horizontal component, rock, Faeh's sensitivity to the Vs-kappa correction, 33 Hz.

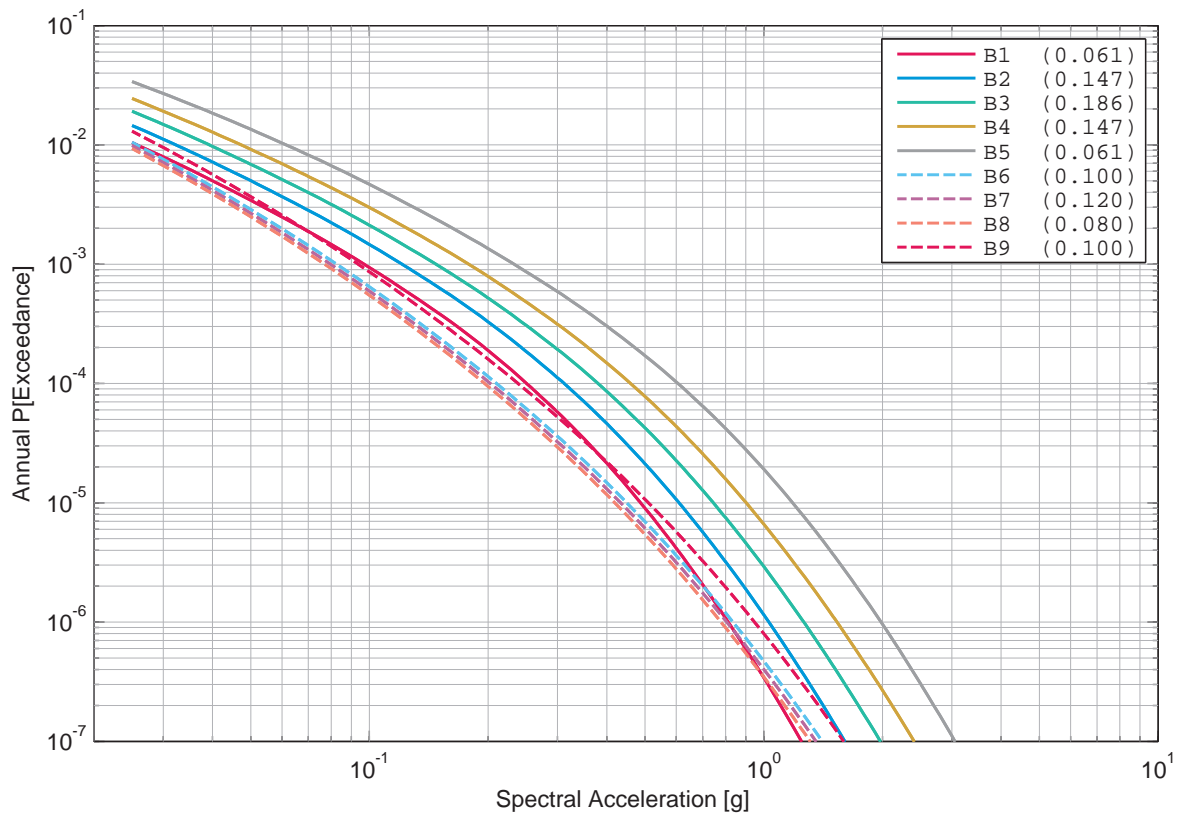


Figure 5.9.48: Mühleberg, horizontal component, rock, Faeh's sensitivity to the Vs-kappa correction, 100 Hz.

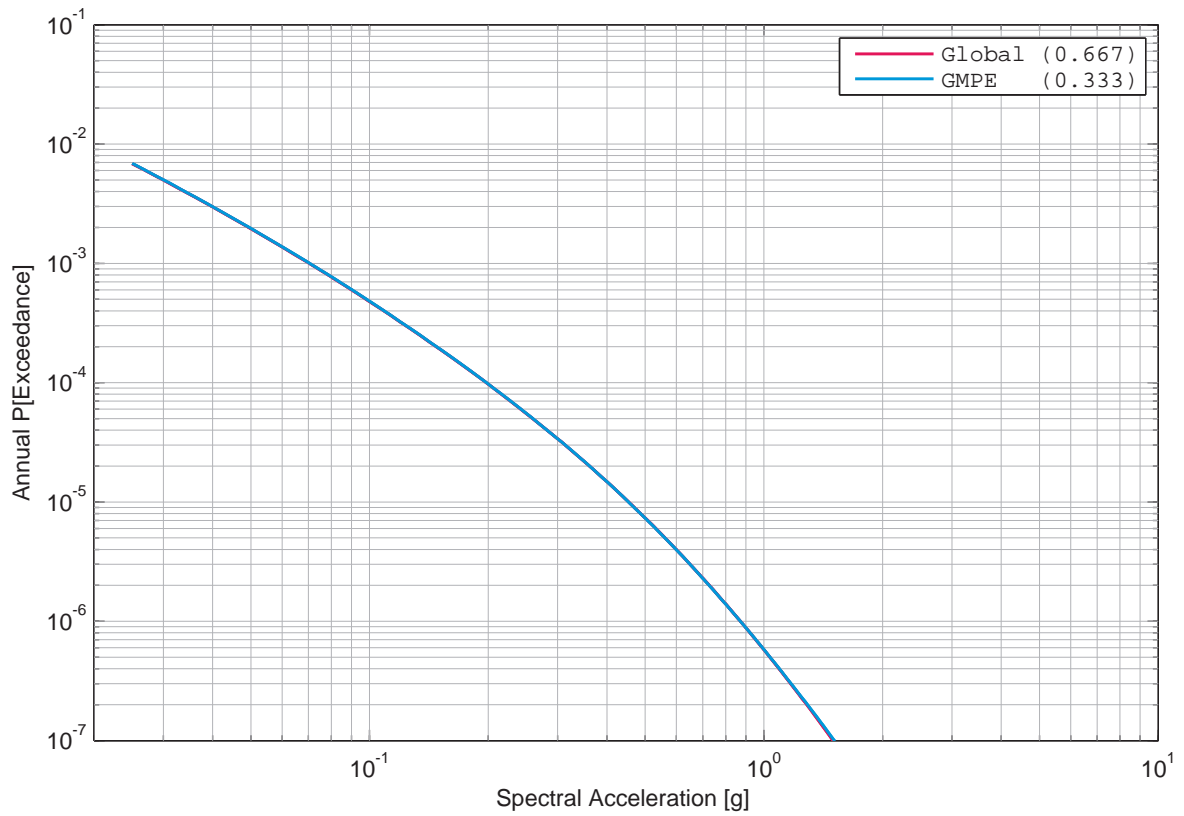


Figure 5.9.49: Mühleberg, horizontal component, rock, Bungum’s sensitivity to tau, 1 Hz.

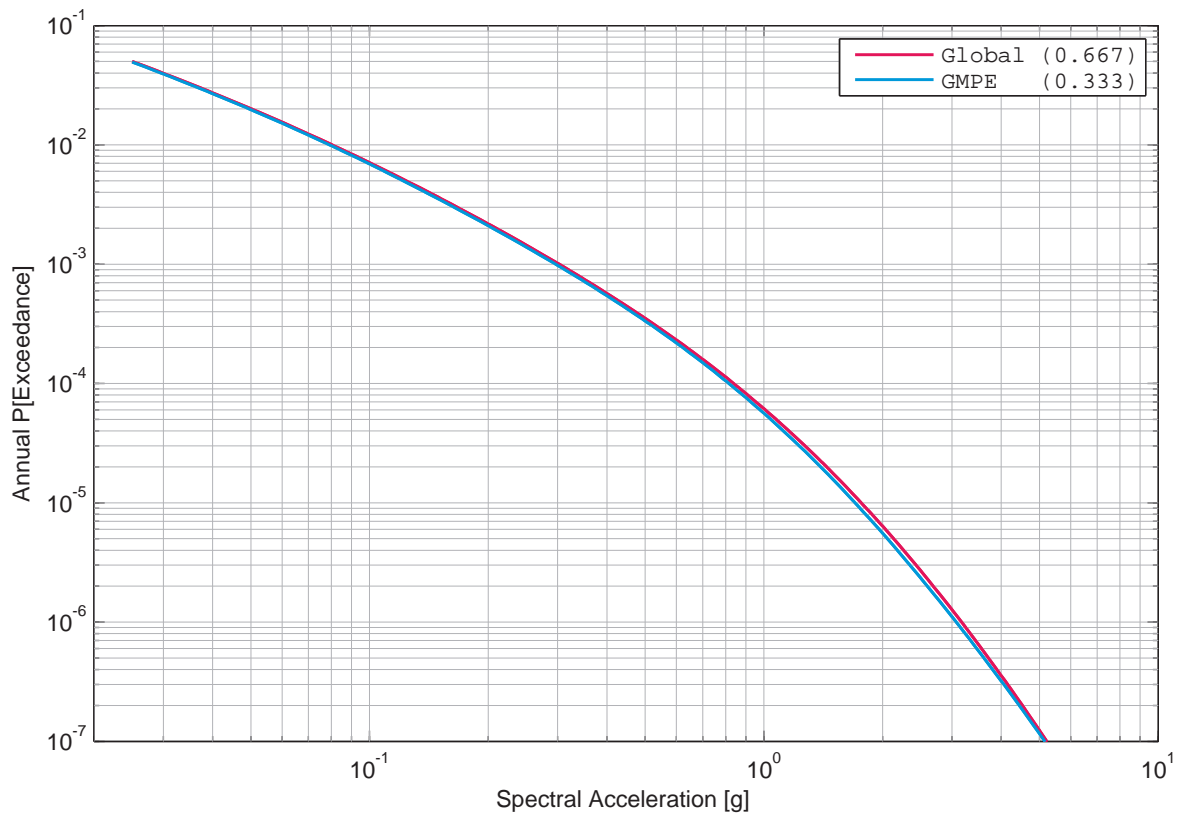


Figure 5.9.50: Mühleberg, horizontal component, rock, Bungum’s sensitivity to tau, 5 Hz.

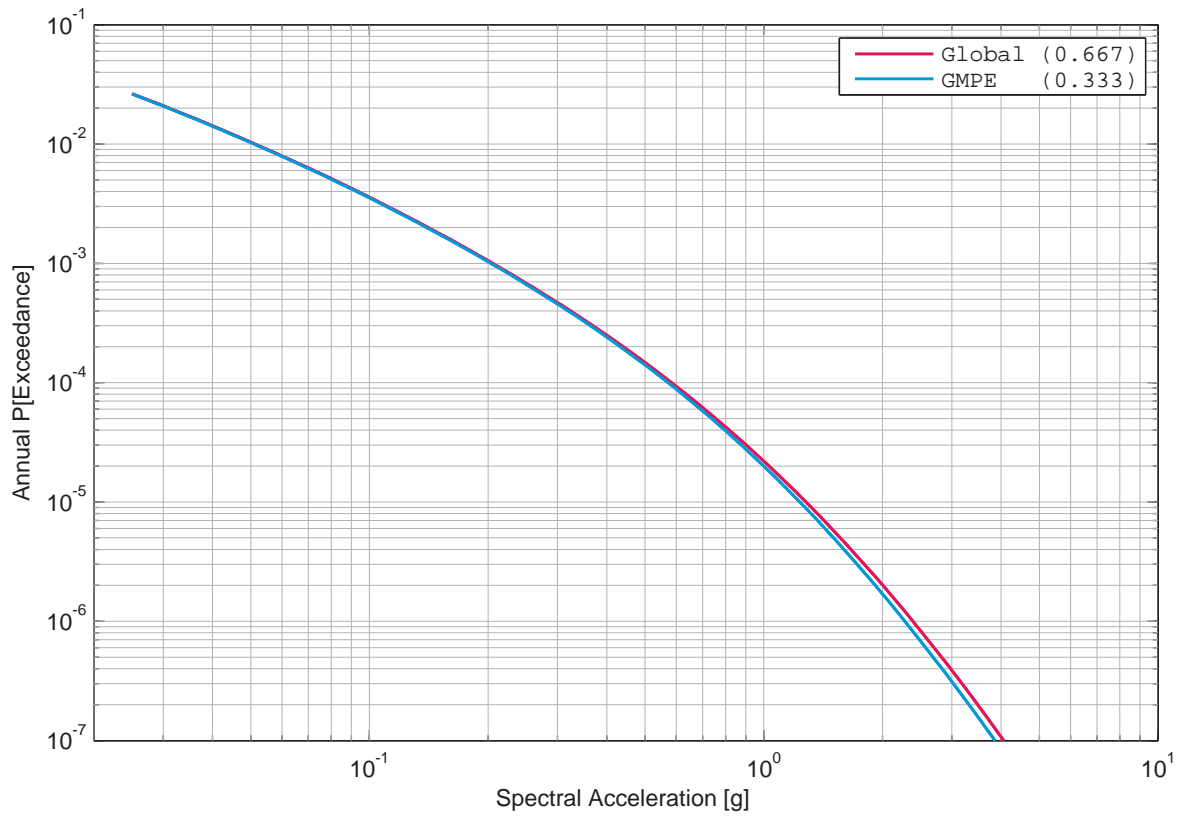


Figure 5.9.51: Mühleberg, horizontal component, rock, Bungum’s sensitivity to tau, 33 Hz.

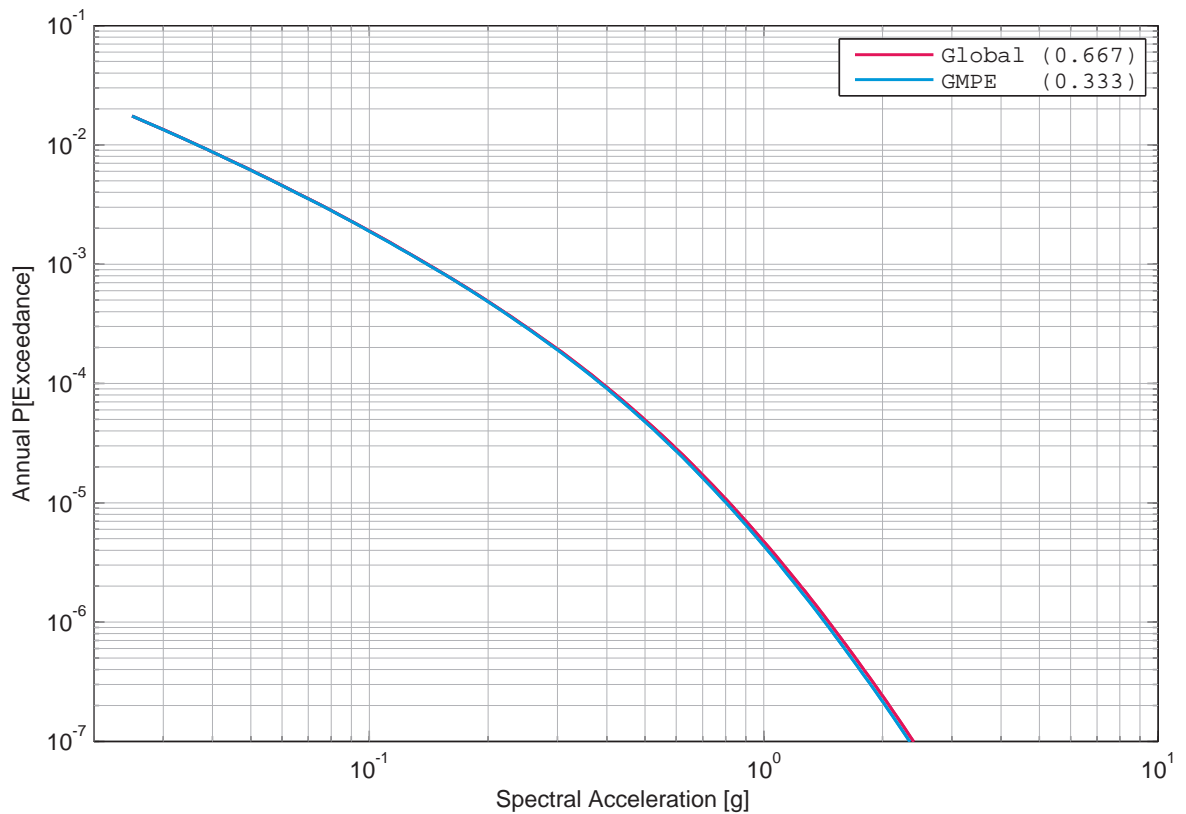


Figure 5.9.52: Mühleberg, horizontal component, rock, Bungum’s sensitivity to tau, 100 Hz.

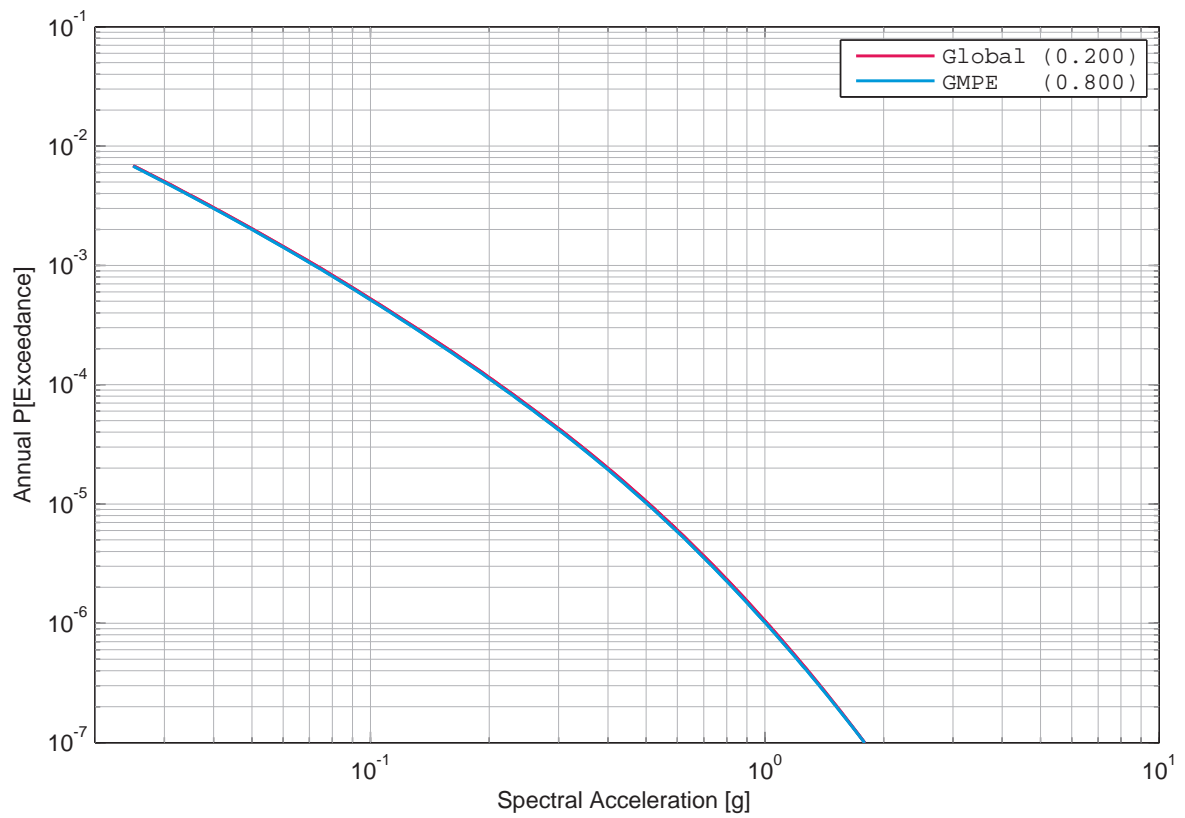


Figure 5.9.53: Mühleberg, horizontal component, rock, Campbell's sensitivity to tau, 1 Hz.

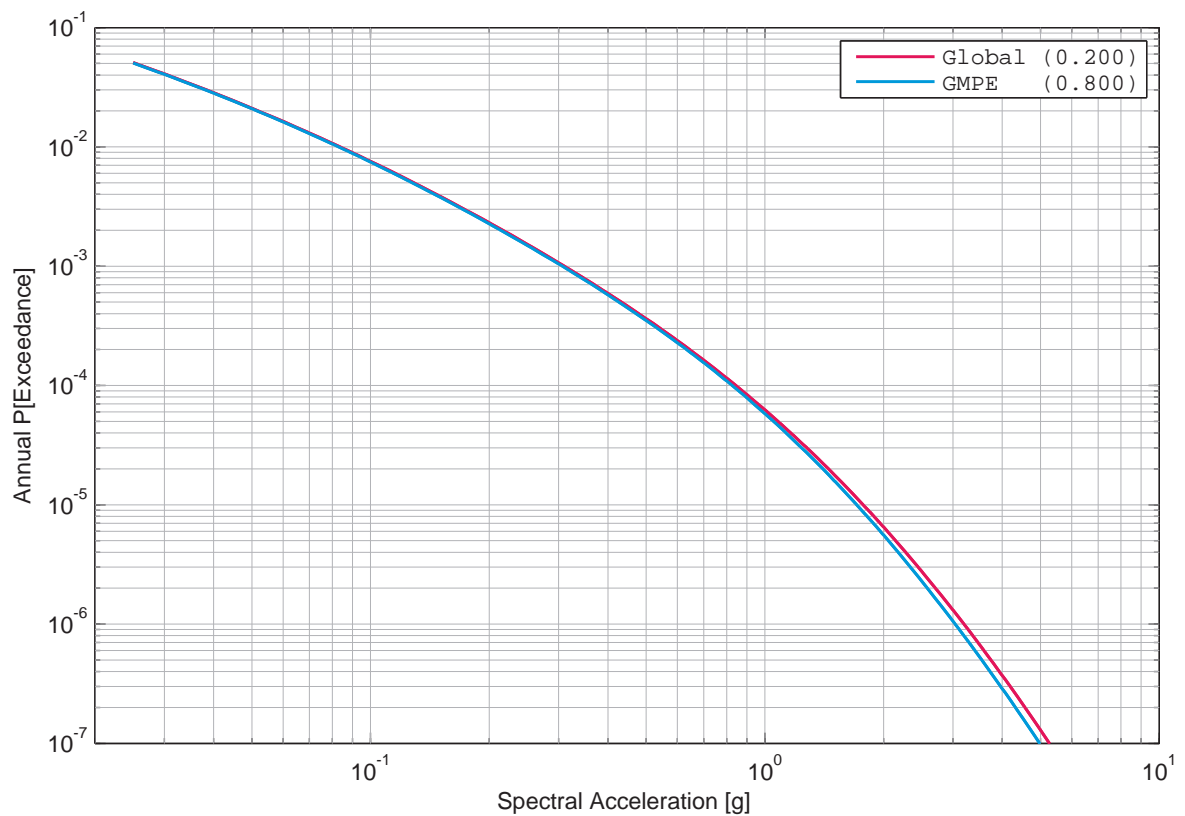


Figure 5.9.54: Mühleberg, horizontal component, rock, Campbell's sensitivity to tau, 5 Hz.

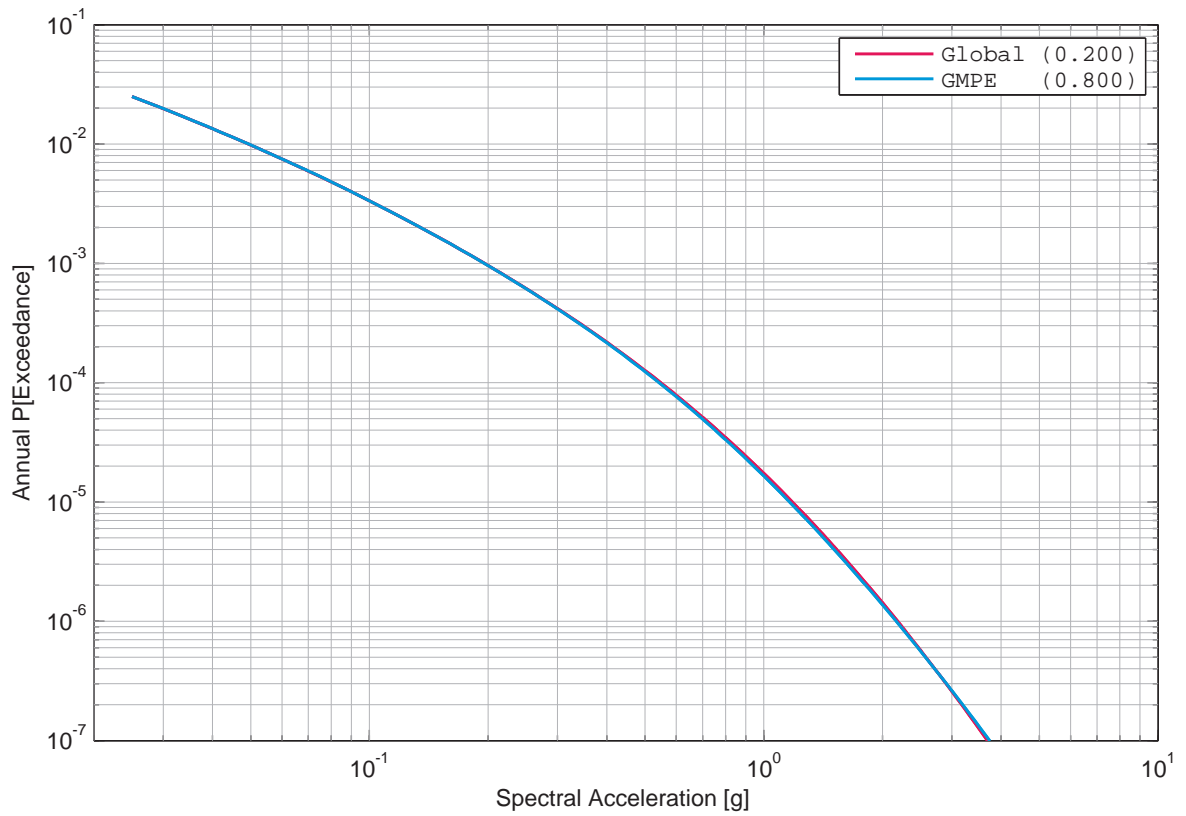


Figure 5.9.55: Mühleberg, horizontal component, rock, Campbell's sensitivity to tau, 33 Hz.

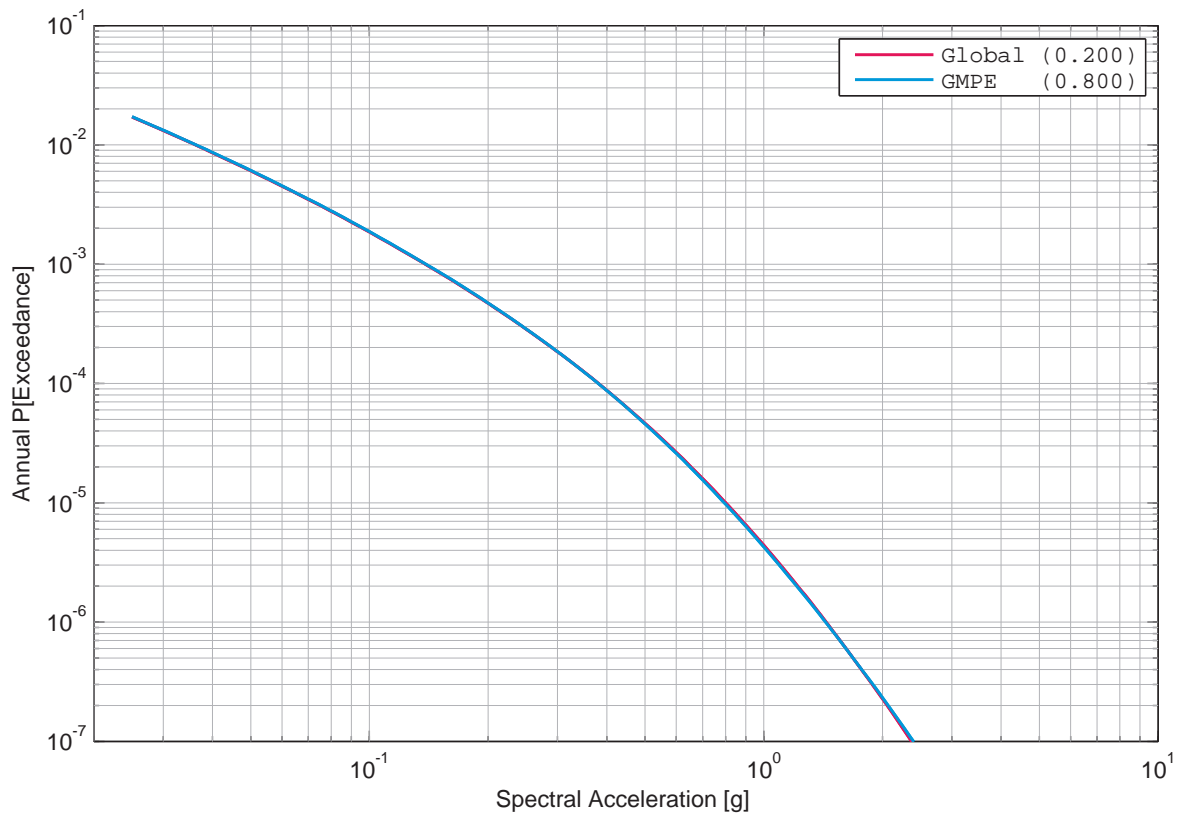


Figure 5.9.56: Mühleberg, horizontal component, rock, Campbell's sensitivity to tau, 100 Hz.

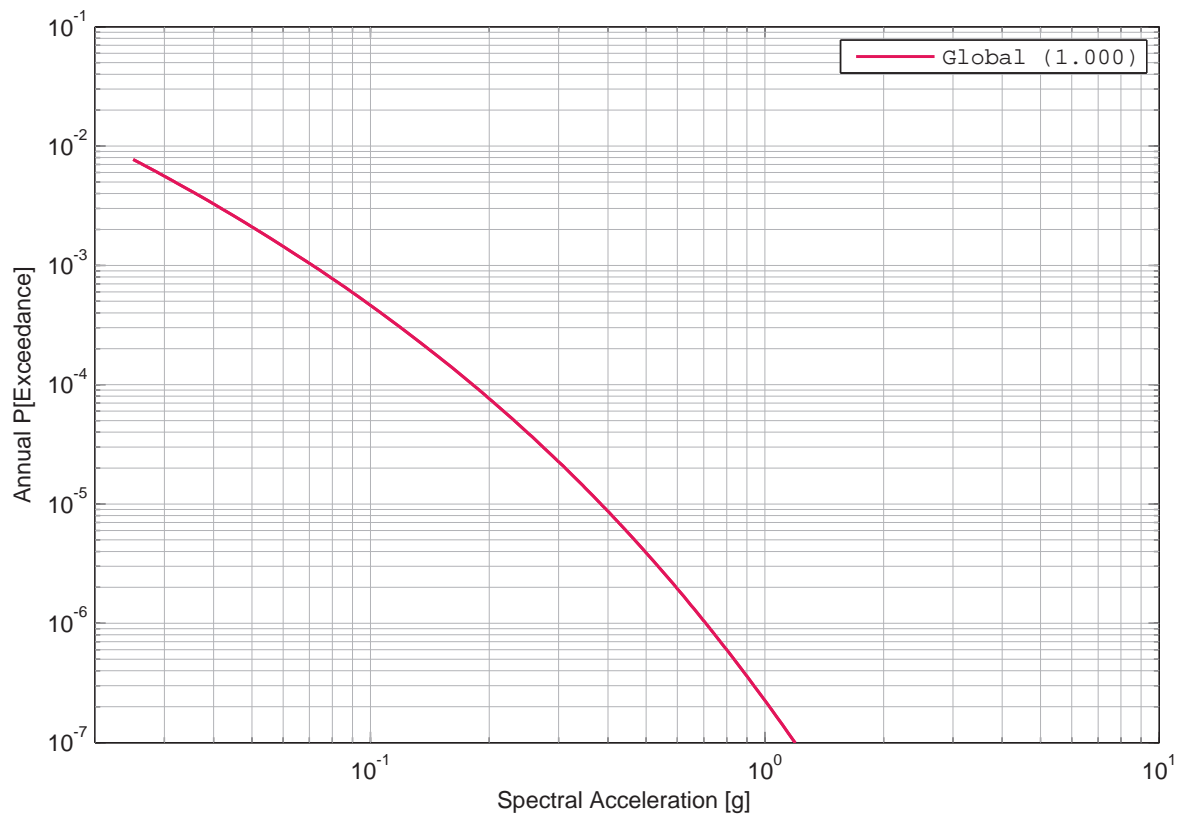


Figure 5.9.57: Mühleberg, horizontal component, rock, Cotton's sensitivity to tau, 1 Hz.

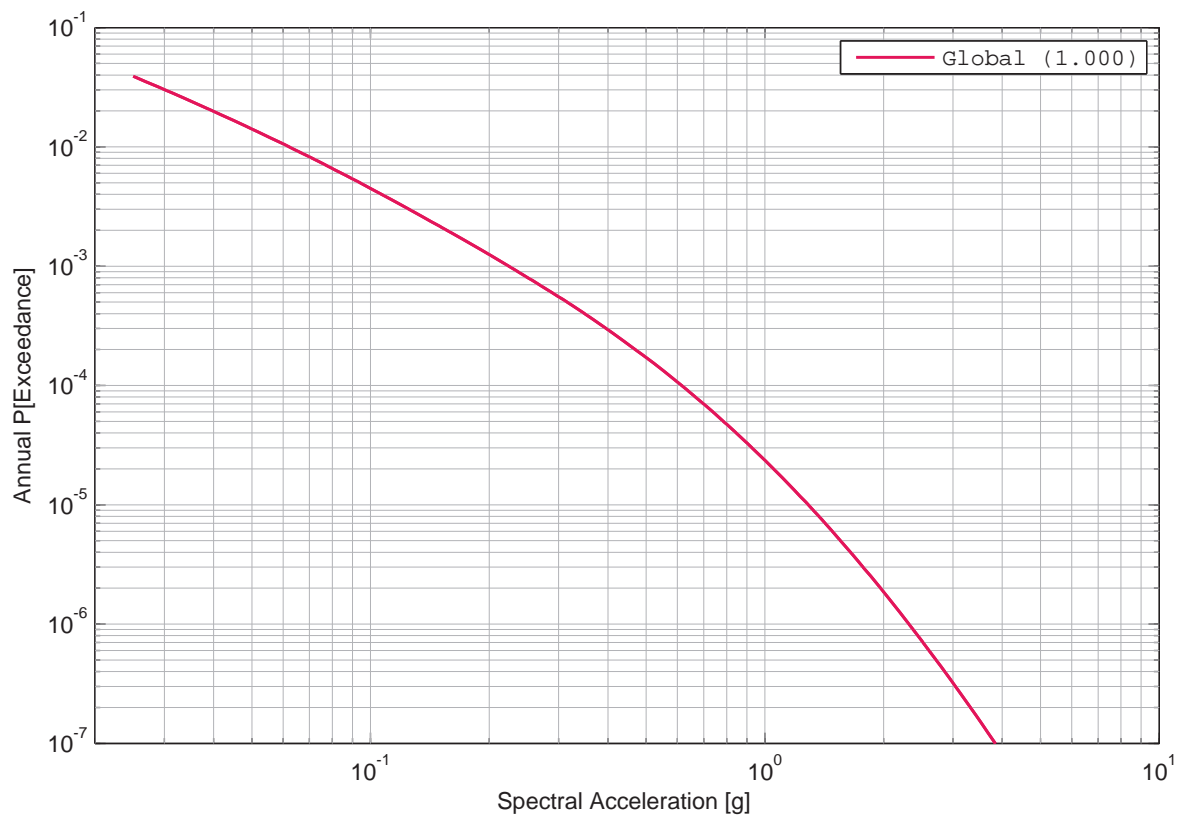


Figure 5.9.58: Mühleberg, horizontal component, rock, Cotton's sensitivity to tau, 5 Hz.

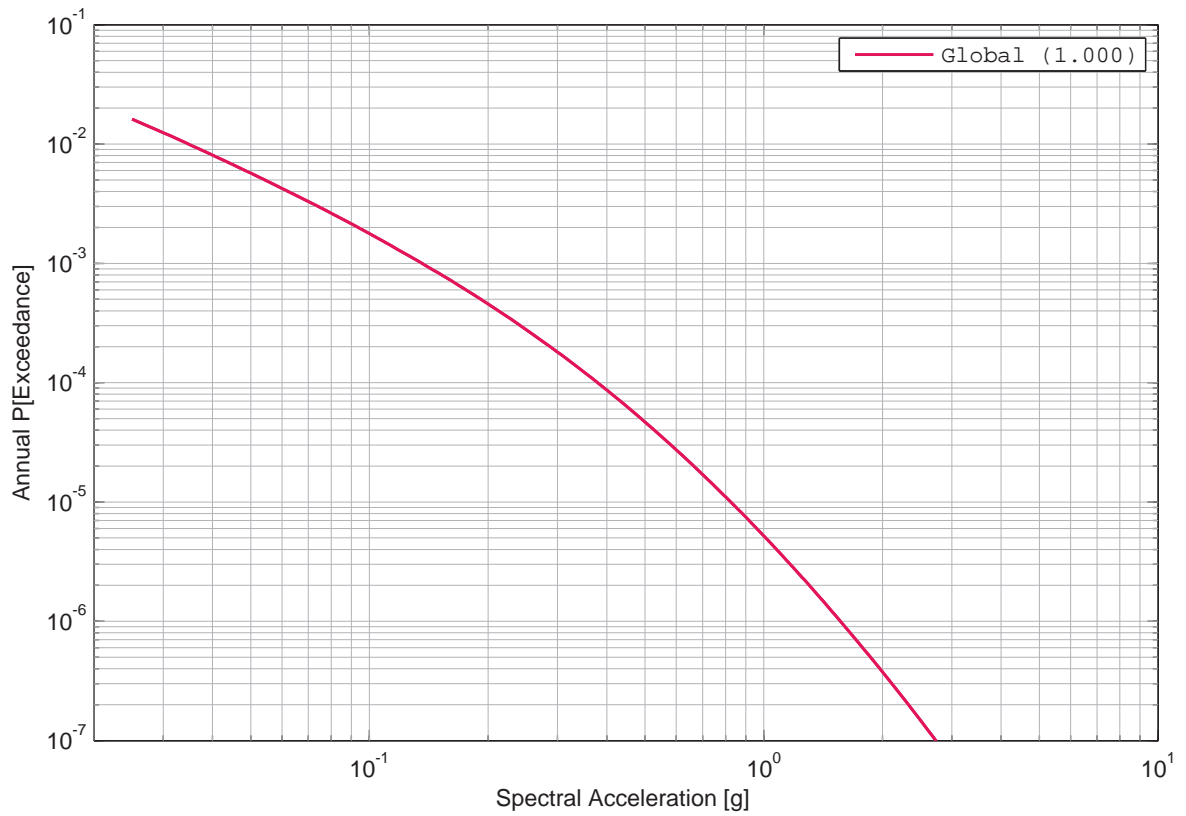


Figure 5.9.59: Mühleberg, horizontal component, rock, Cotton’s sensitivity to tau, 33 Hz.

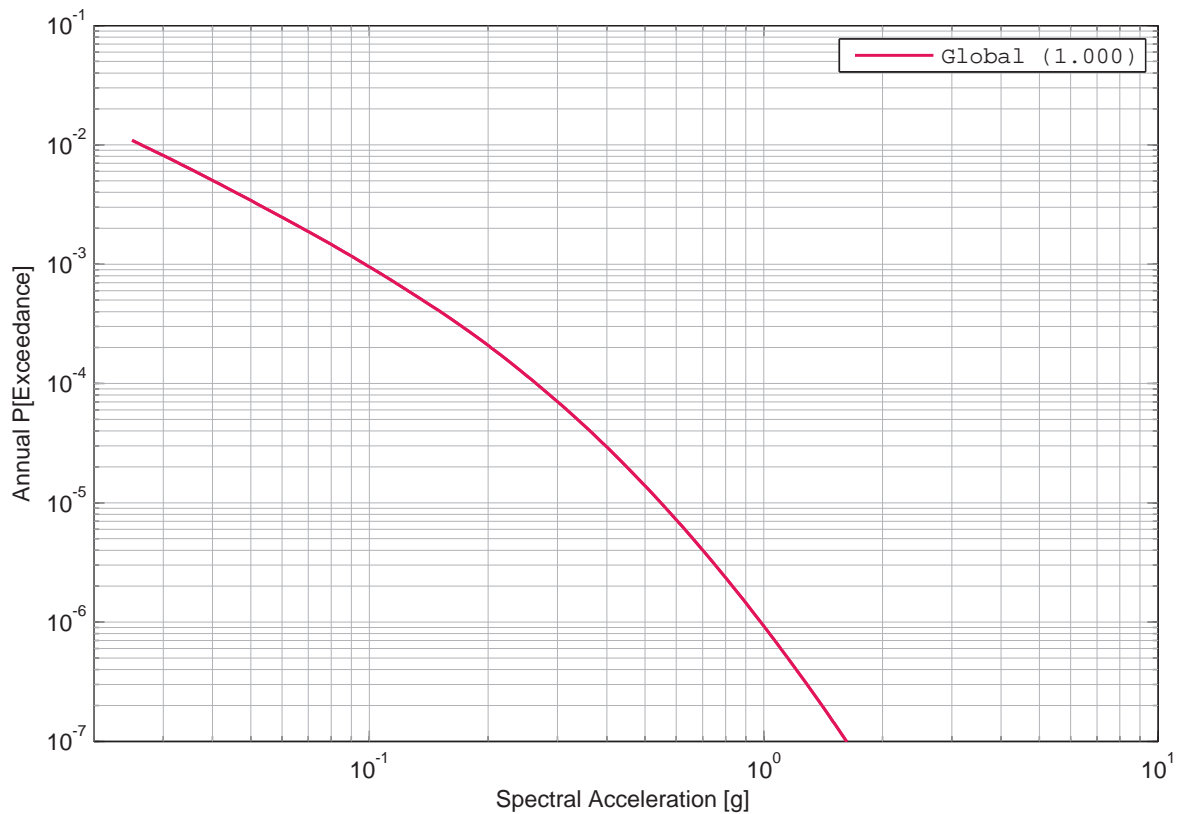


Figure 5.9.60: Mühleberg, horizontal component, rock, Cotton’s sensitivity to tau, 100 Hz.

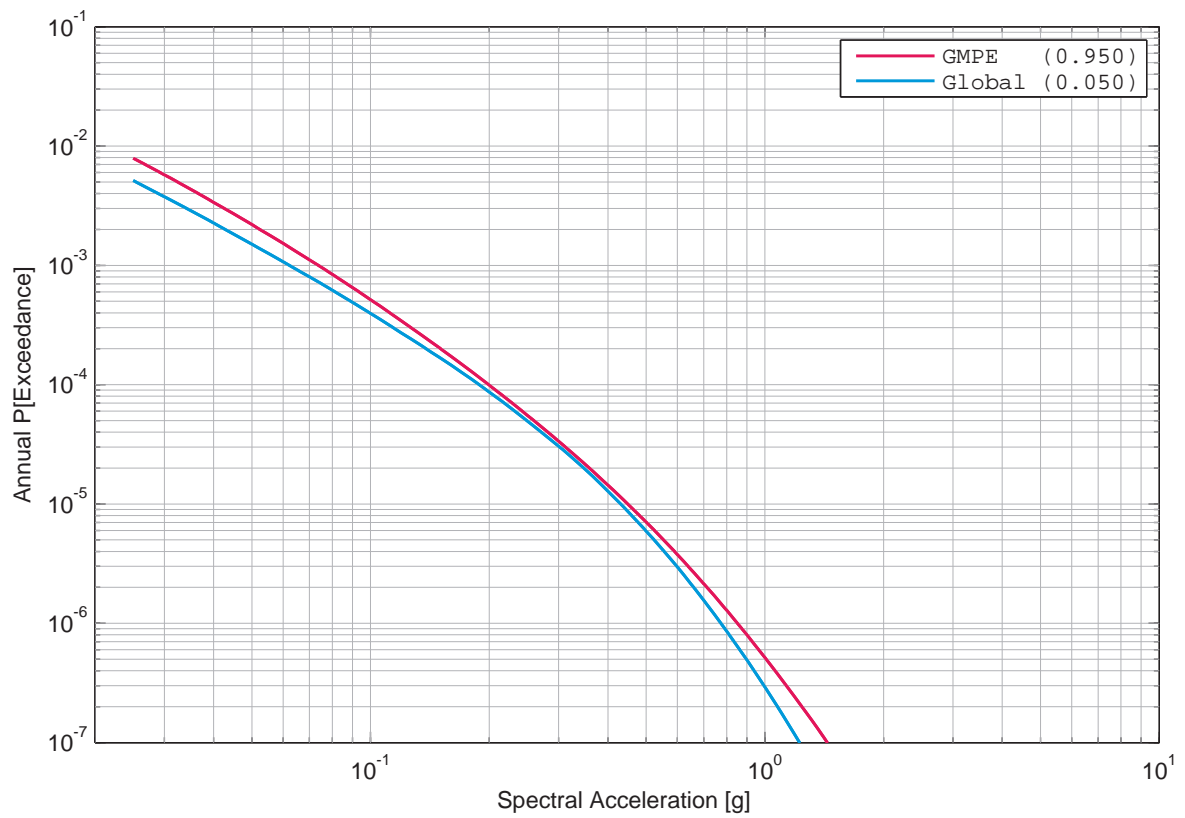


Figure 5.9.61: Mühleberg, horizontal component, rock, Faeh's sensitivity to tau, 1 Hz.

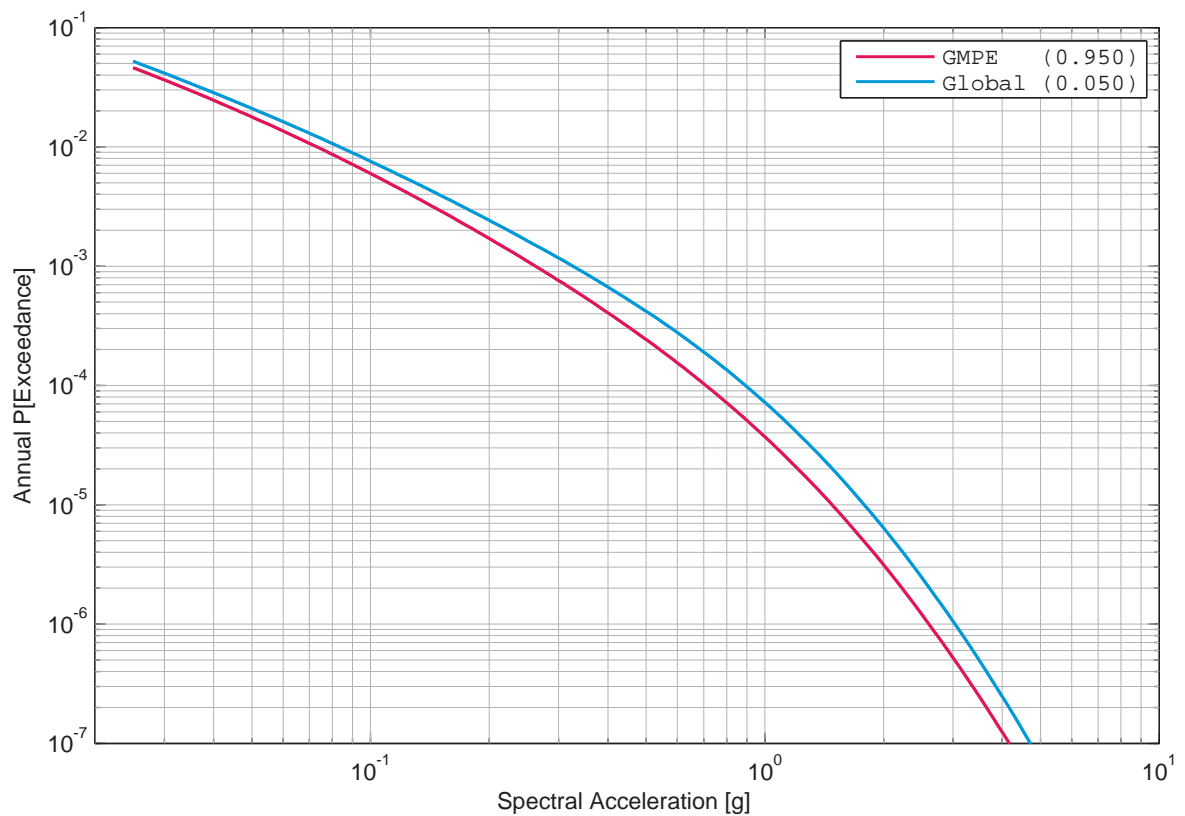


Figure 5.9.62: Mühleberg, horizontal component, rock, Faeh's sensitivity to tau, 5 Hz.

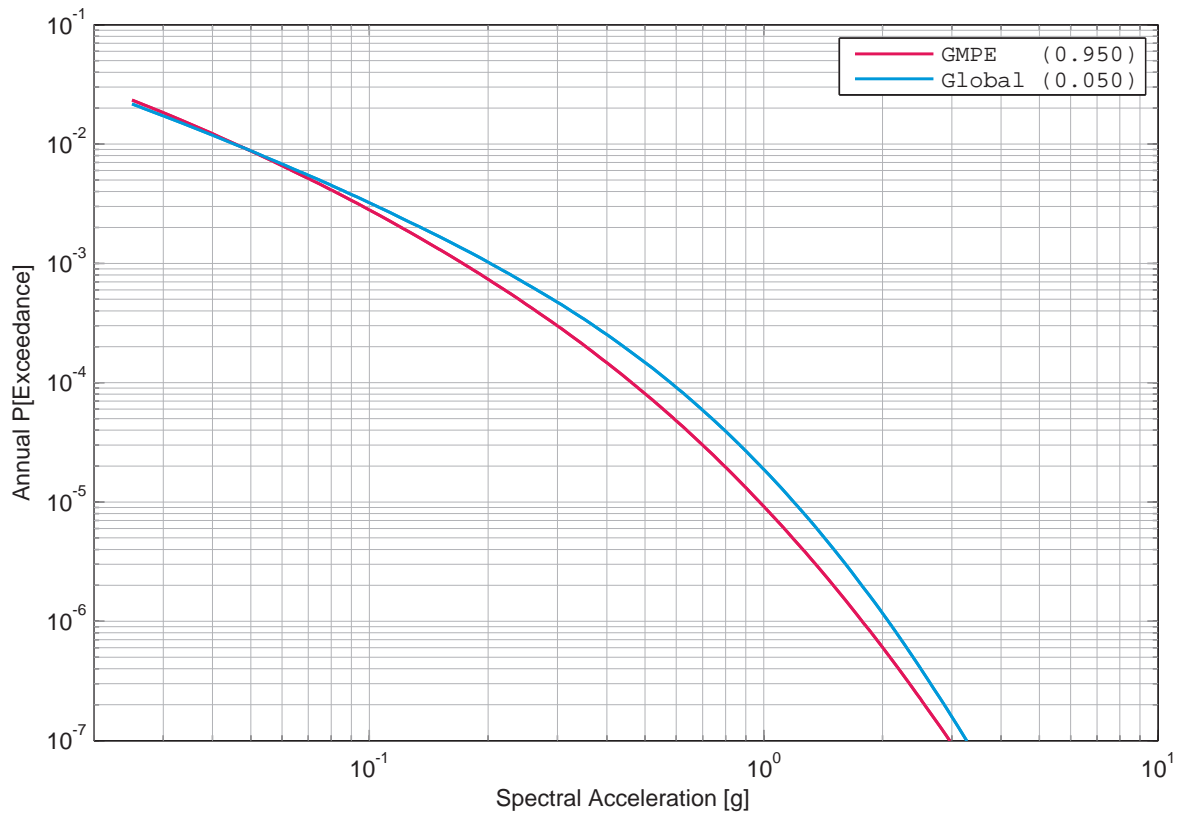


Figure 5.9.63: Mühleberg, horizontal component, rock, Faeh's sensitivity to tau, 33 Hz.

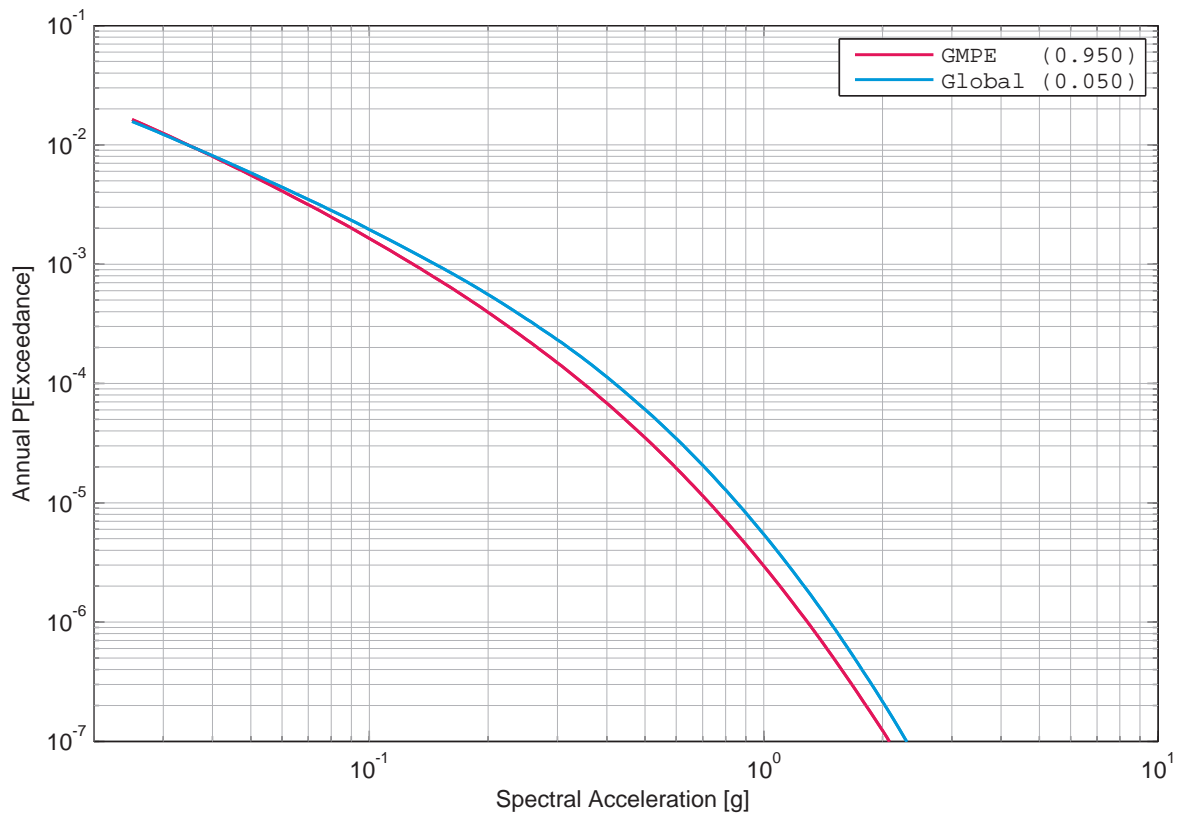


Figure 5.9.64: Mühleberg, horizontal component, rock, Faeh's sensitivity to tau, 100 Hz.

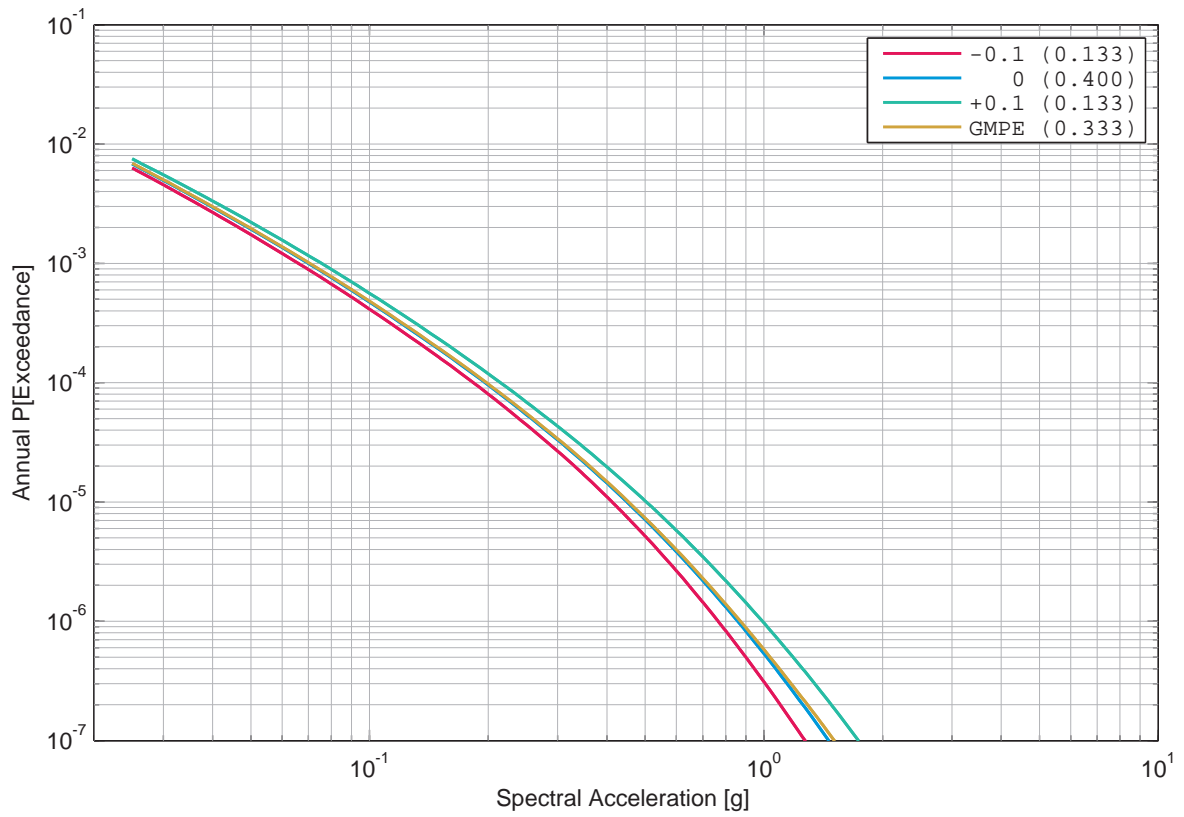


Figure 5.9.65: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 1 Hz.

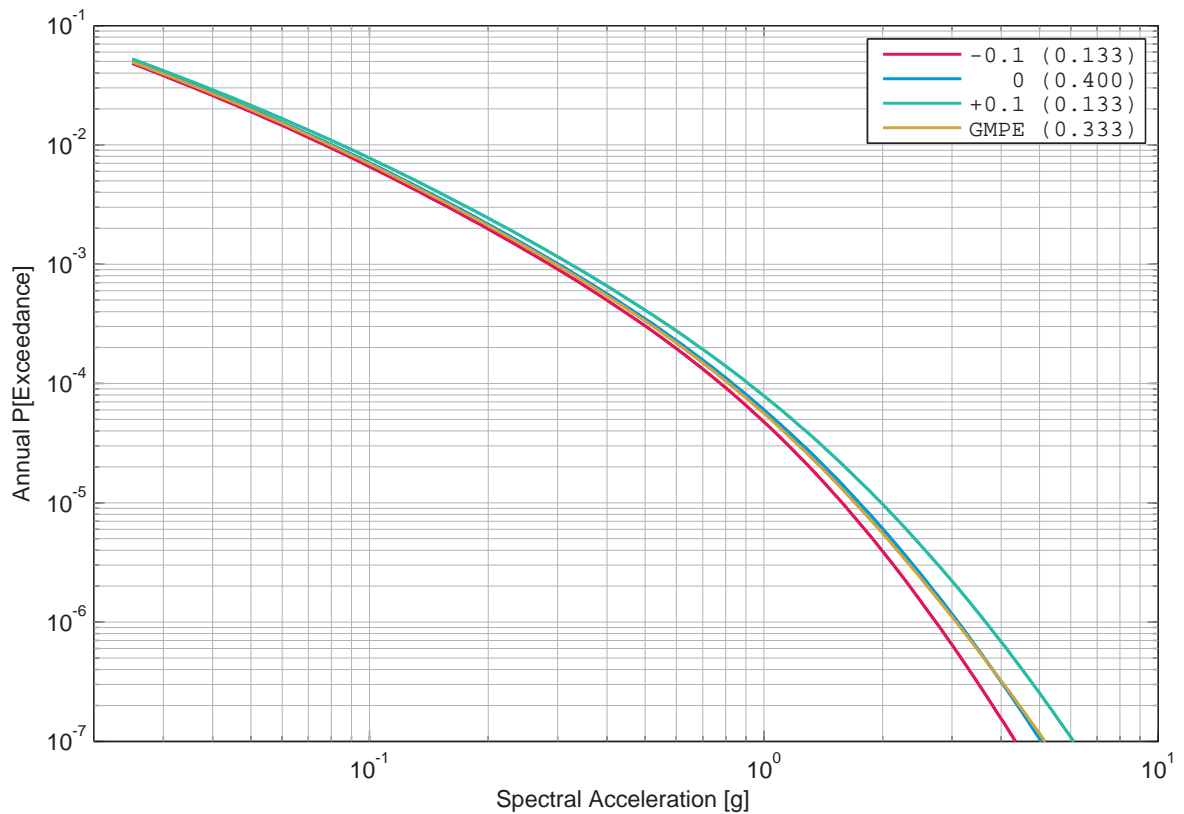


Figure 5.9.66: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 5 Hz.

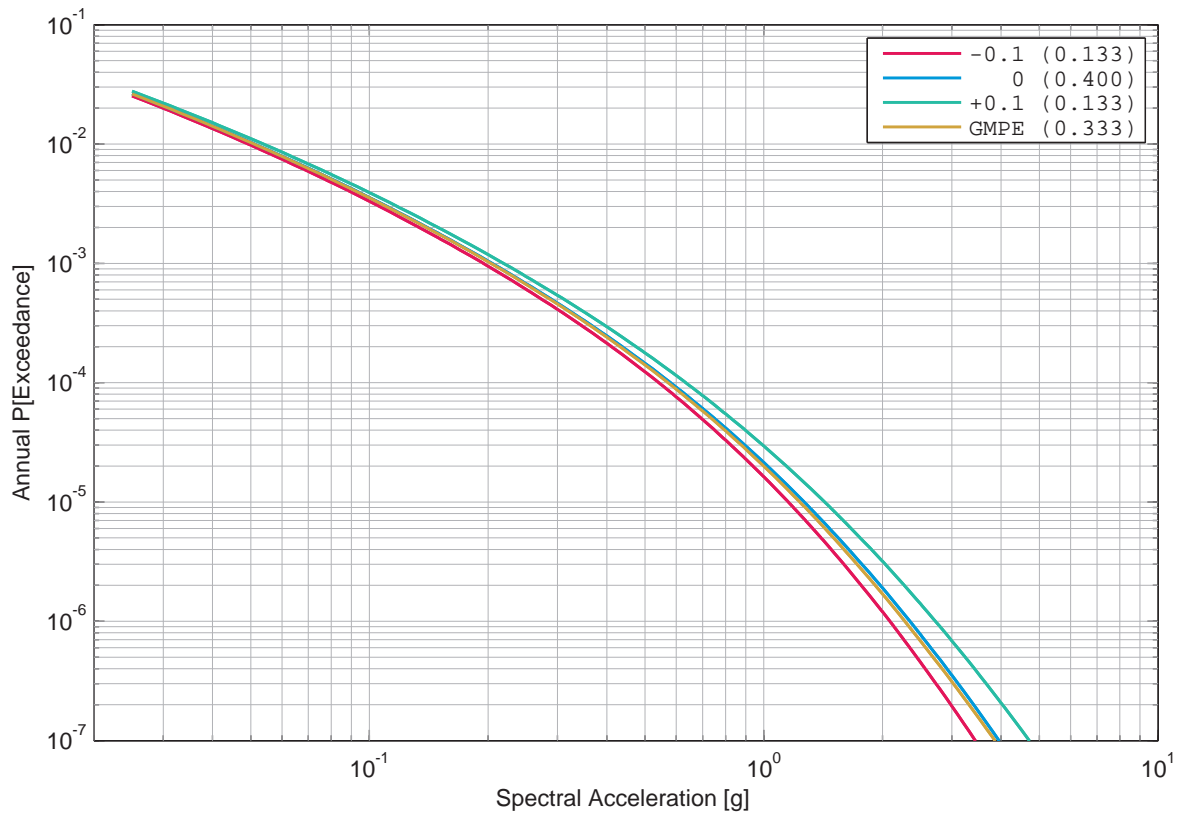


Figure 5.9.67: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 33 Hz.

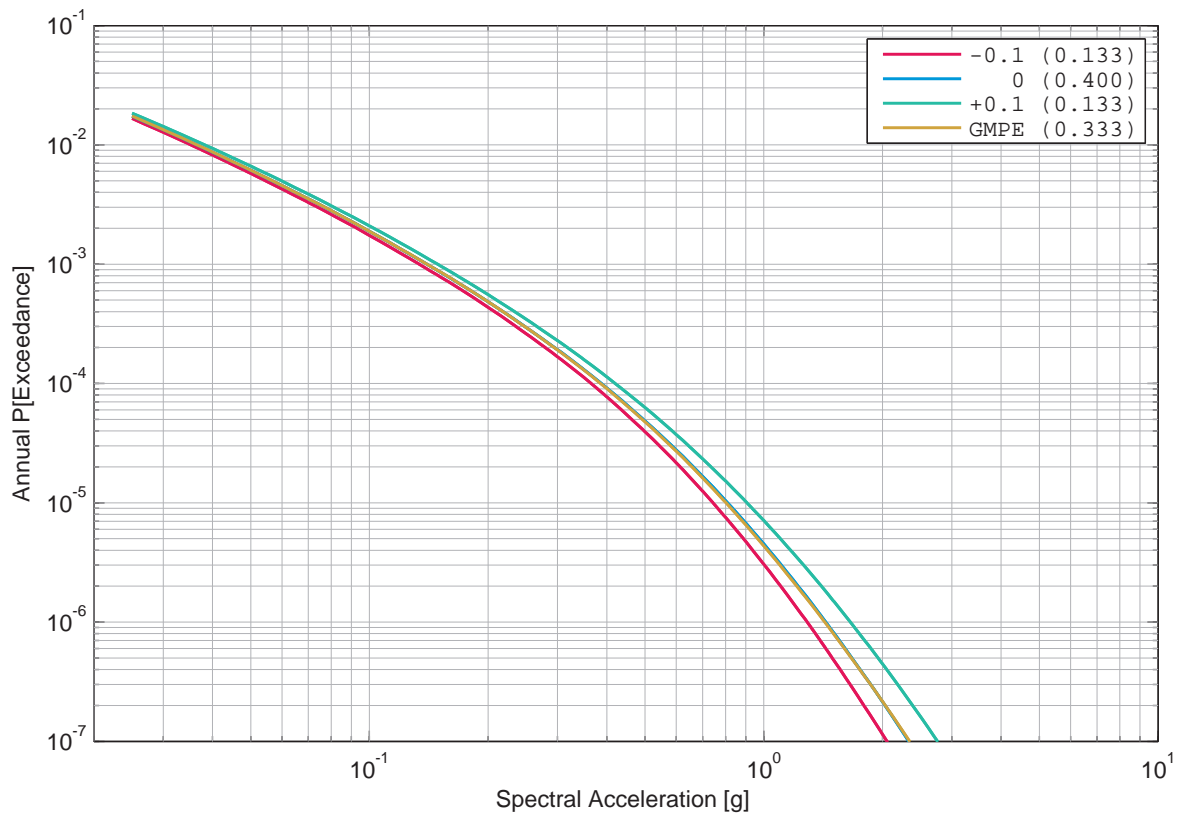


Figure 5.9.68: Mühleberg, horizontal component, rock, Bungum’s sensitivity to the tau uncertainty, 100 Hz.

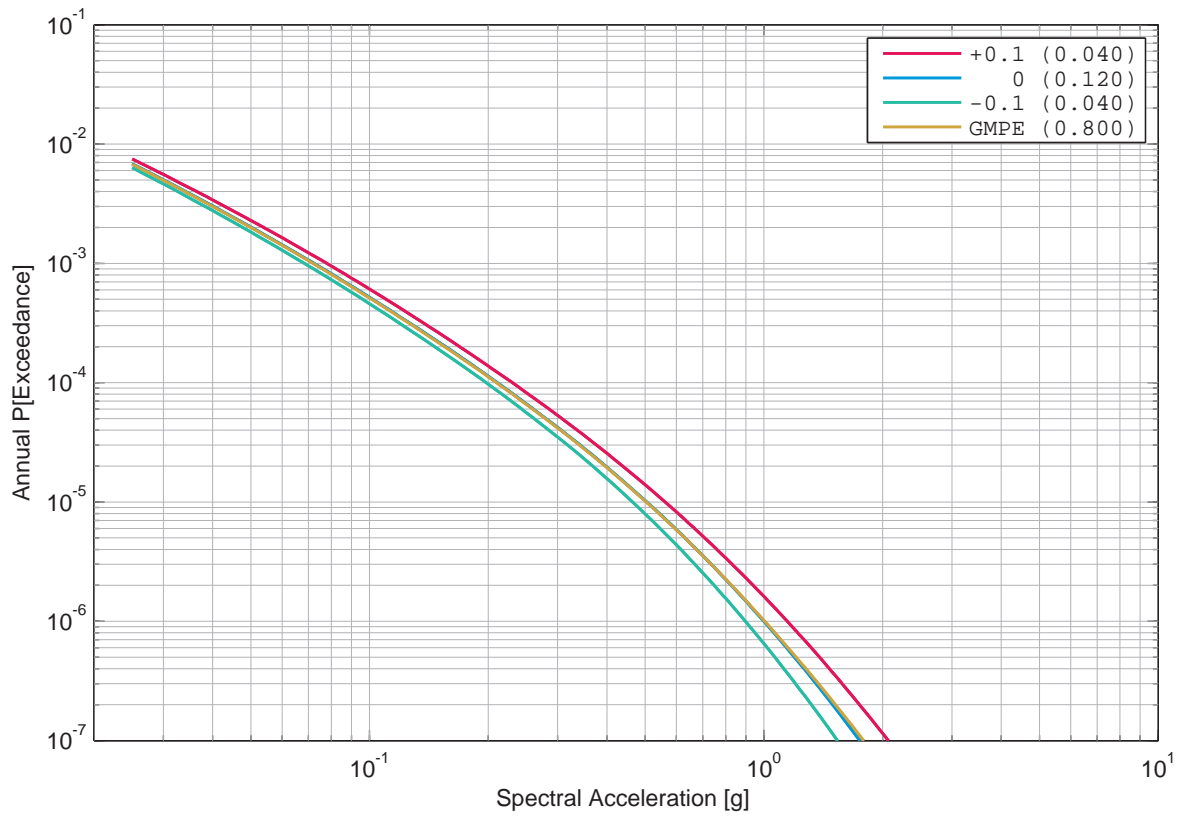


Figure 5.9.69: Mühleberg, horizontal component, rock, Campbell's sensitivity to the tau uncertainty, 1 Hz.

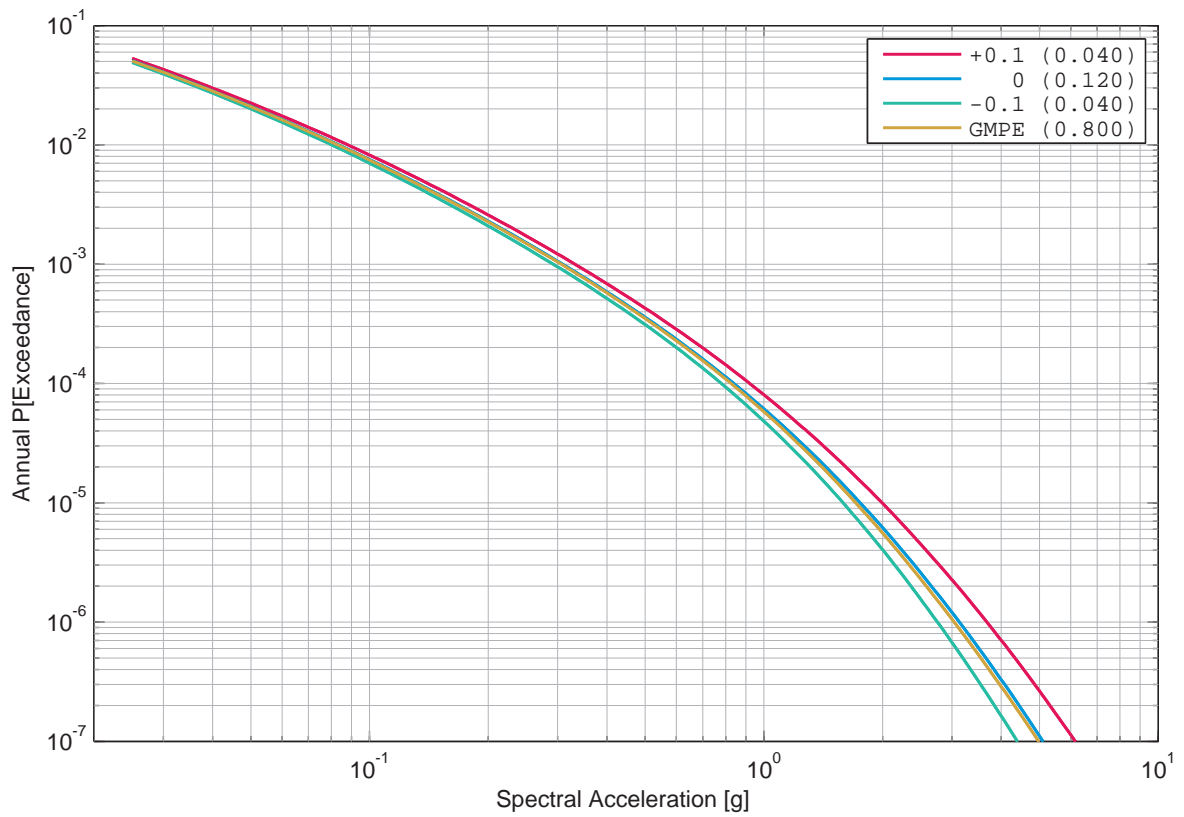


Figure 5.9.70: Mühleberg, horizontal component, rock, Campbell's sensitivity to the tau uncertainty, 5 Hz.

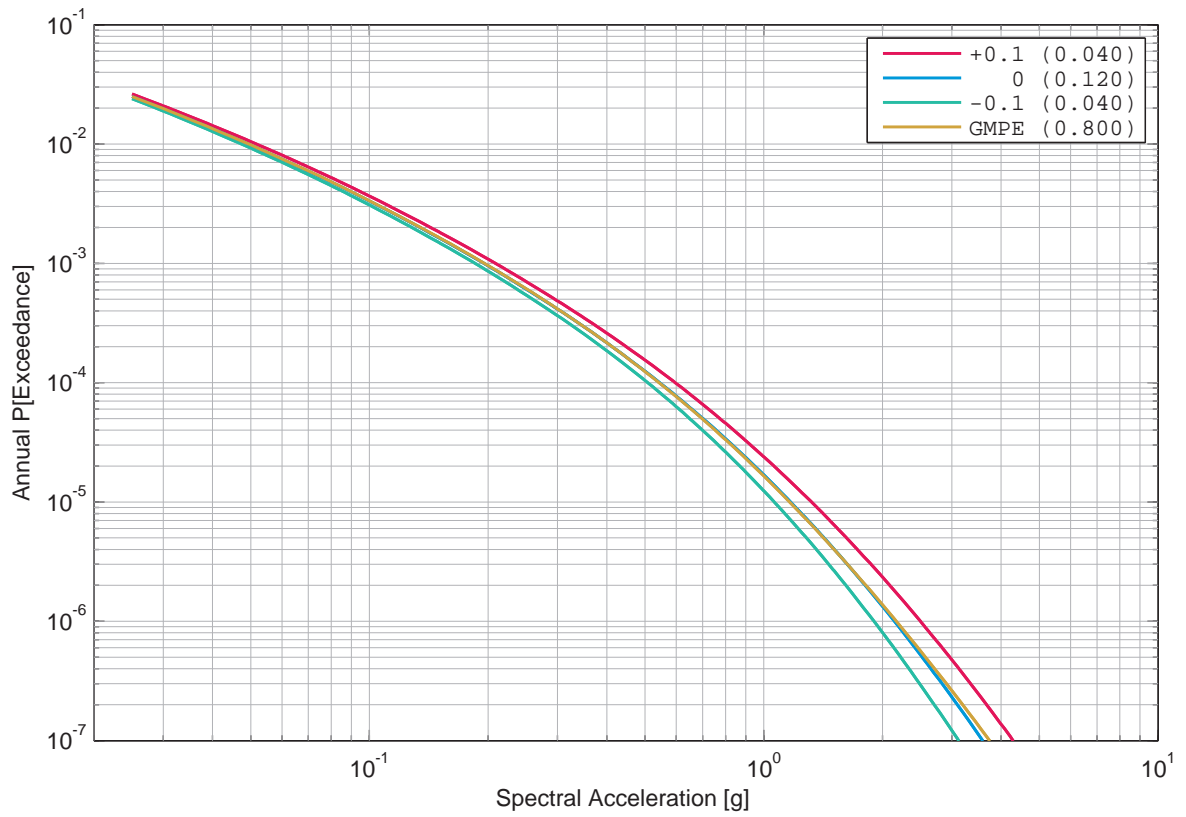


Figure 5.9.71: Mühleberg, horizontal component, rock, Campbell's sensitivity to the tau uncertainty, 33 Hz.

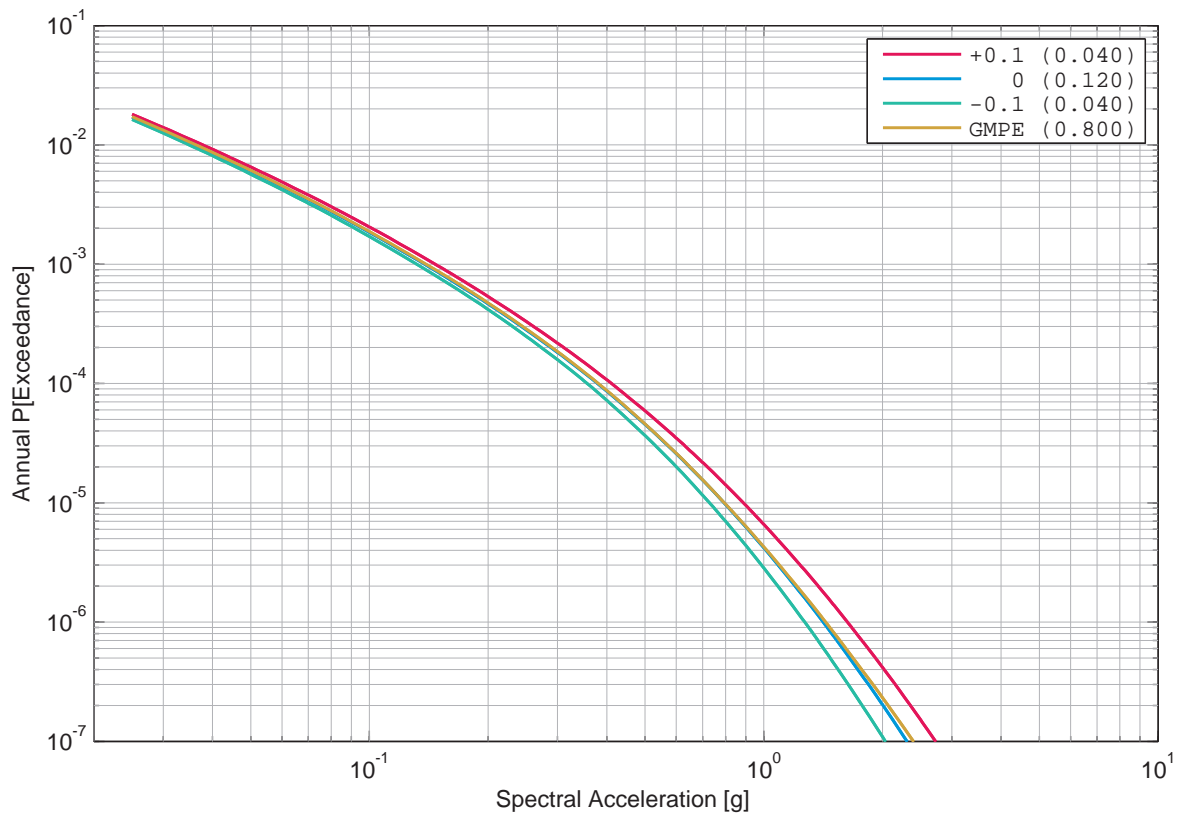


Figure 5.9.72: Mühleberg, horizontal component, rock, Campbell's sensitivity to the tau uncertainty, 100 Hz.

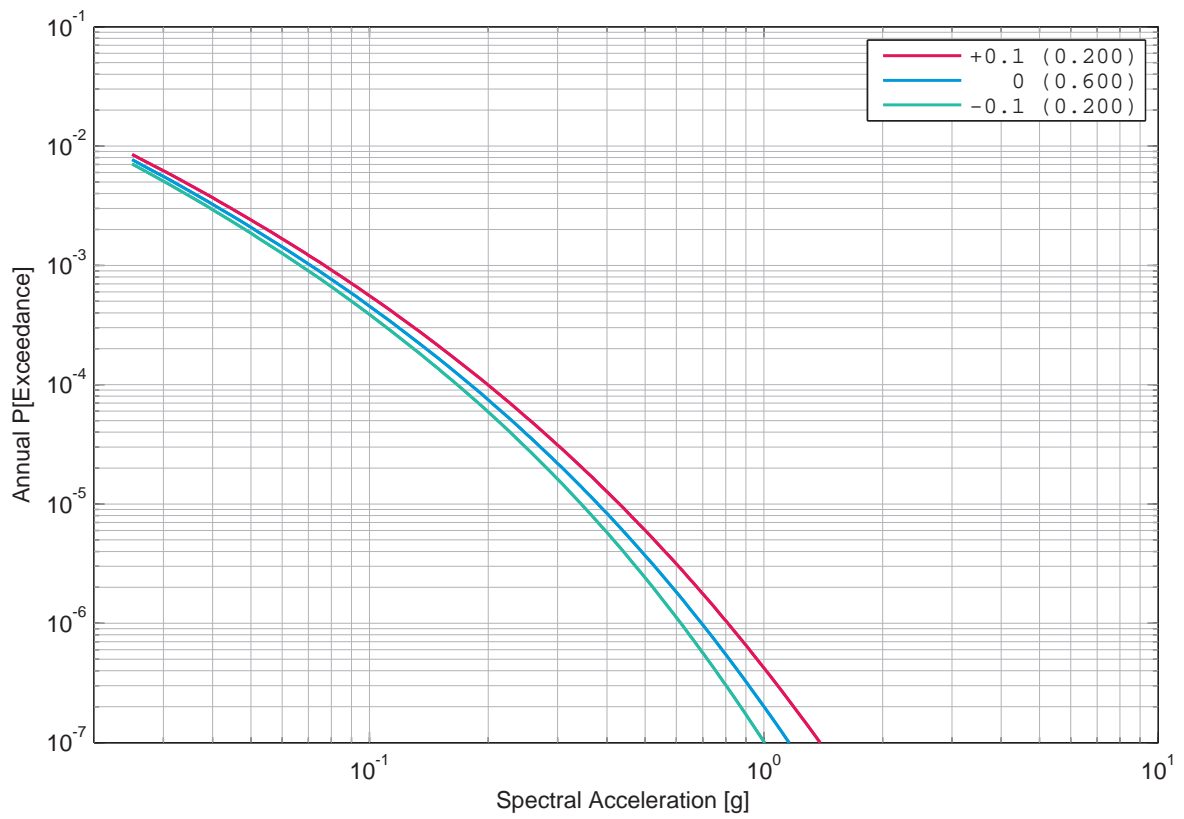


Figure 5.9.73: Mühleberg, horizontal component, rock, Cotton’s sensitivity to the tau uncertainty, 1 Hz.

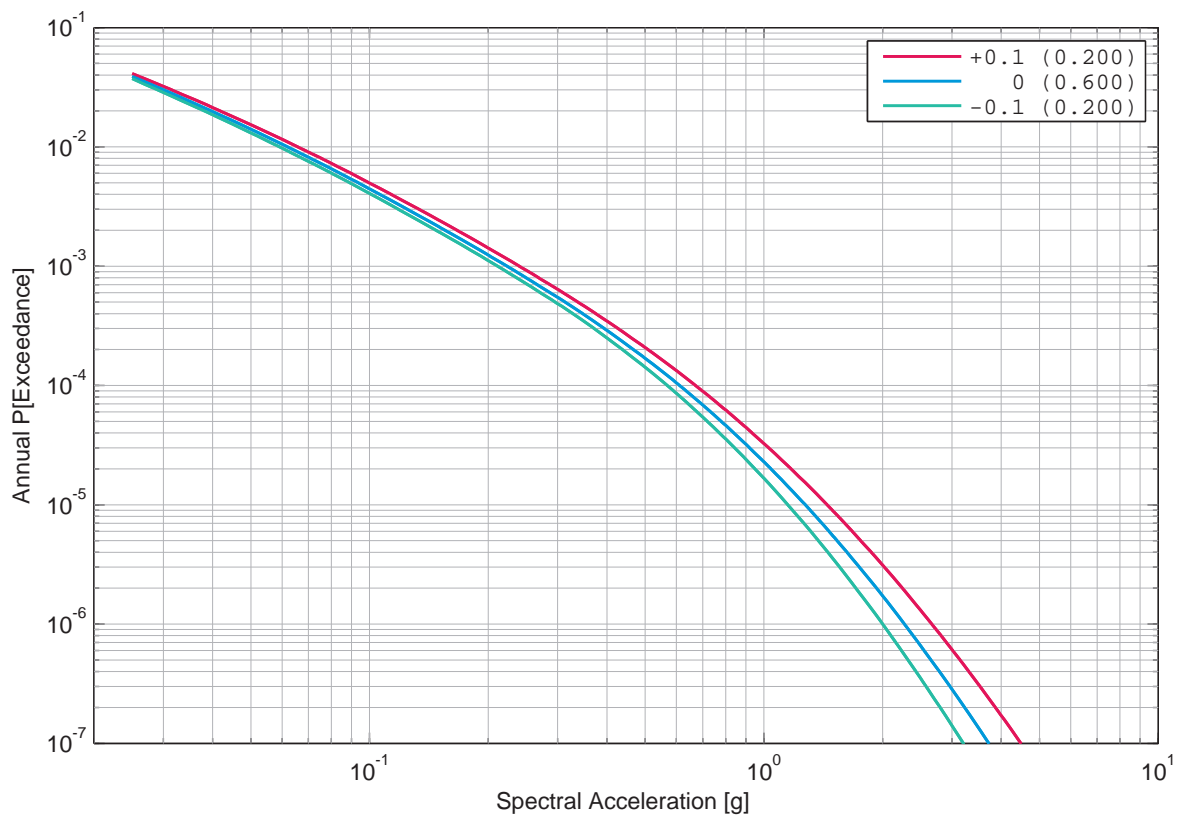


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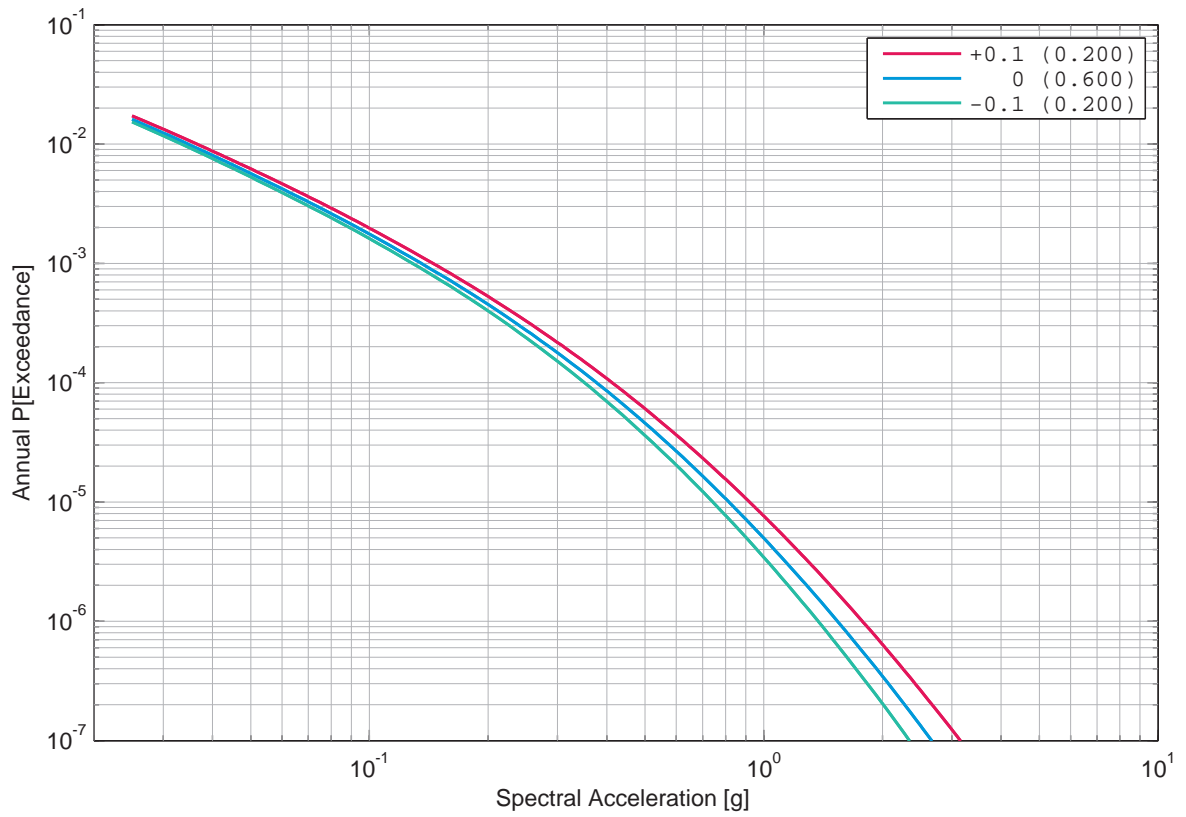


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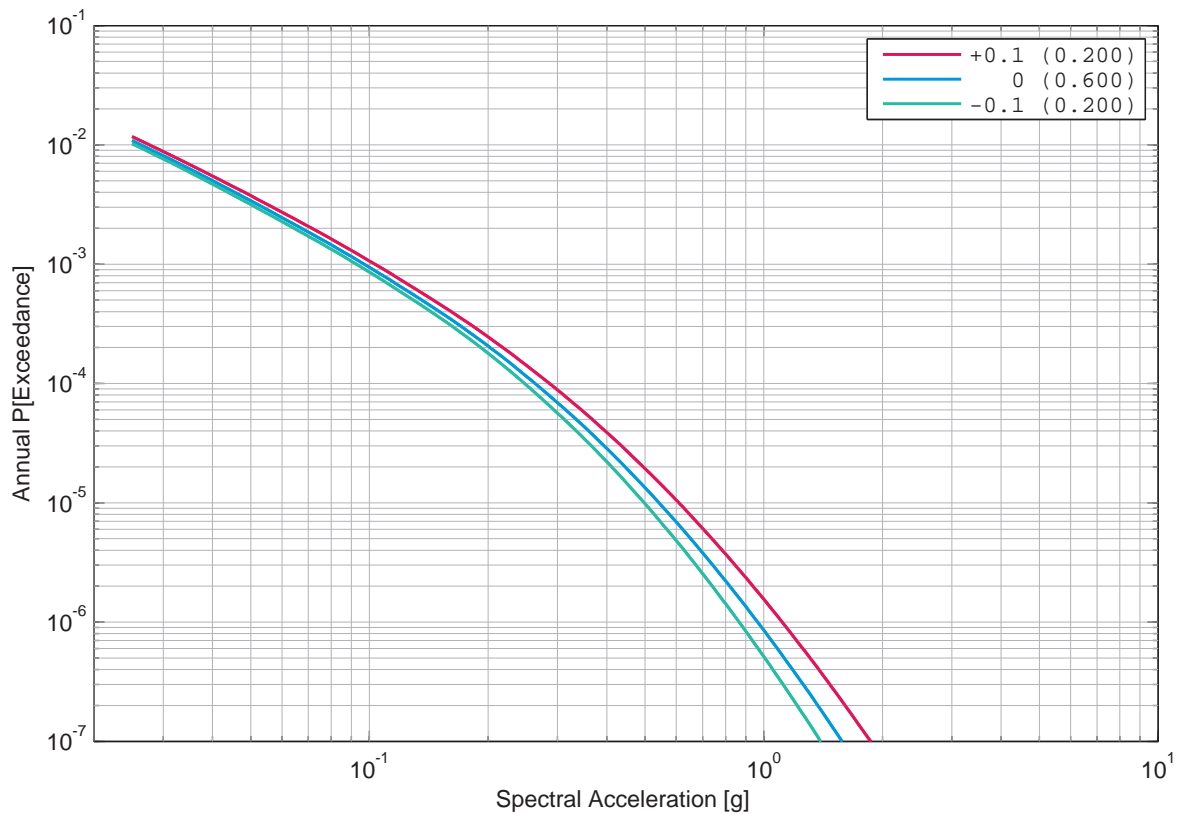


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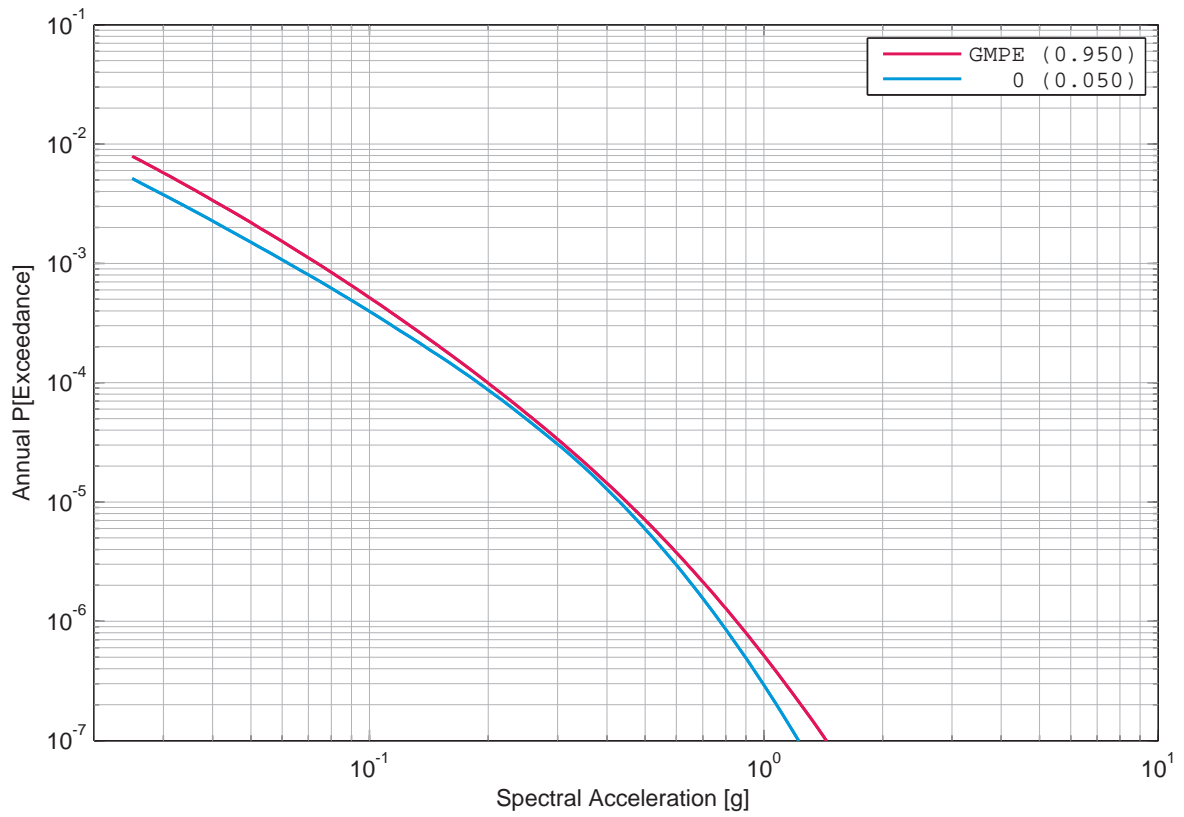


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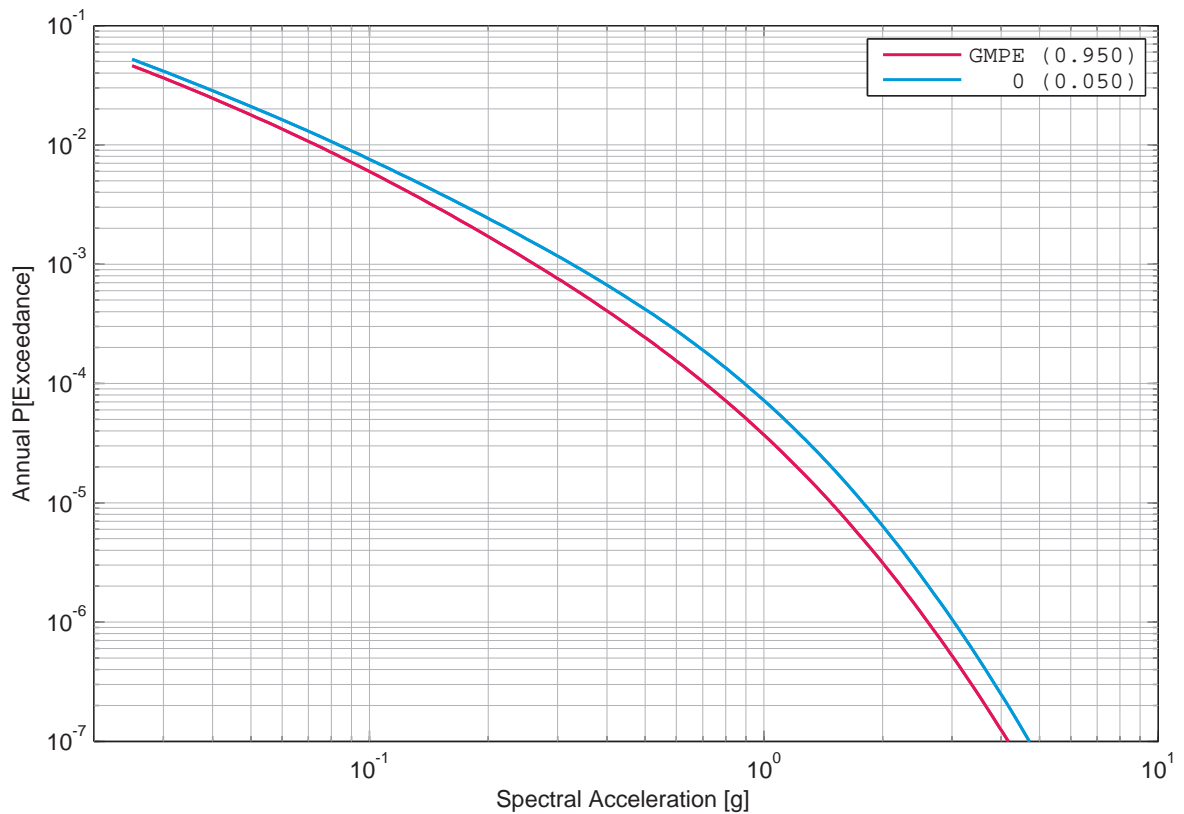


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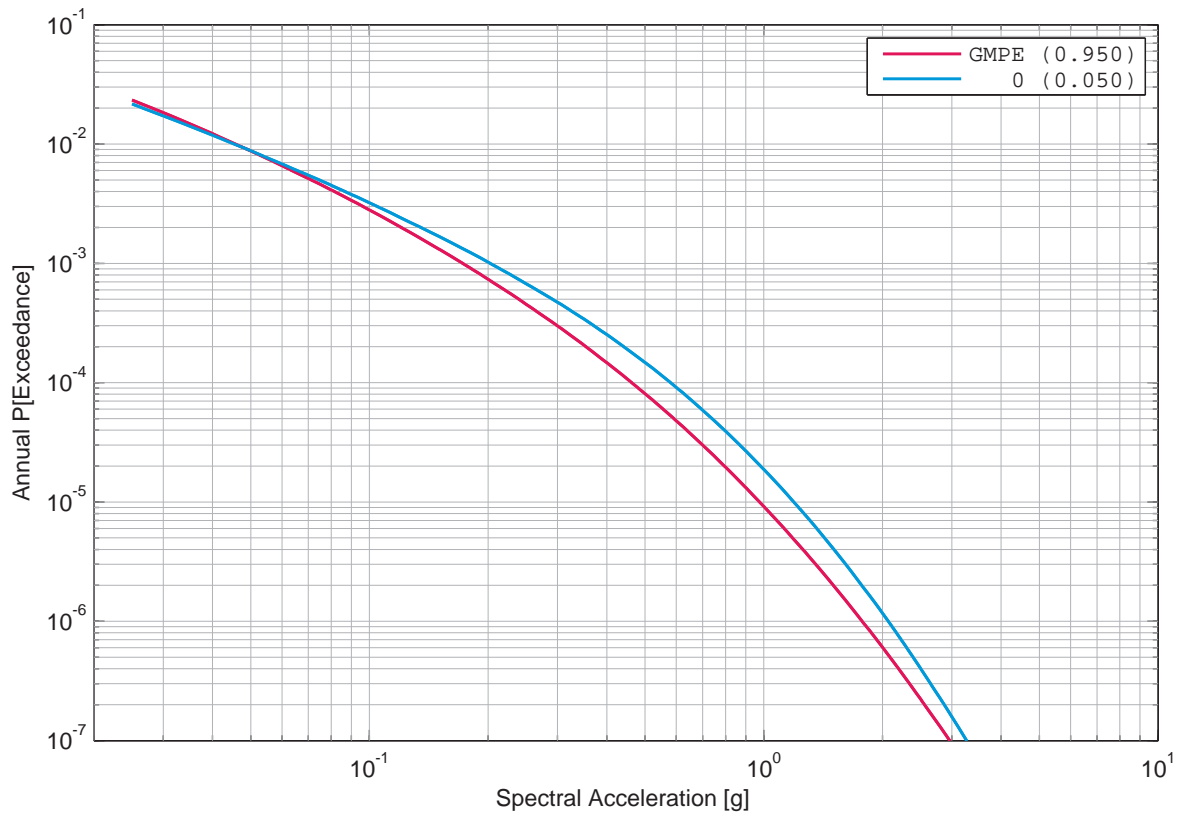


Figure 5.9.79: Mühleberg, horizontal component, rock, Faeh's sensitivity to the tau uncertainty, 33 Hz.

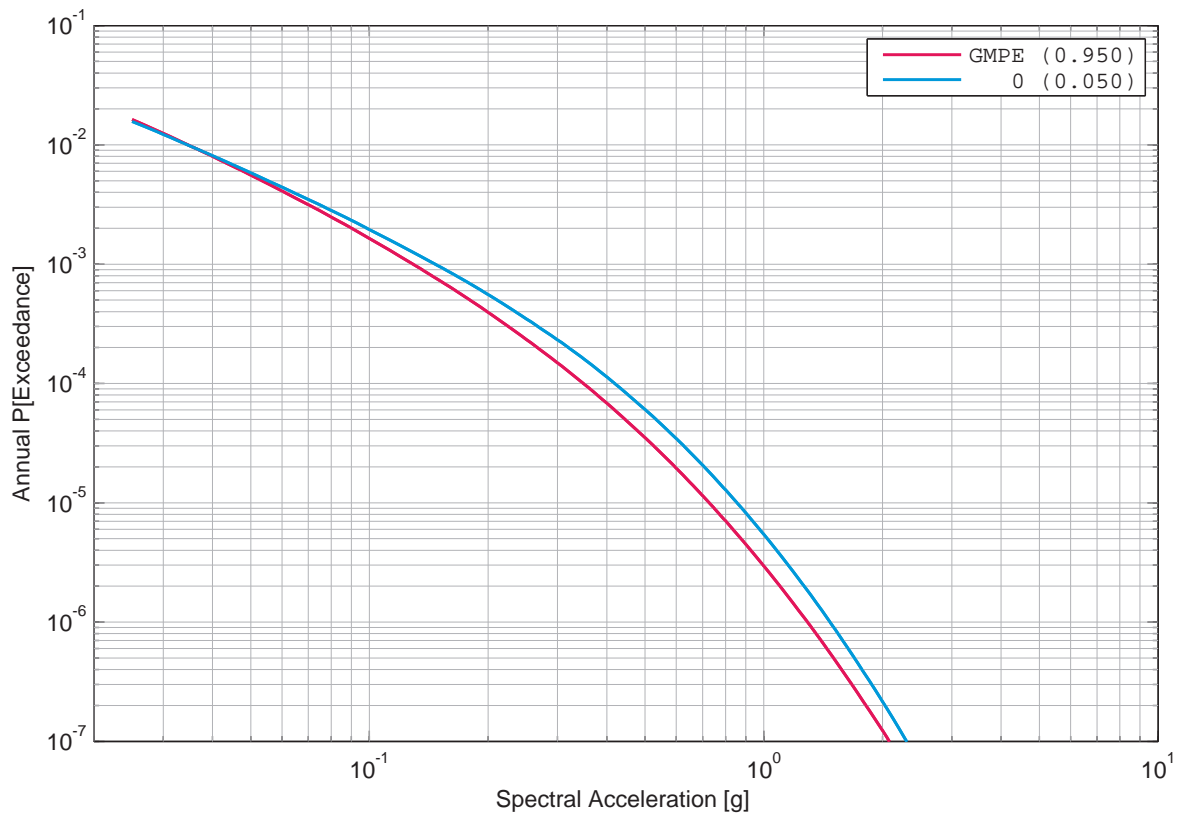


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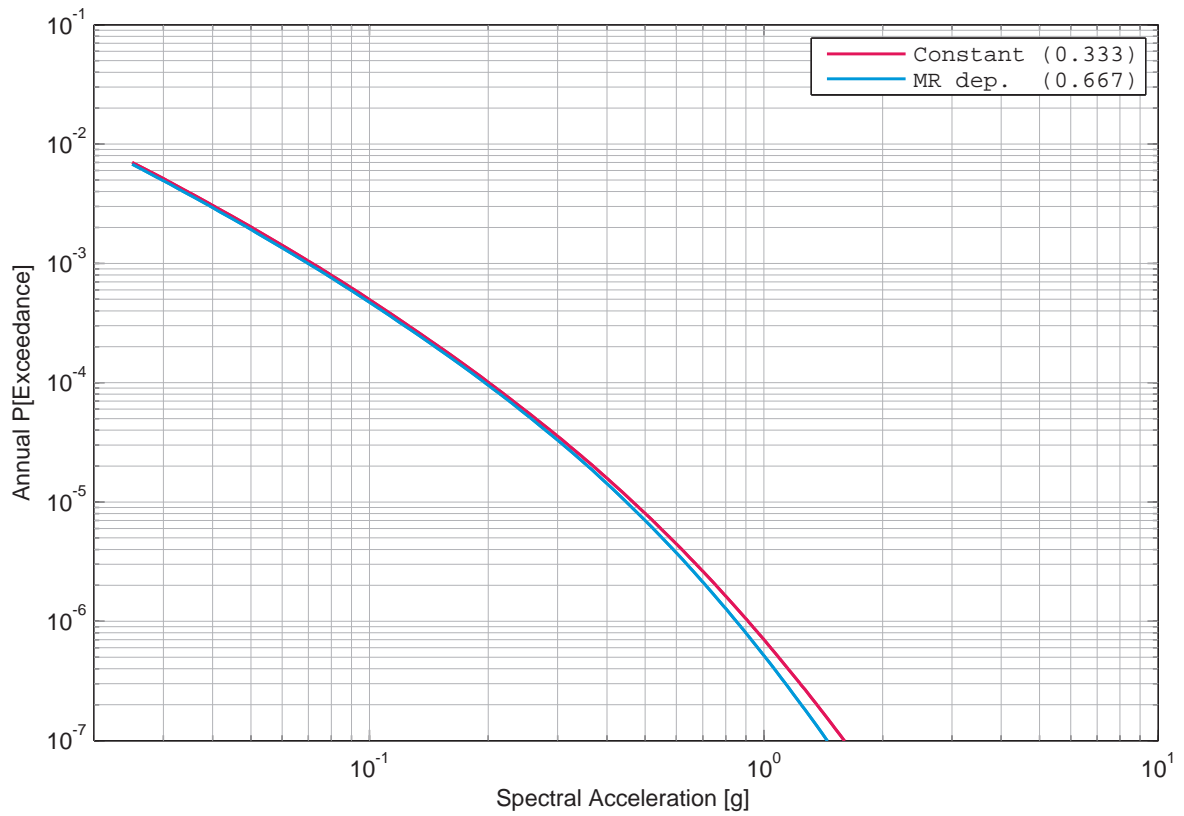


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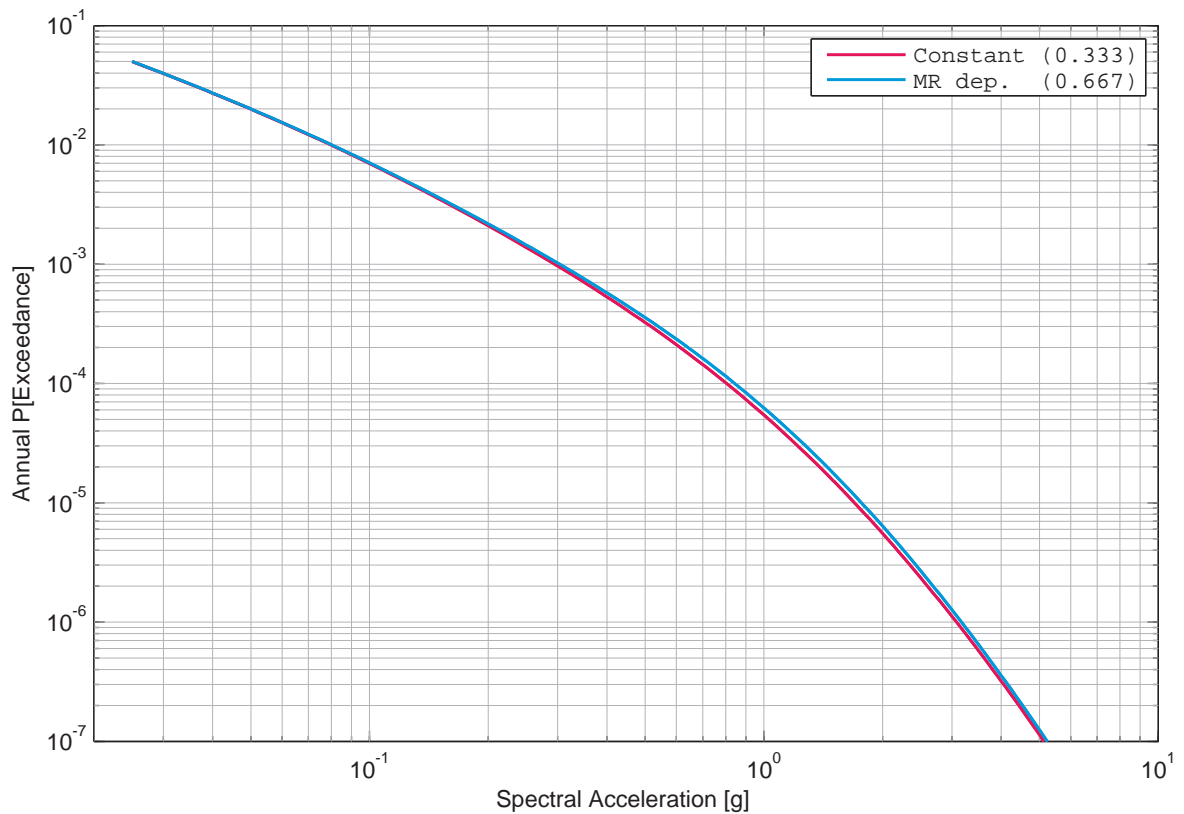


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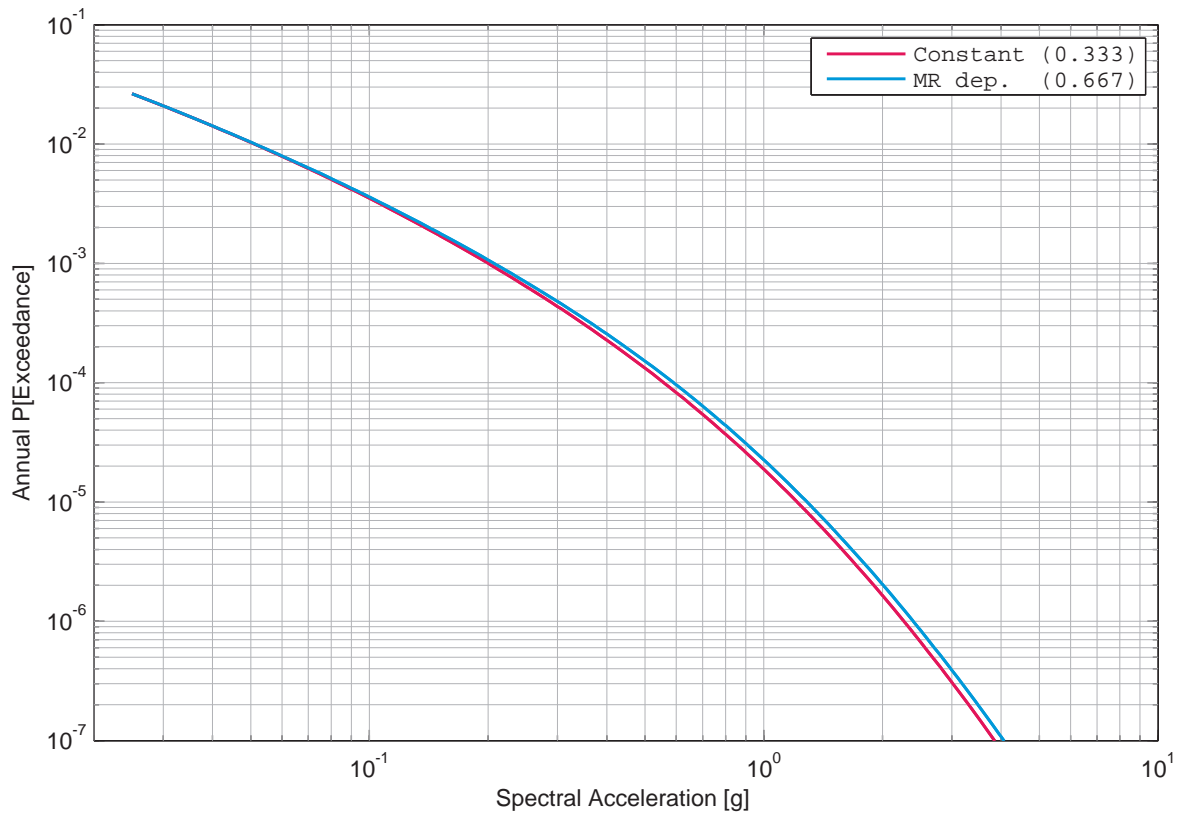


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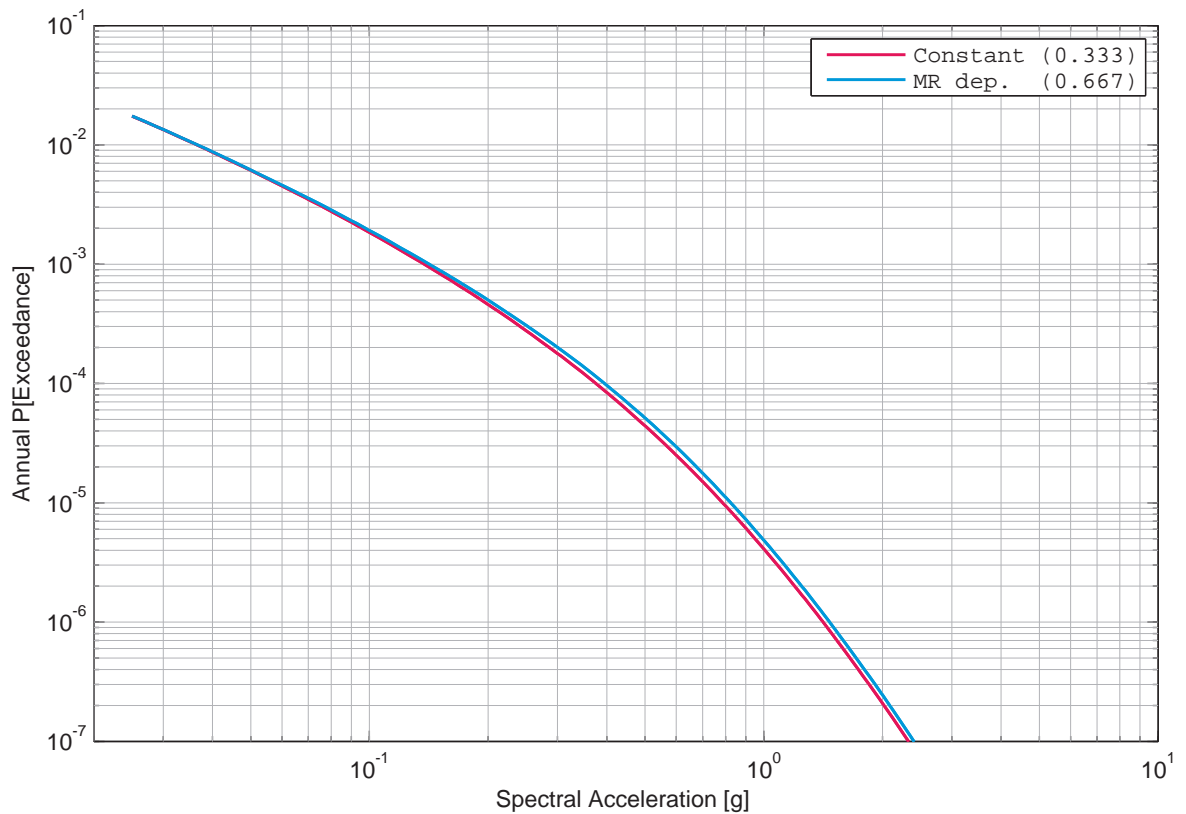


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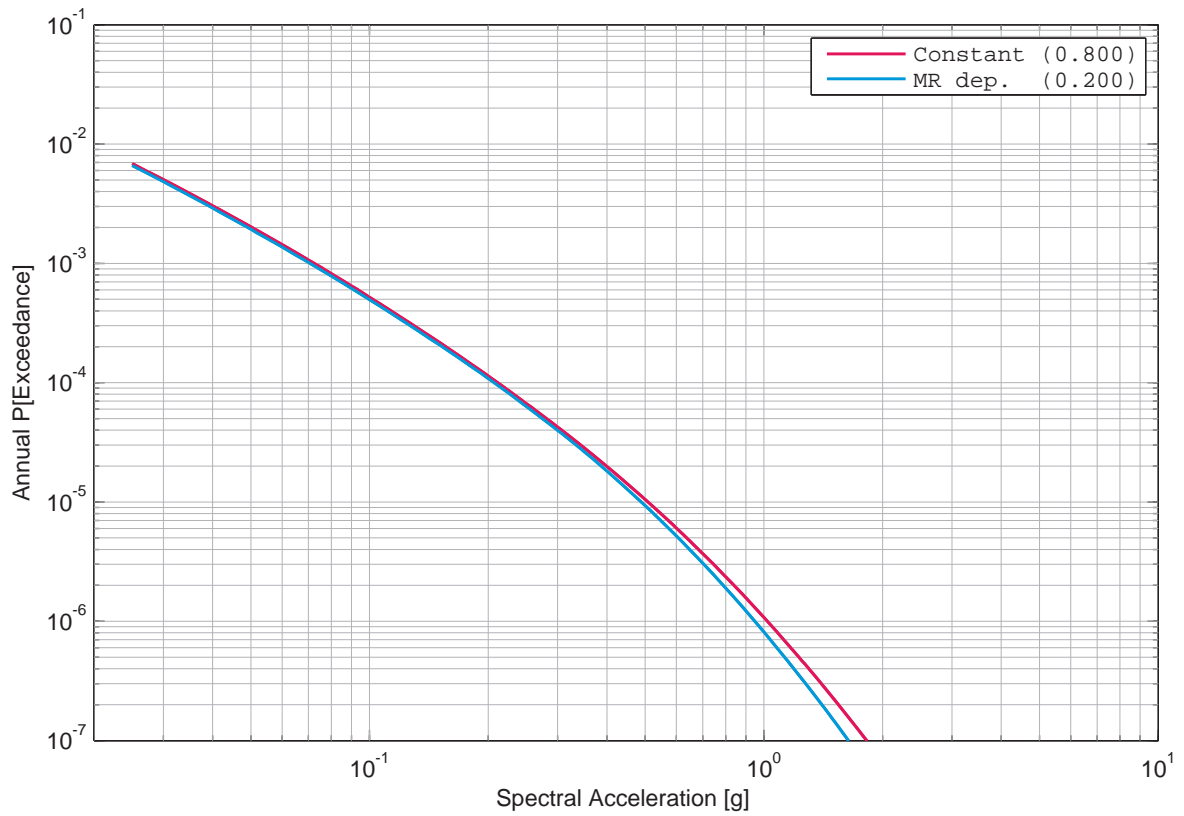


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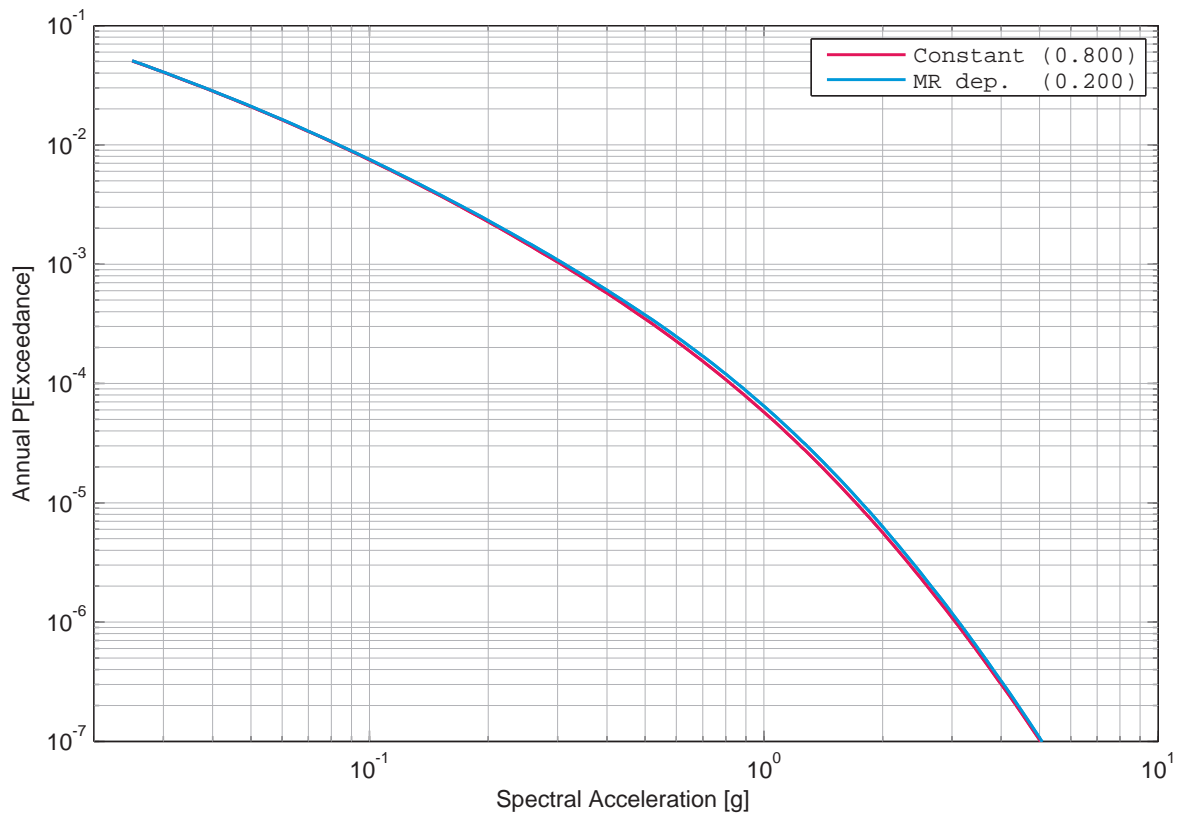


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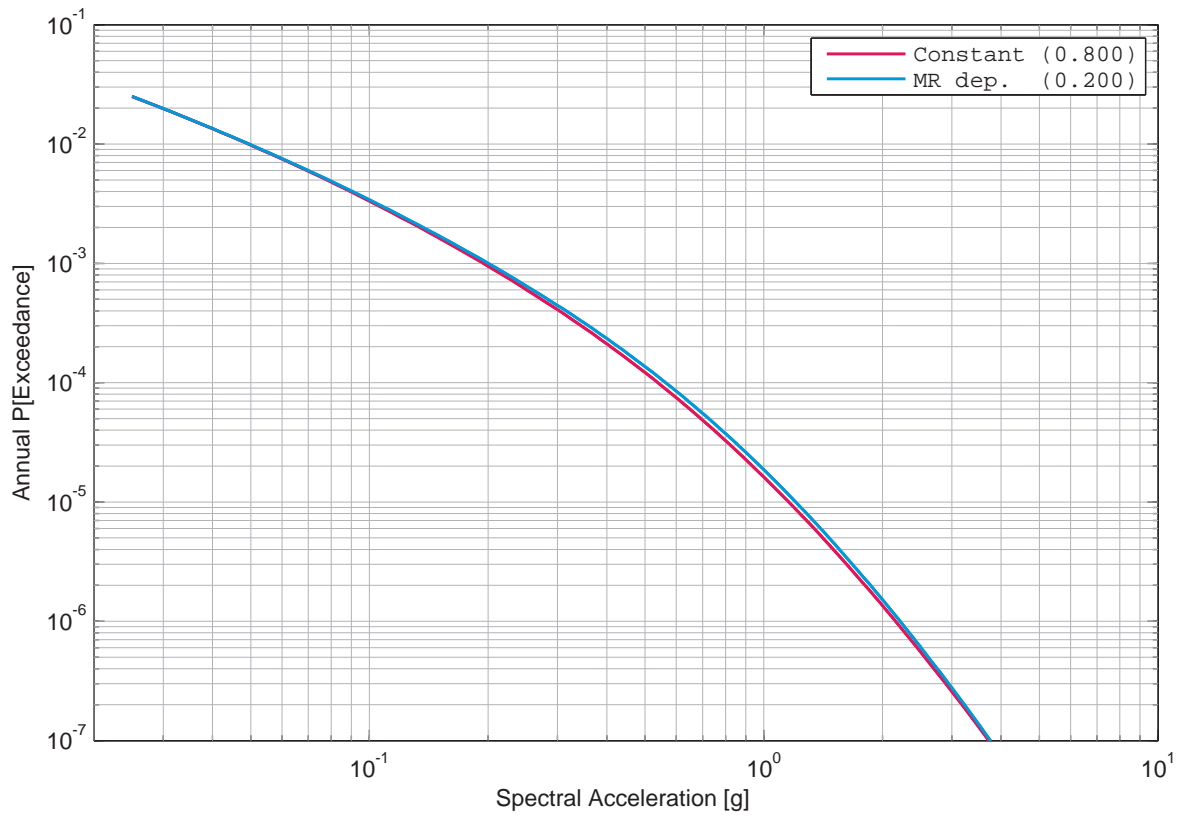


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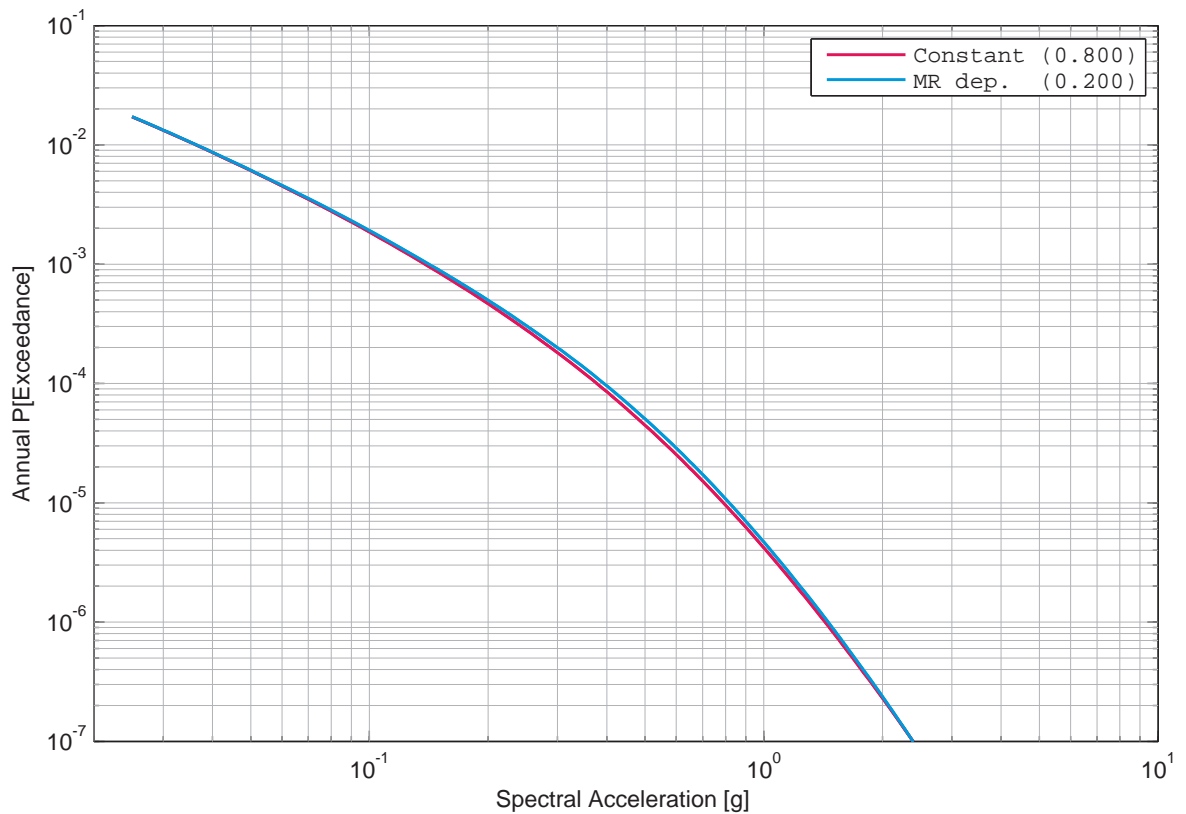


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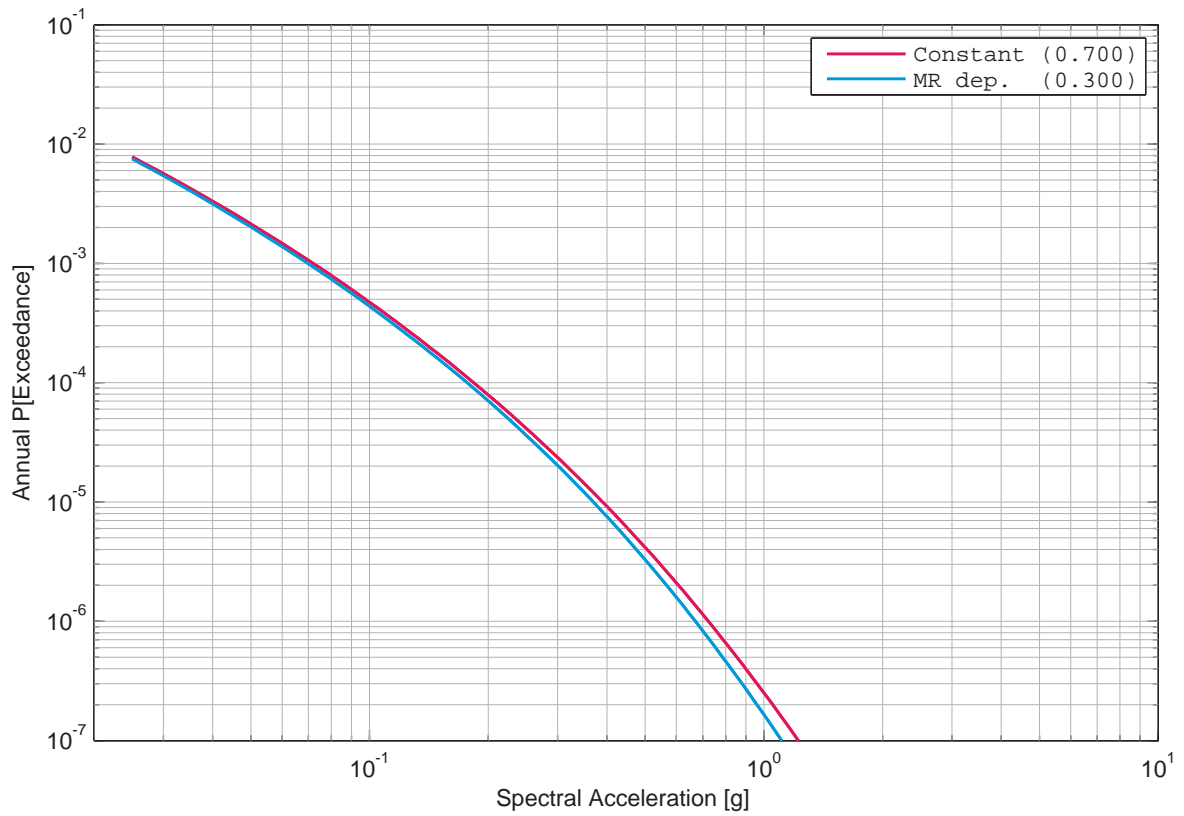


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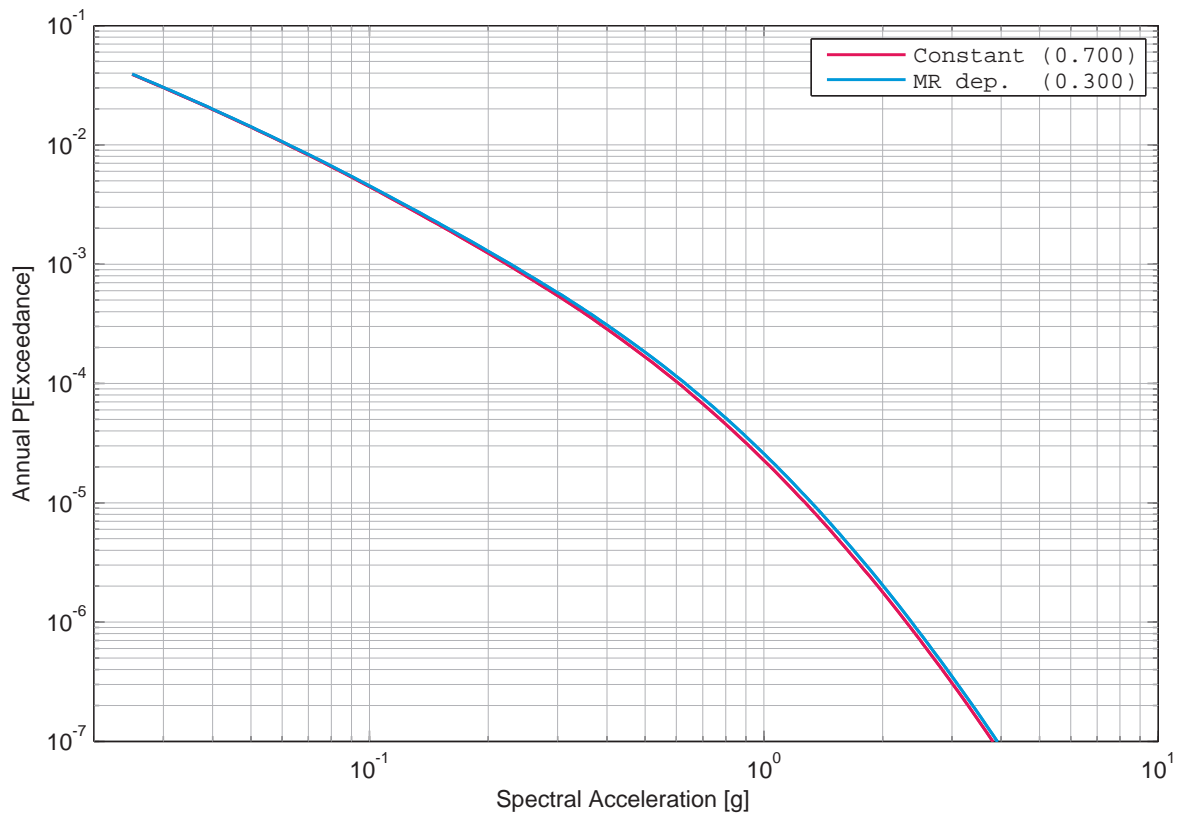


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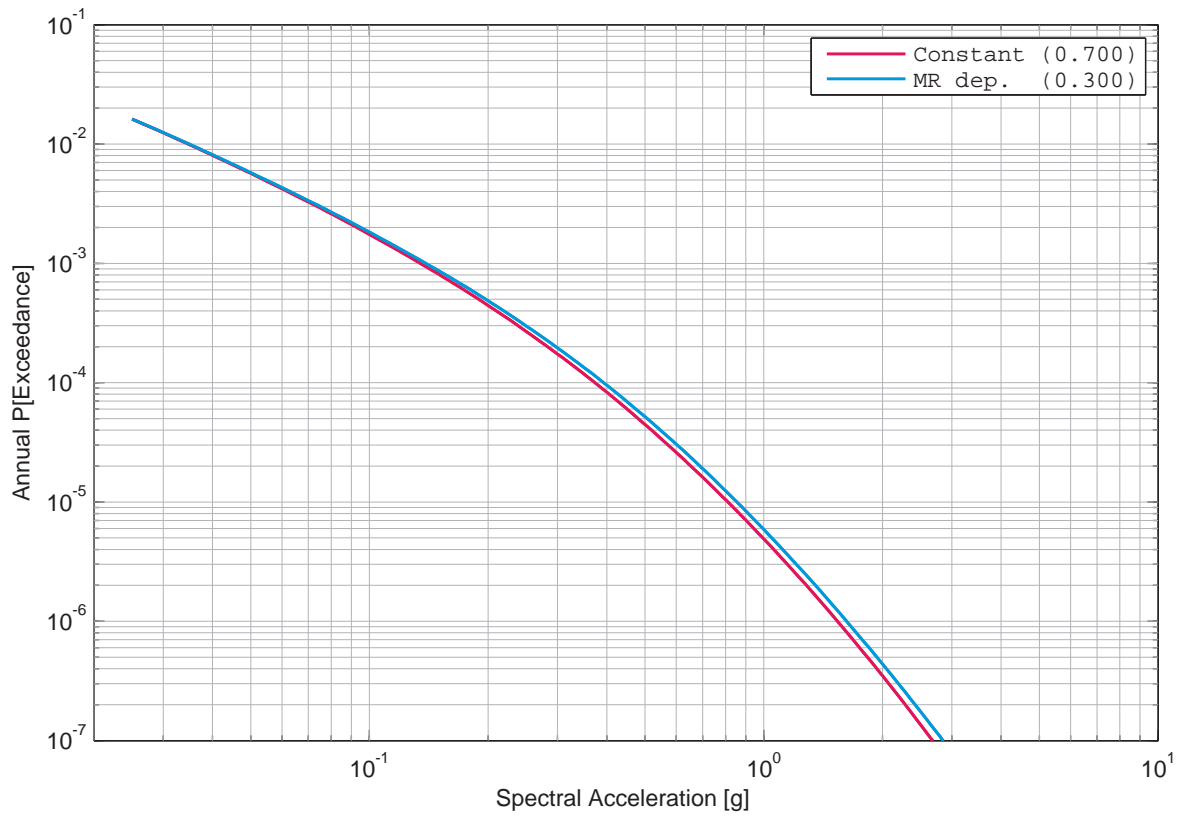


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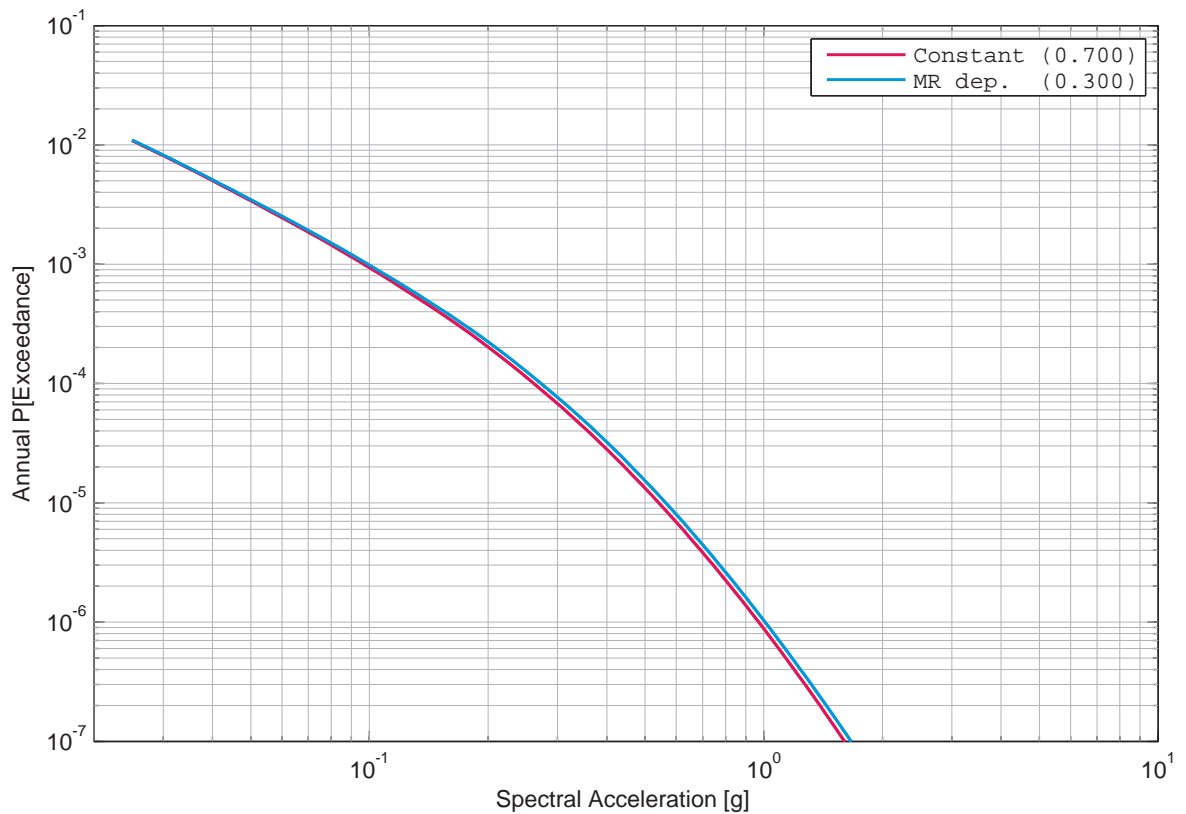


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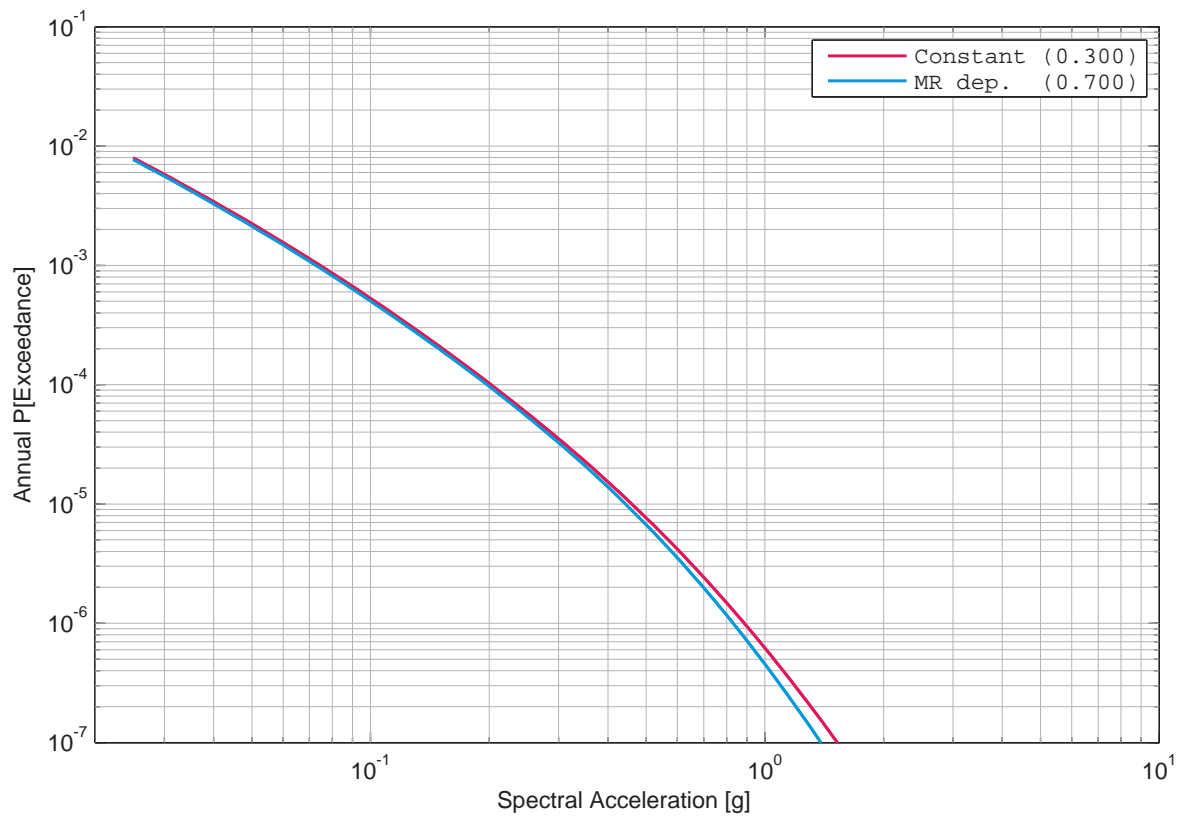


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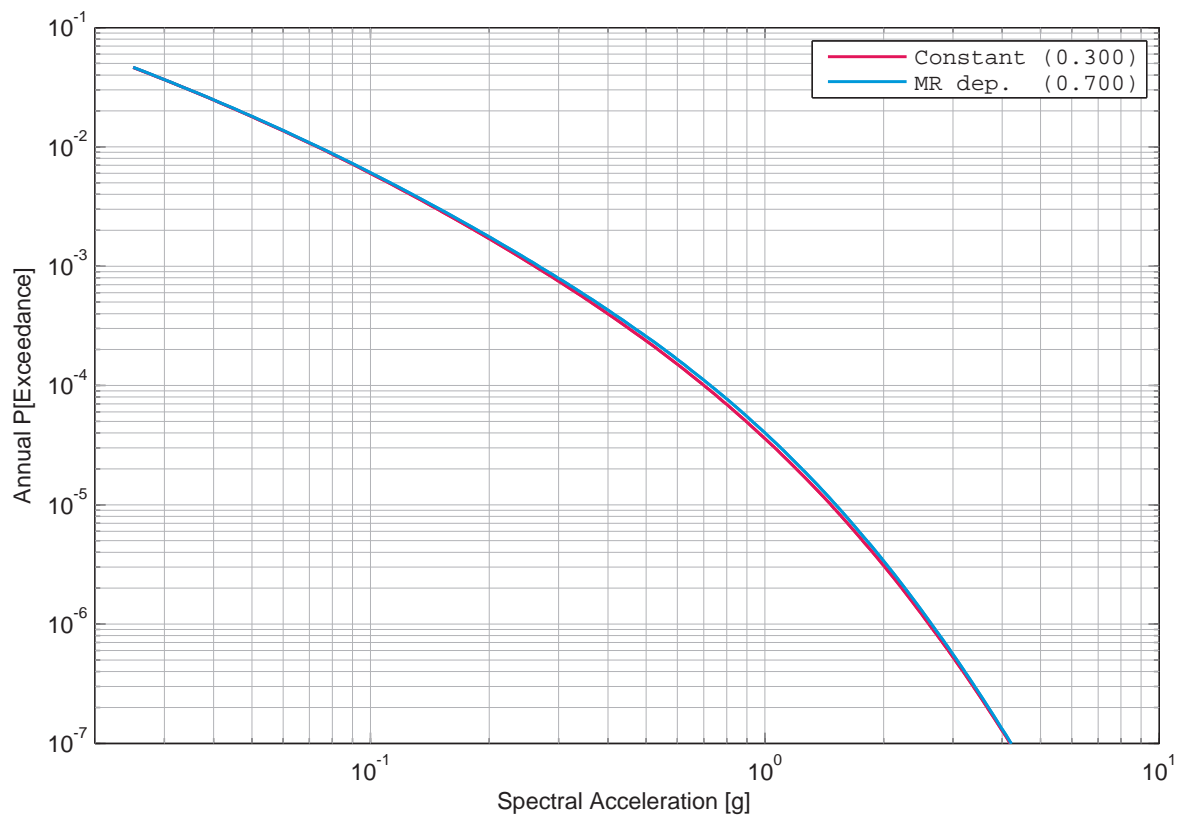


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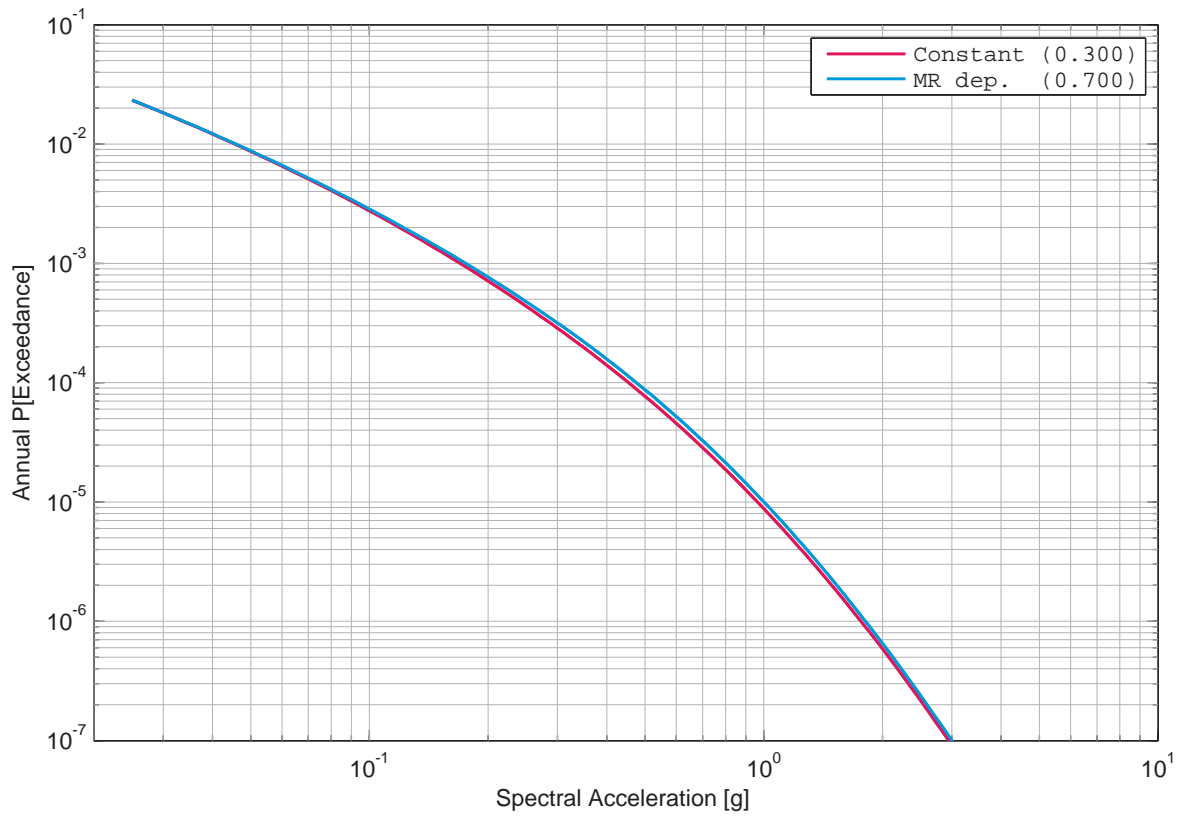


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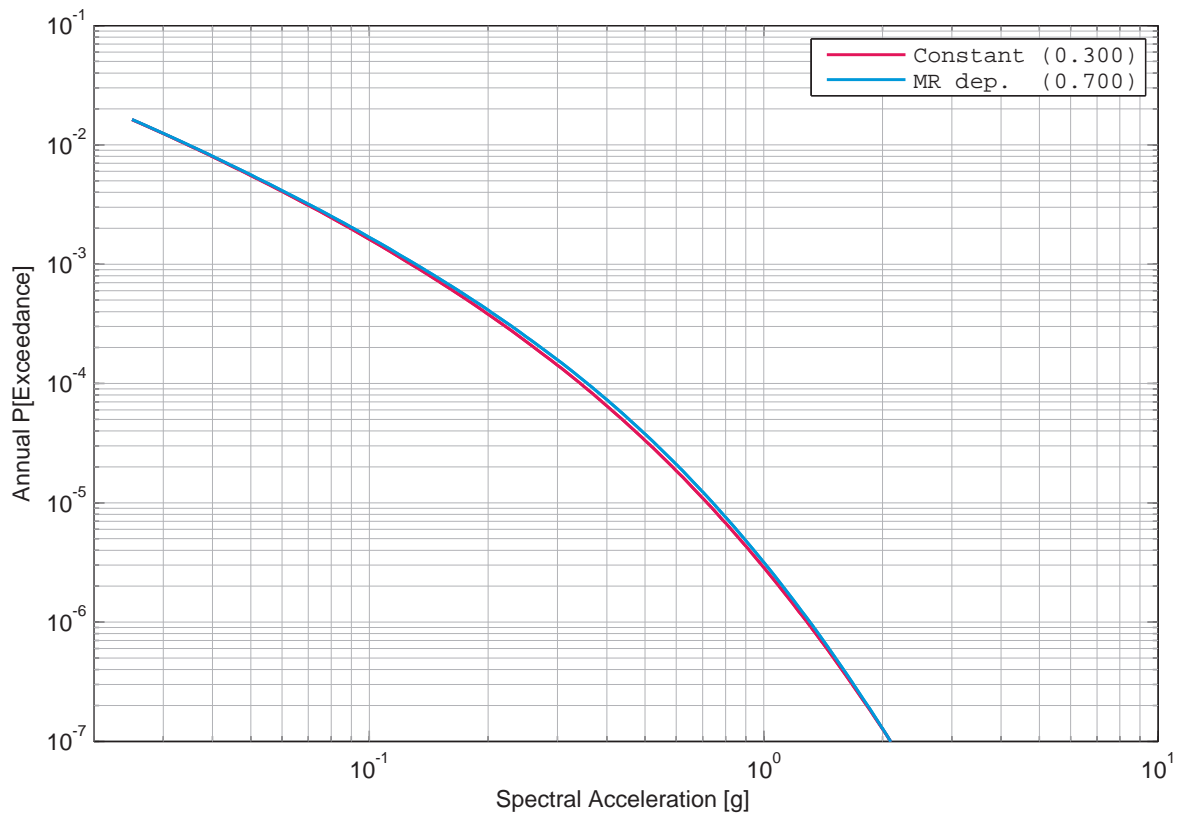


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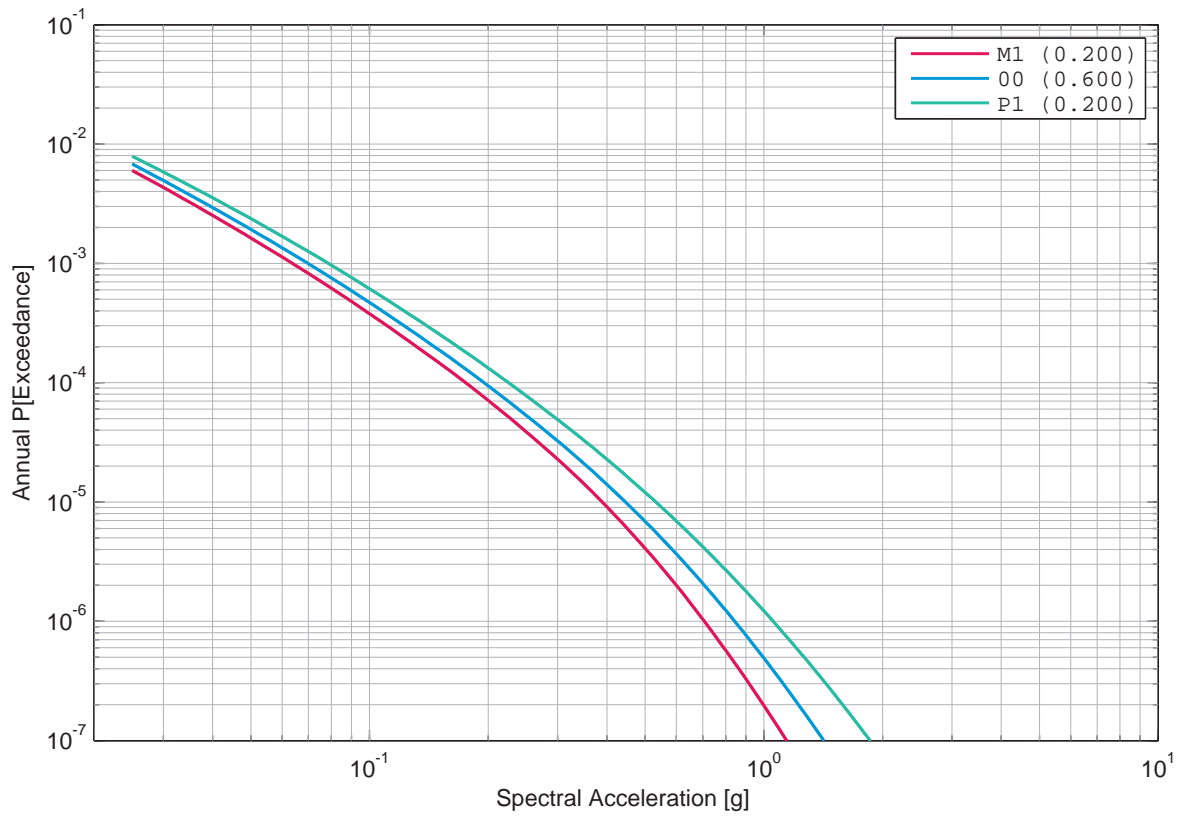


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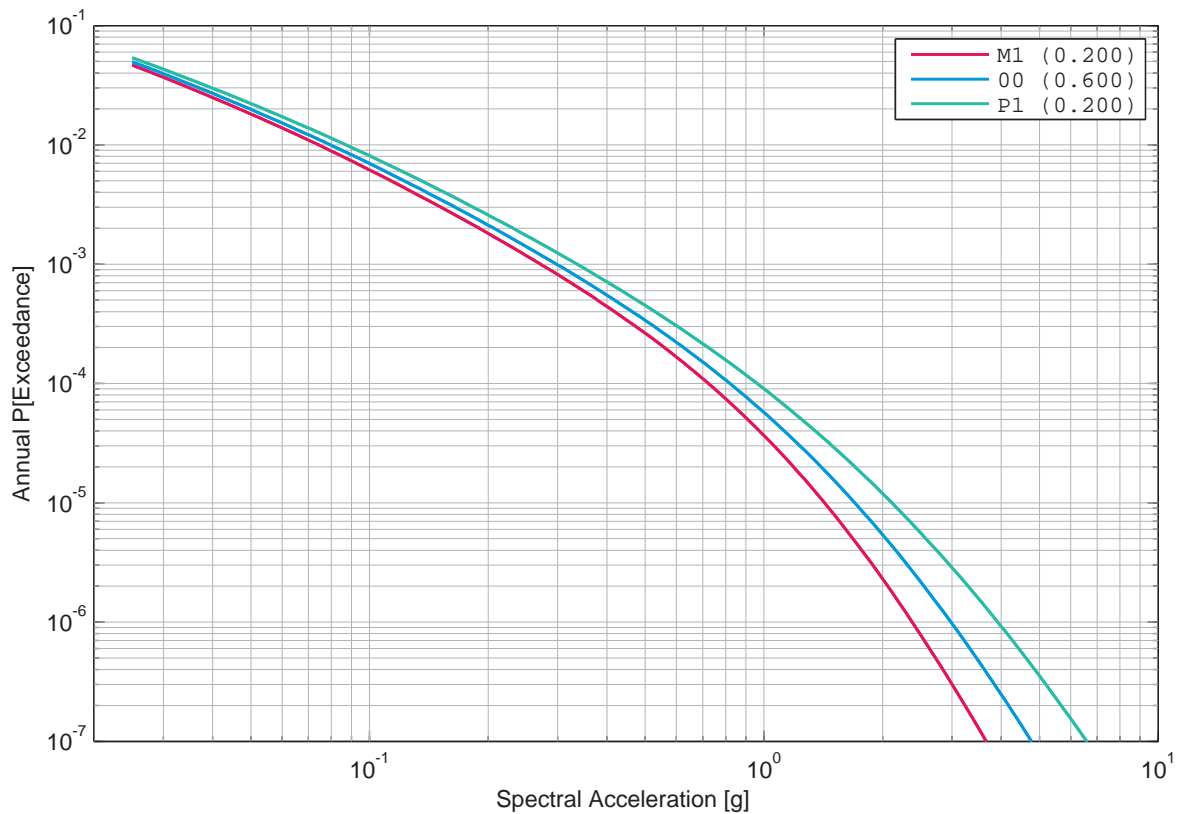


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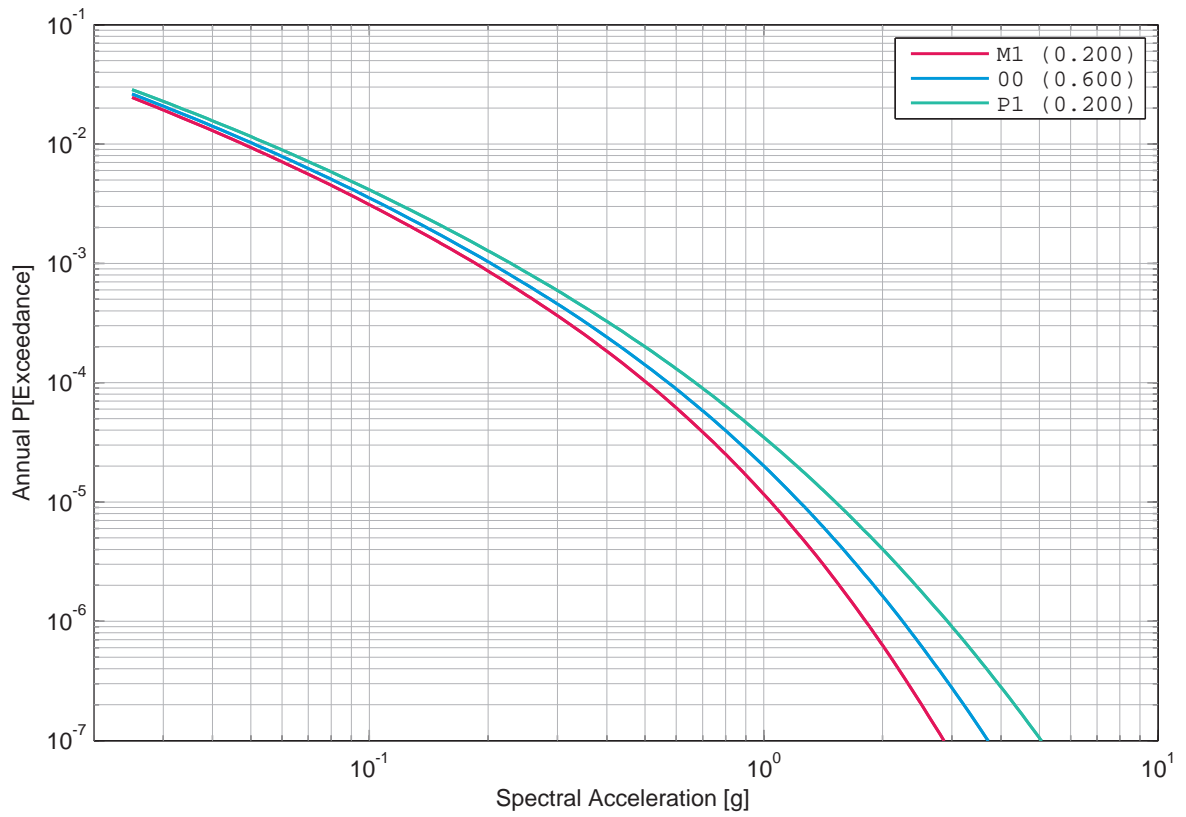


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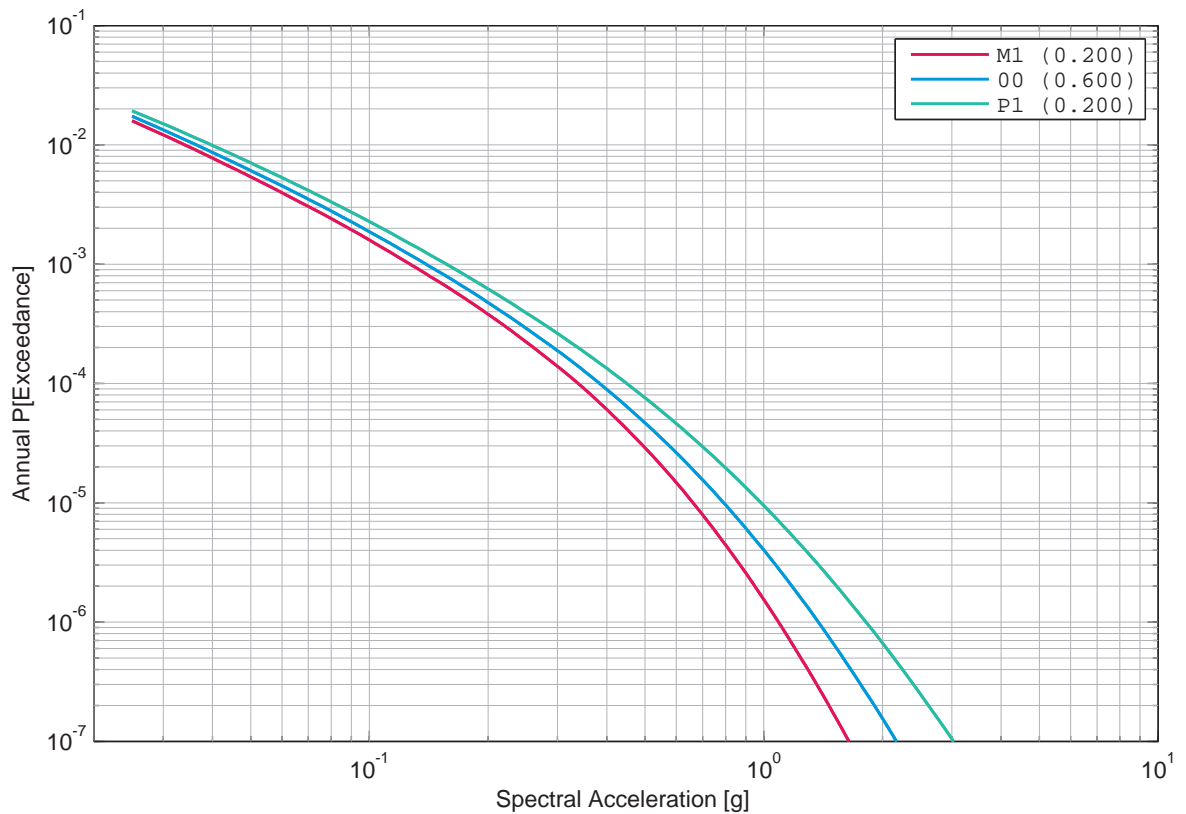


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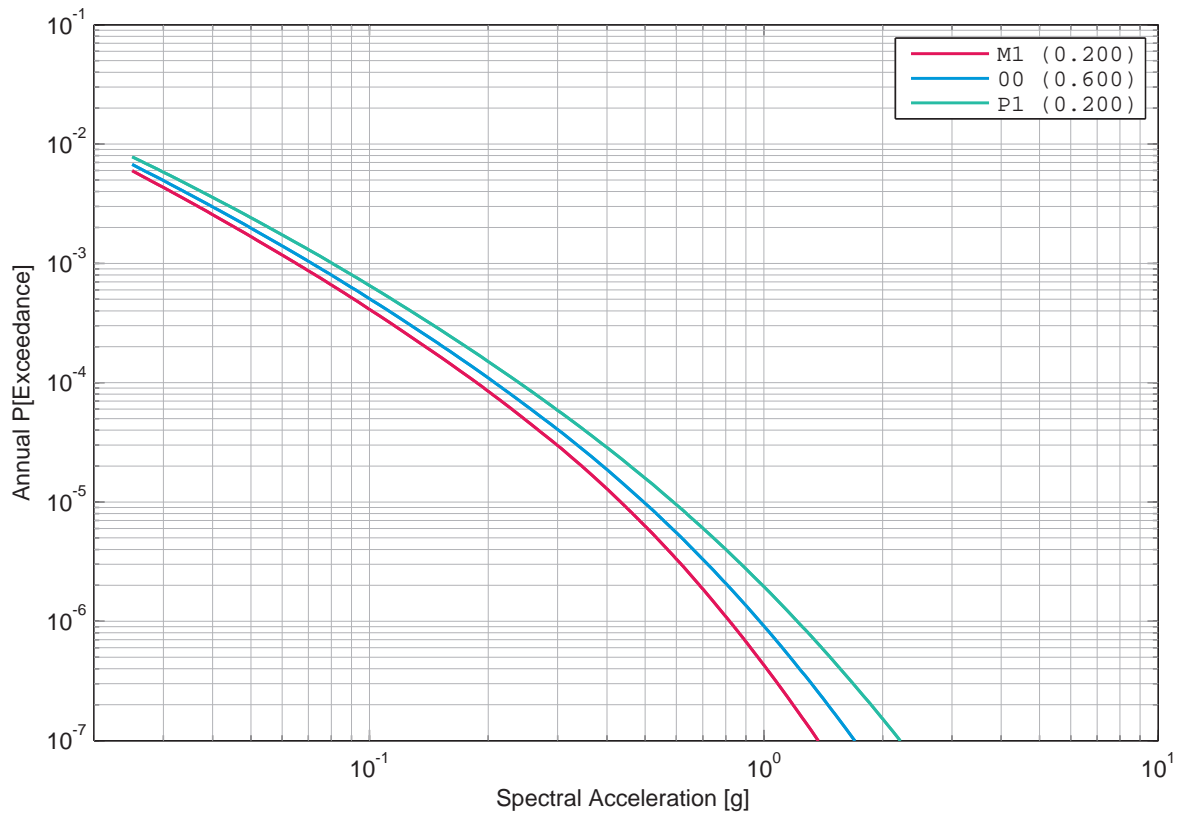


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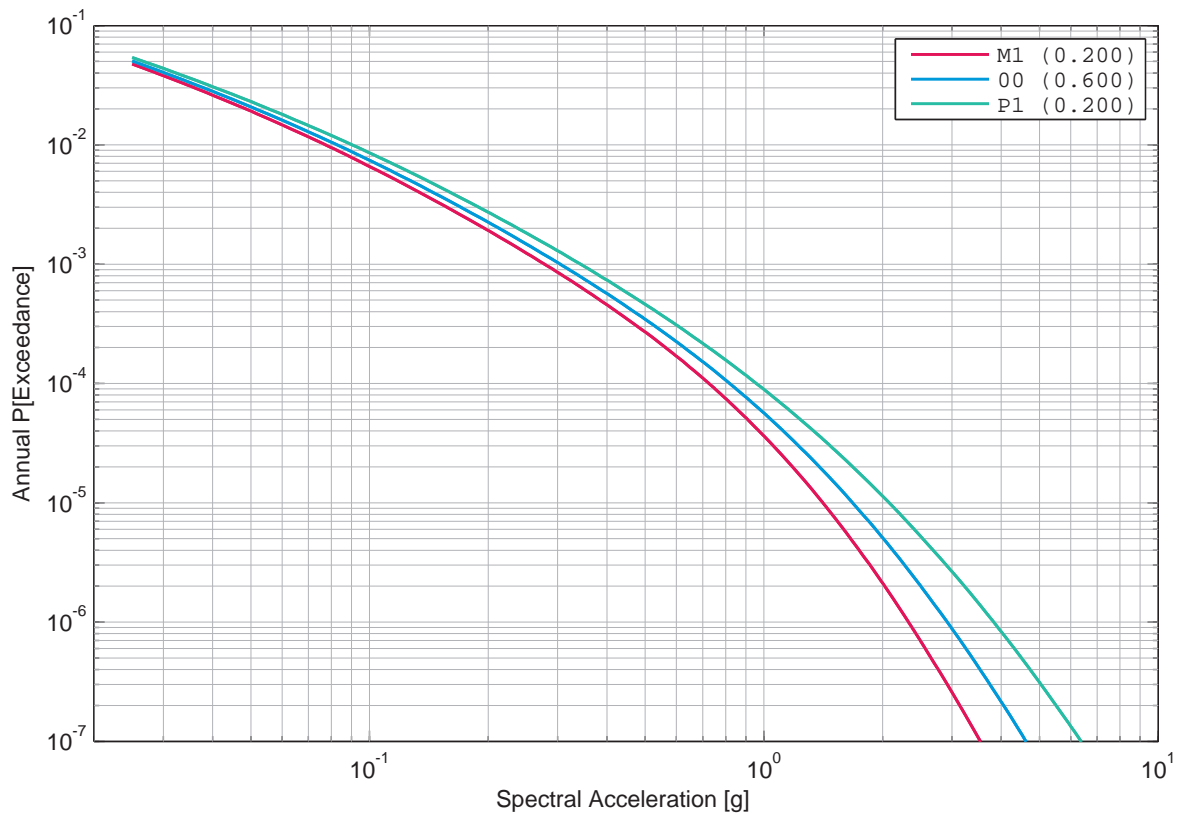


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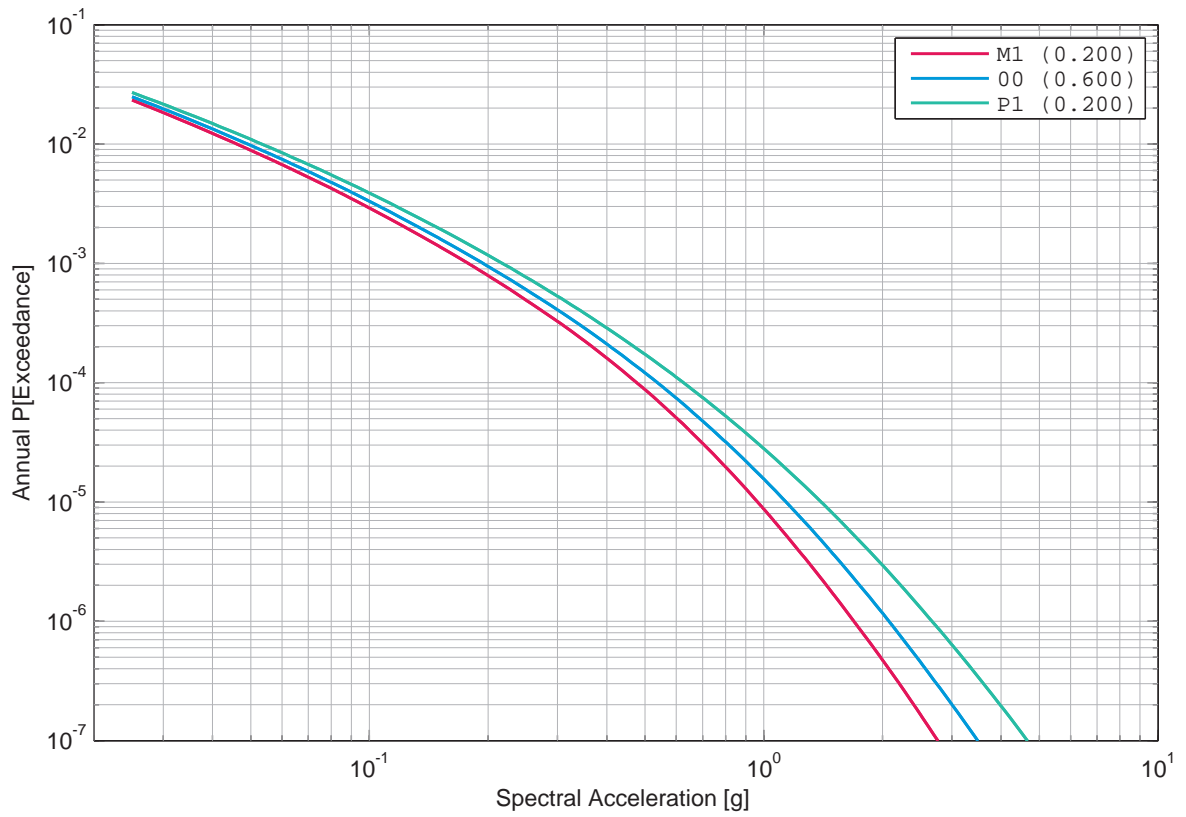


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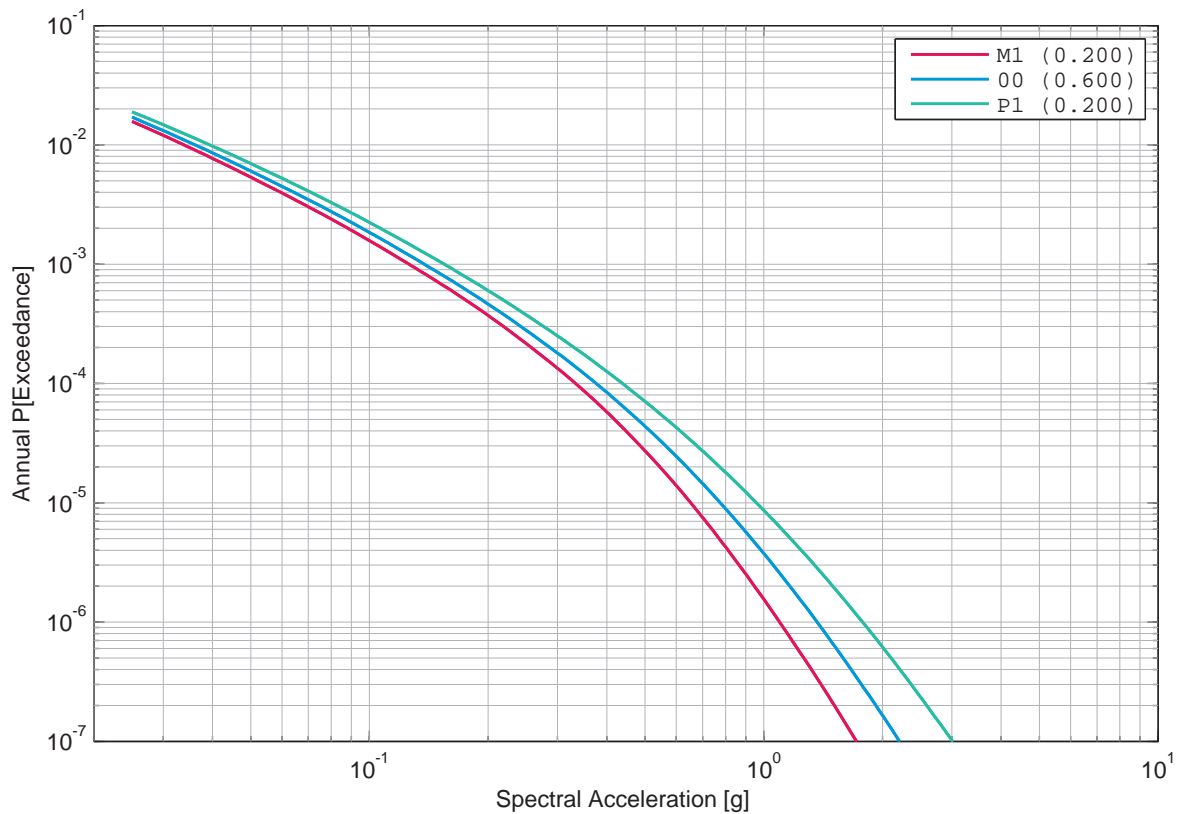


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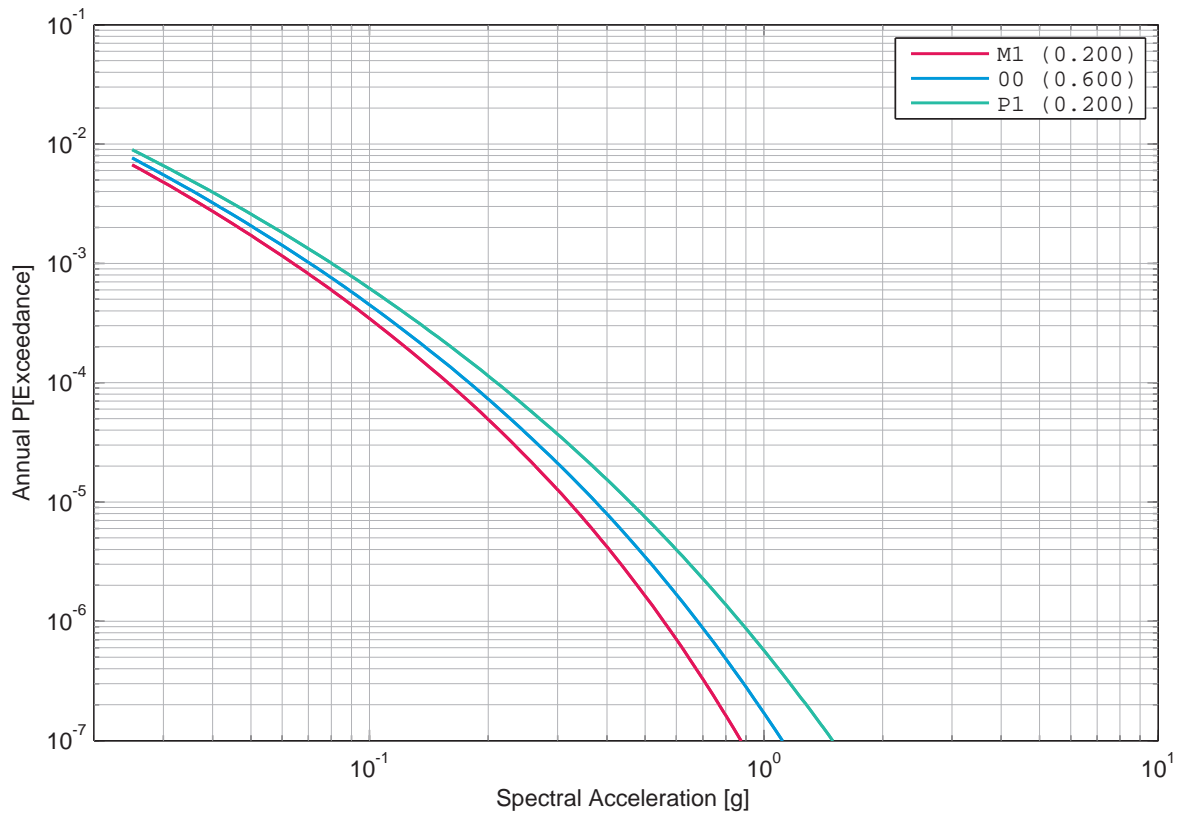


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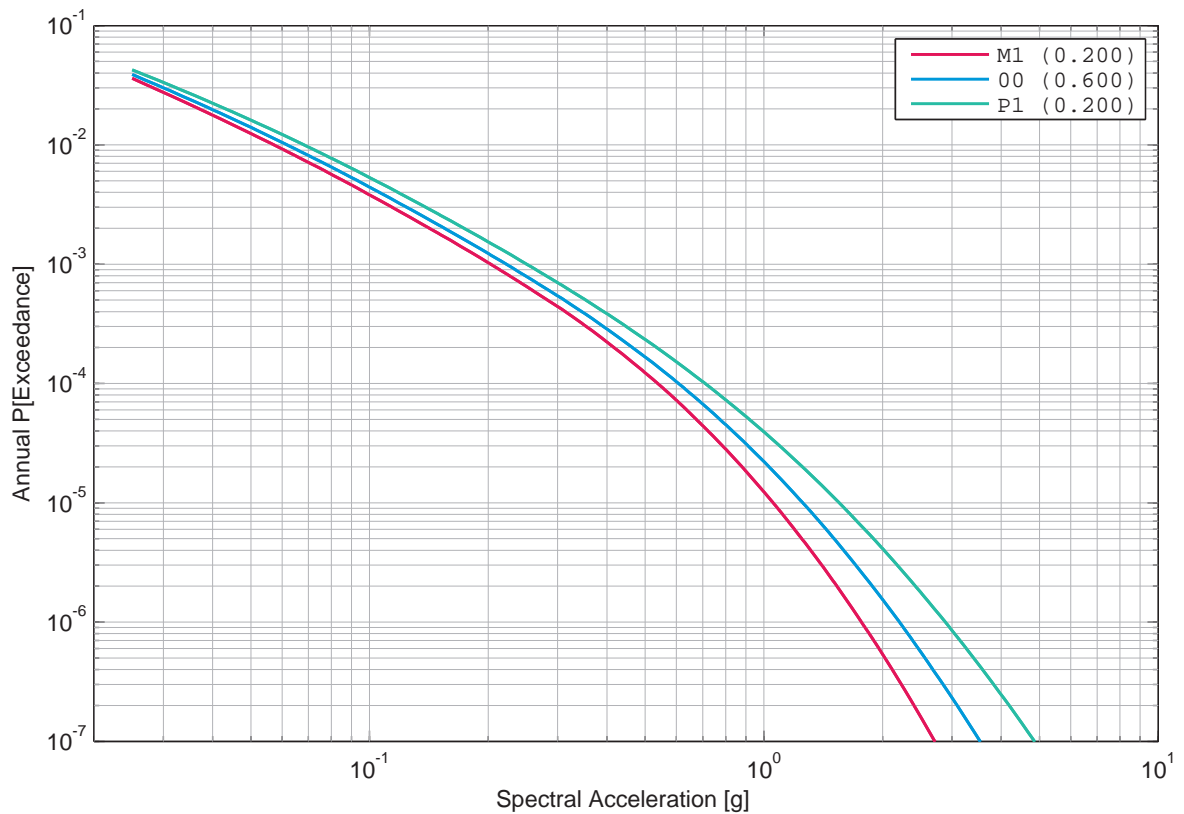


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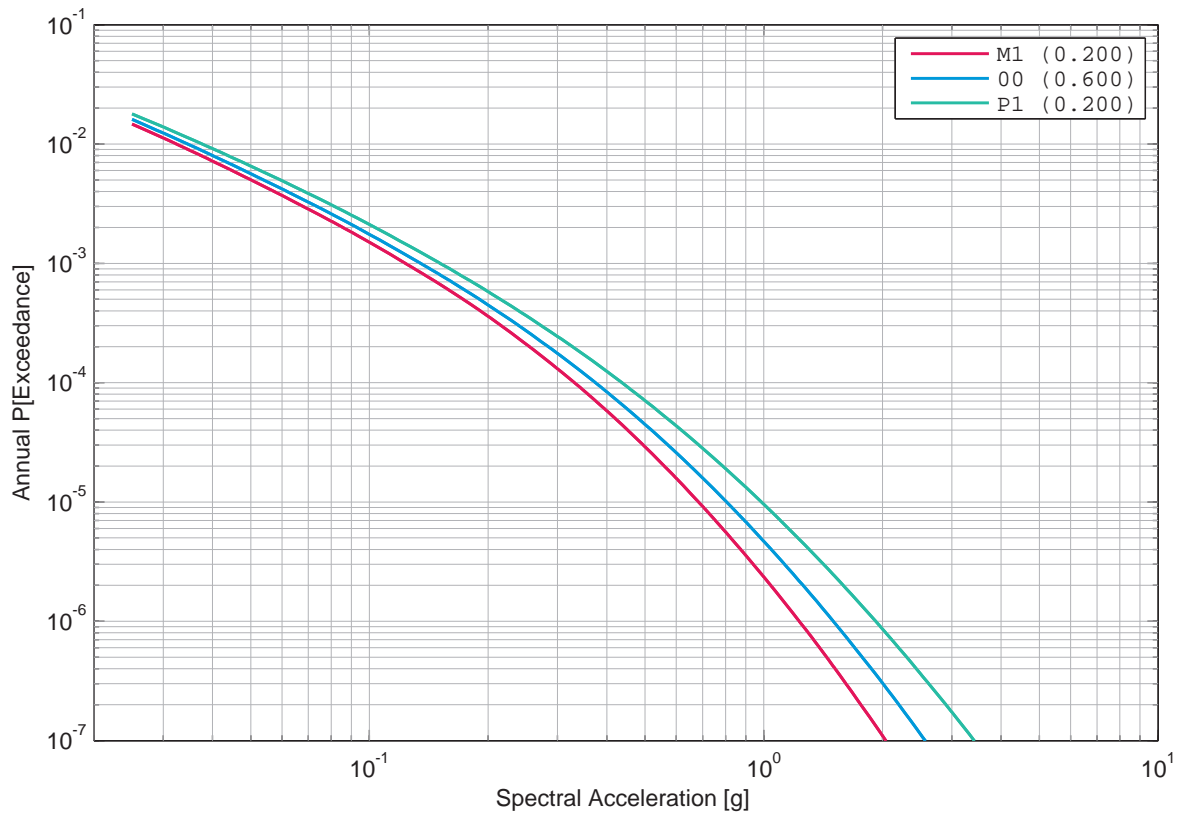


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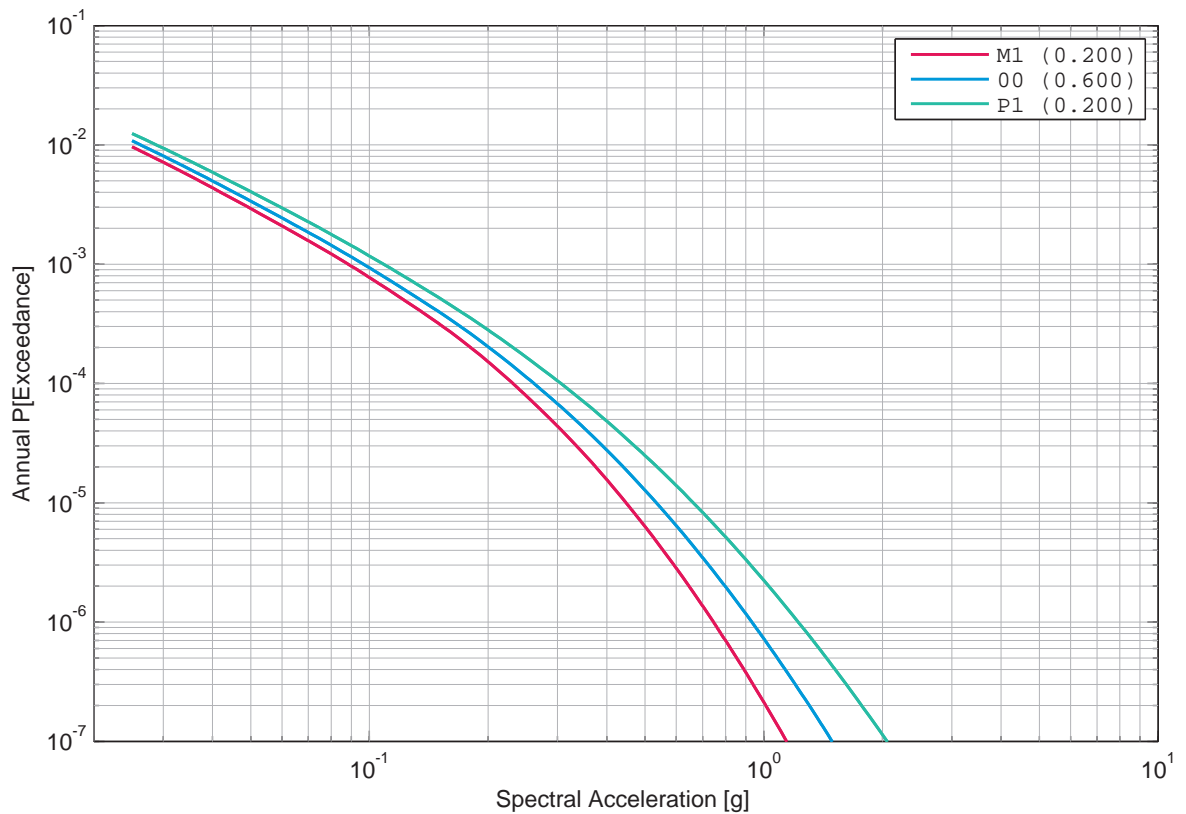


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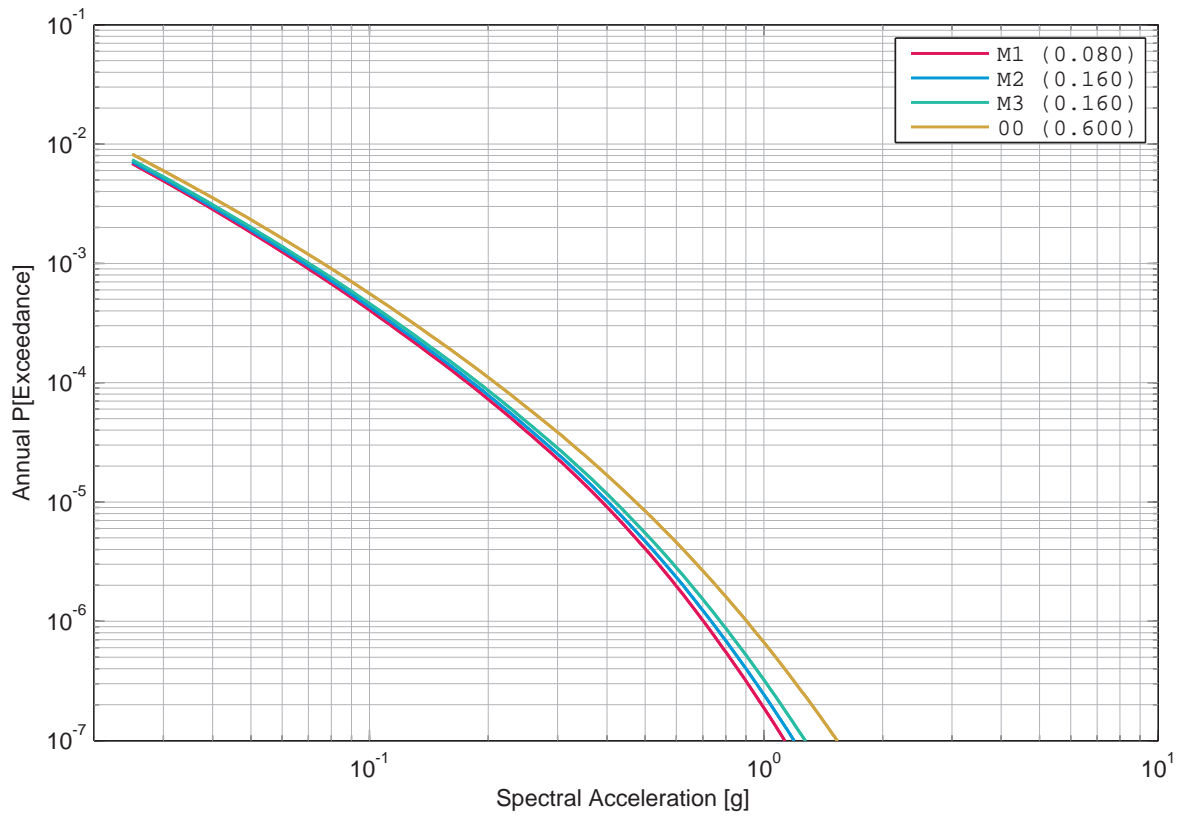


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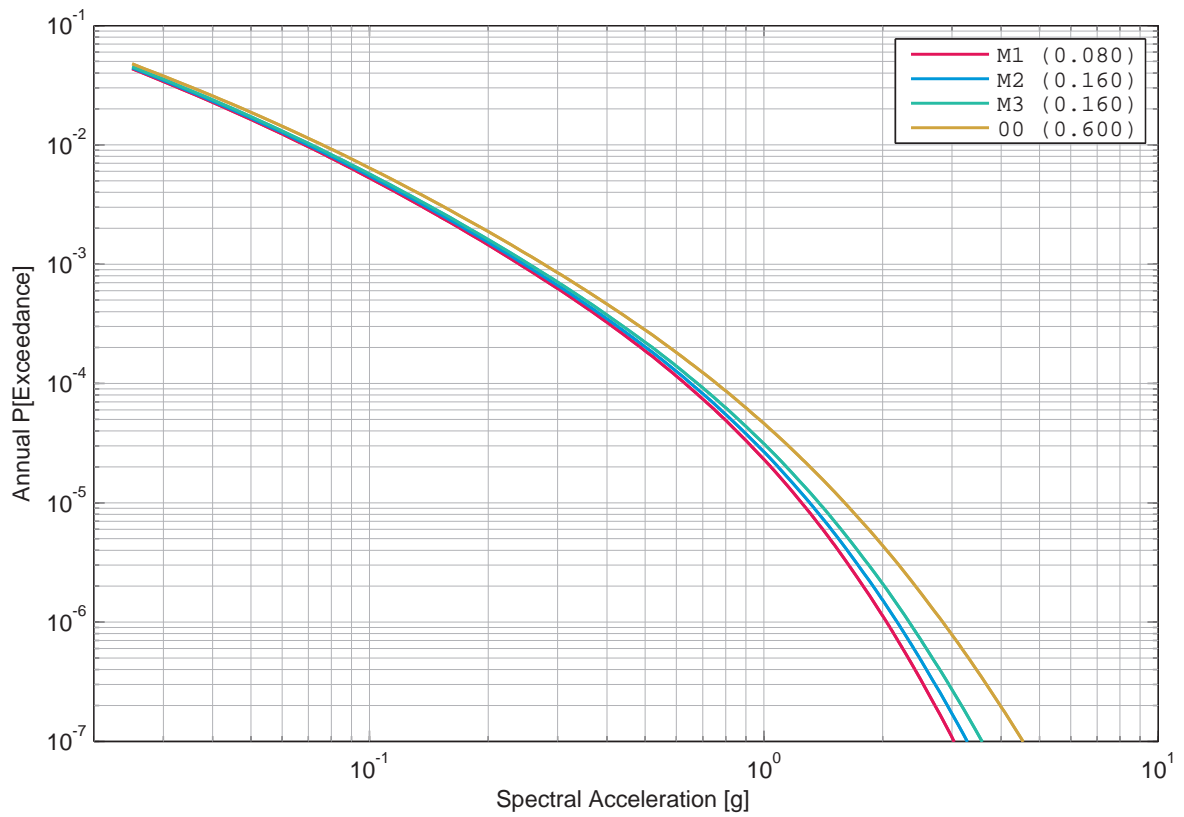


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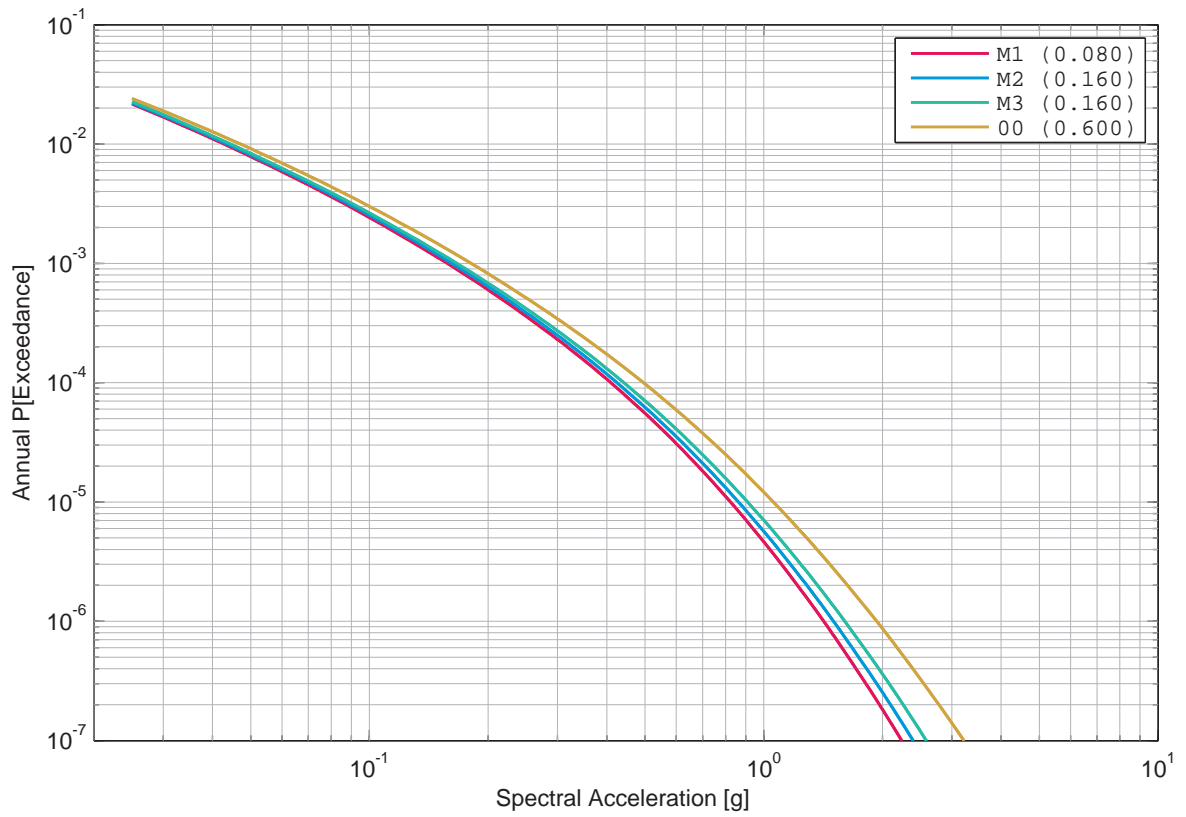


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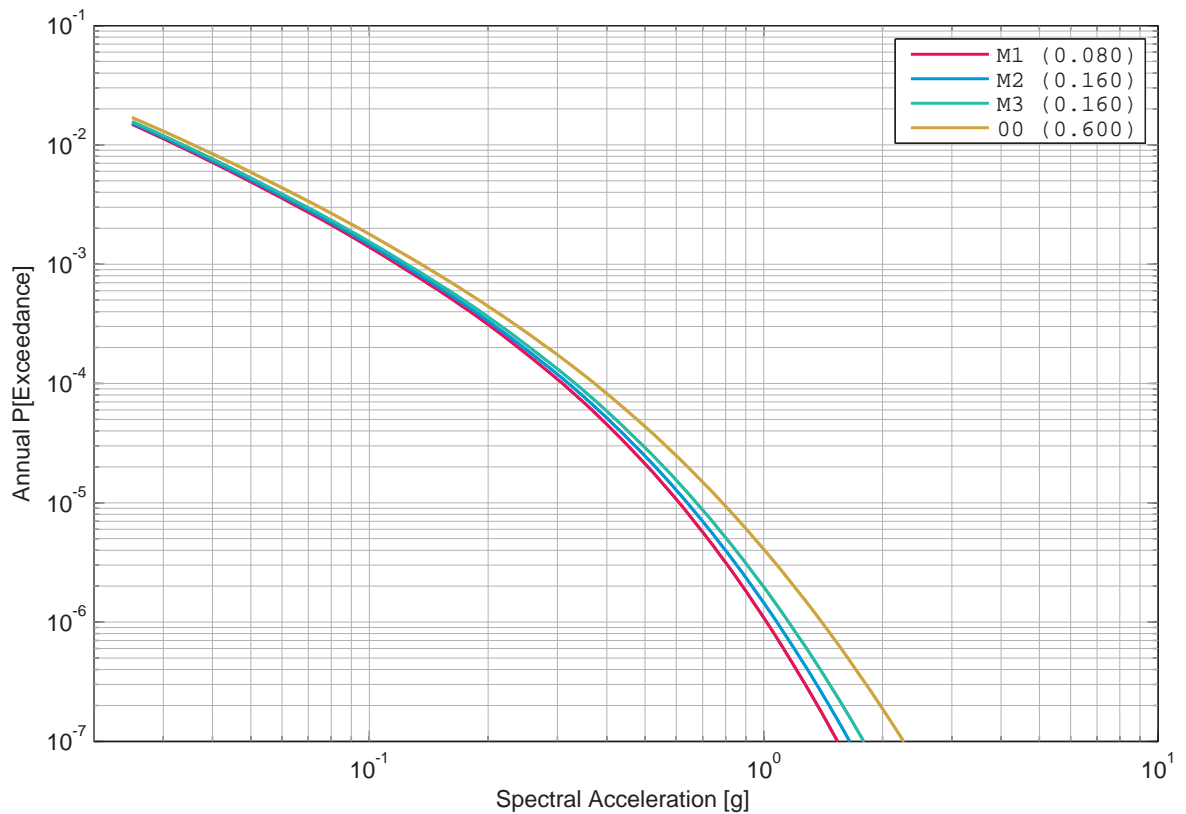


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5.10 Mühleberg, Horizontal Component, Soil, Sensitivity to Depth Level

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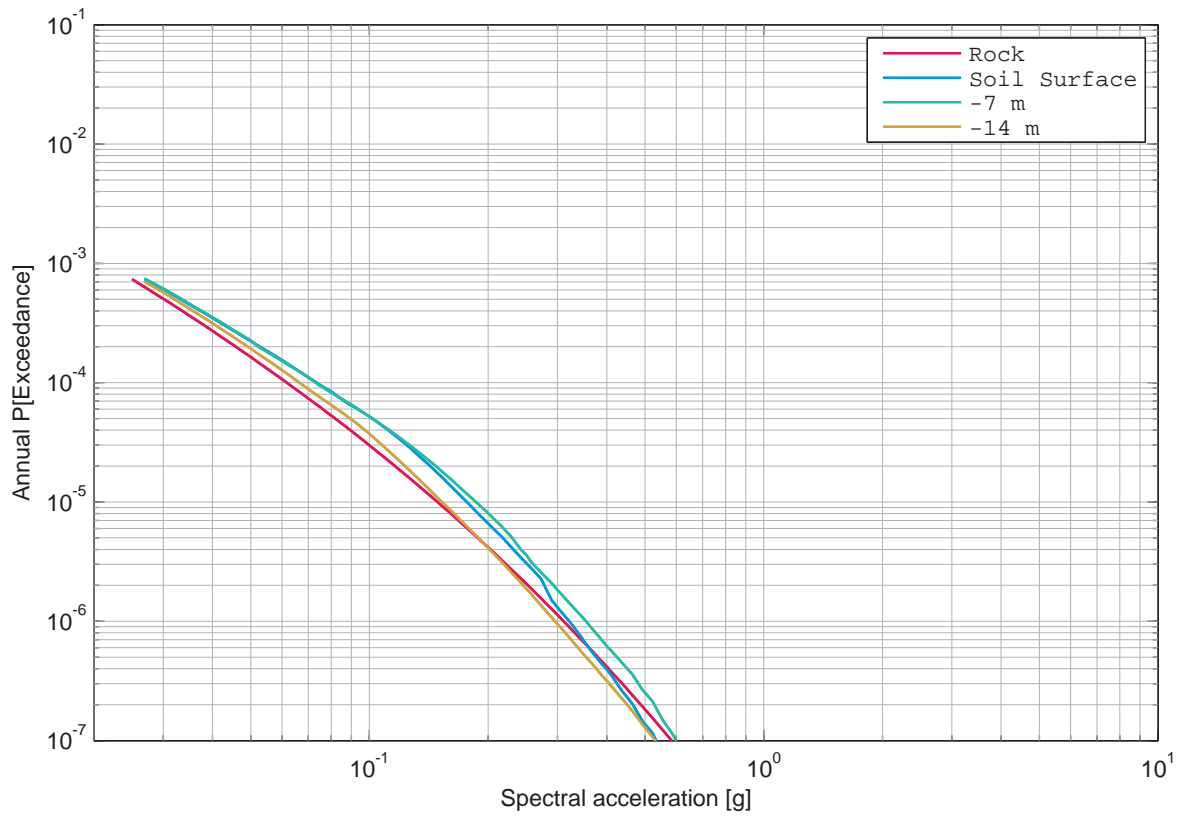


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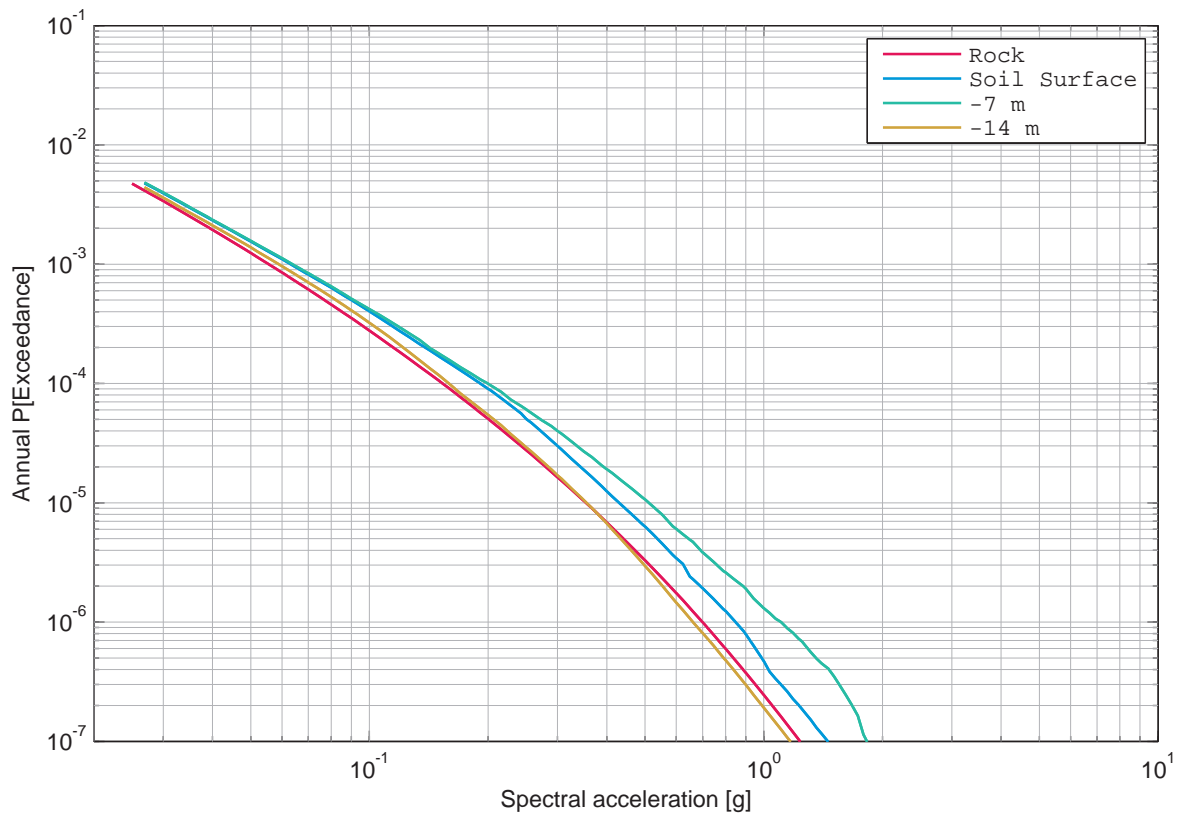


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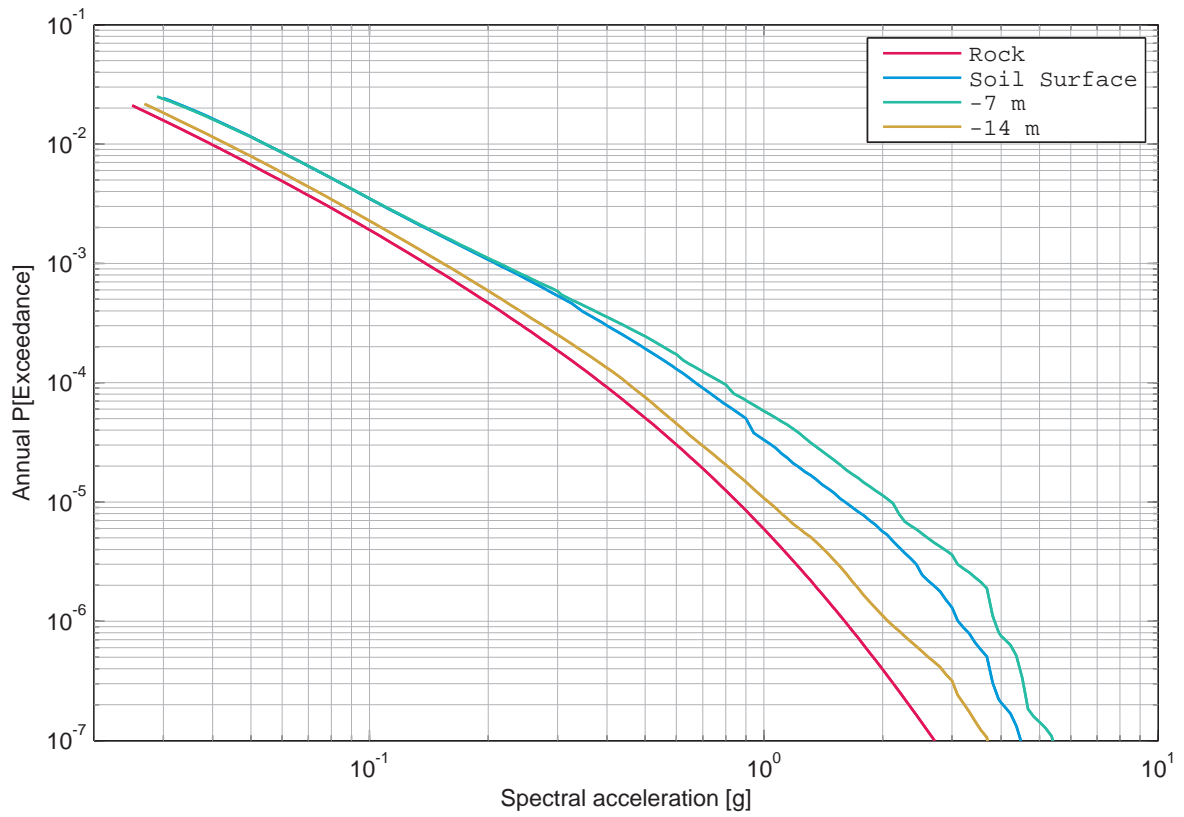


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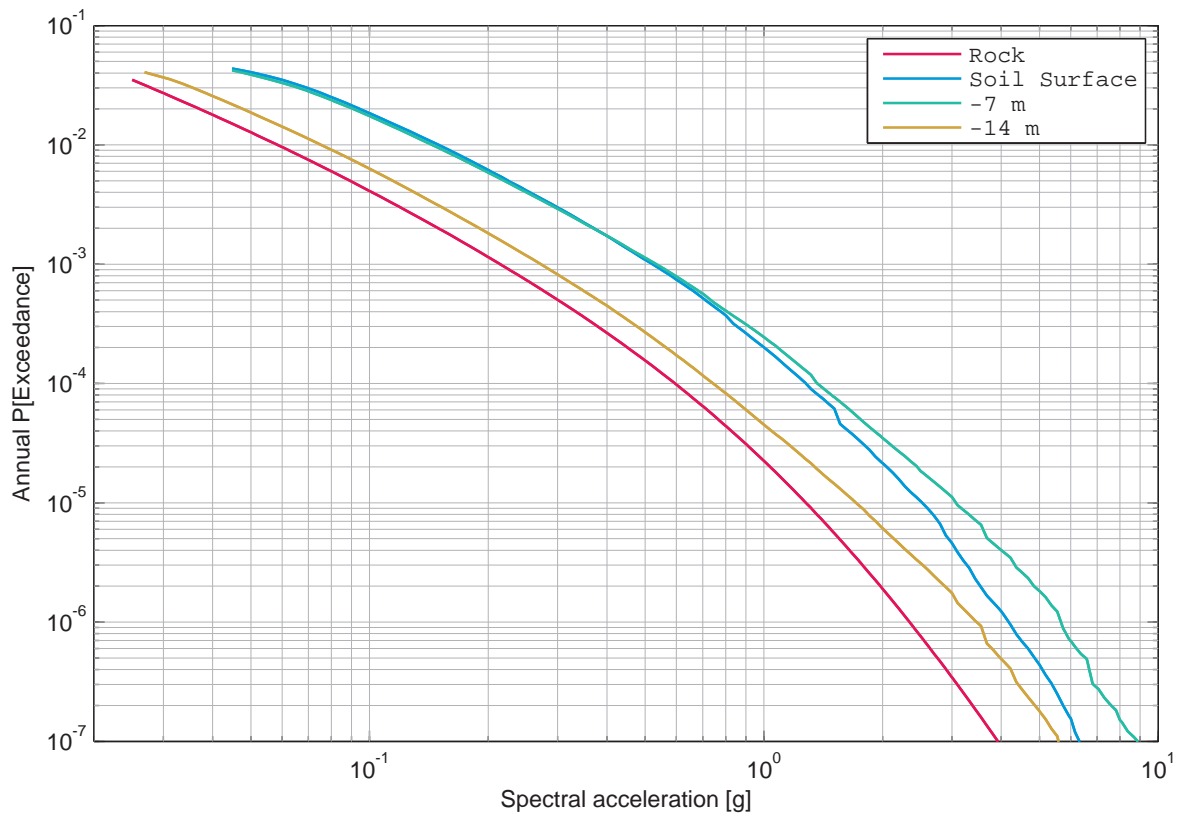


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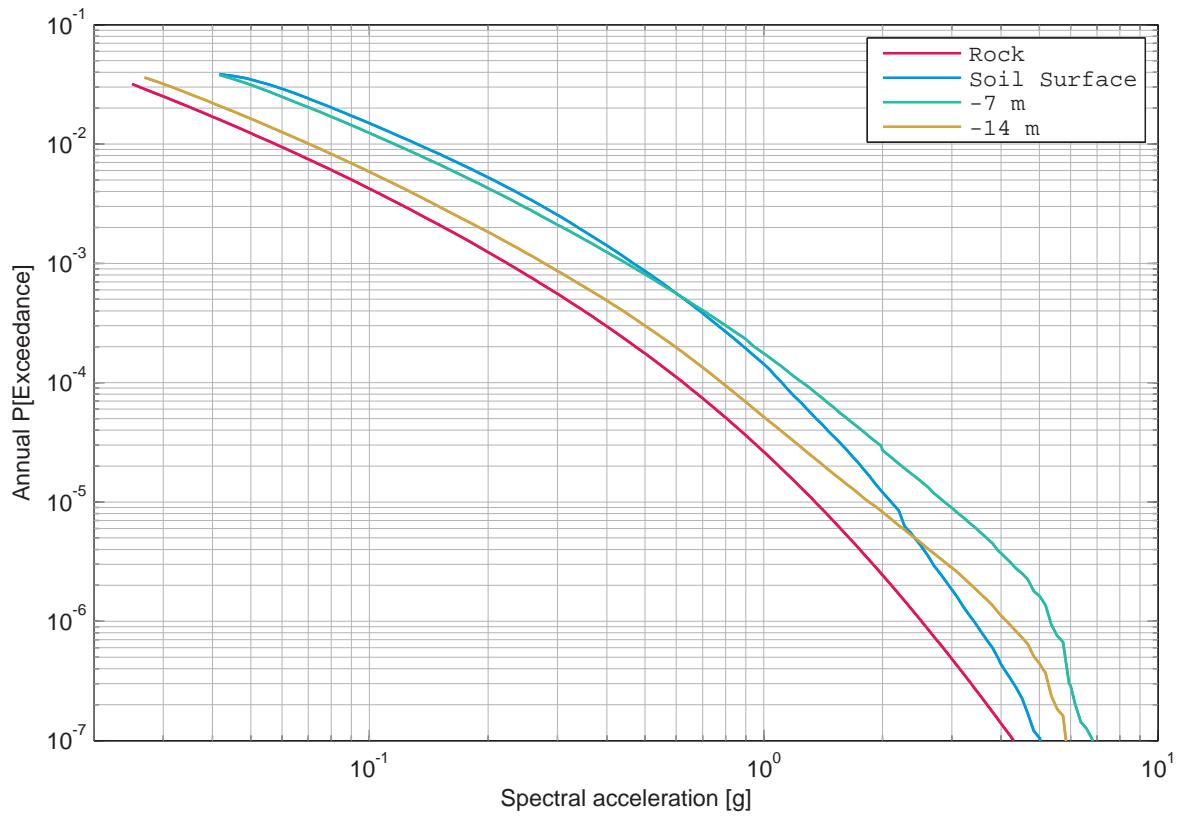


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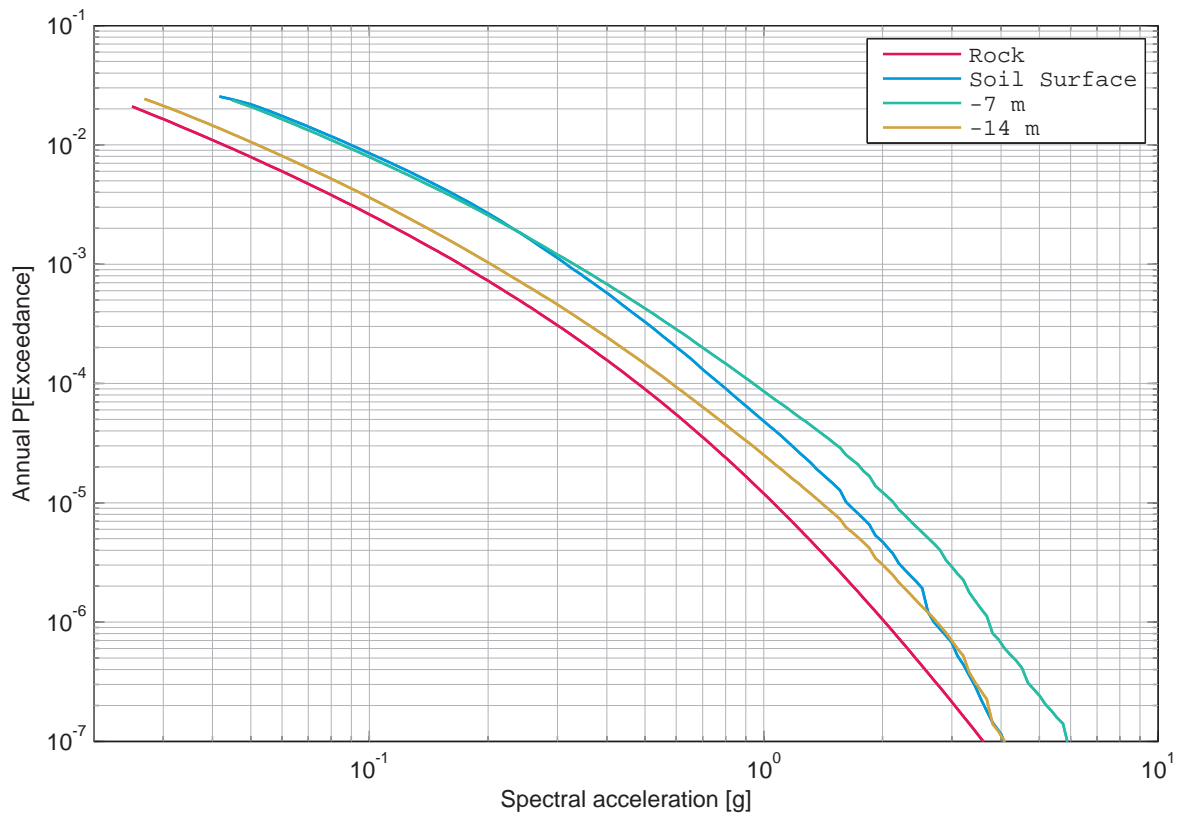


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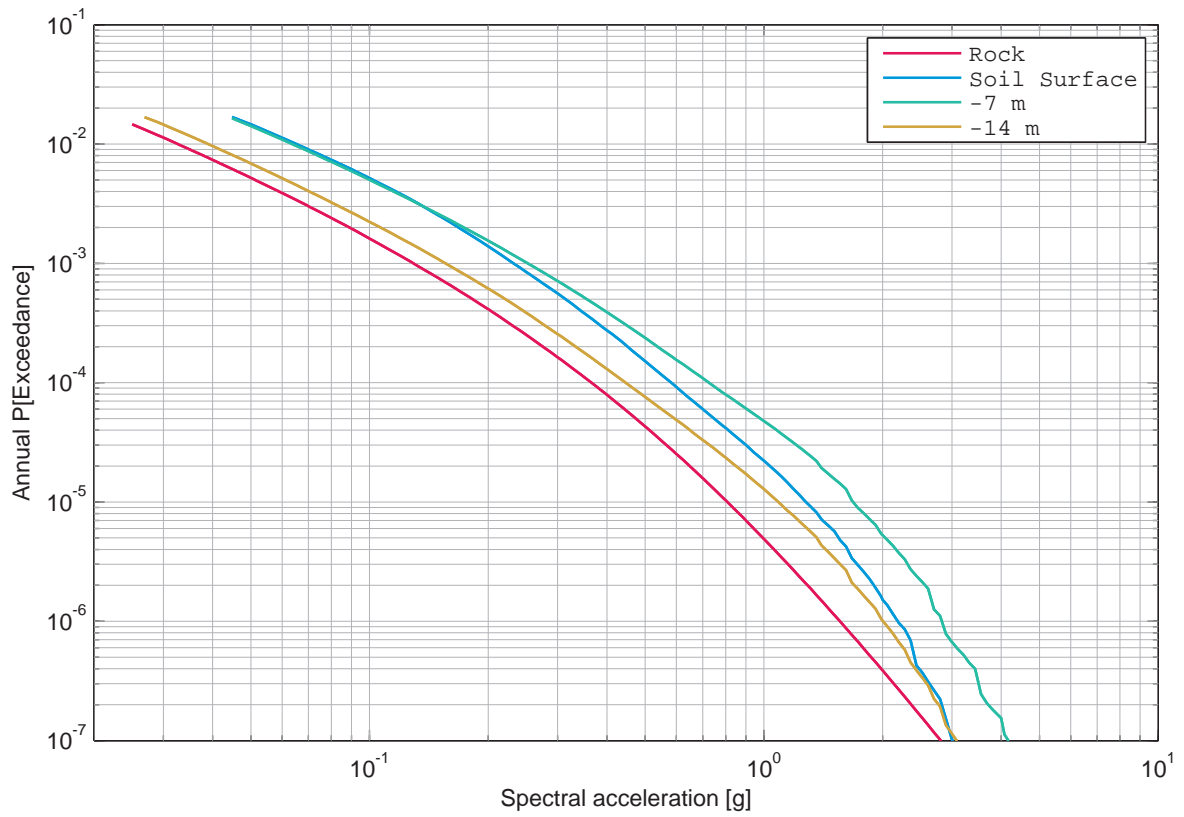


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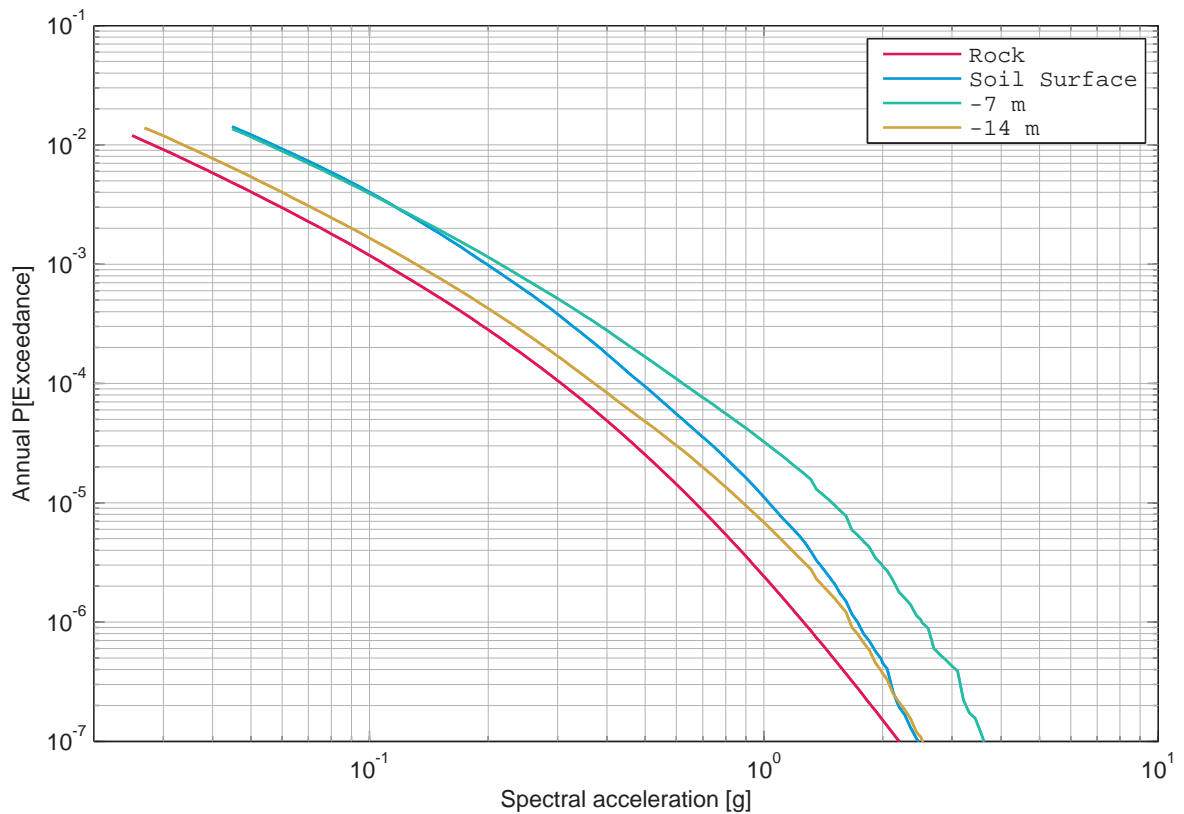


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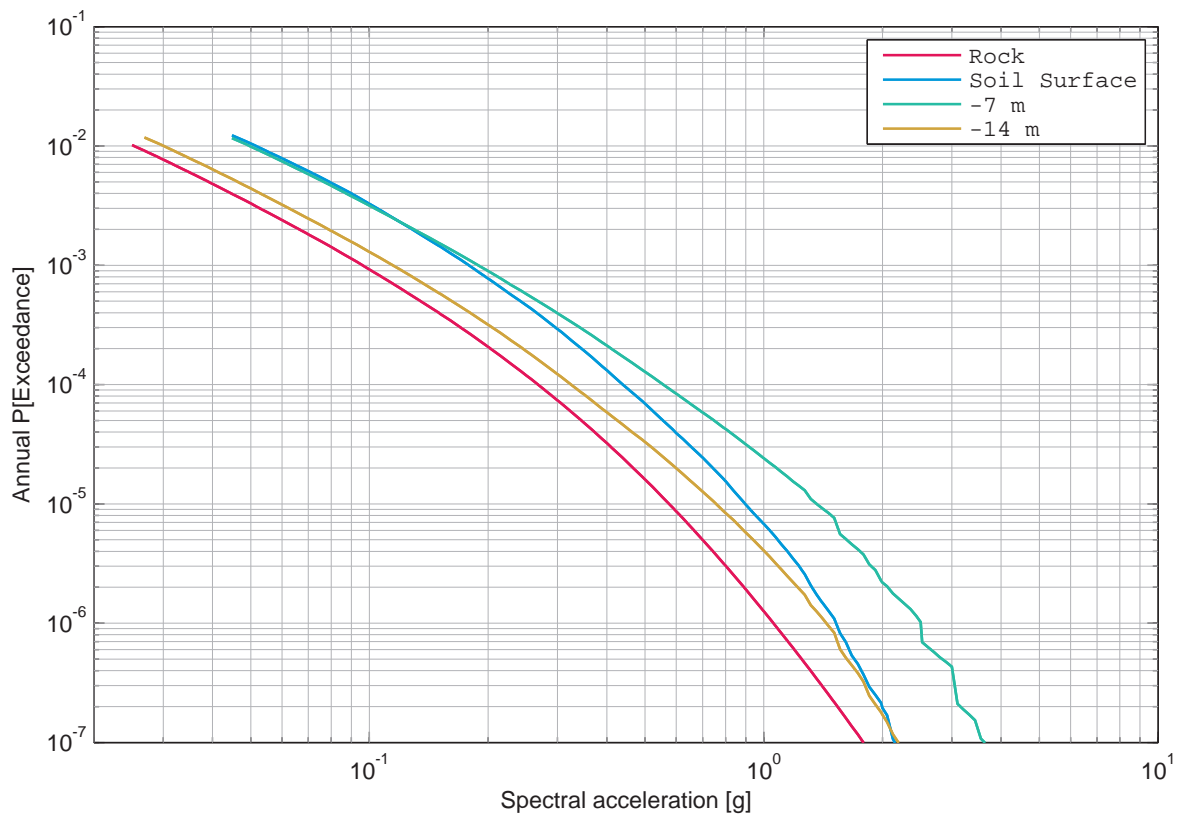


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5.11 Mühleberg, Rock Hazard, Vertical Component

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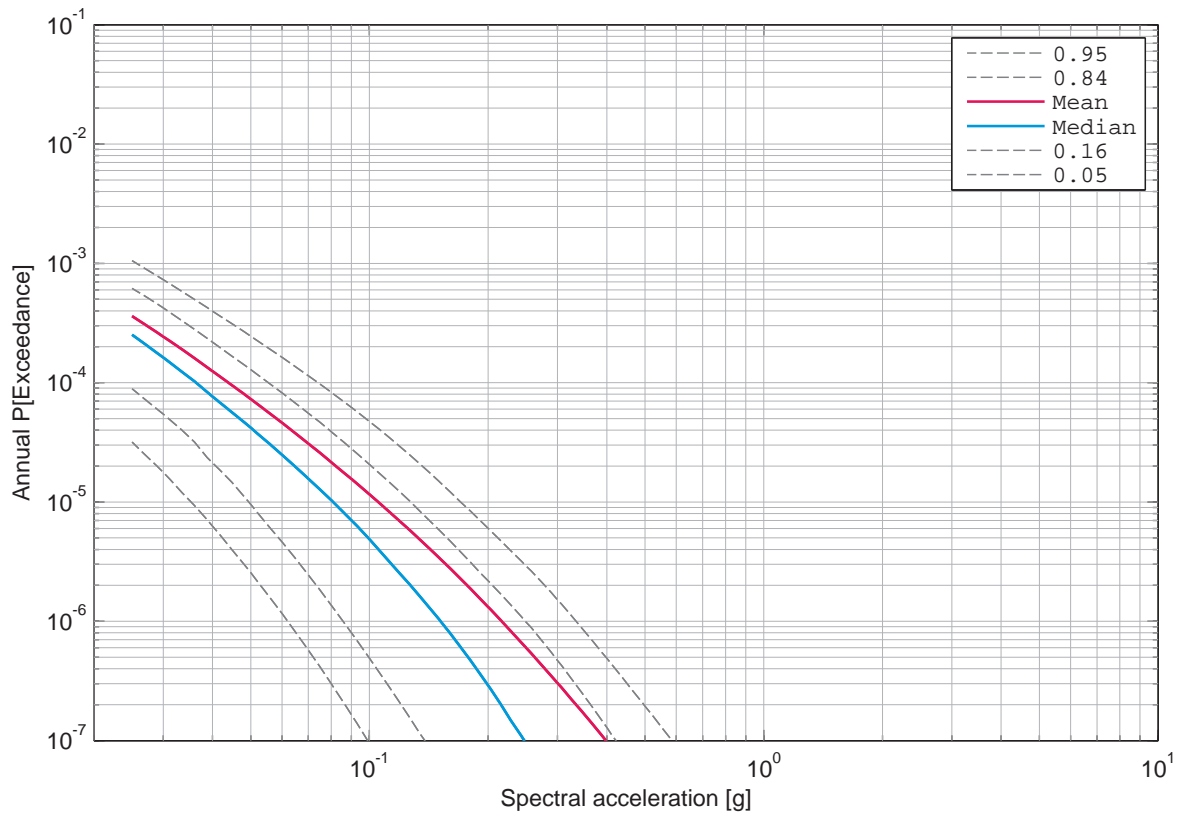


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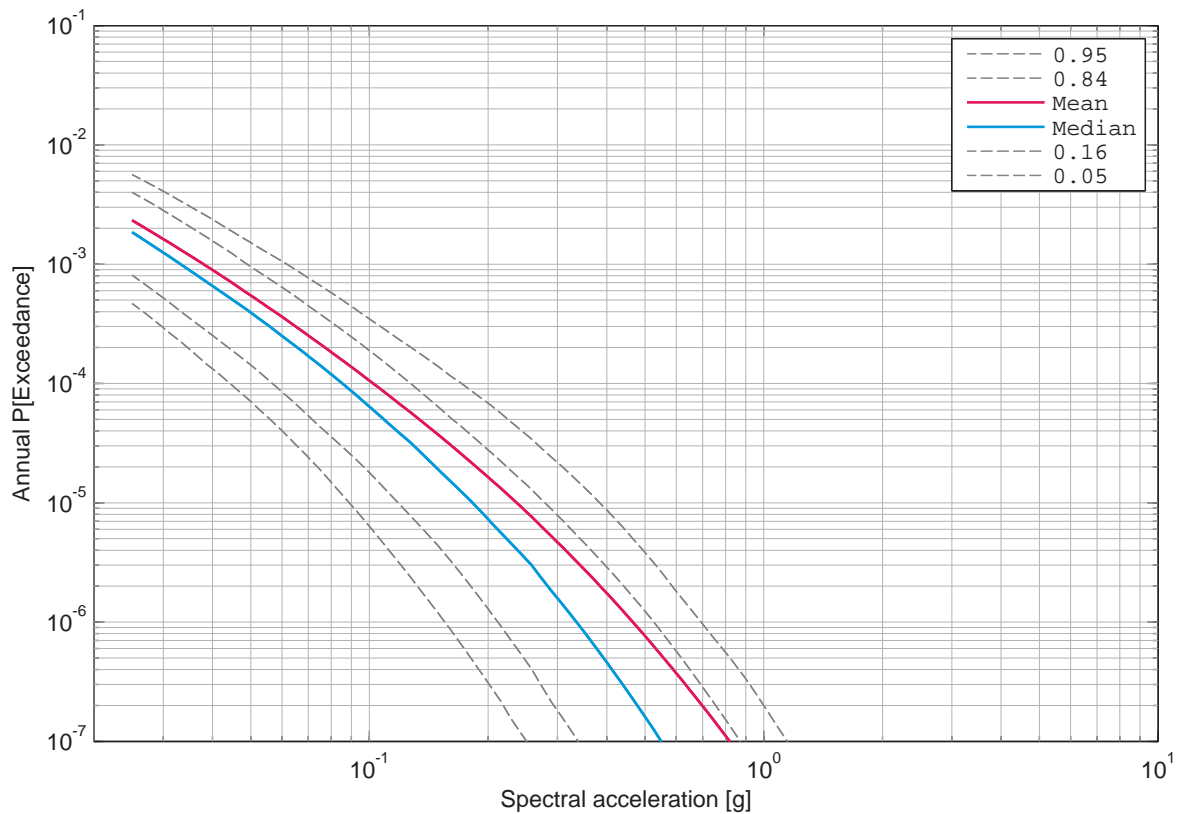


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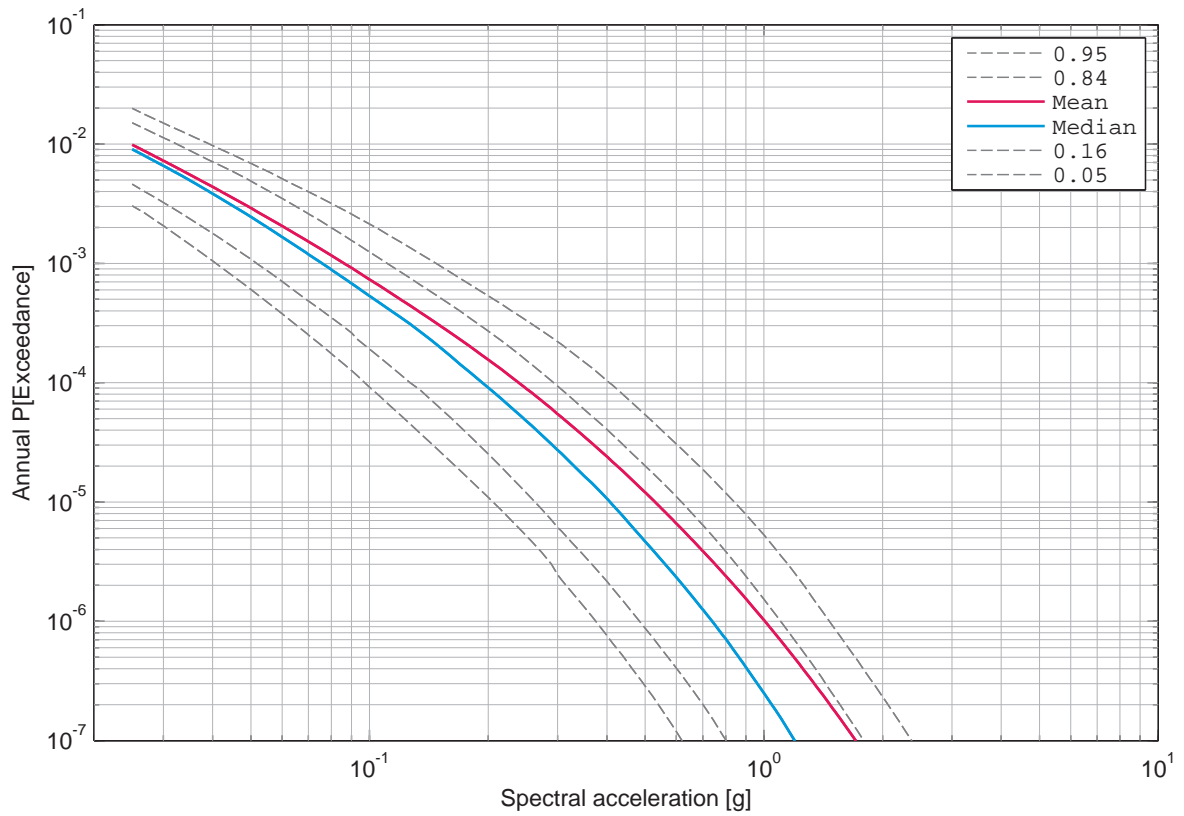


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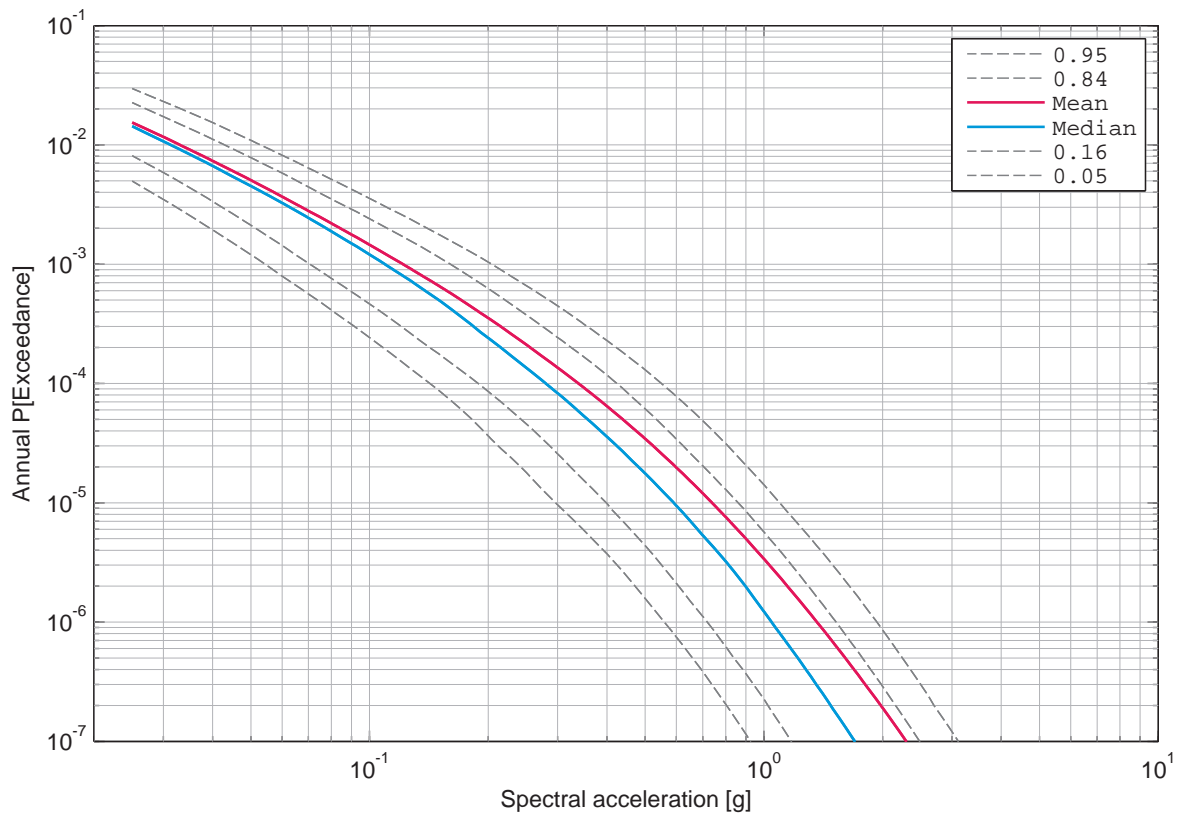


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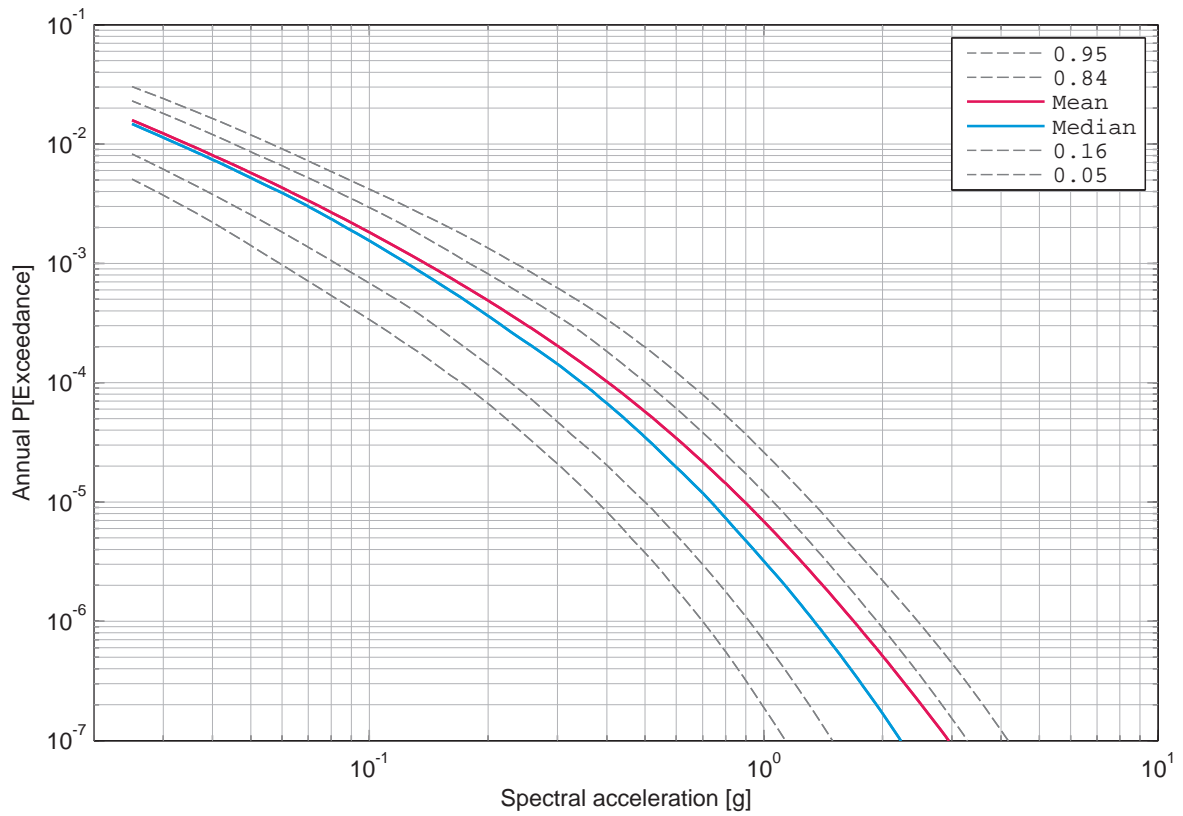


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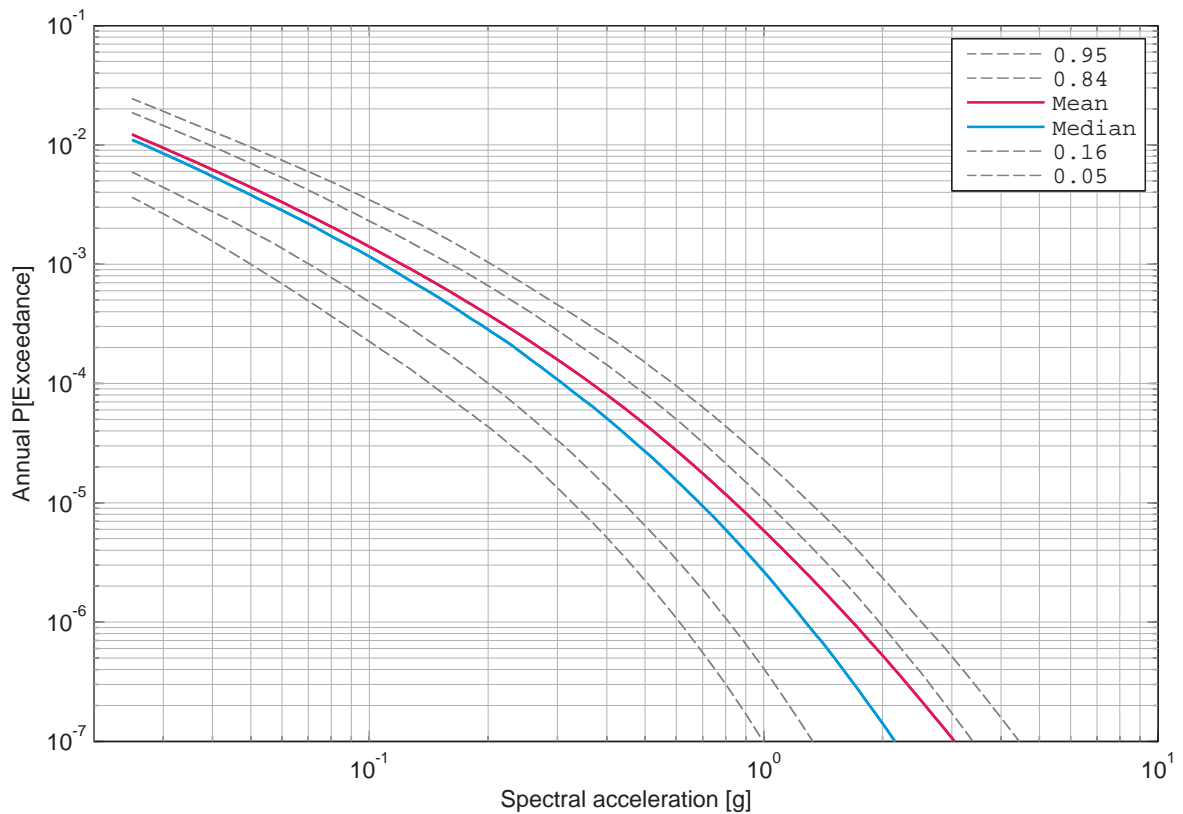


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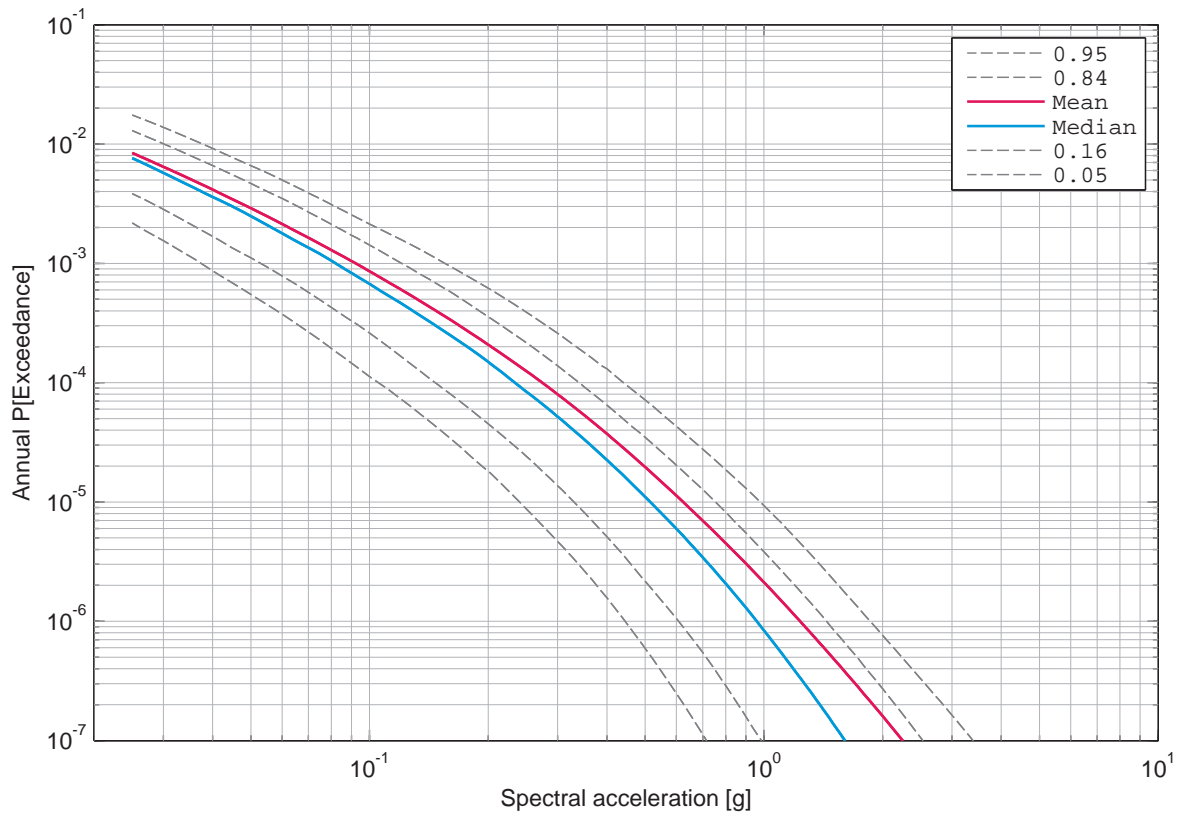


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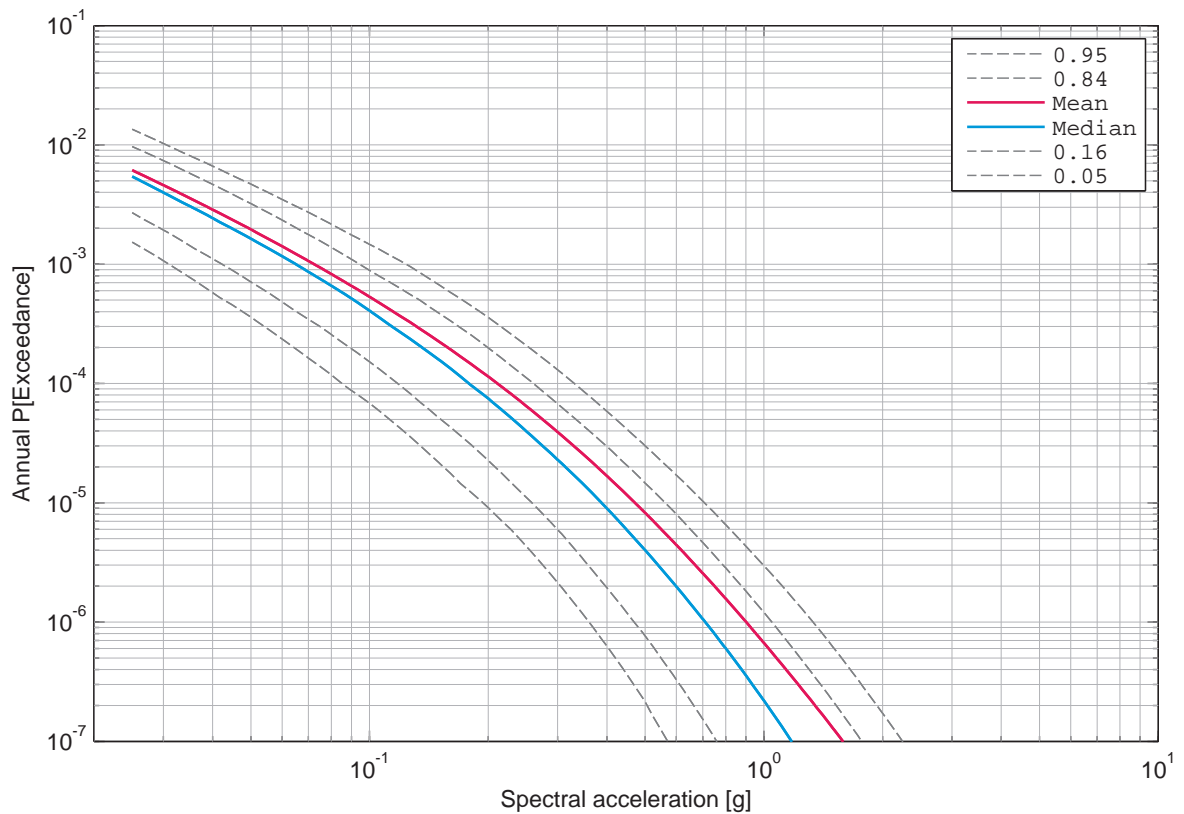


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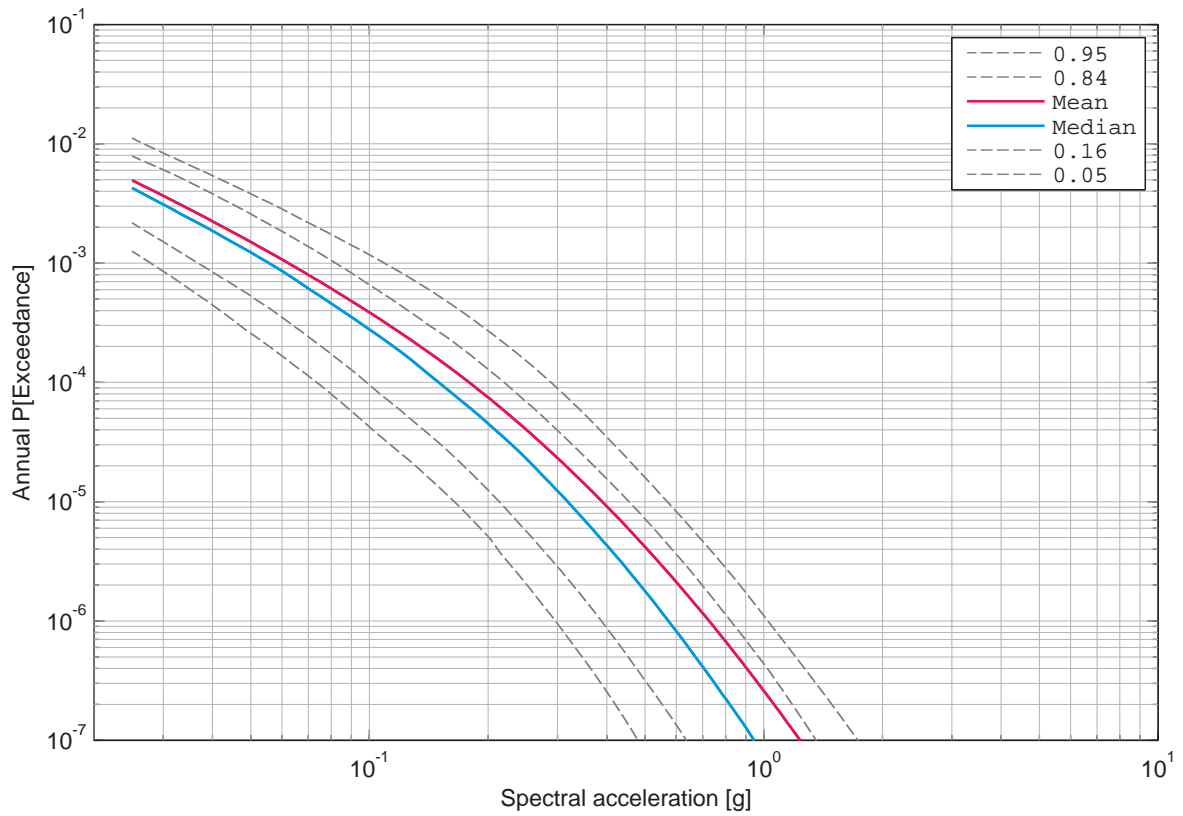


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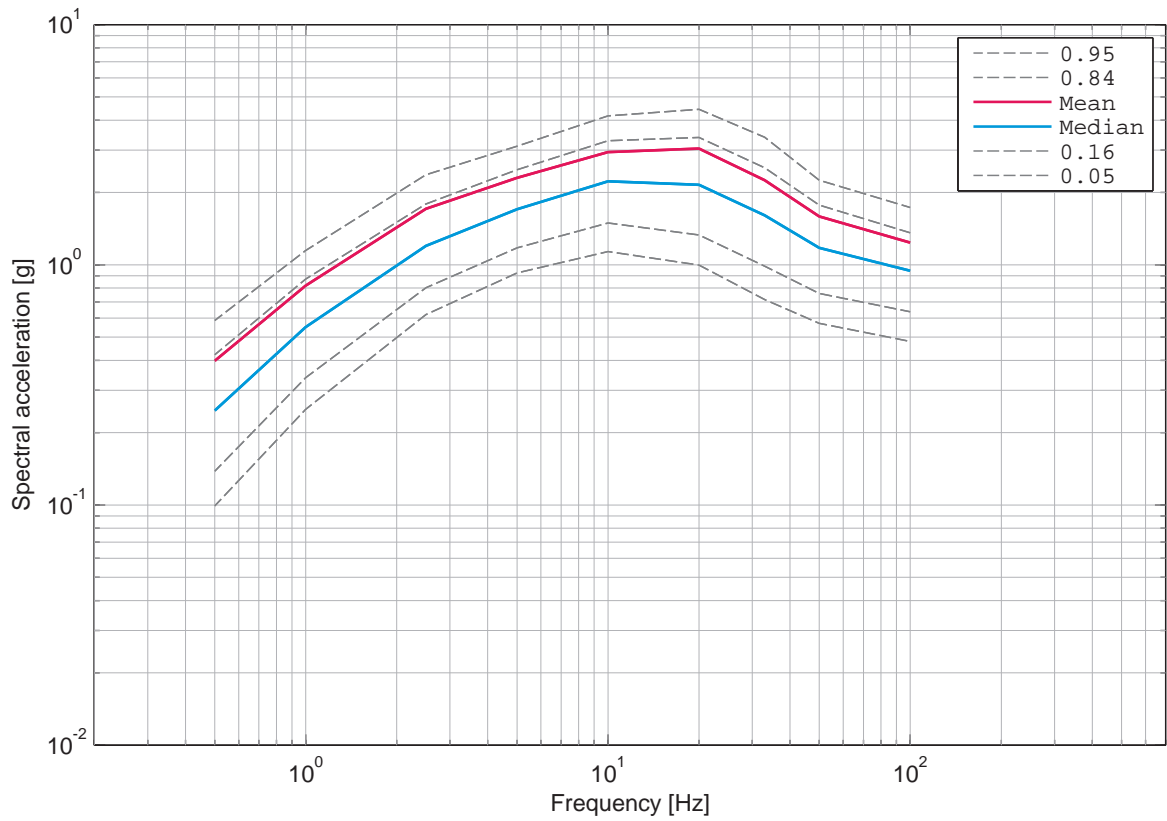


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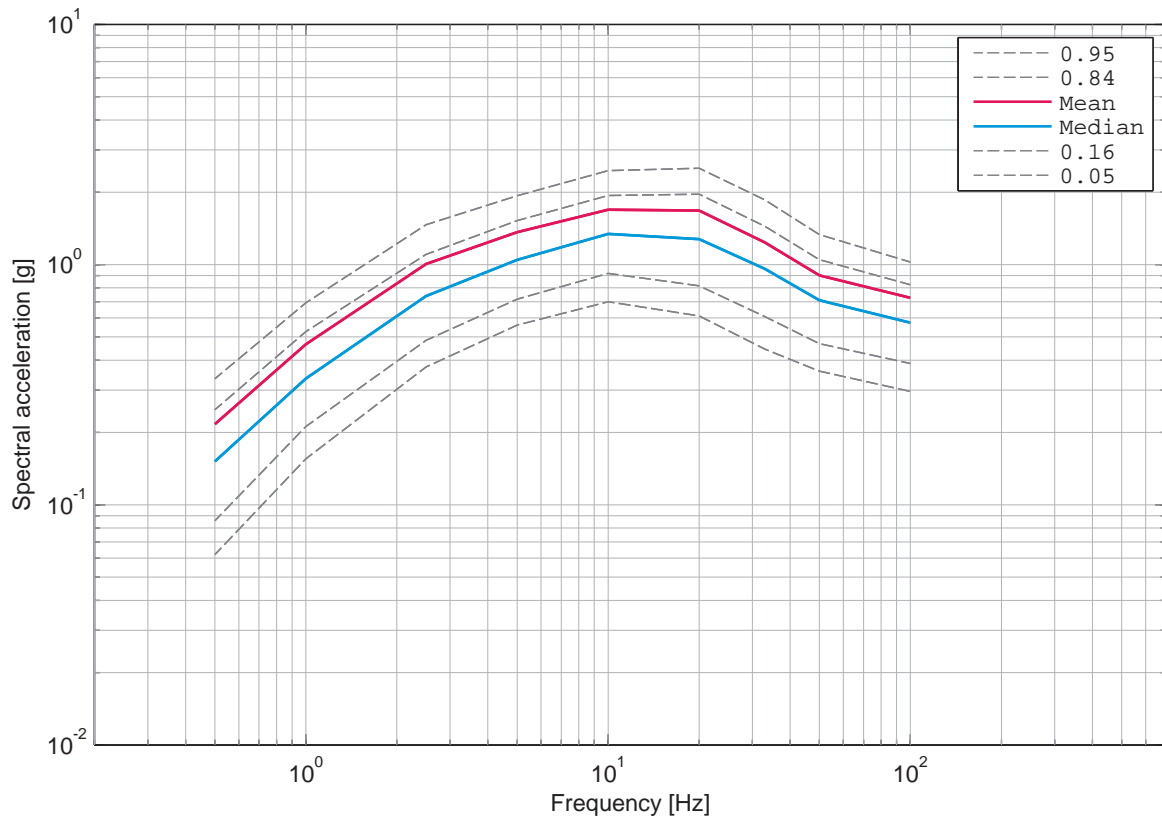


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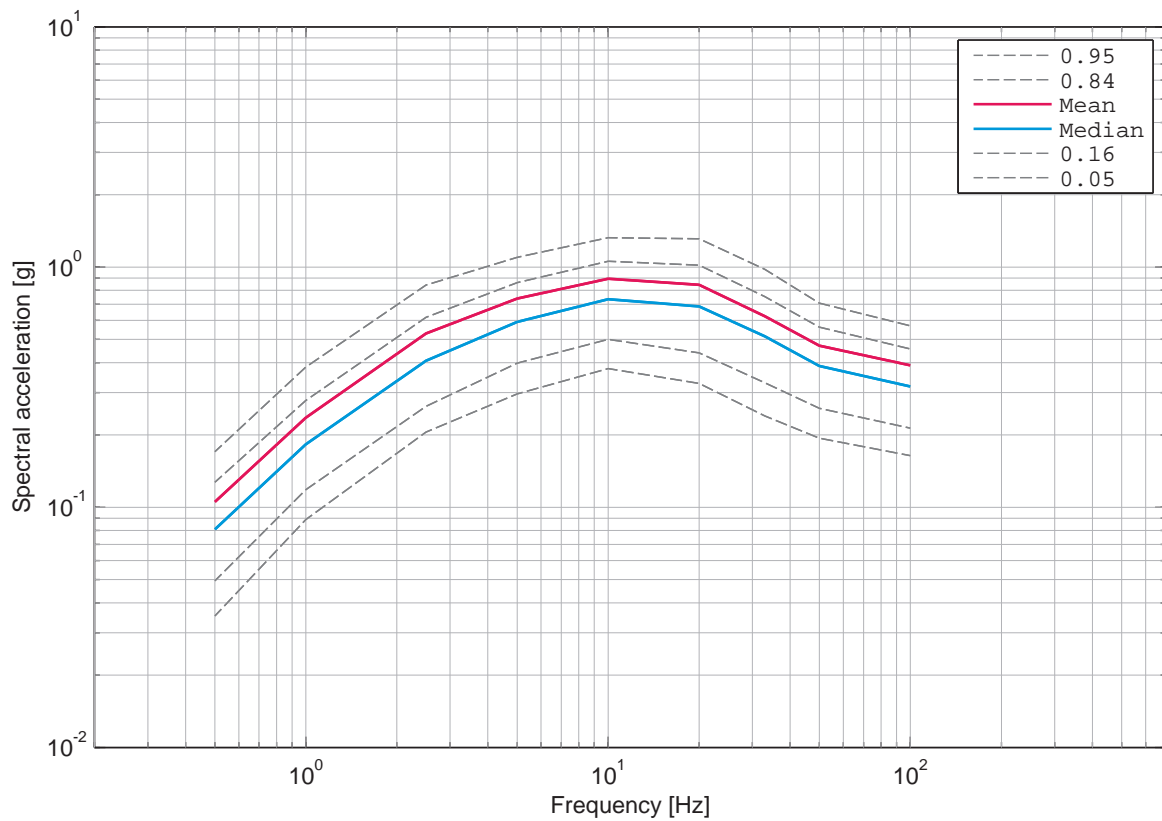


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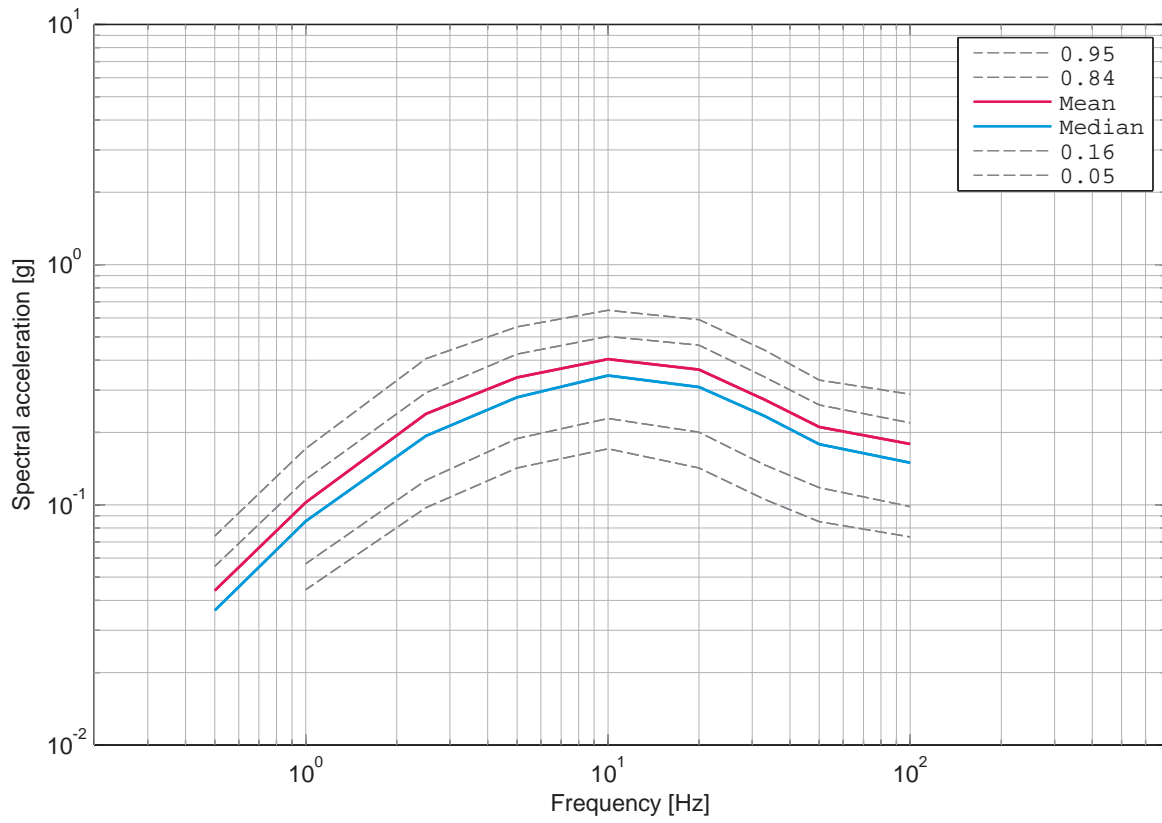


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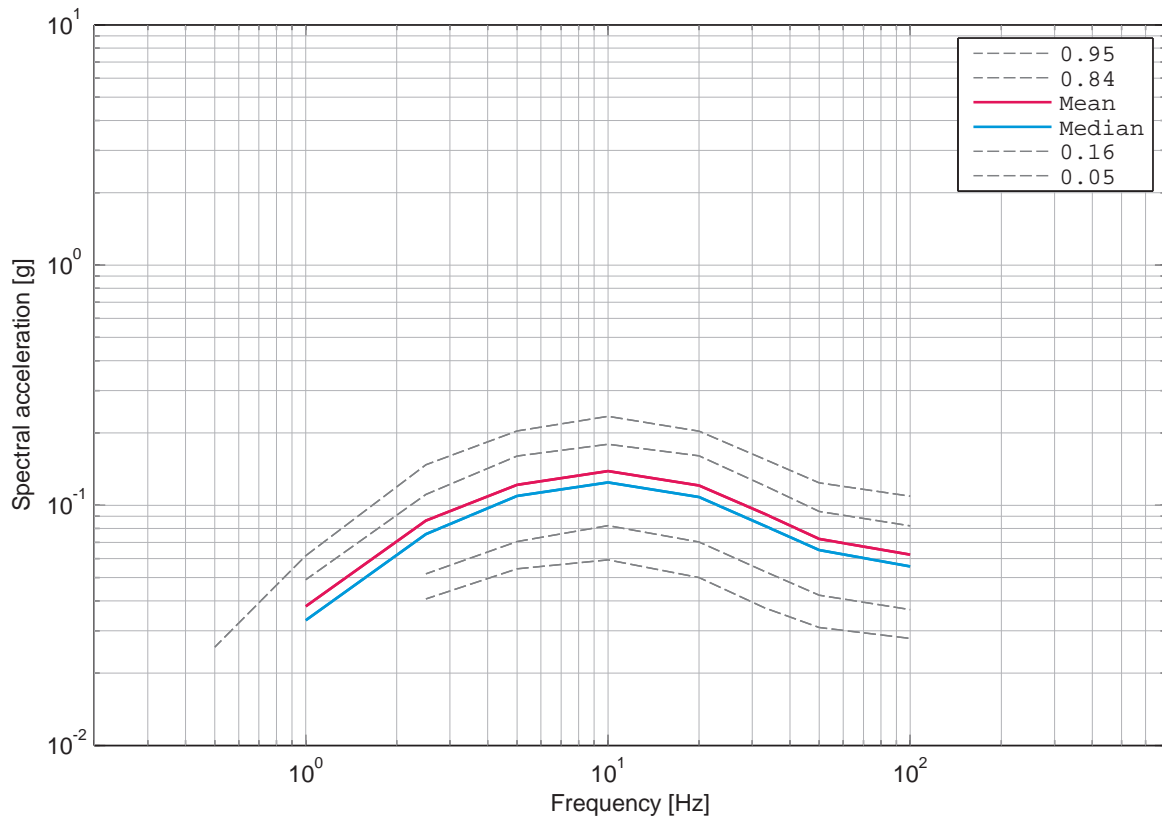


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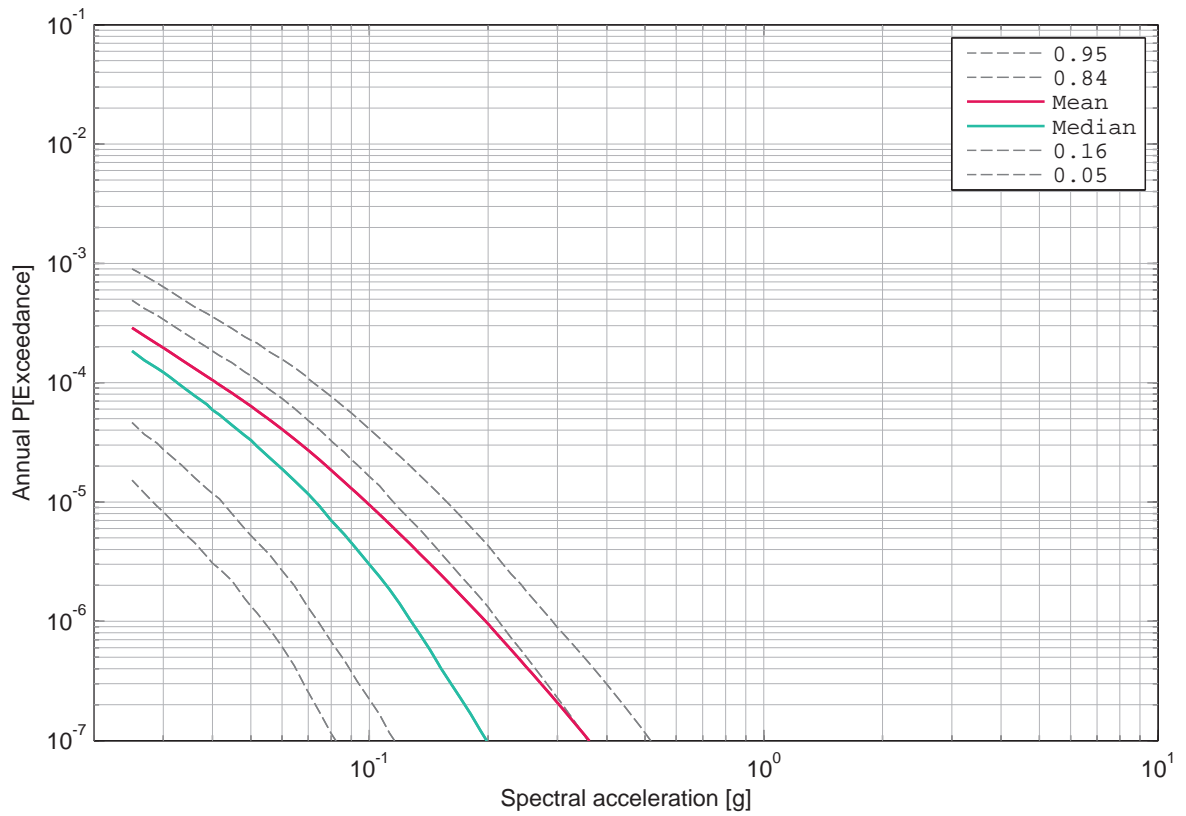


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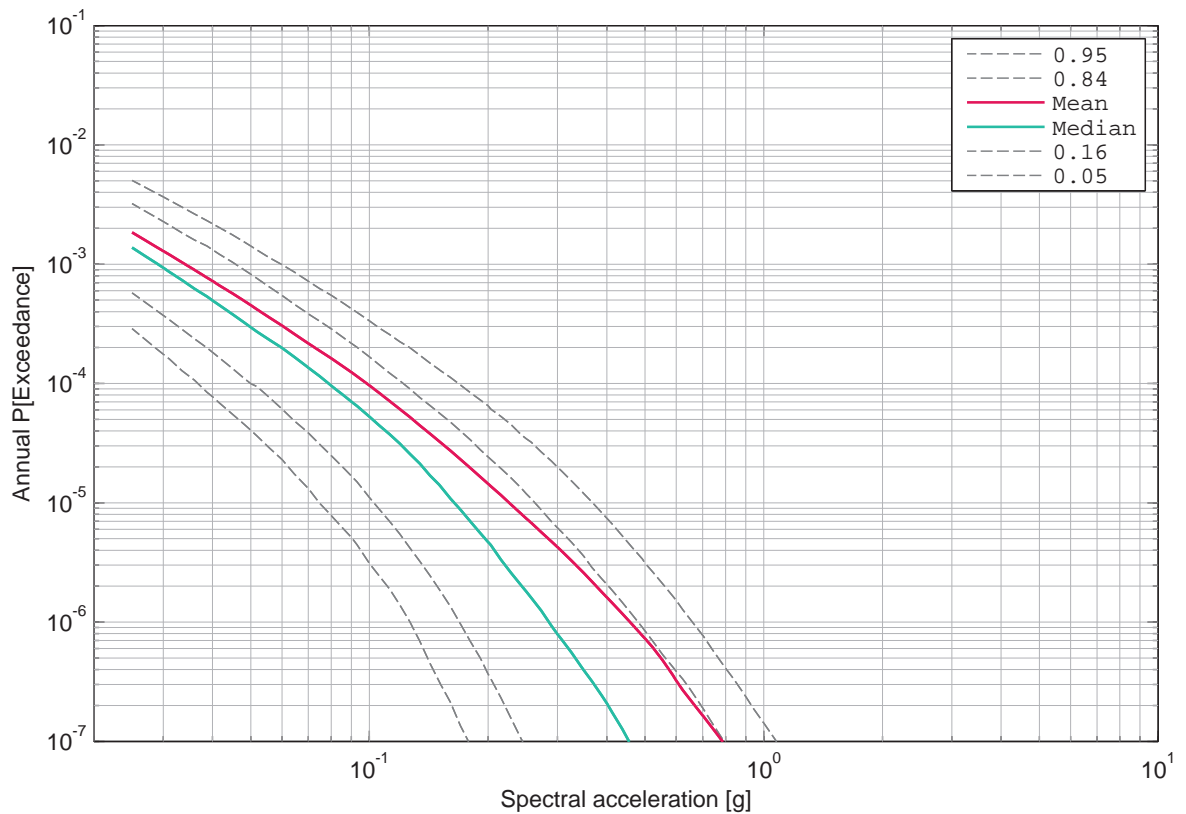


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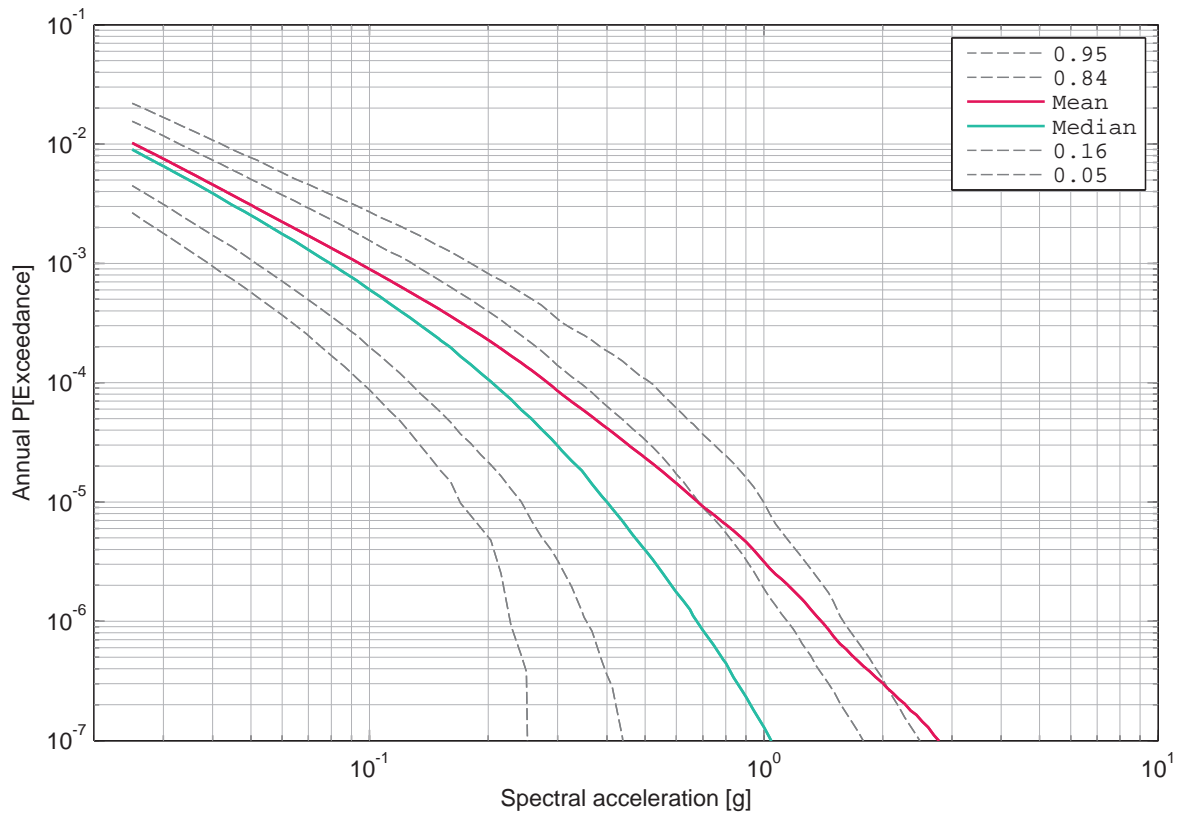


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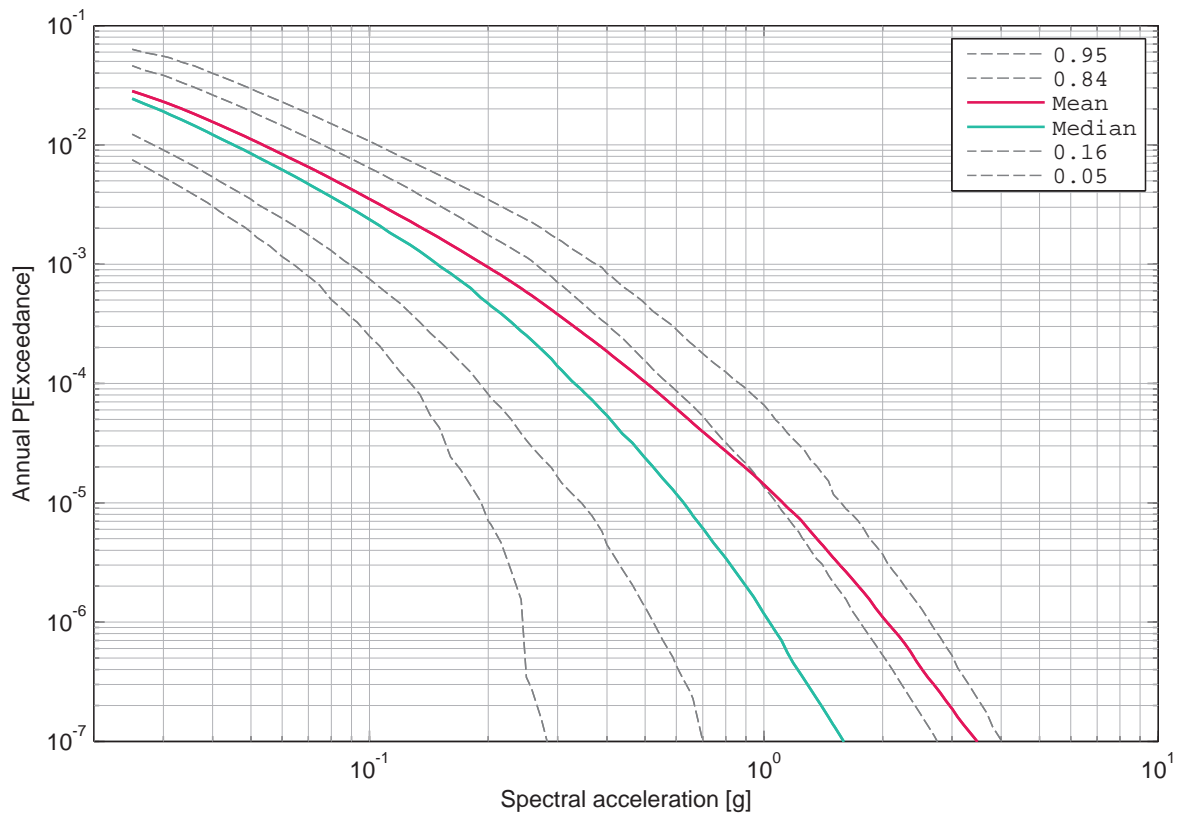


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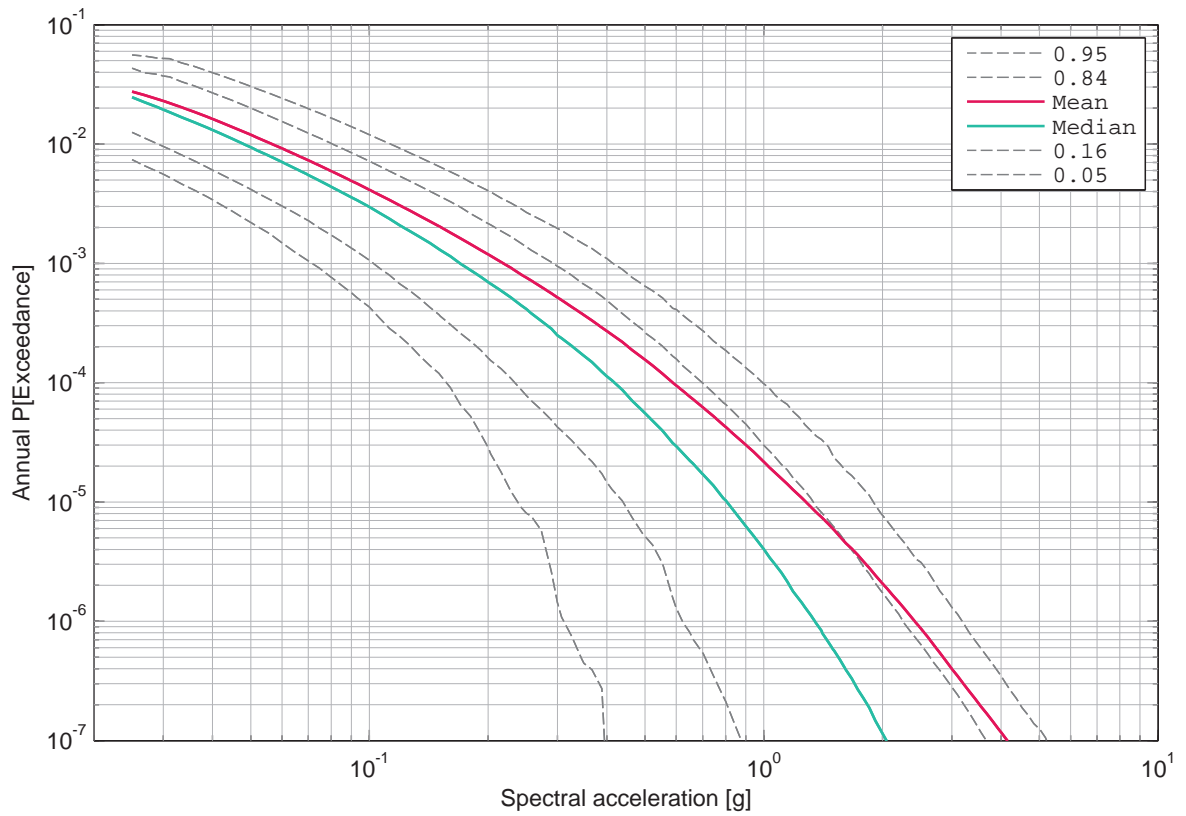


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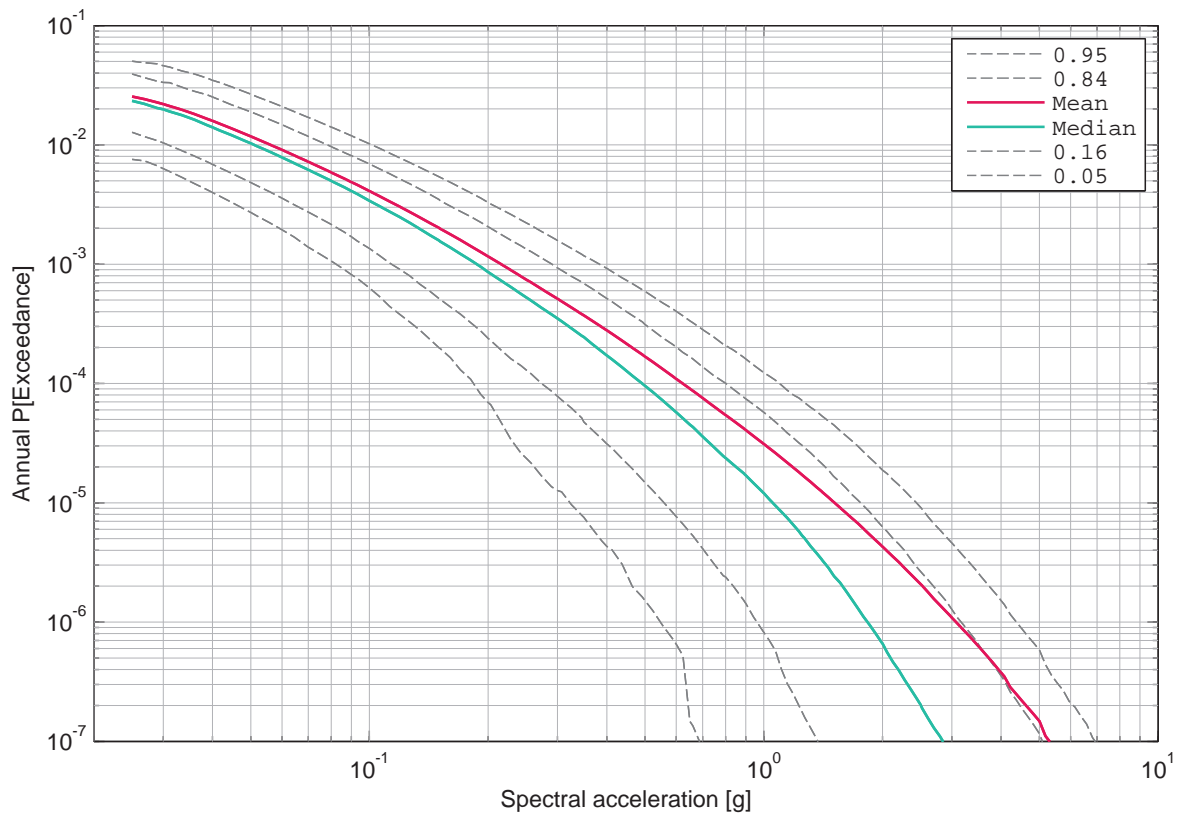


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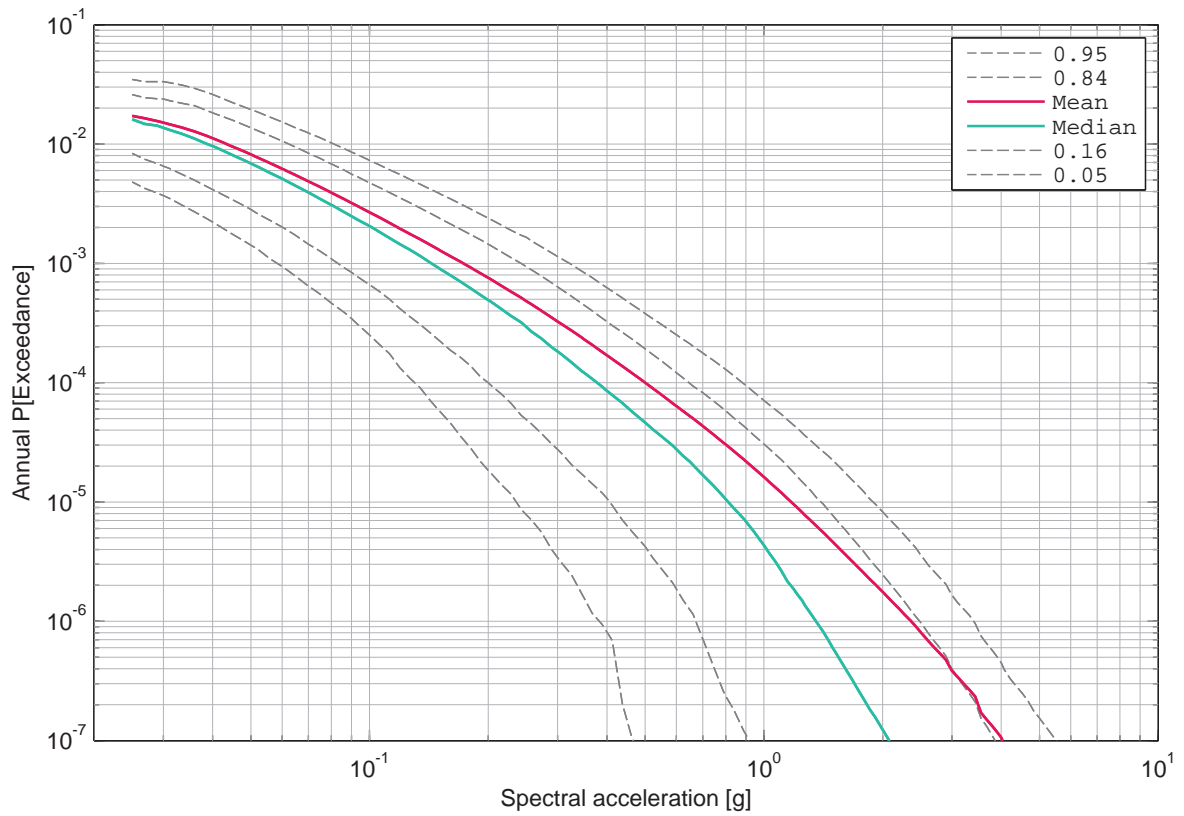


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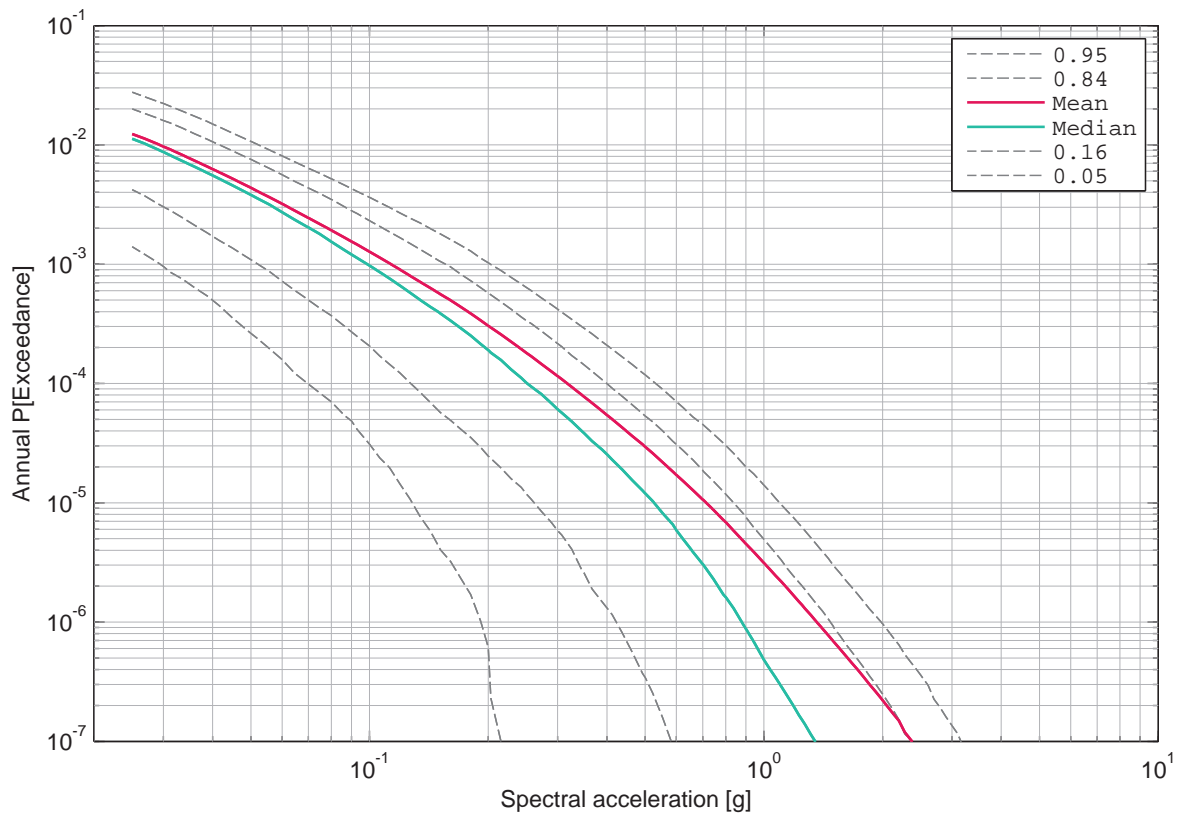


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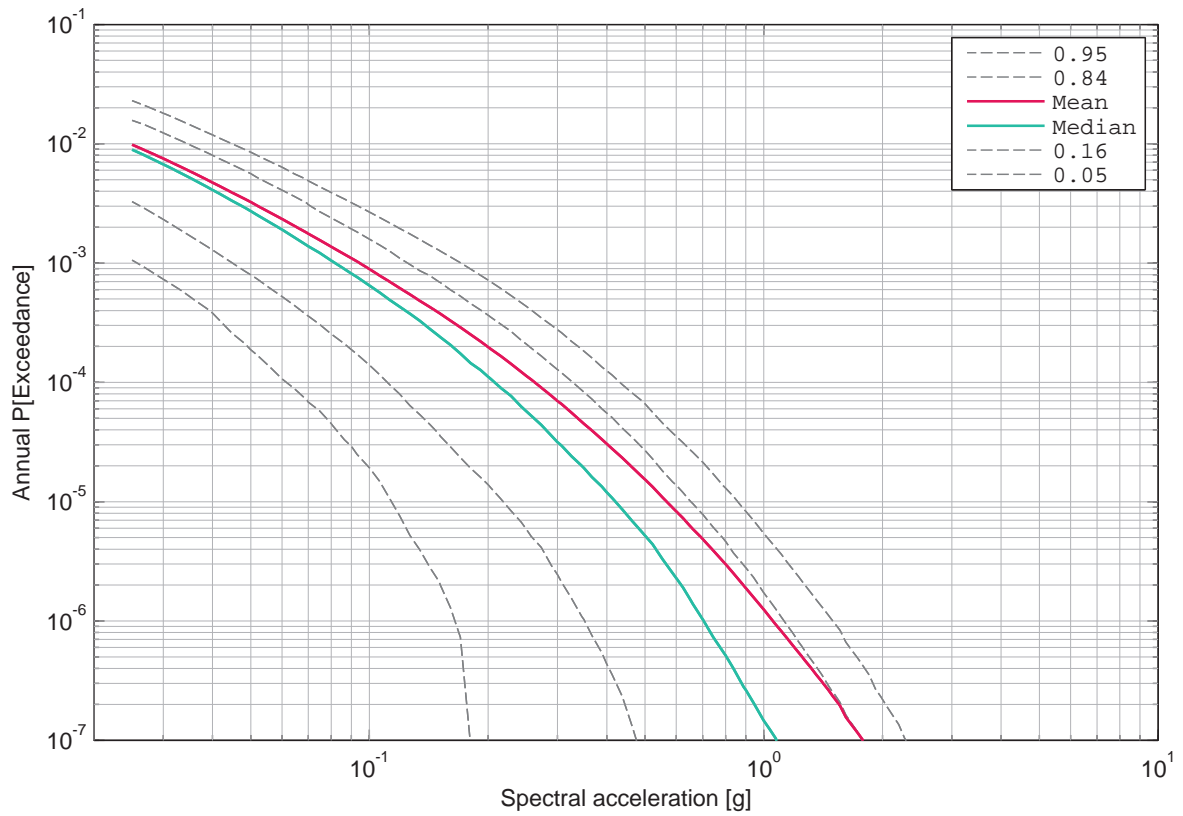


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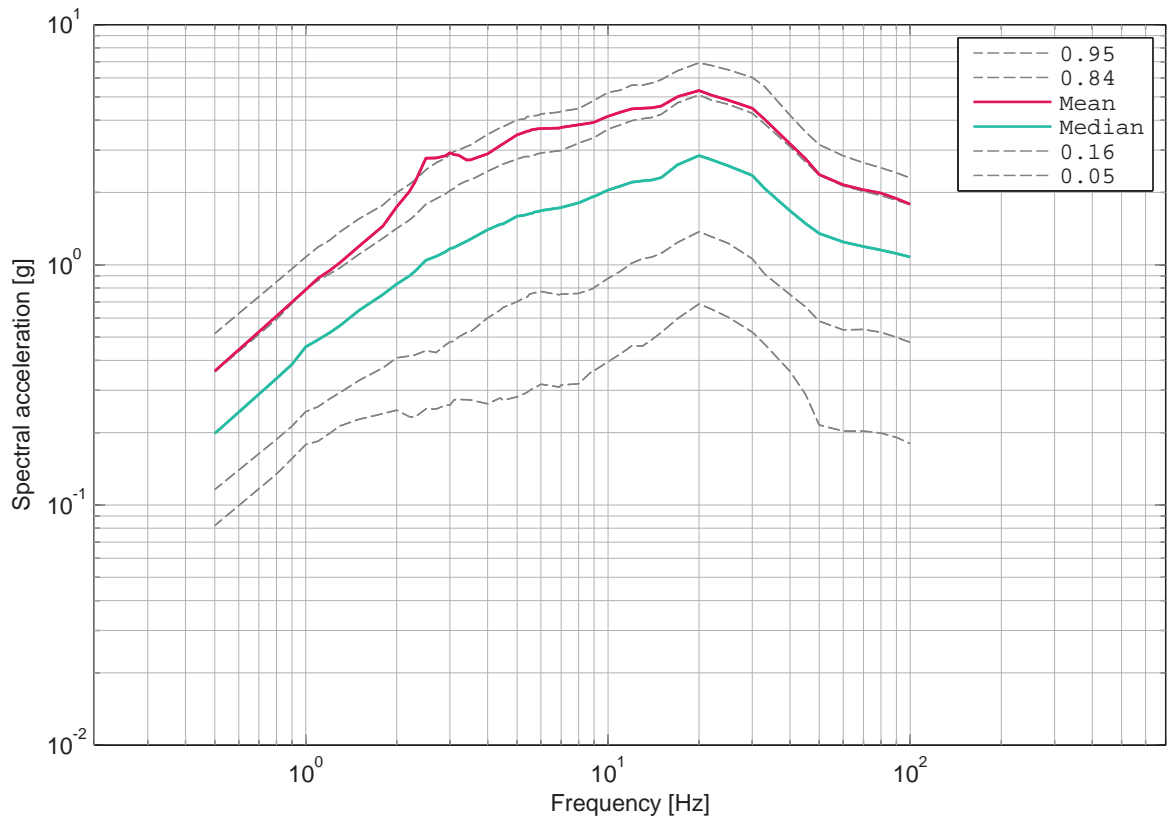


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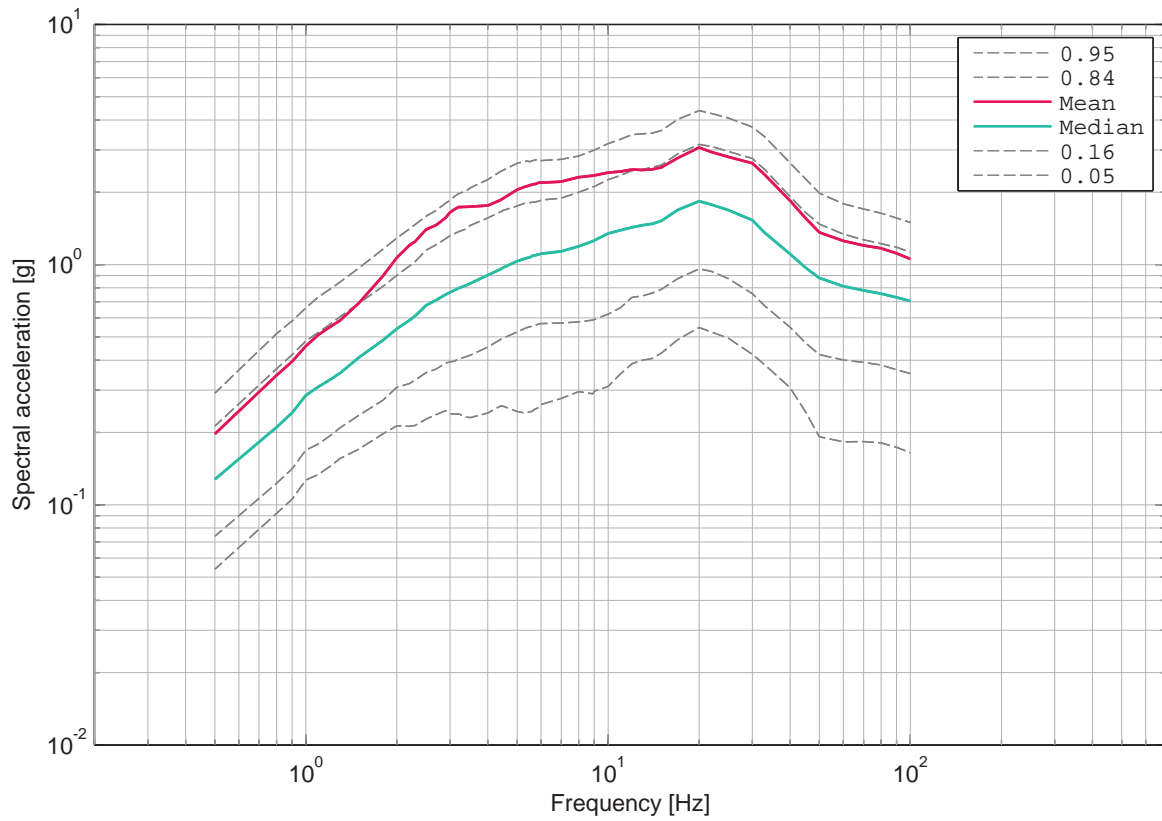


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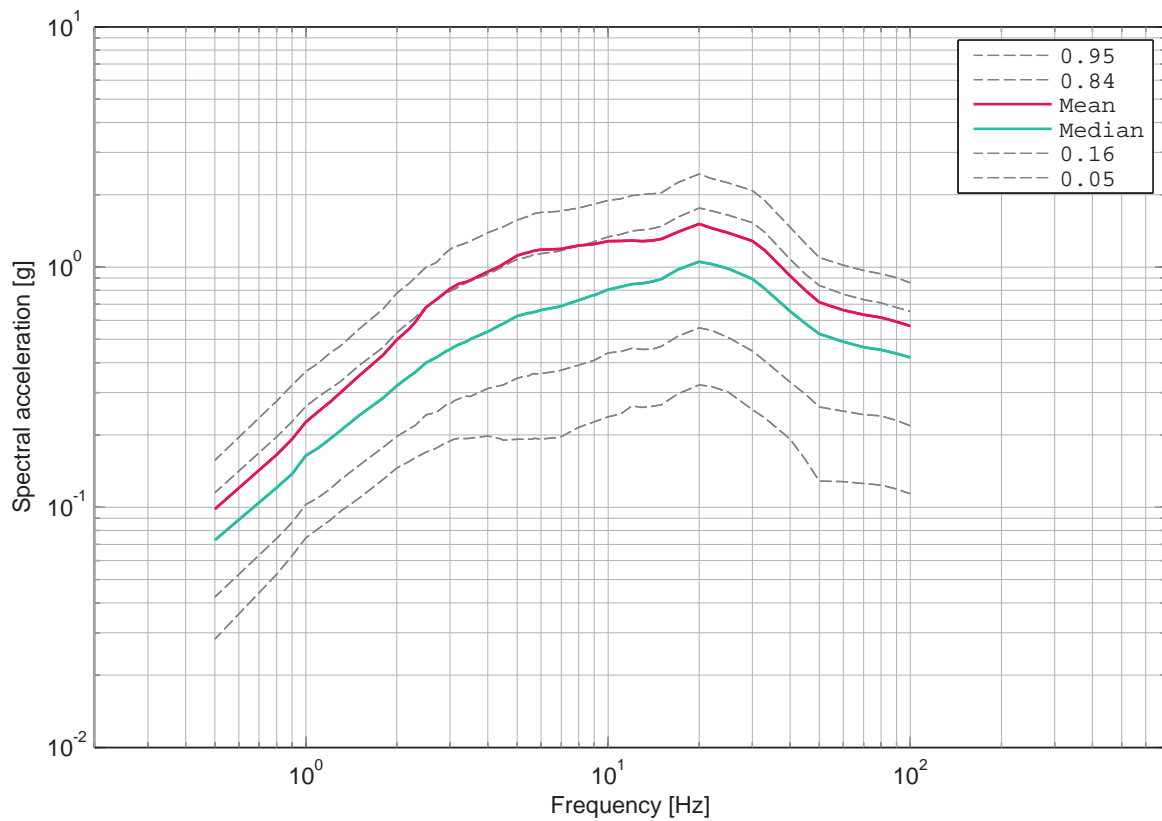


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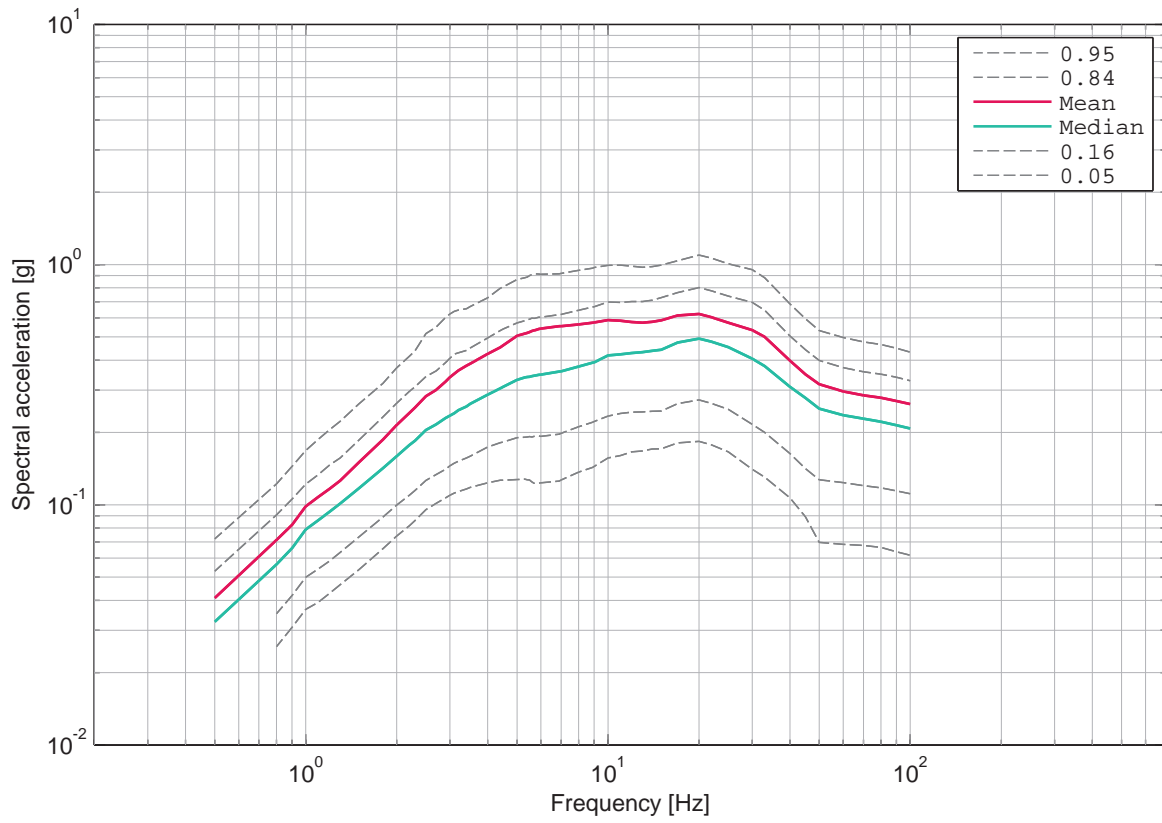


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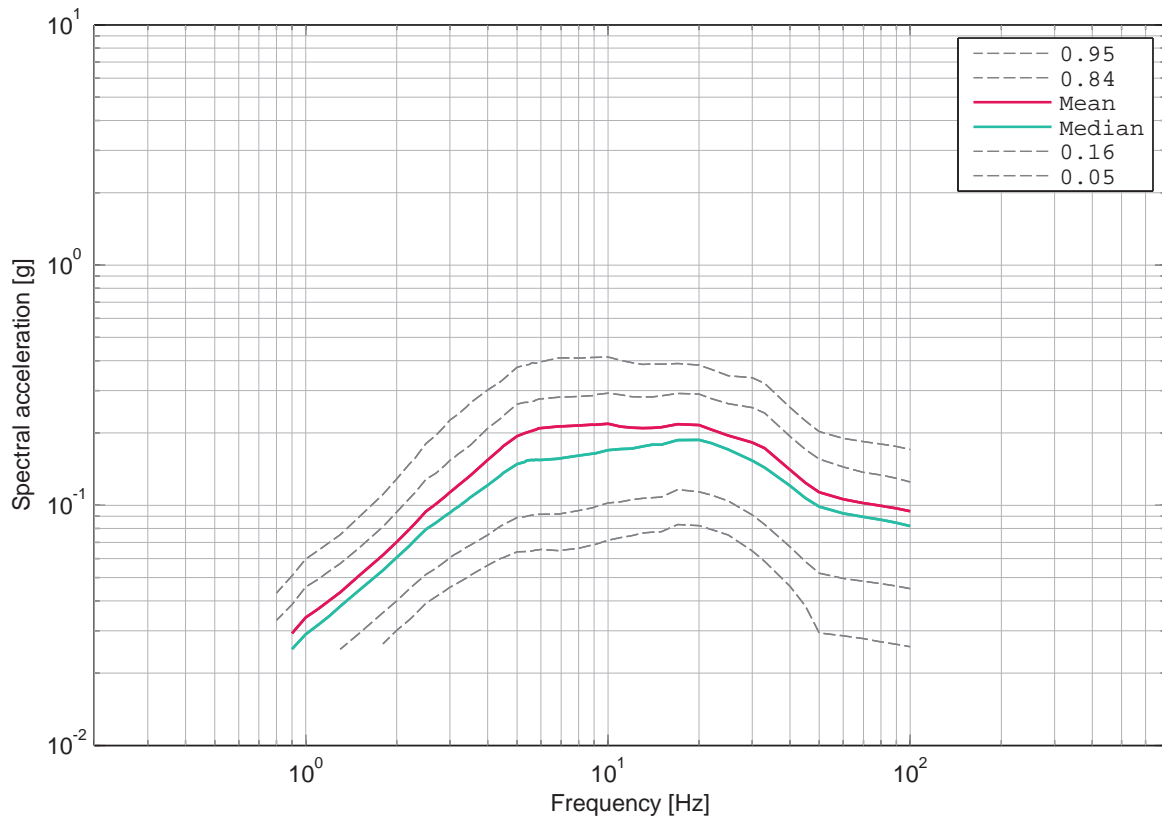


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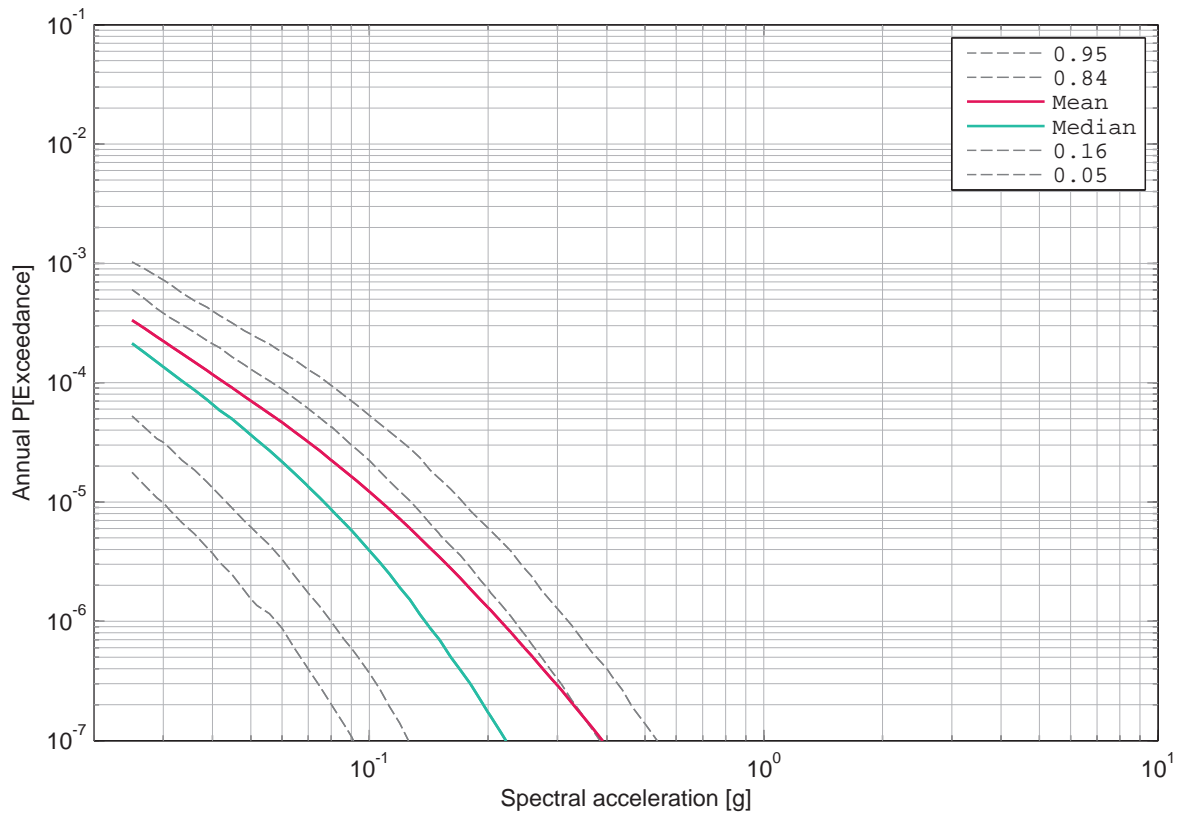


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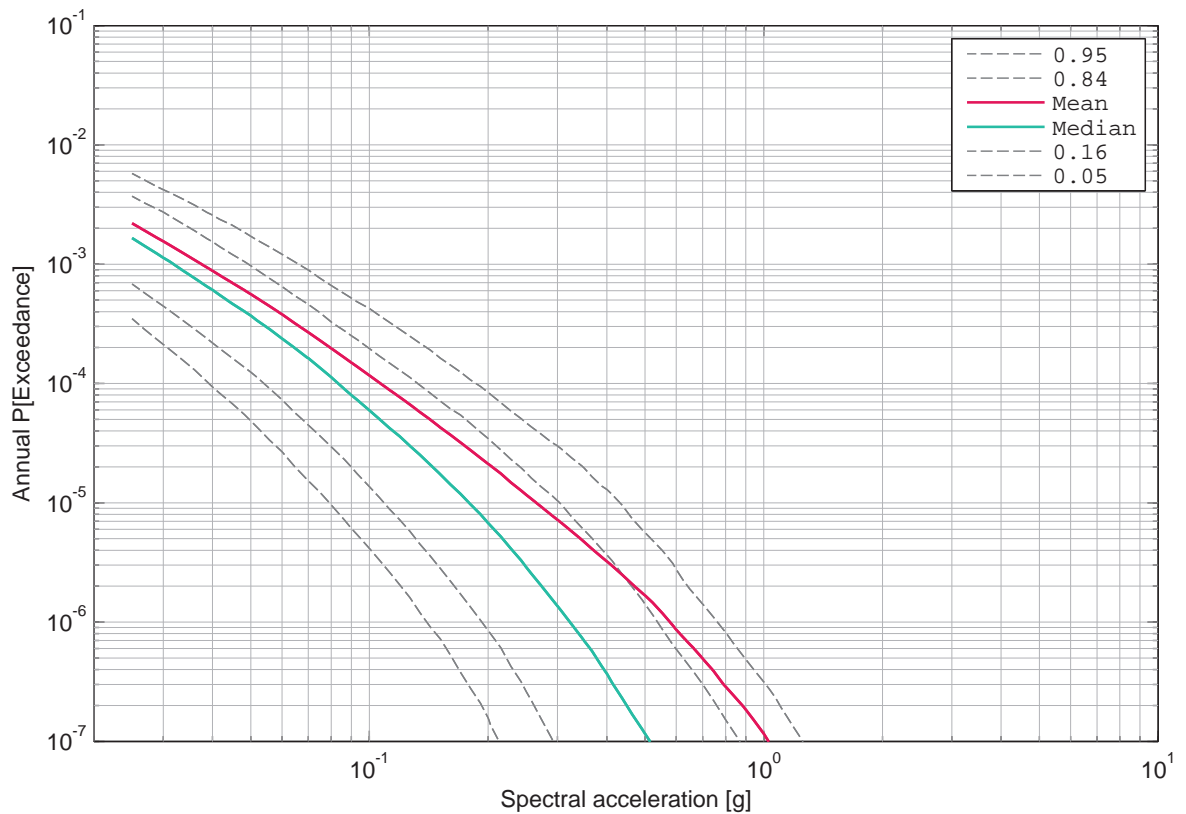


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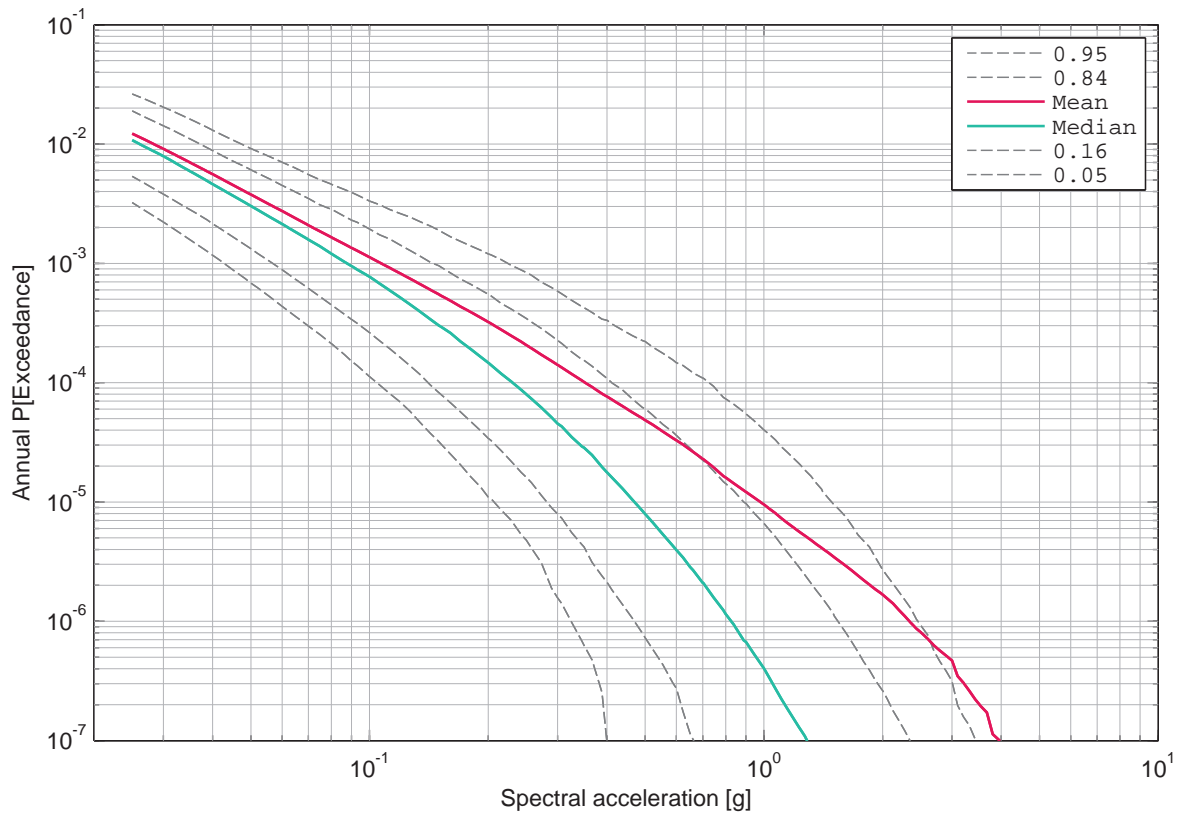


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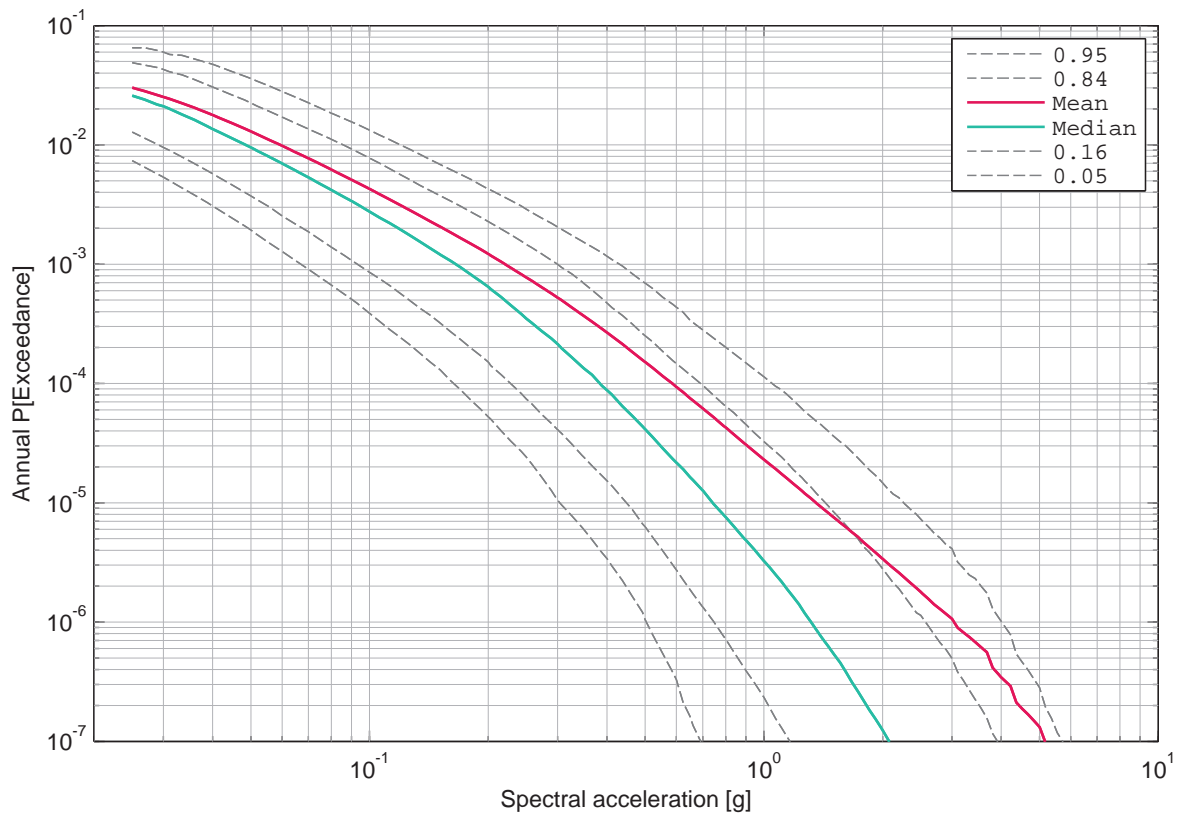


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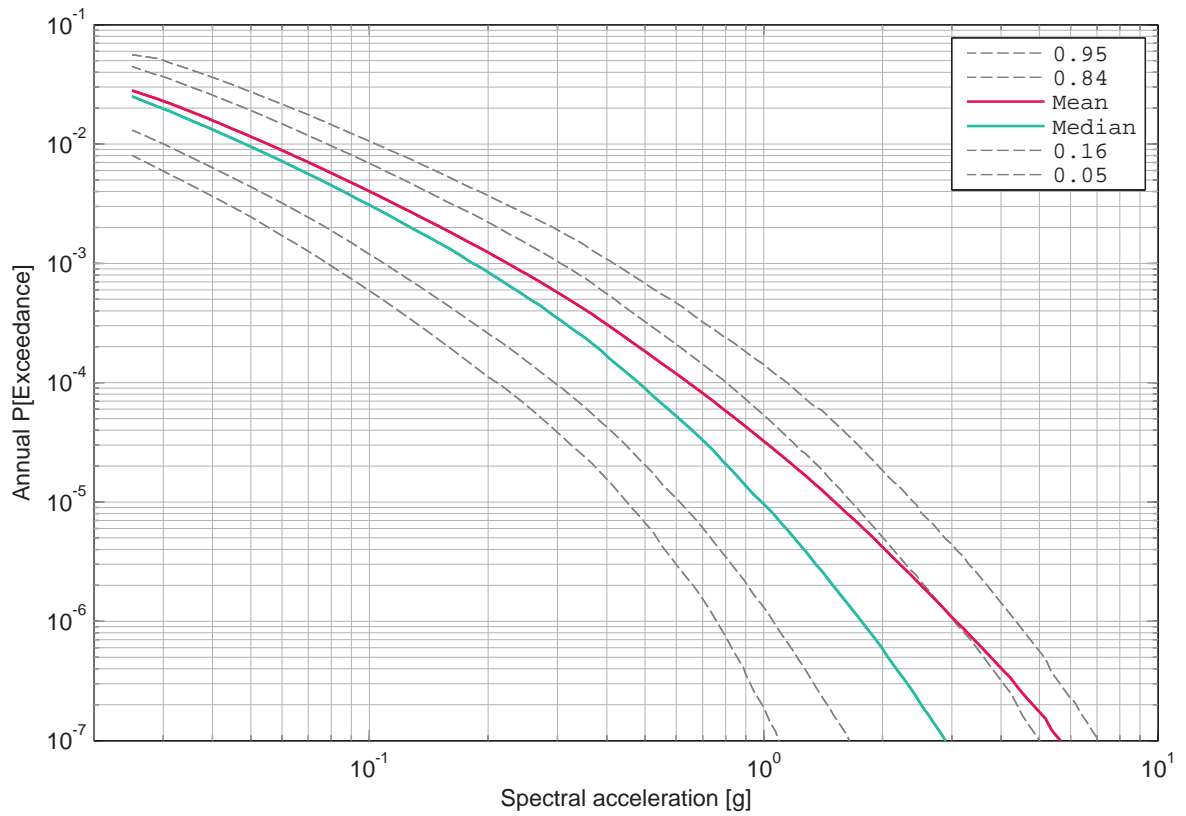


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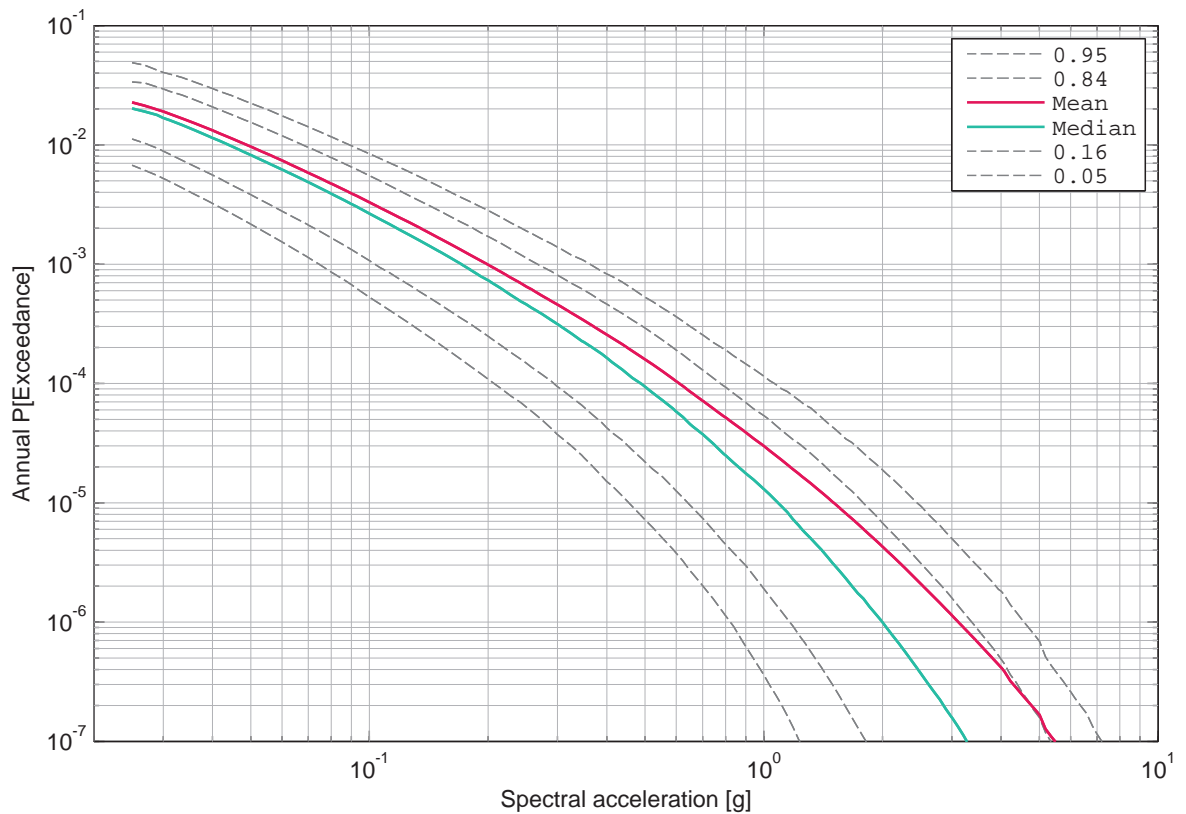


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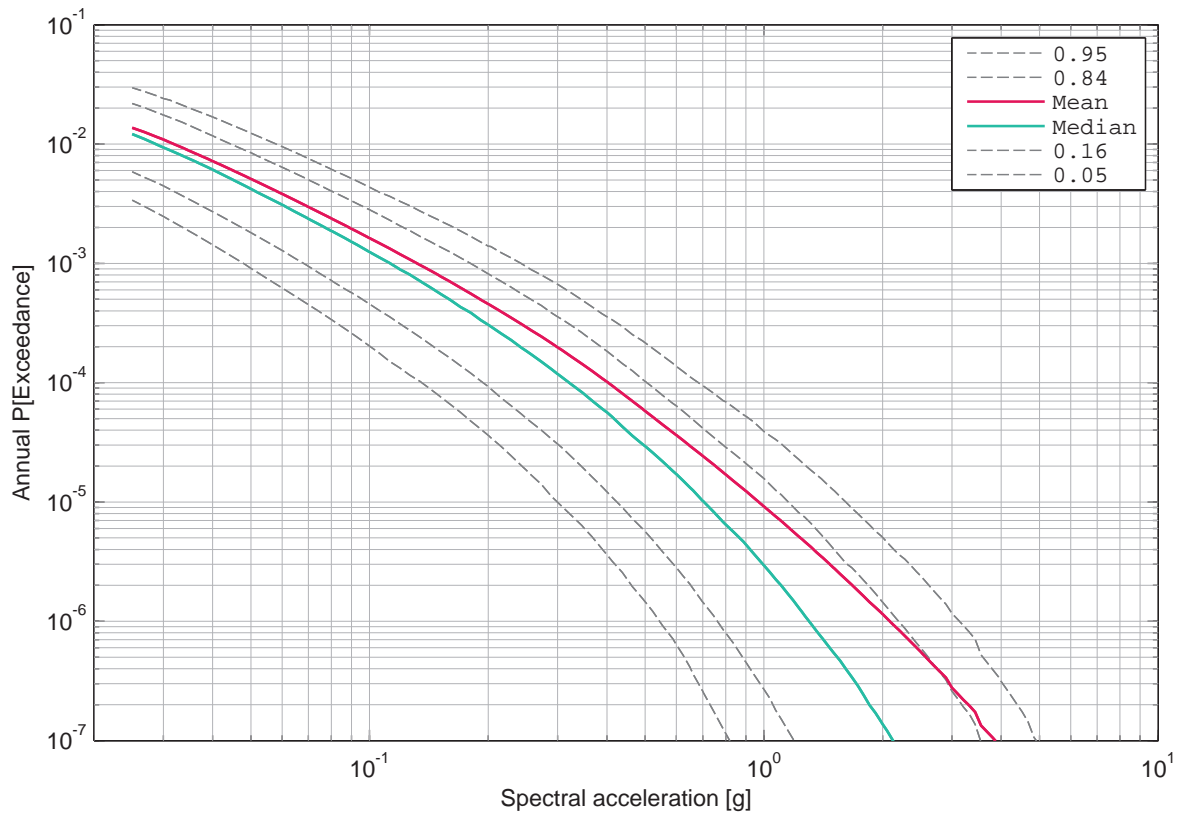


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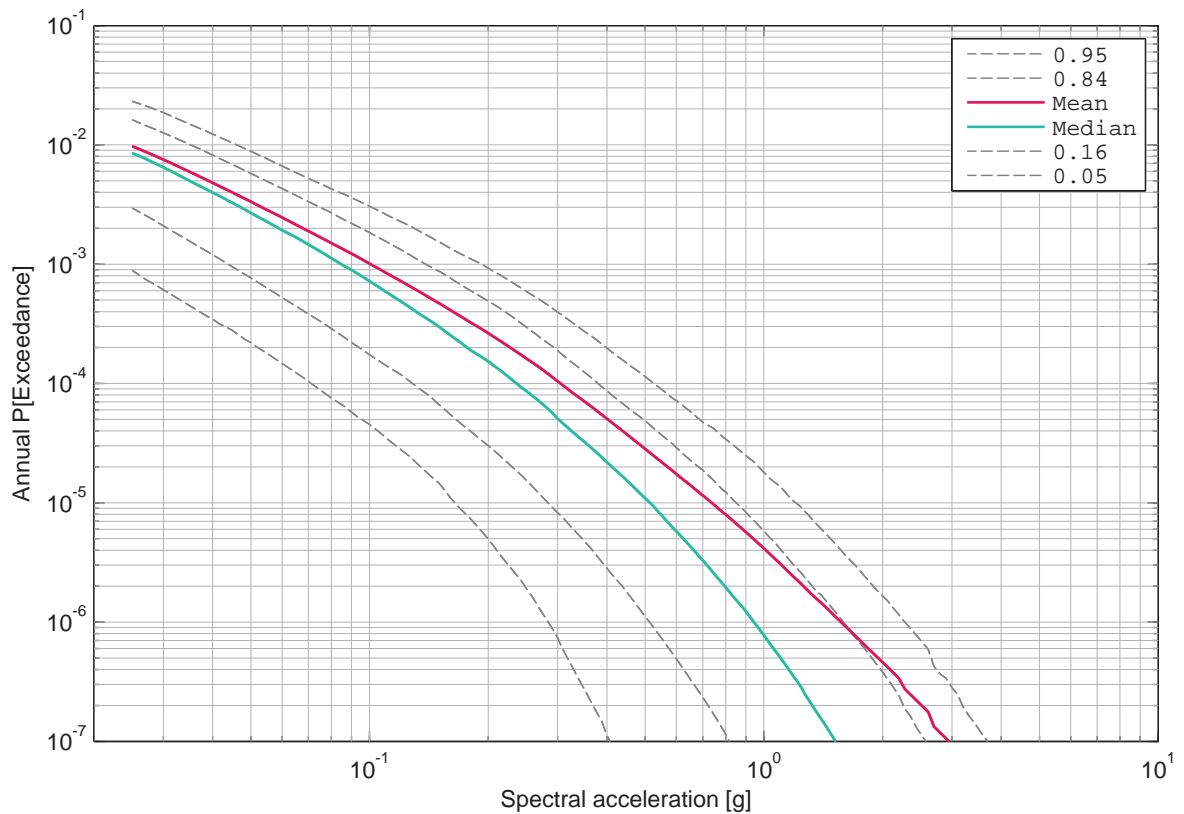


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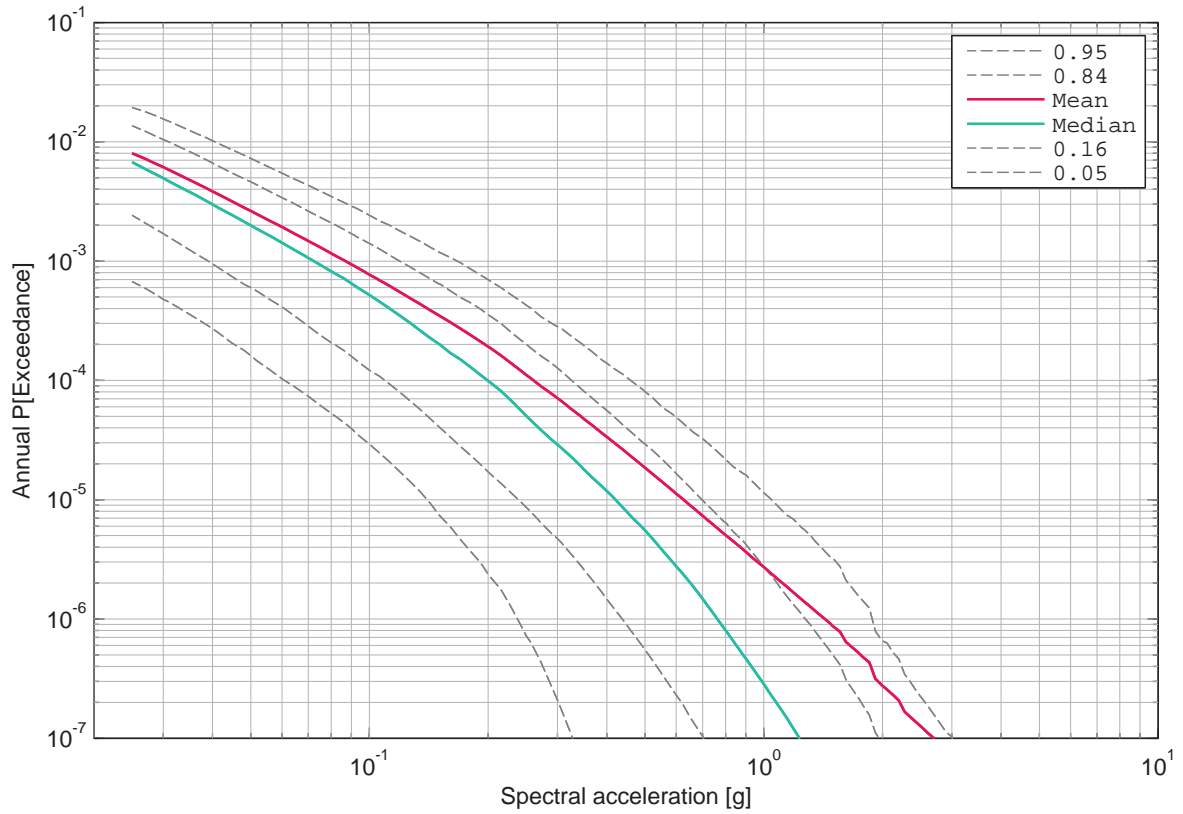


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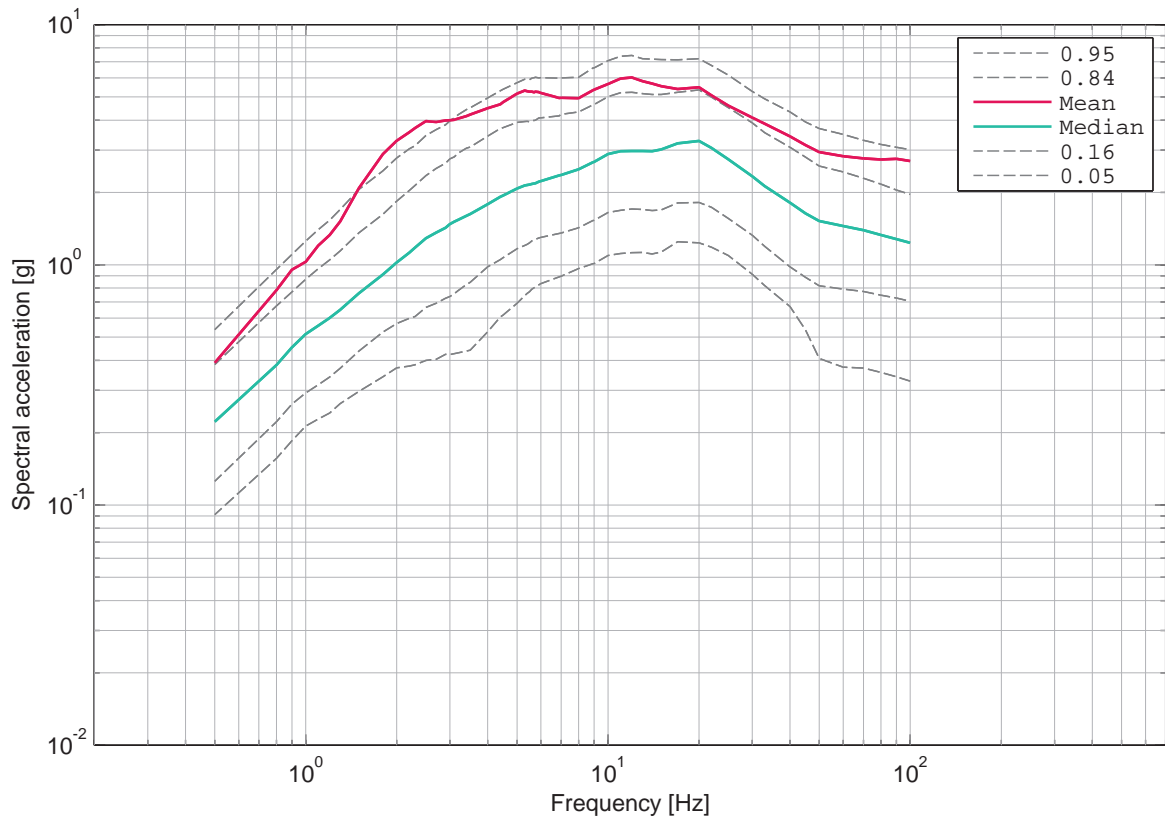


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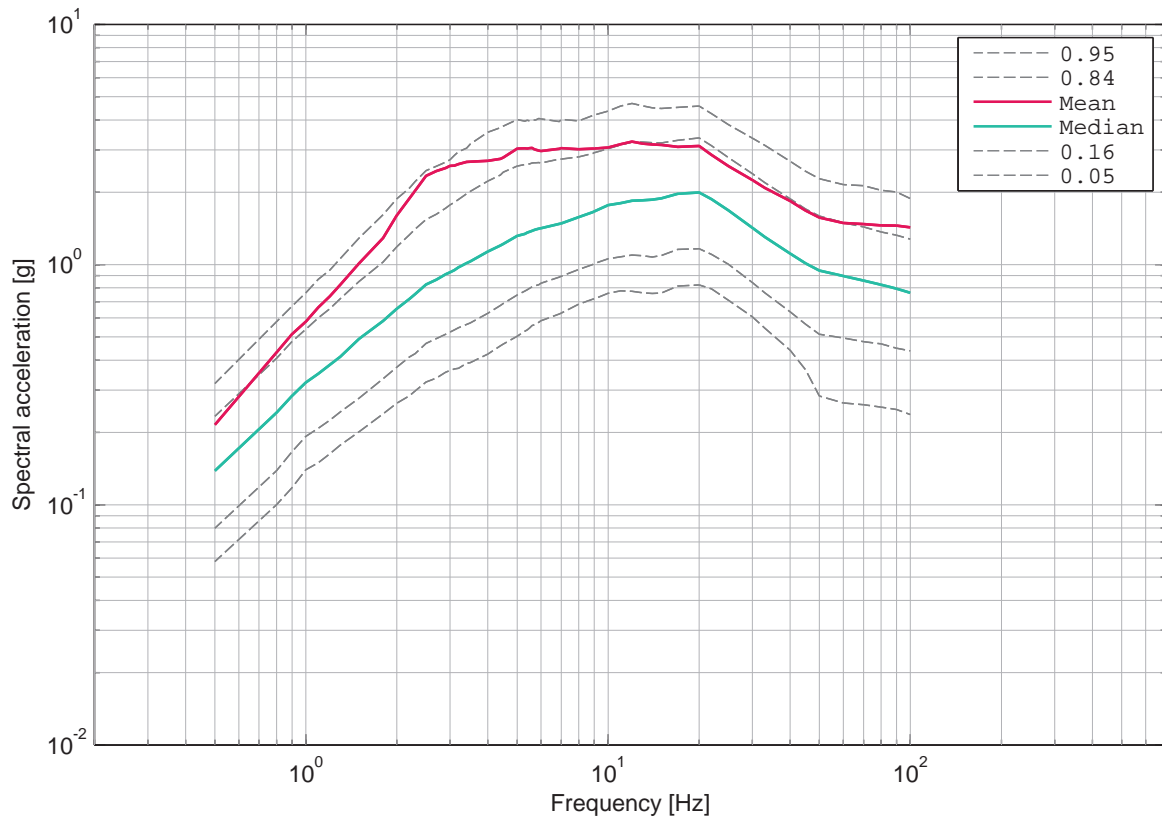


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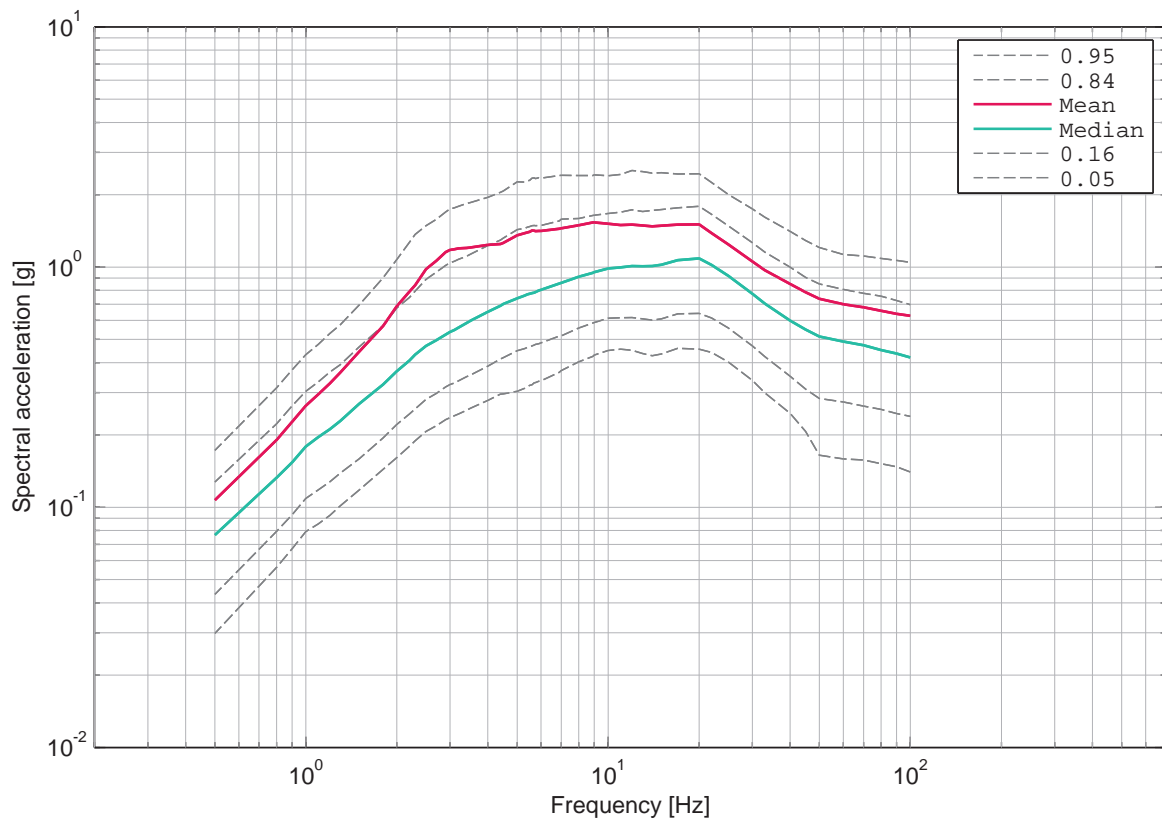


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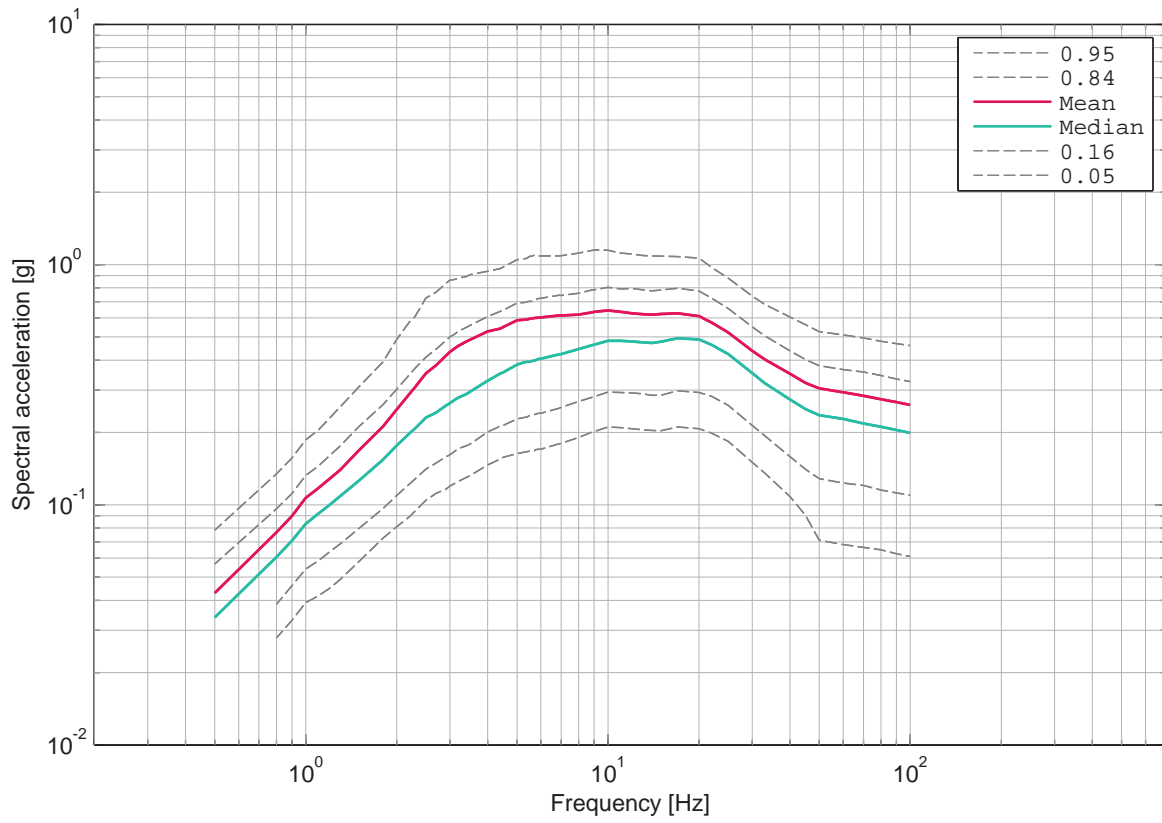


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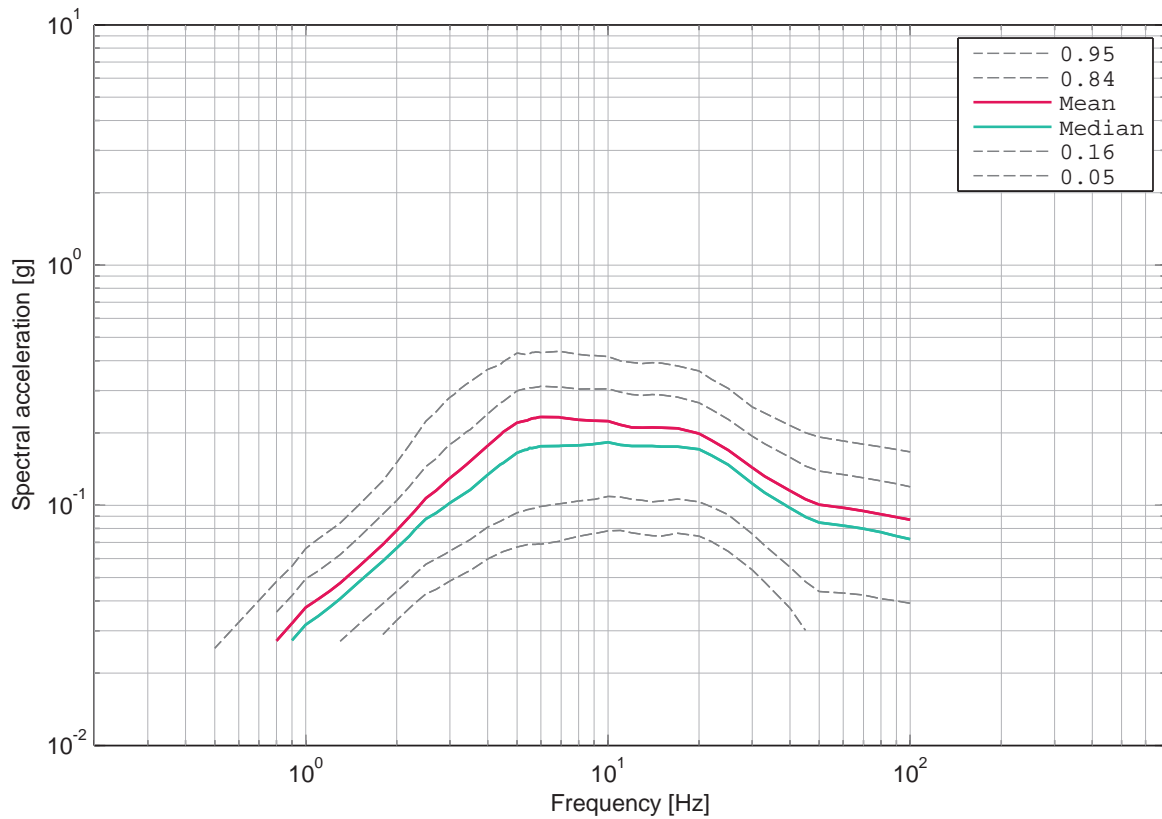


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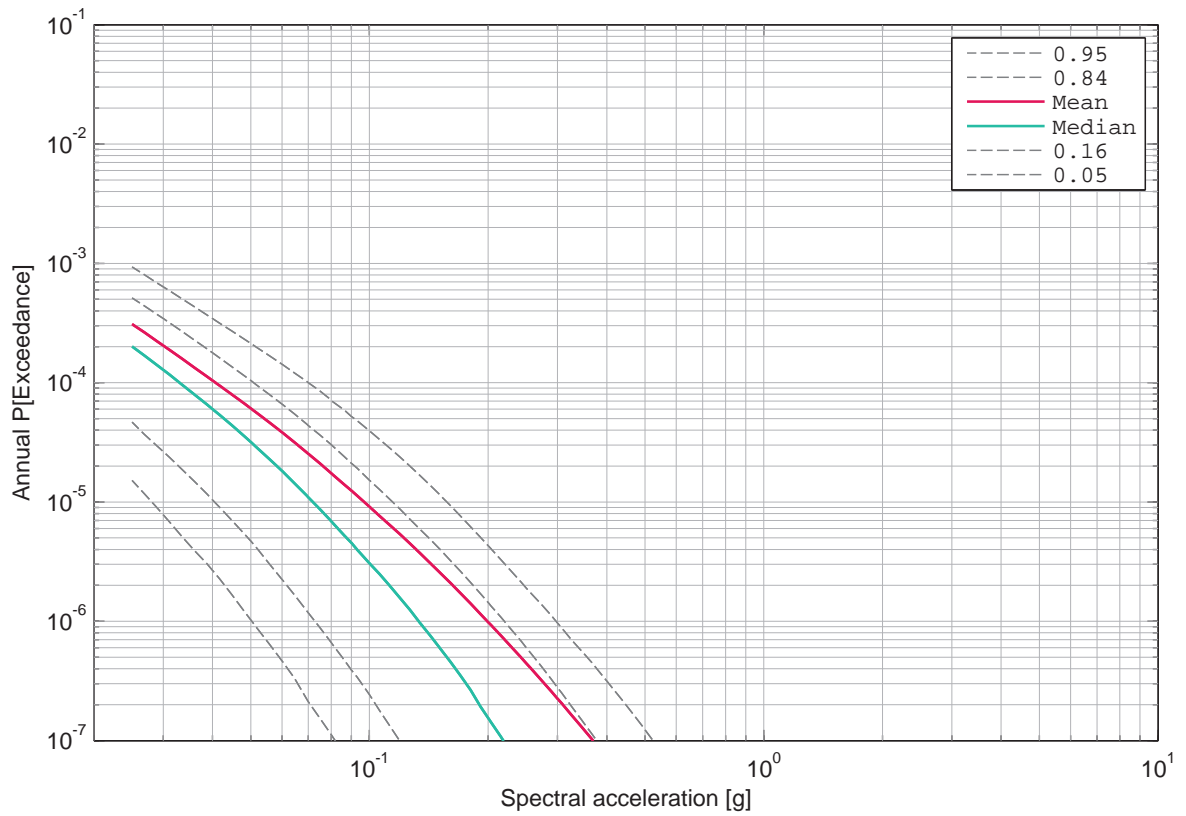


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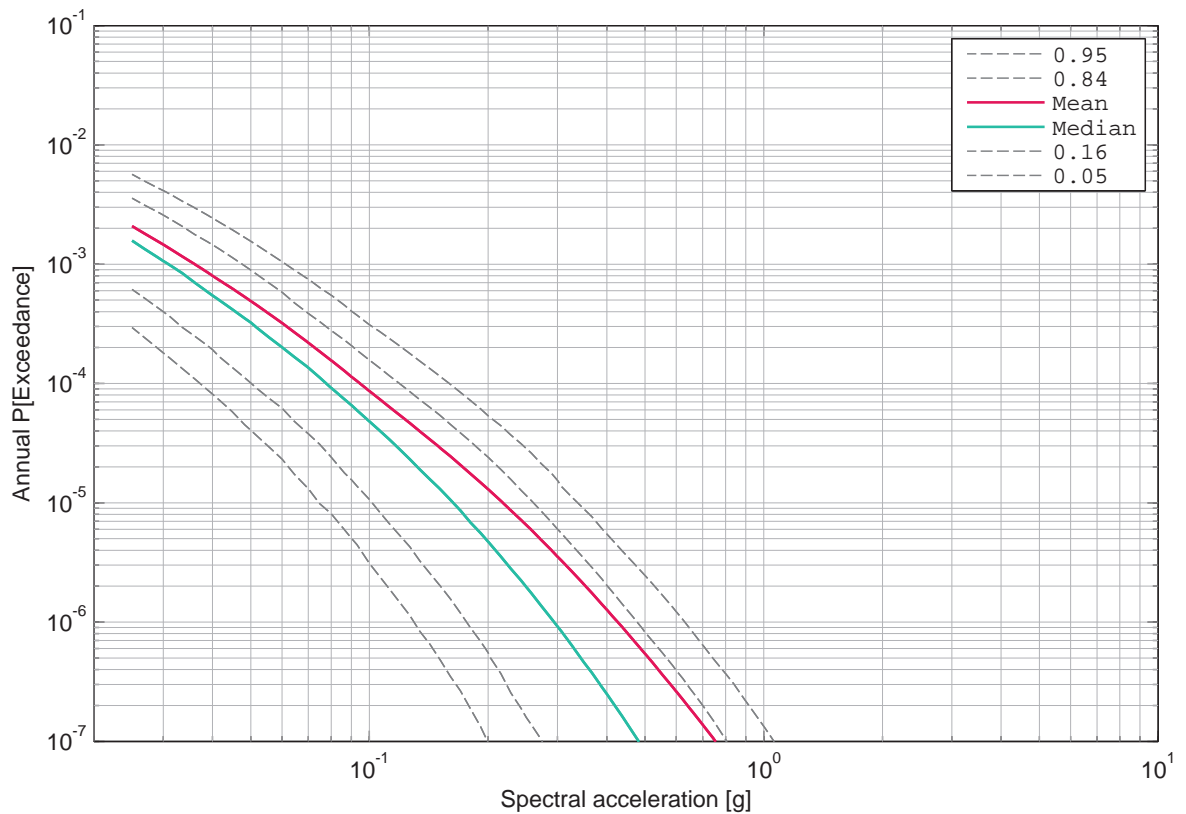


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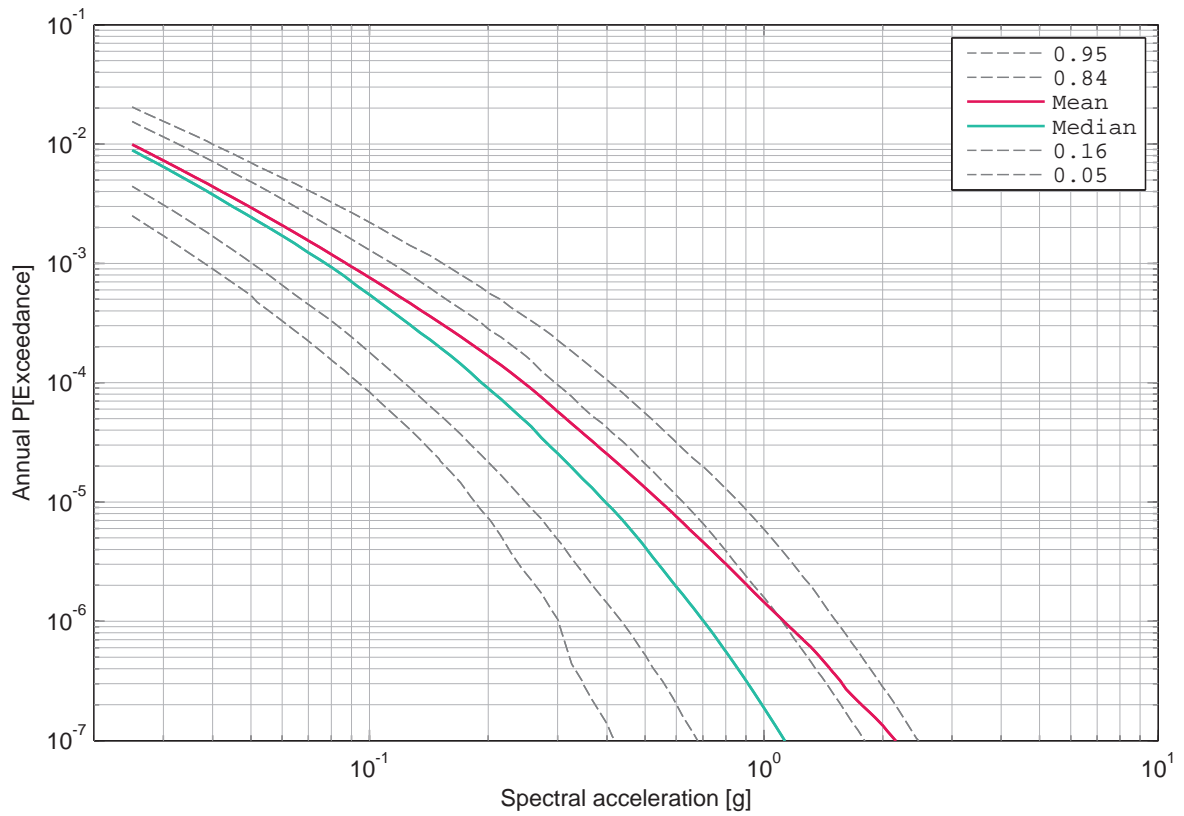


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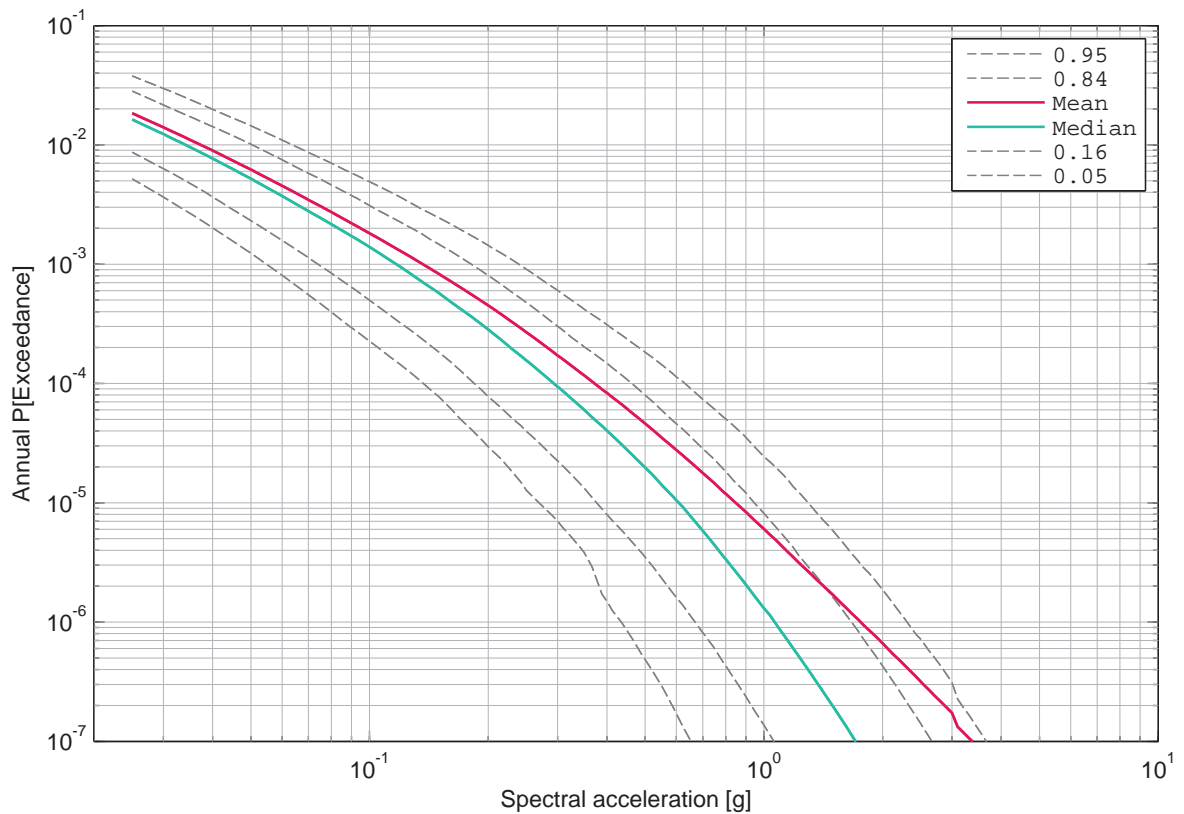


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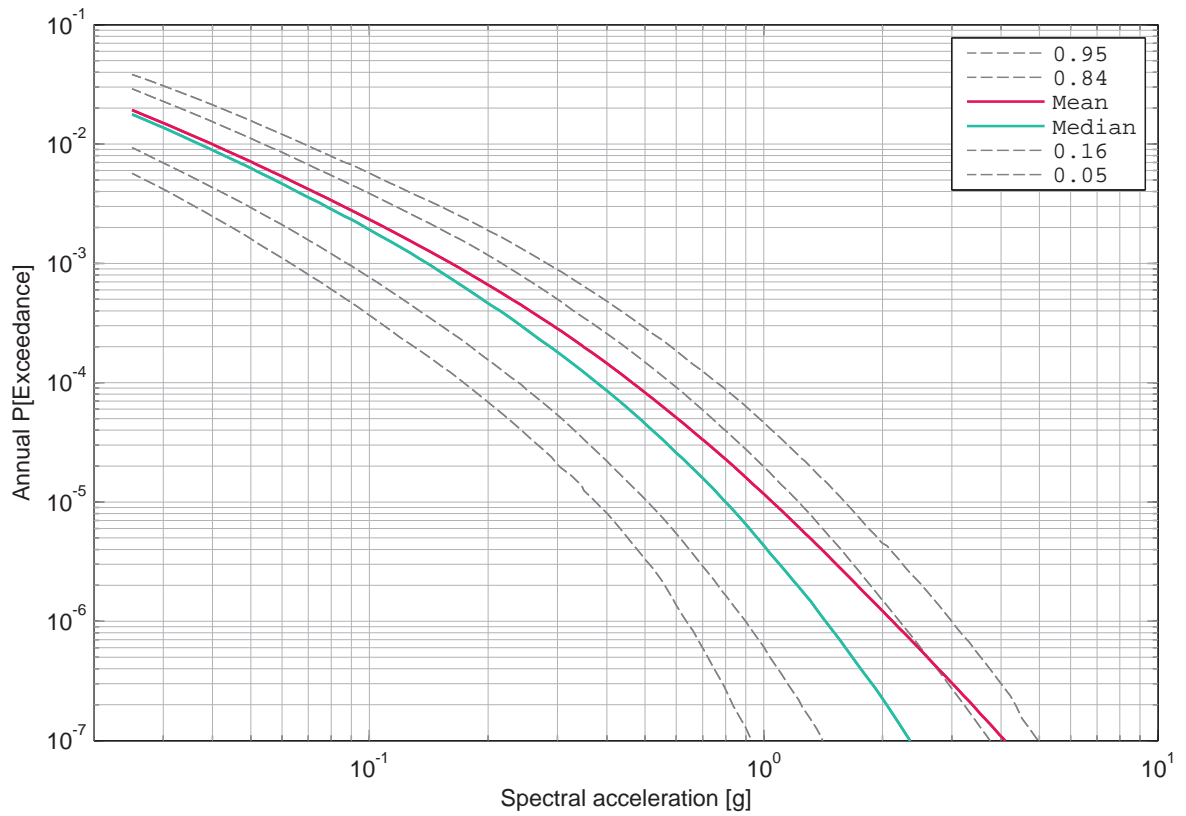


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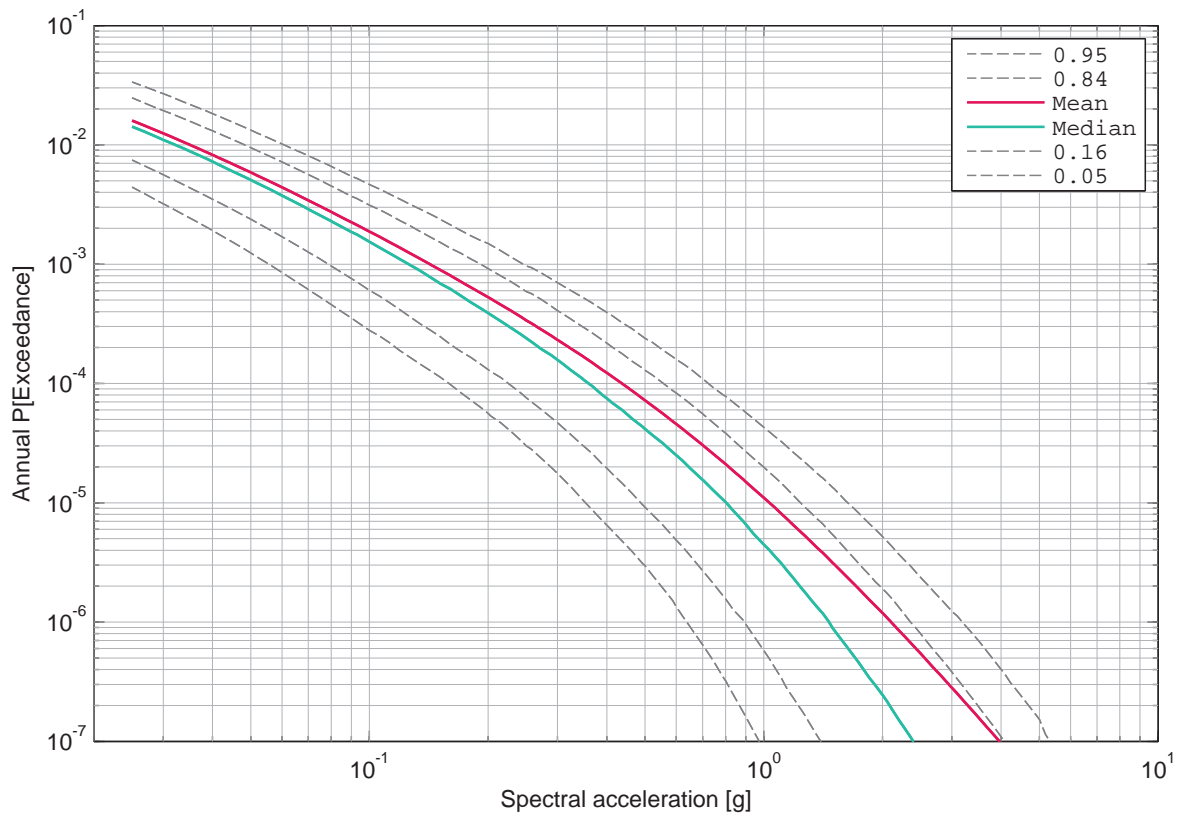


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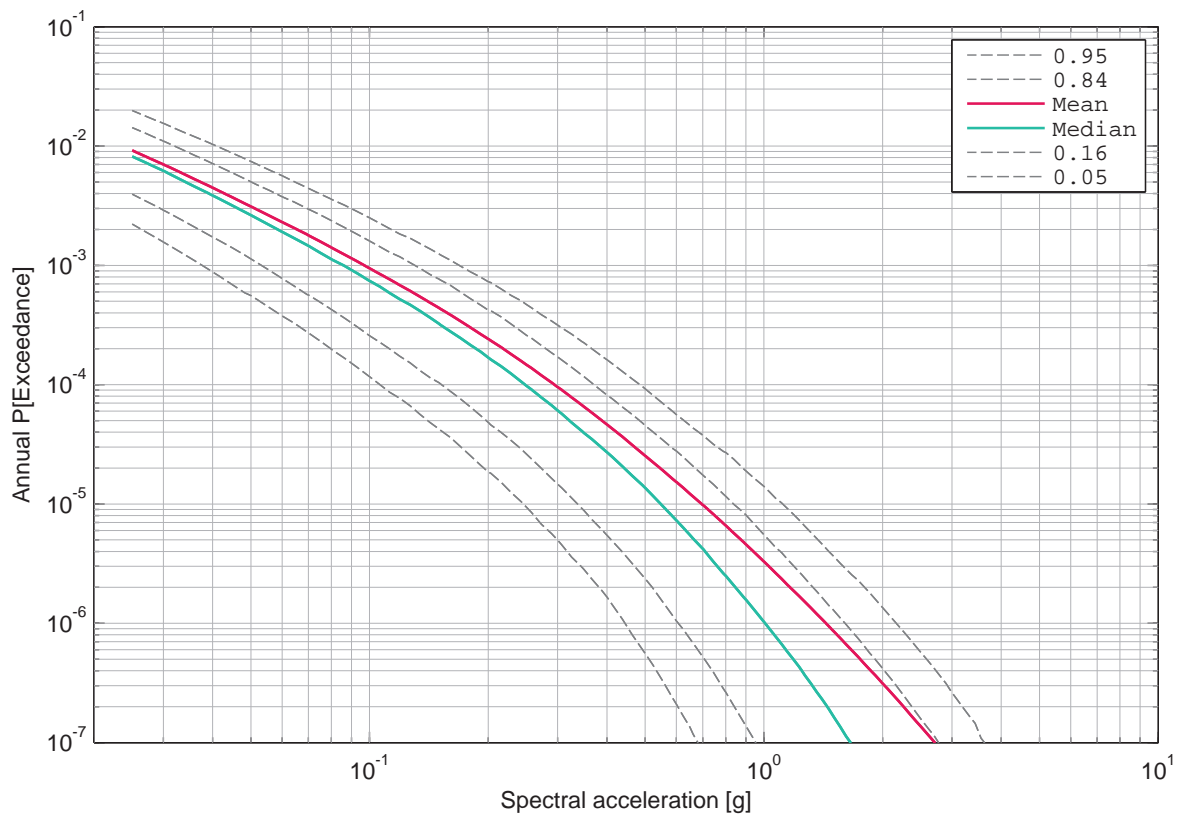


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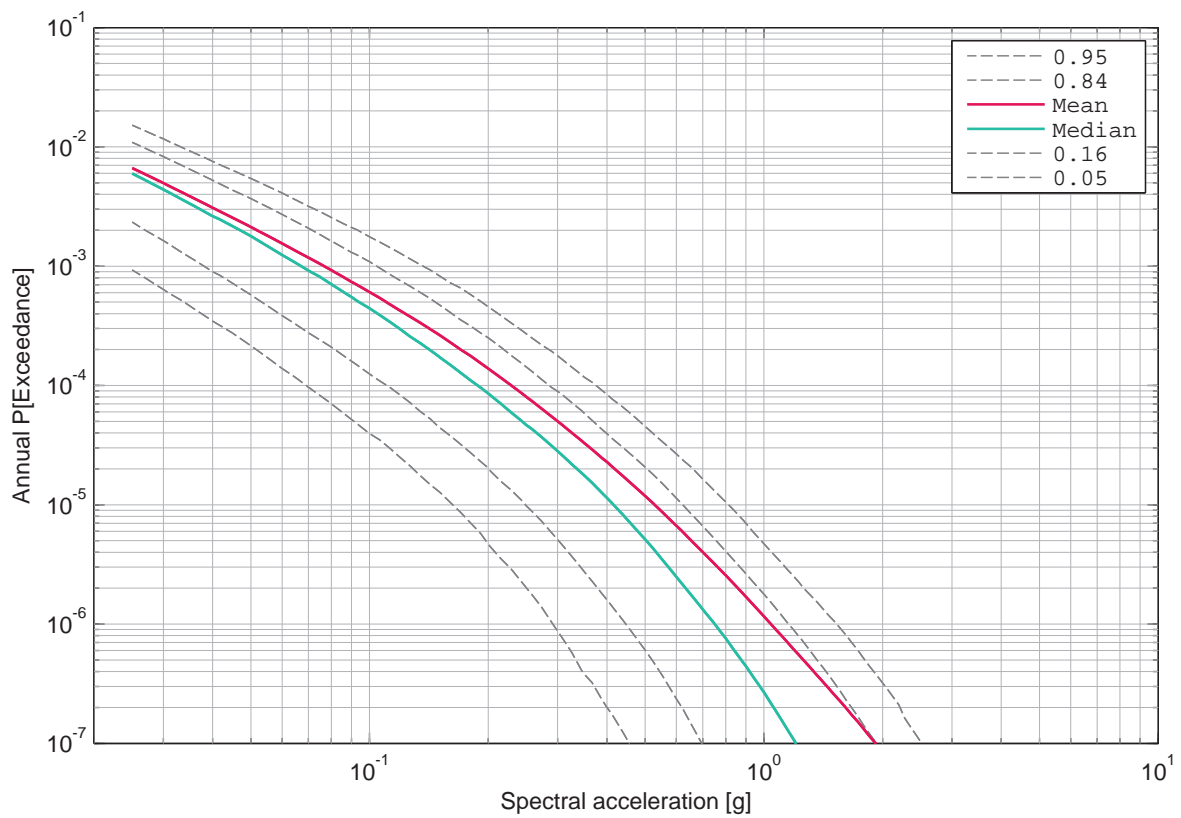


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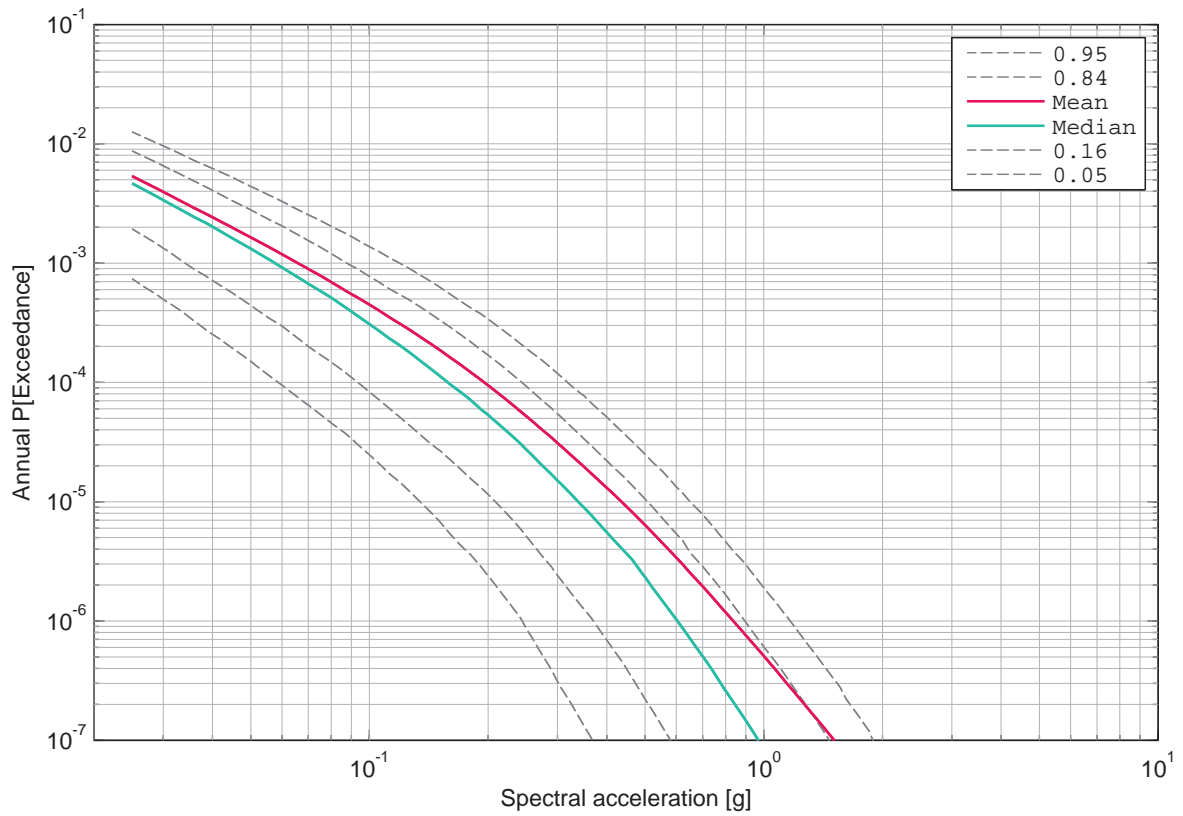


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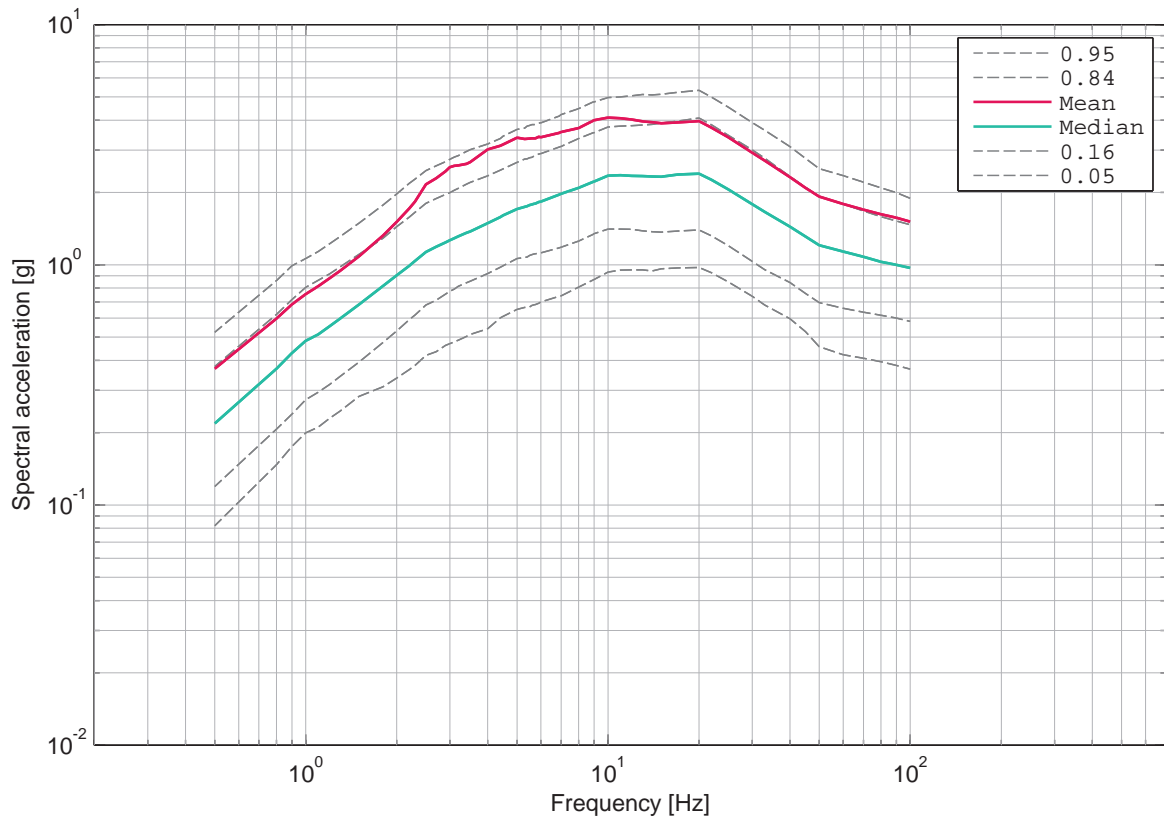


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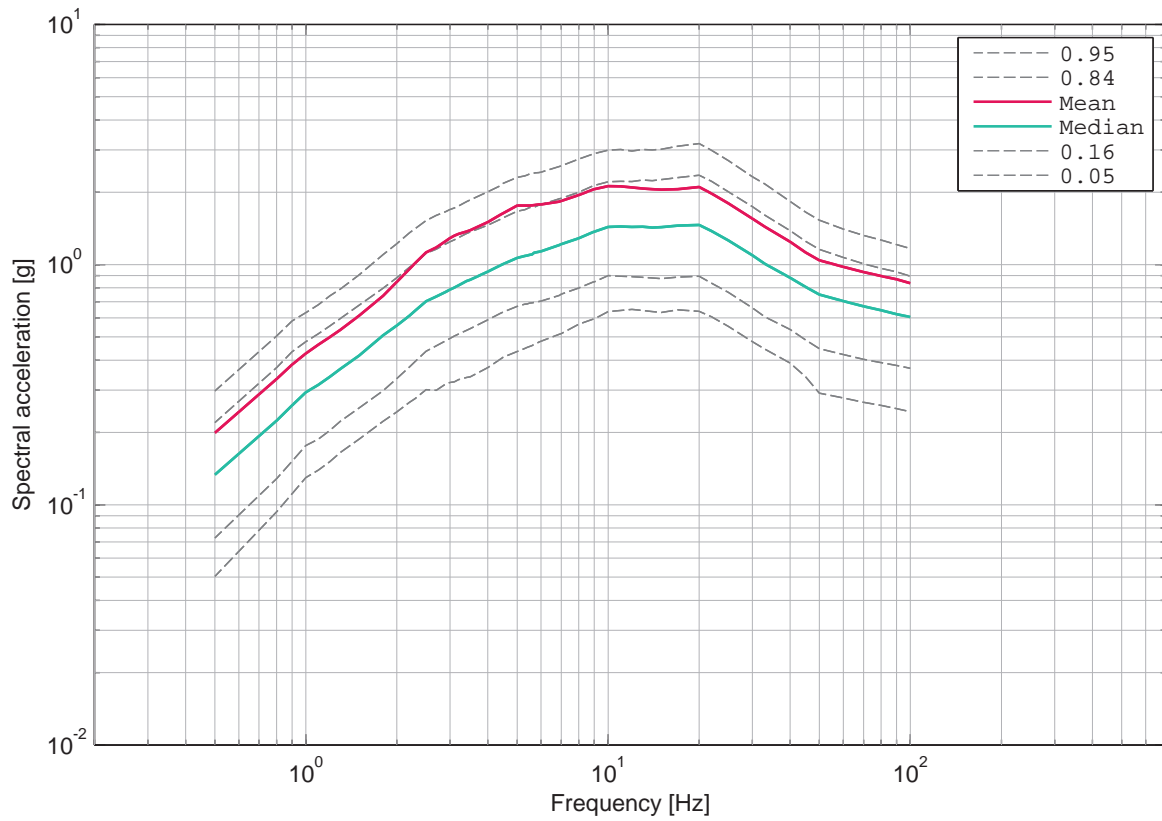


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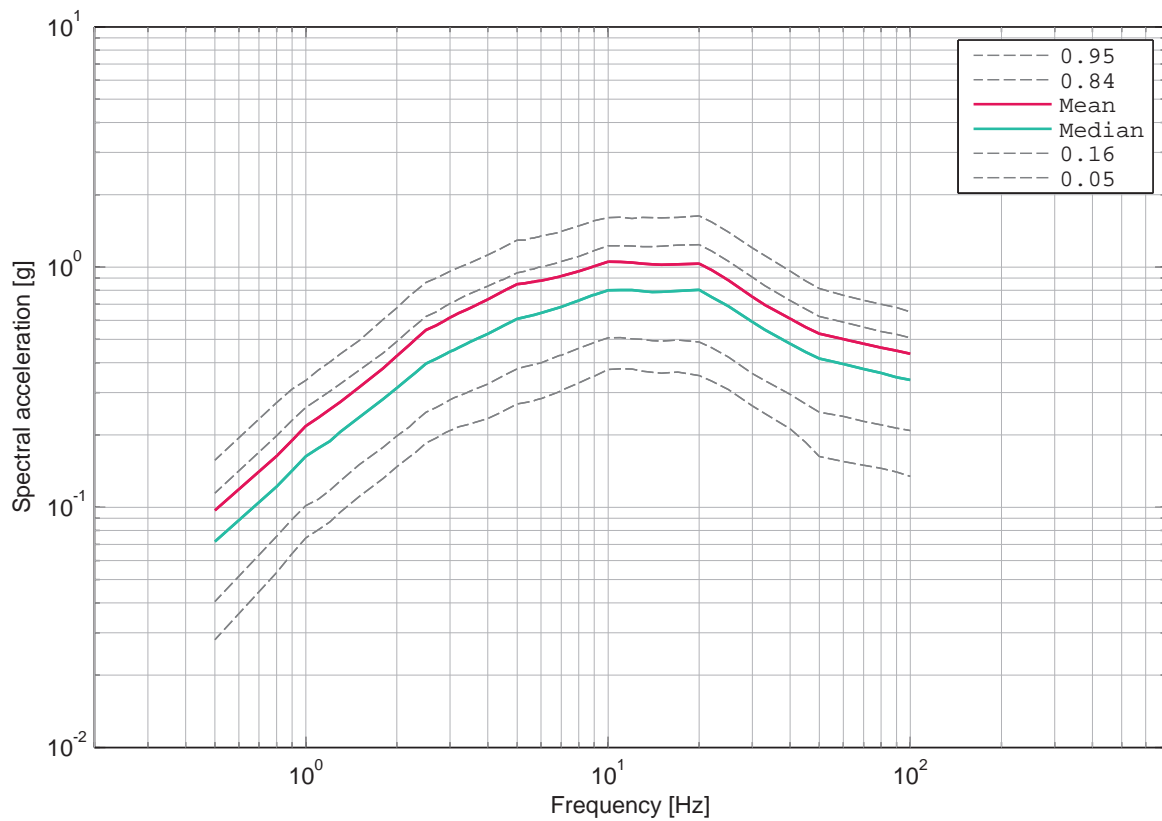


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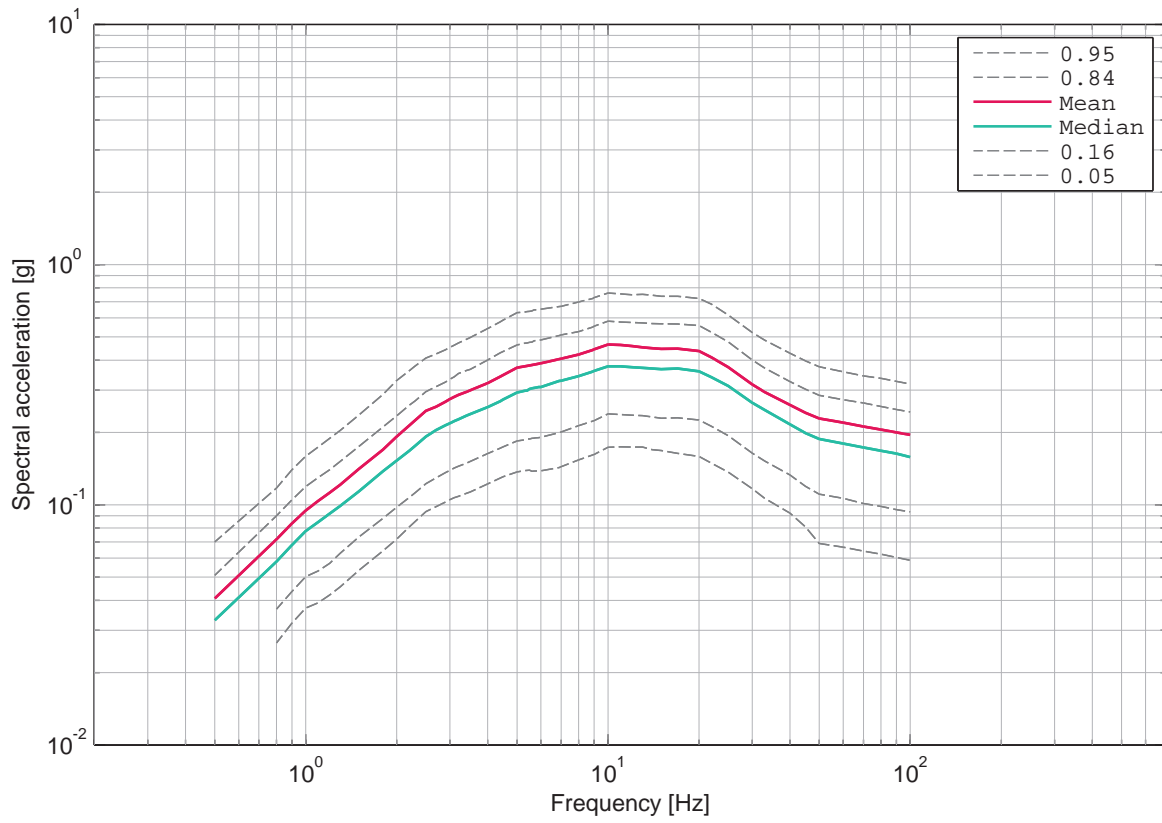


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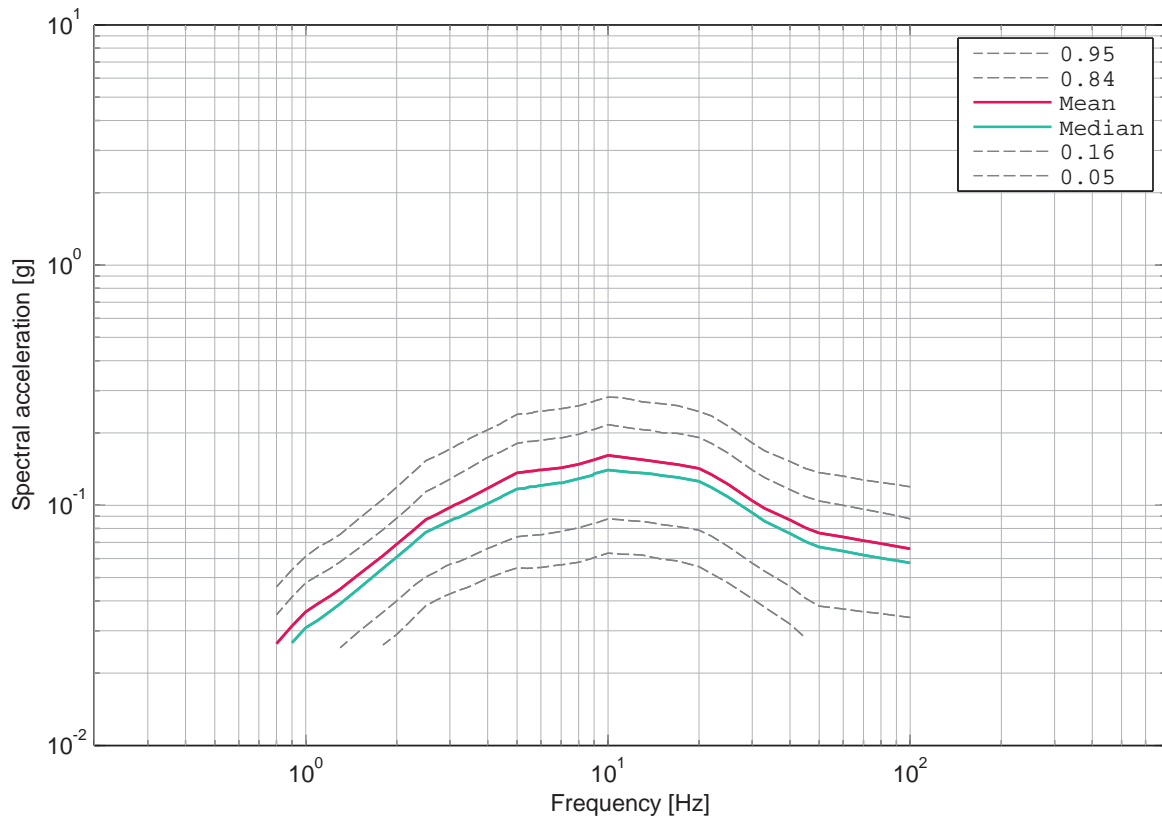


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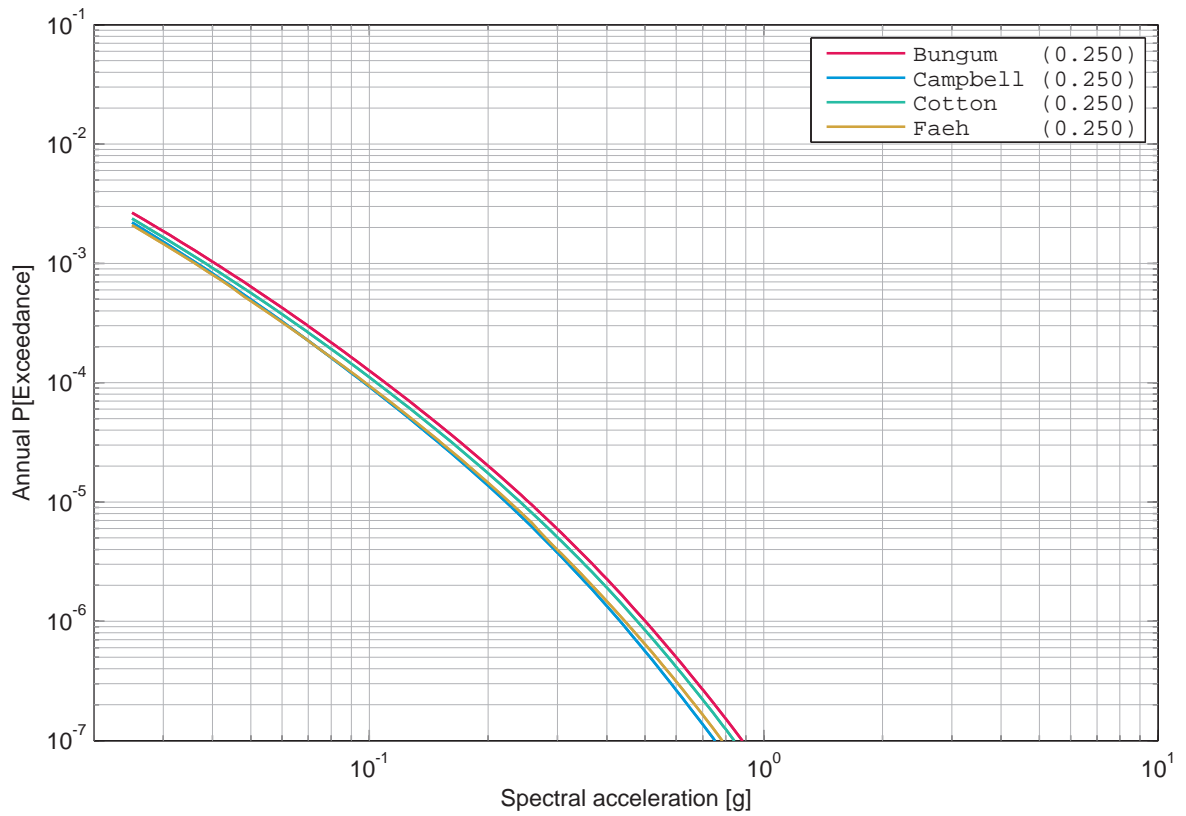


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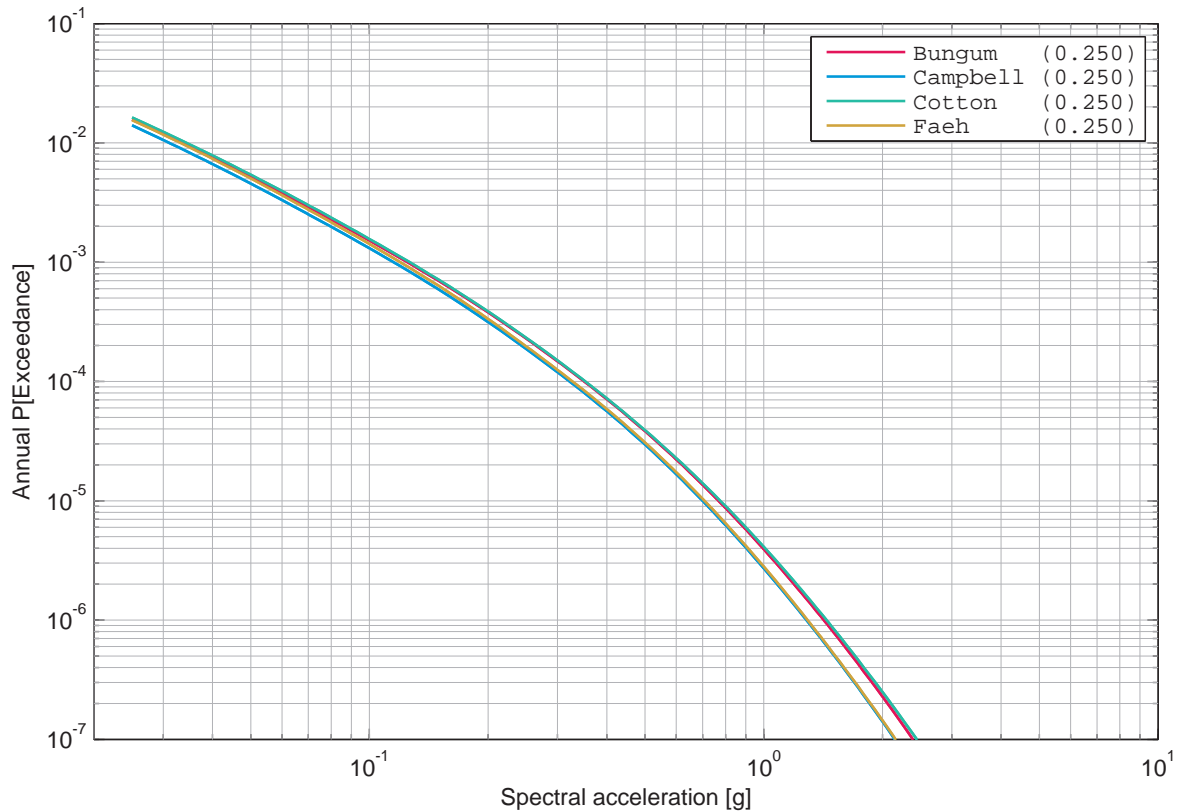


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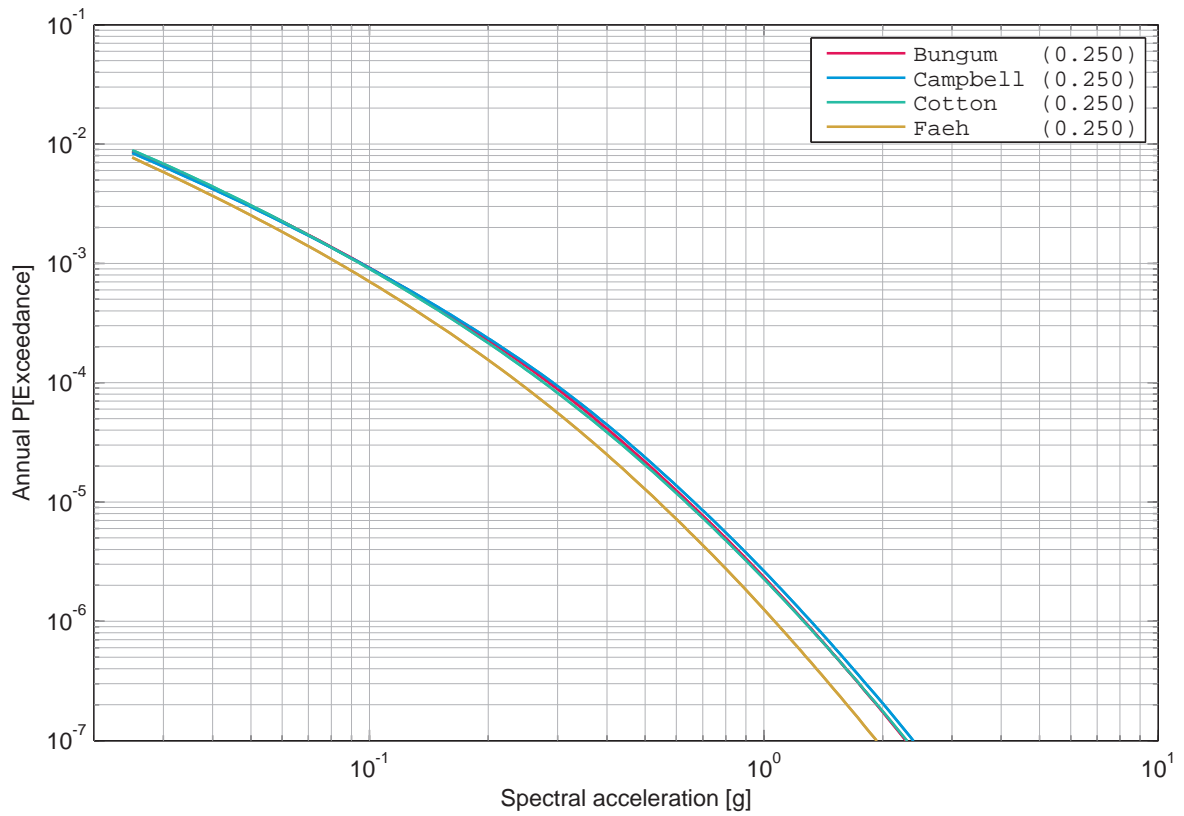


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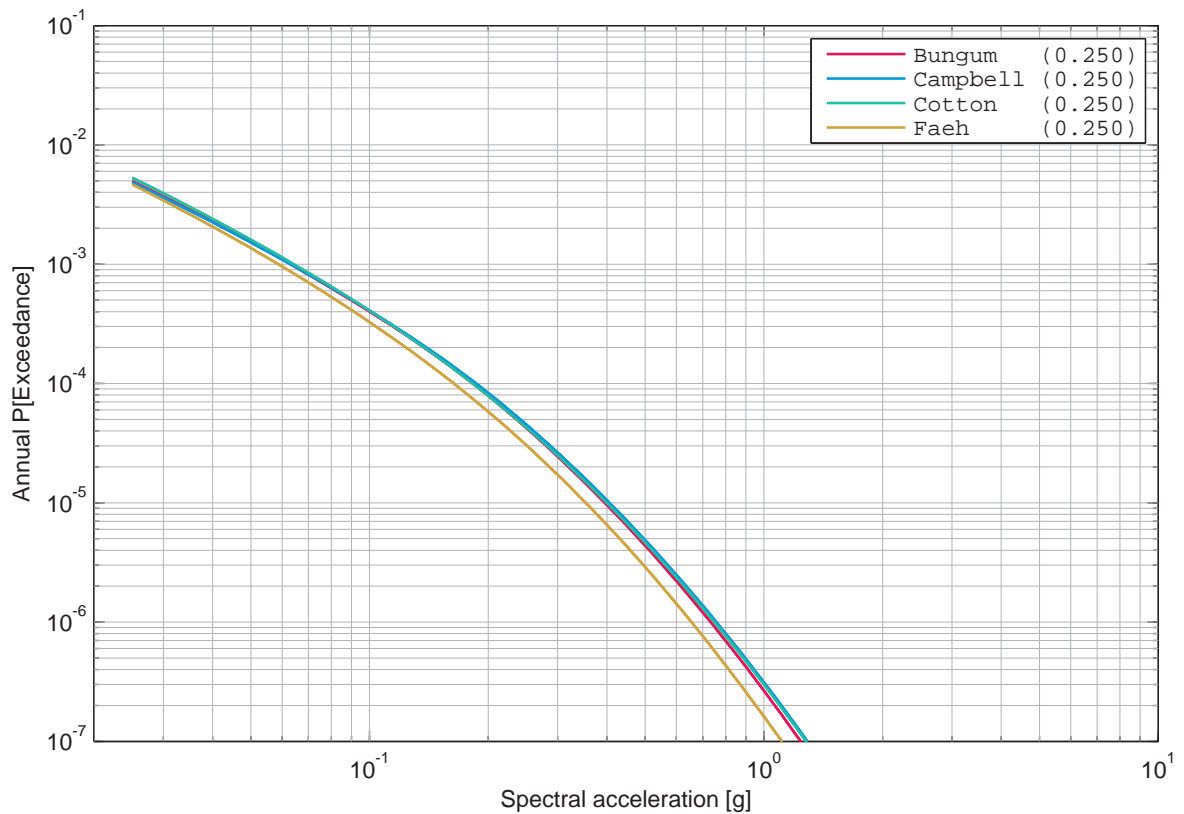


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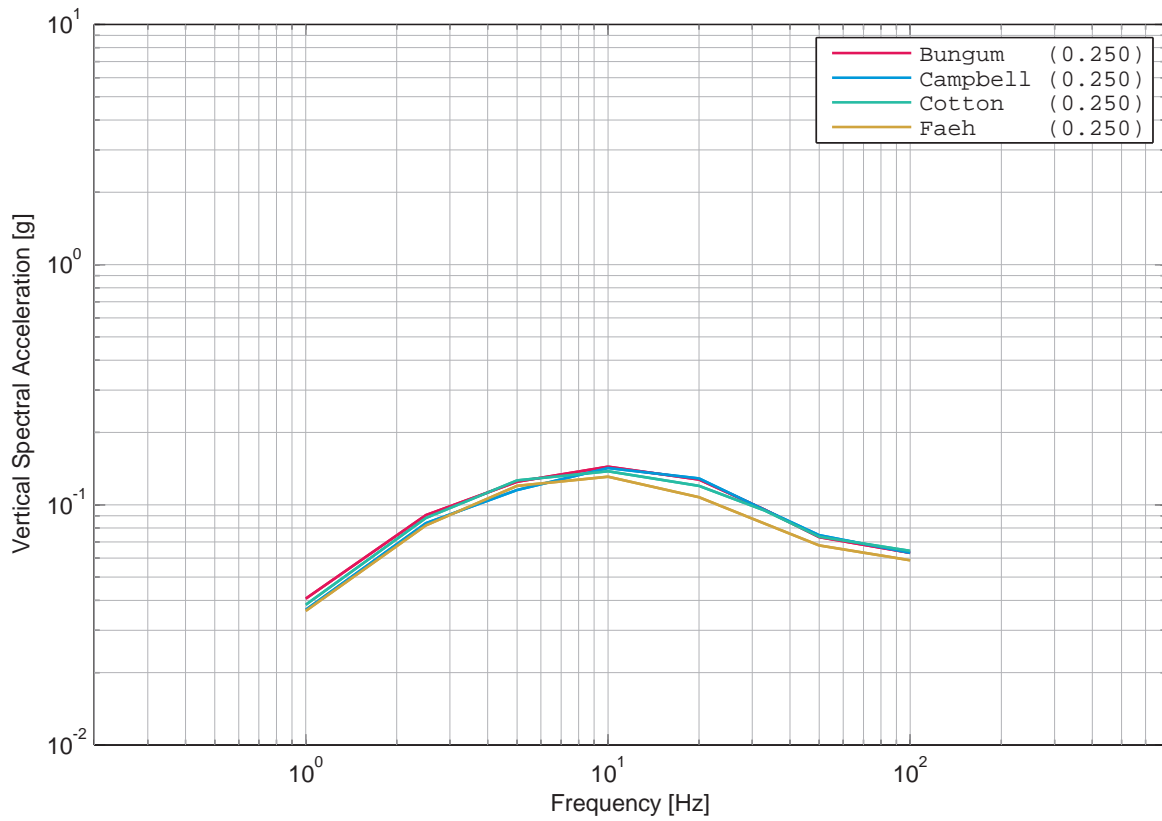


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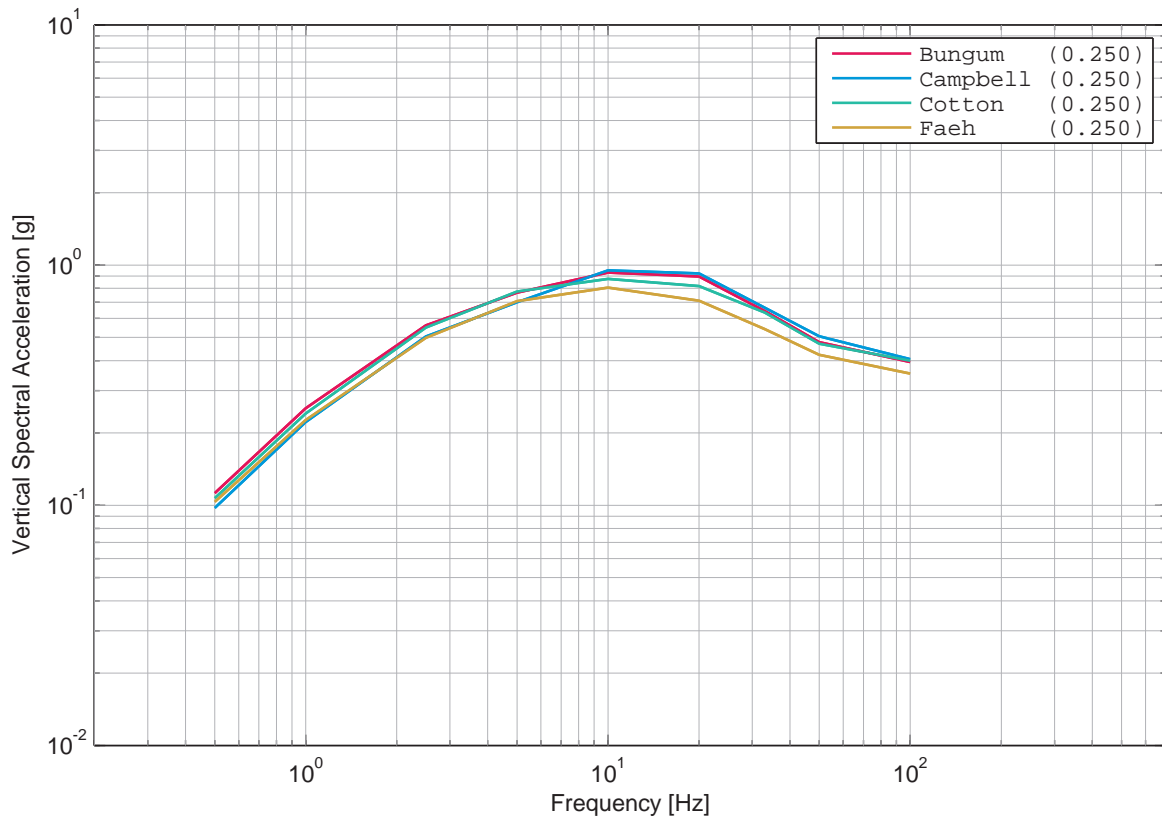


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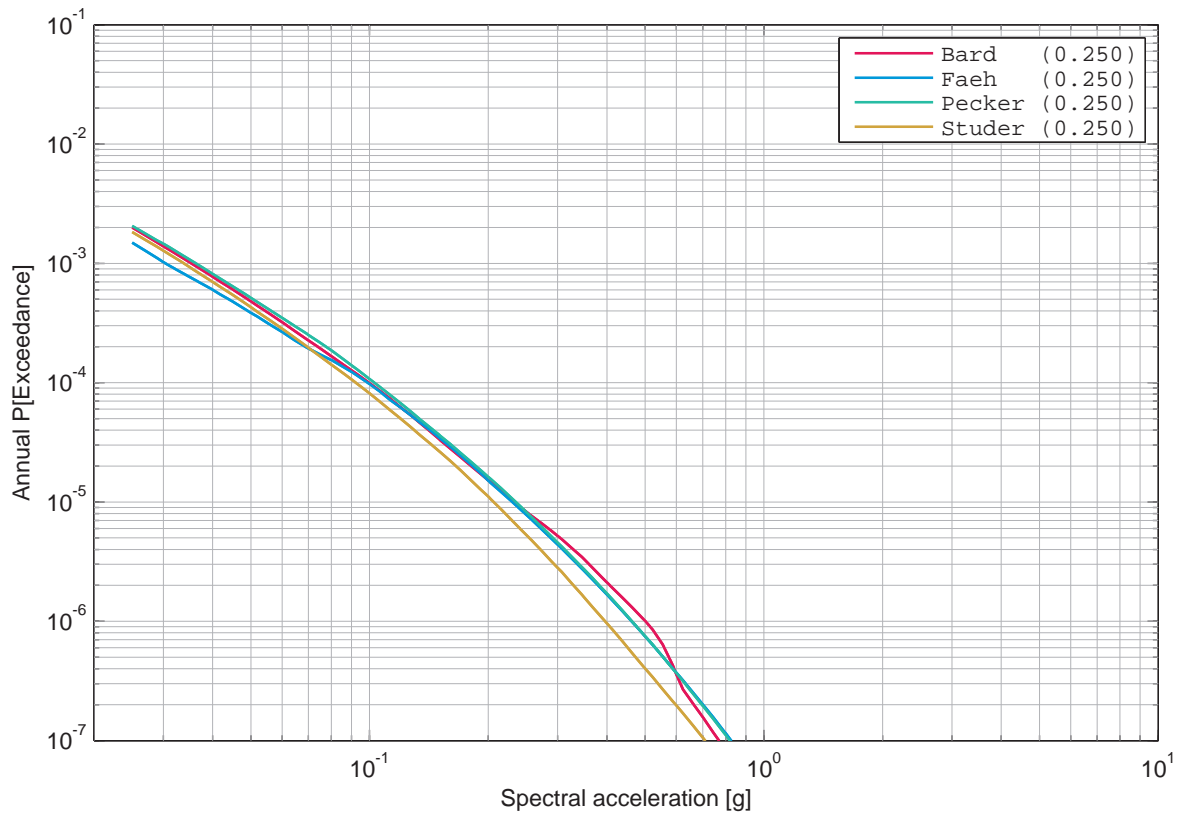


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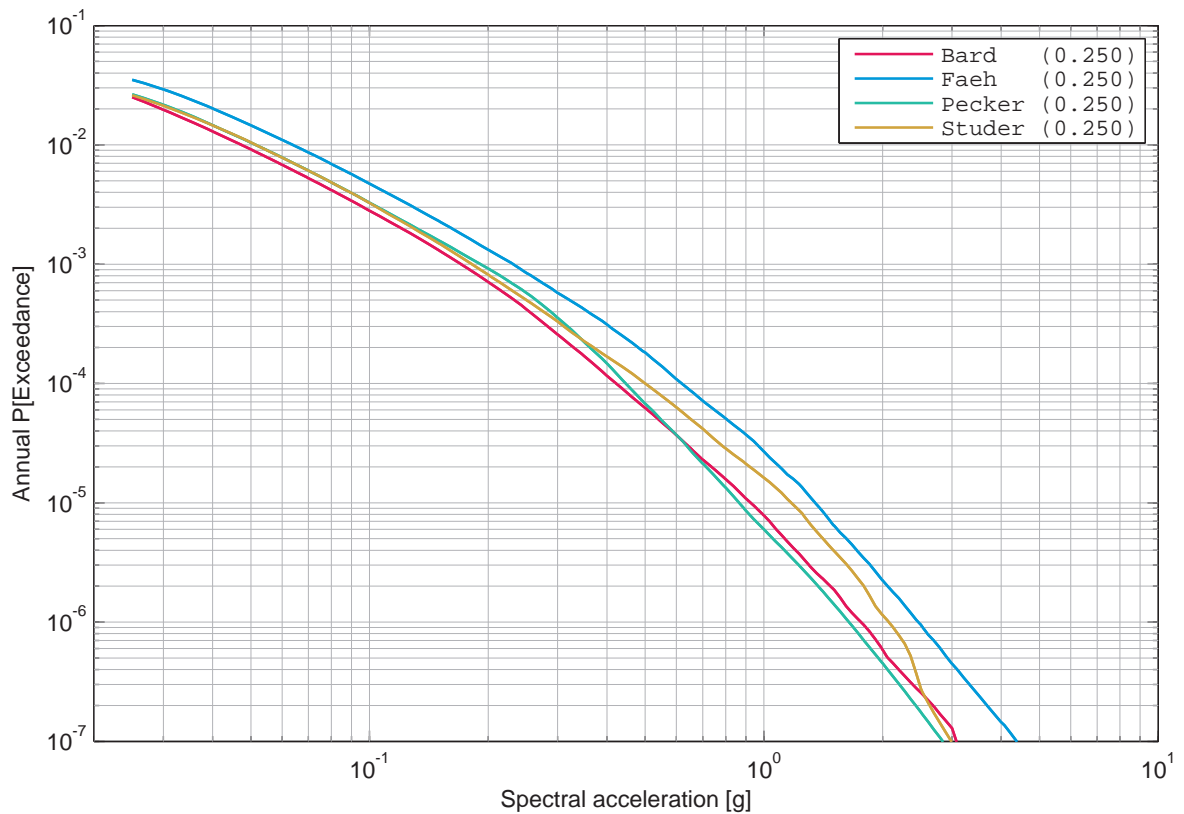


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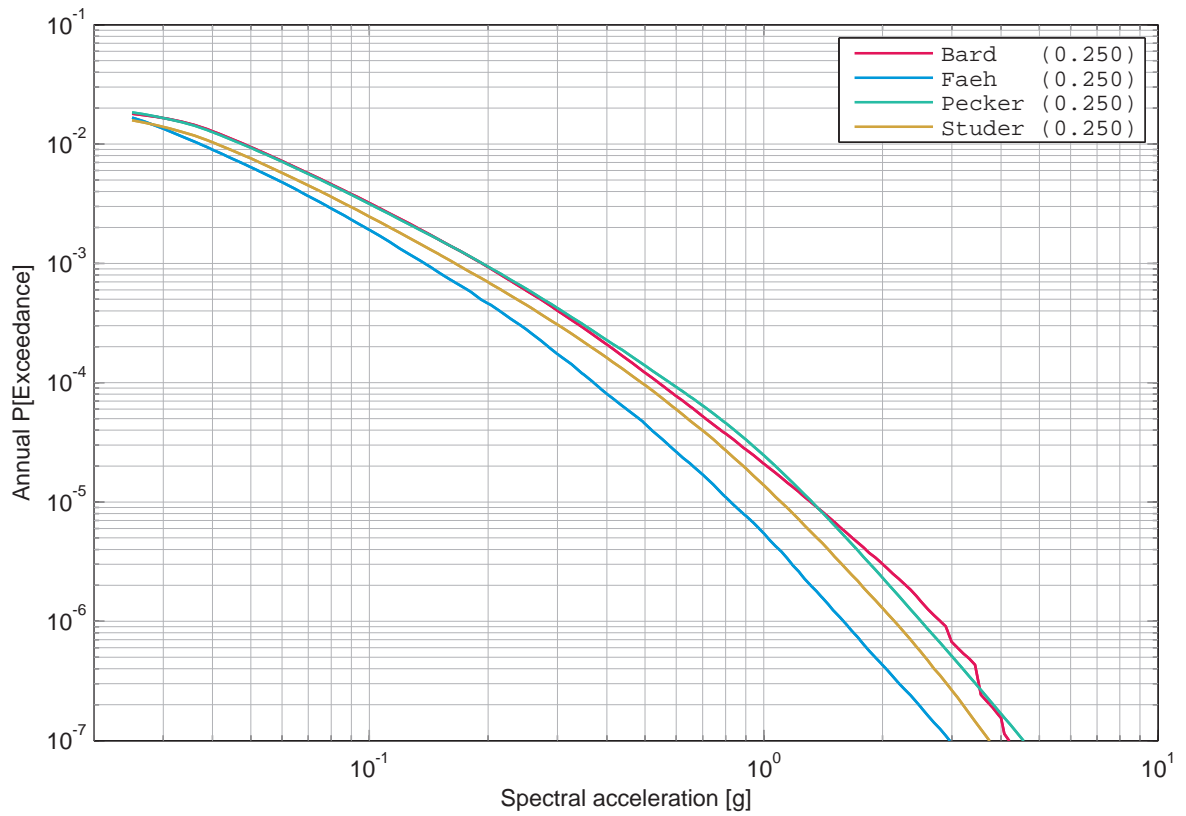


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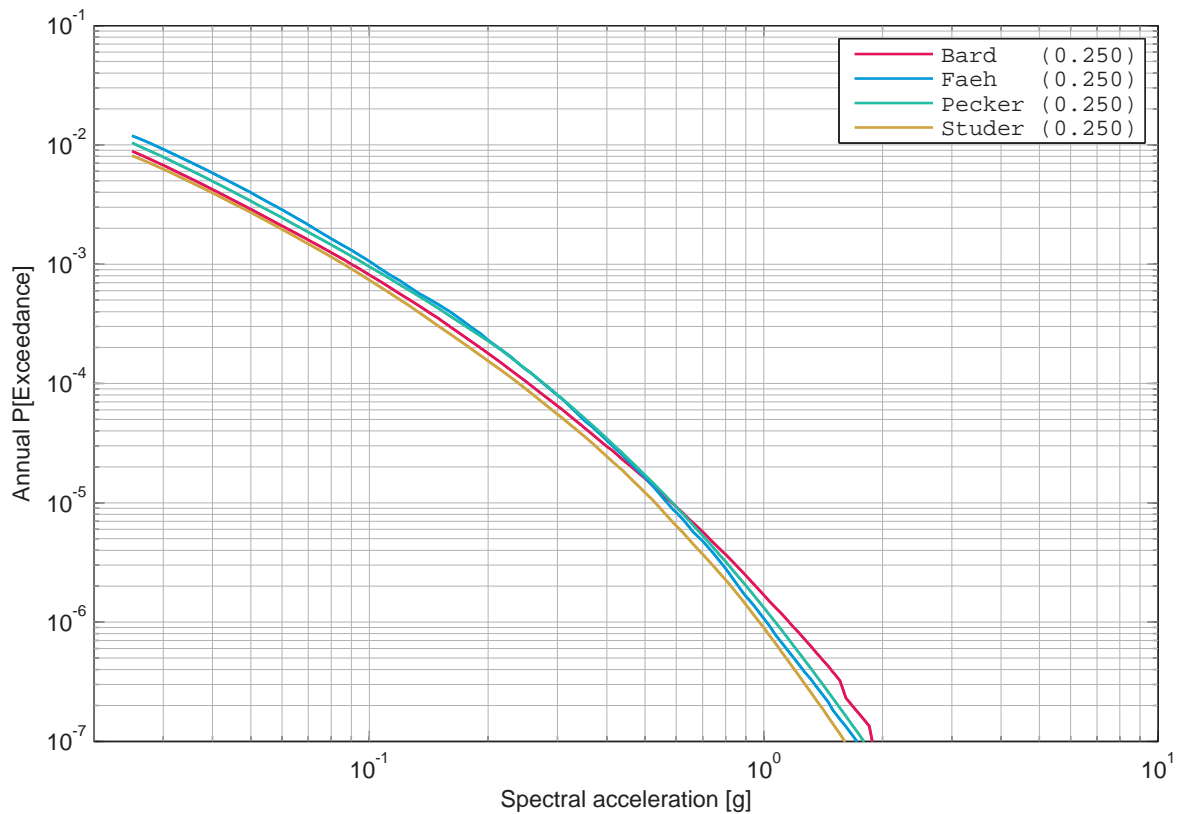


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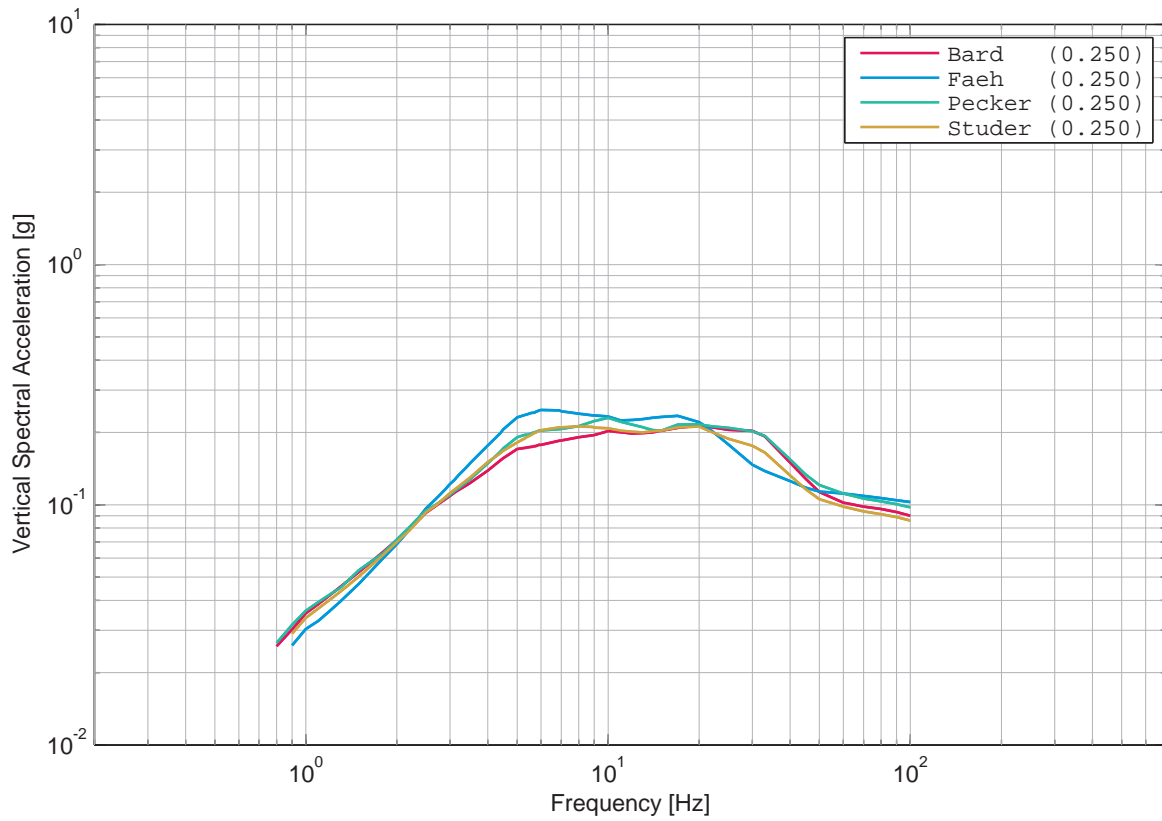


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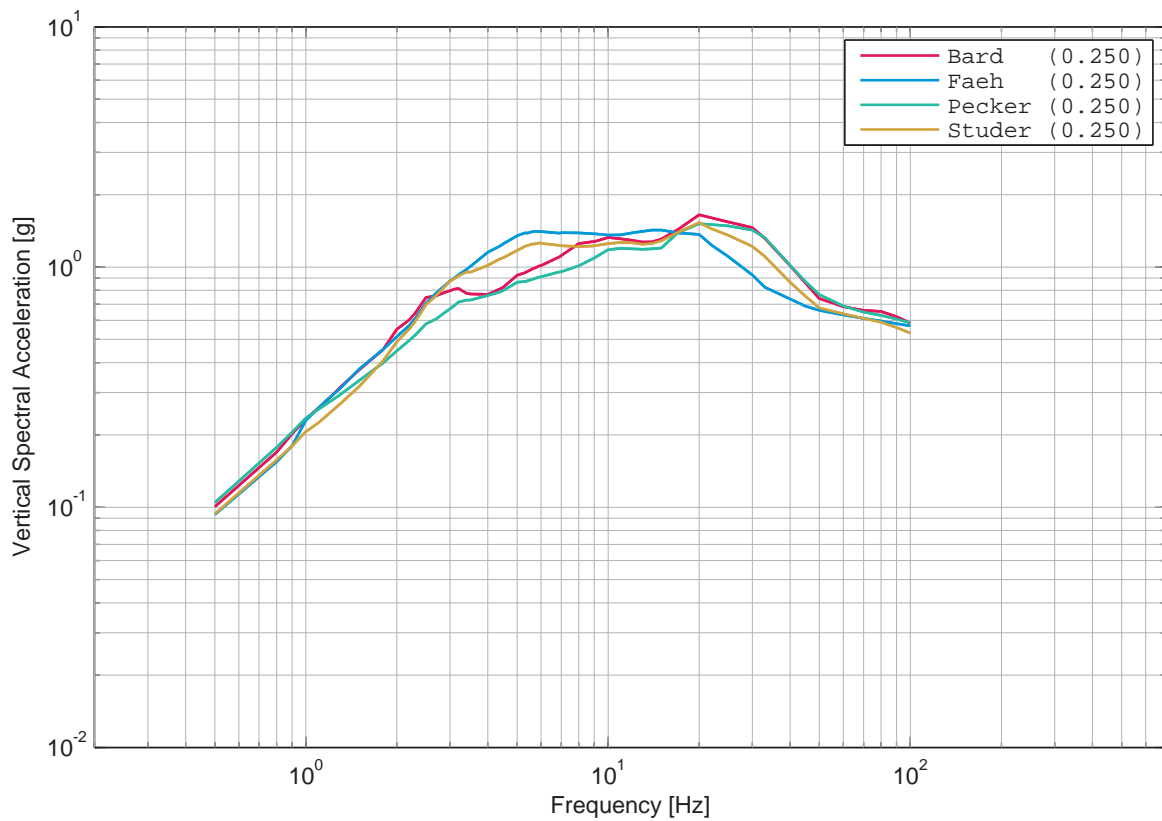


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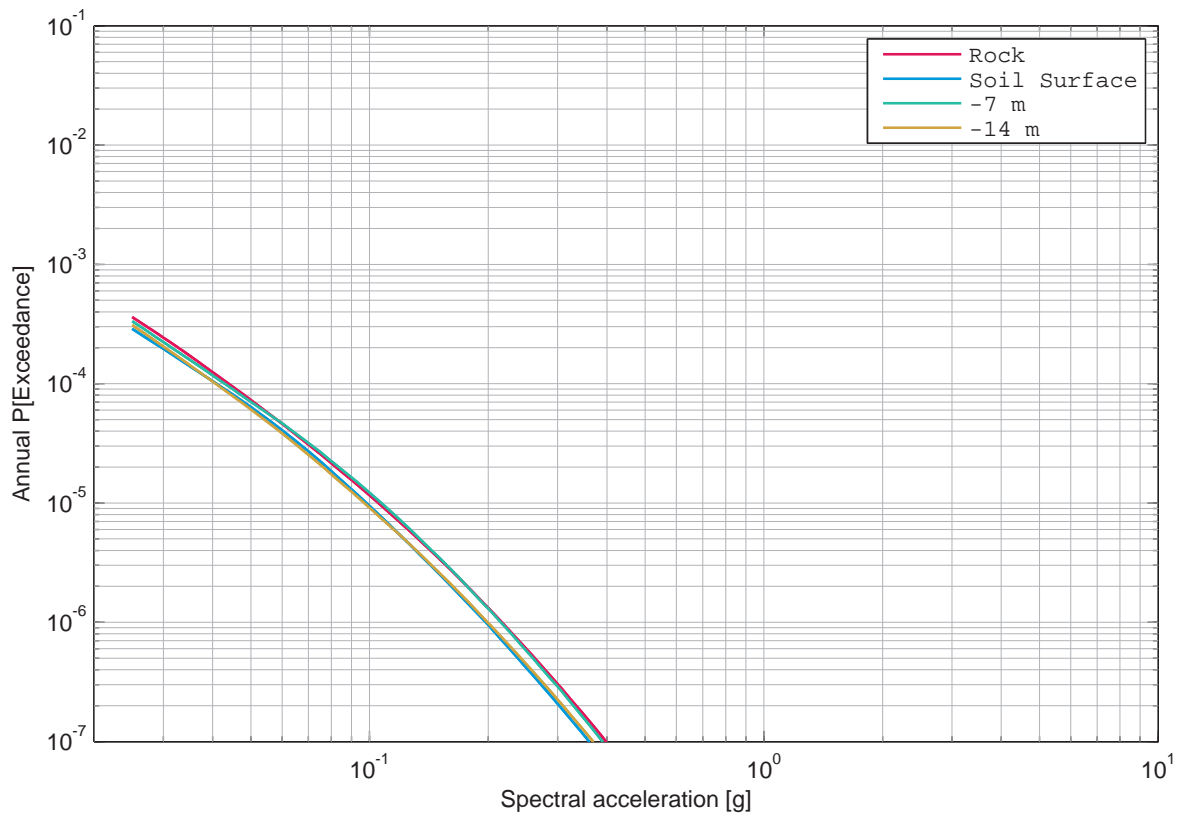


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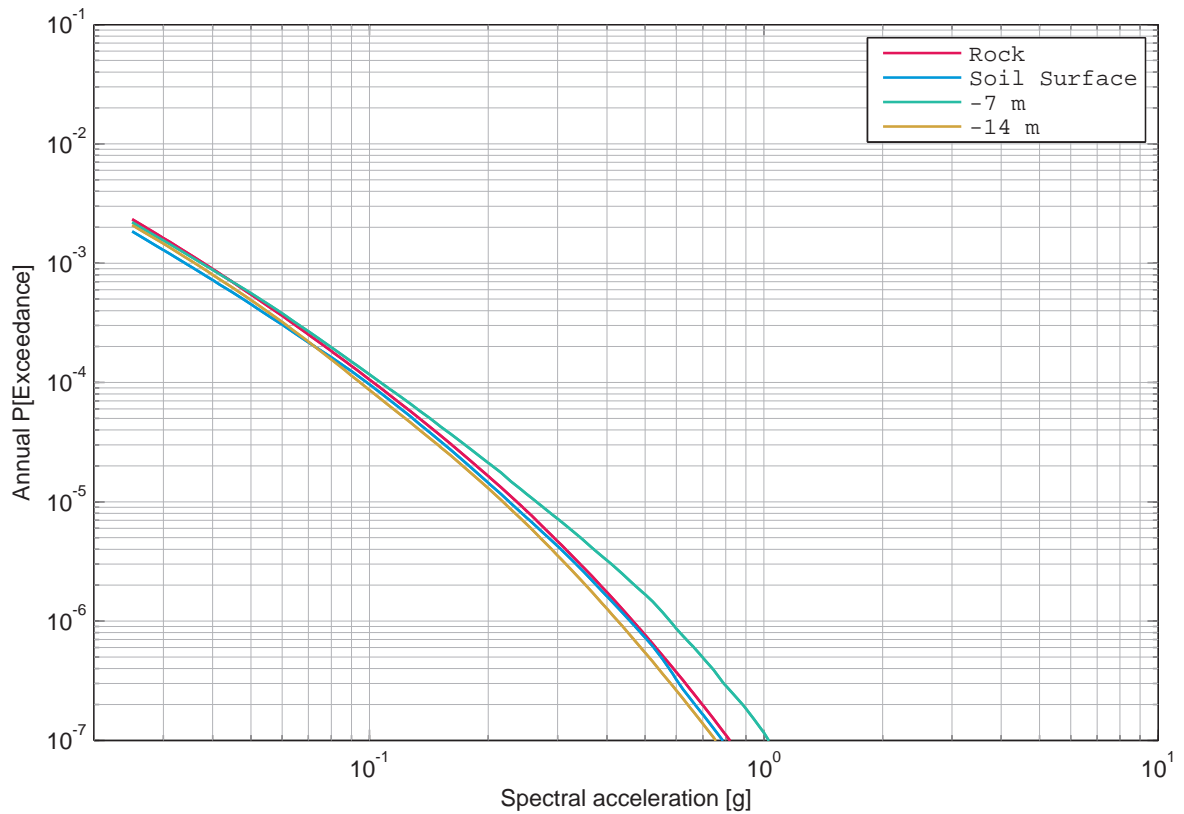


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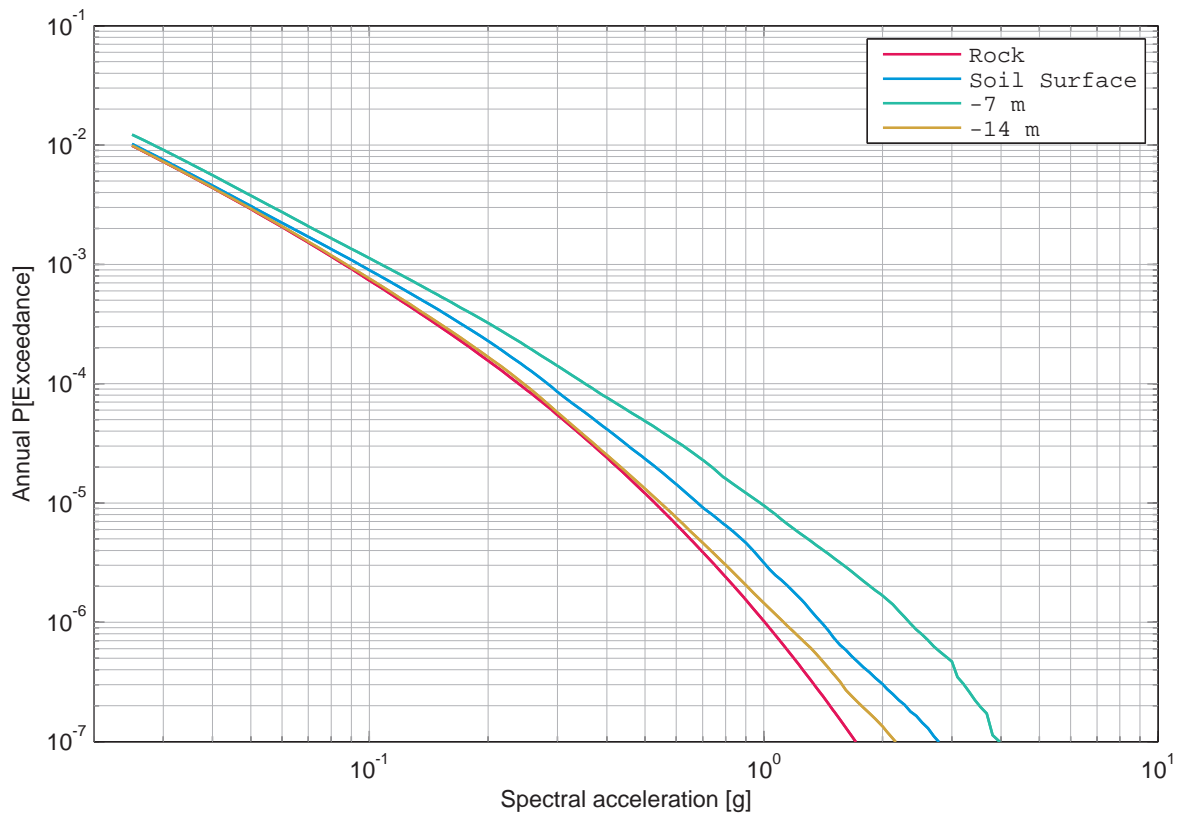


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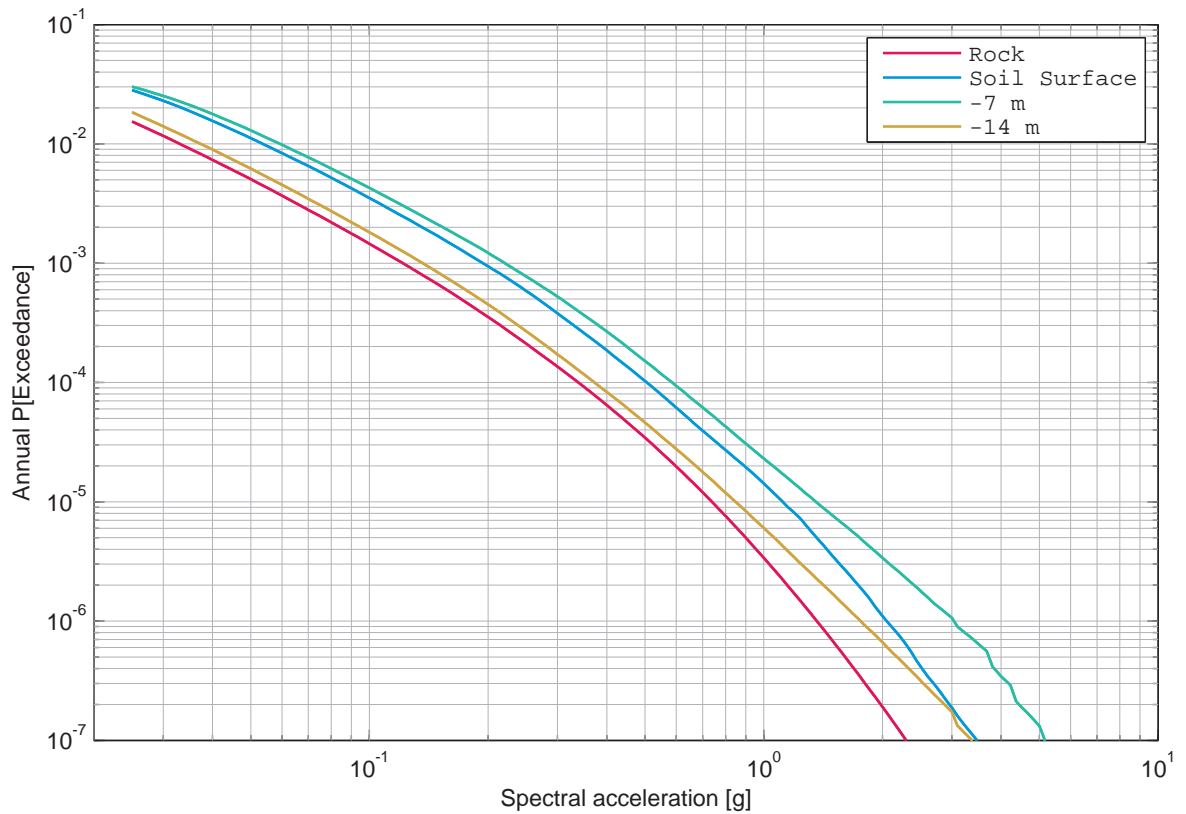


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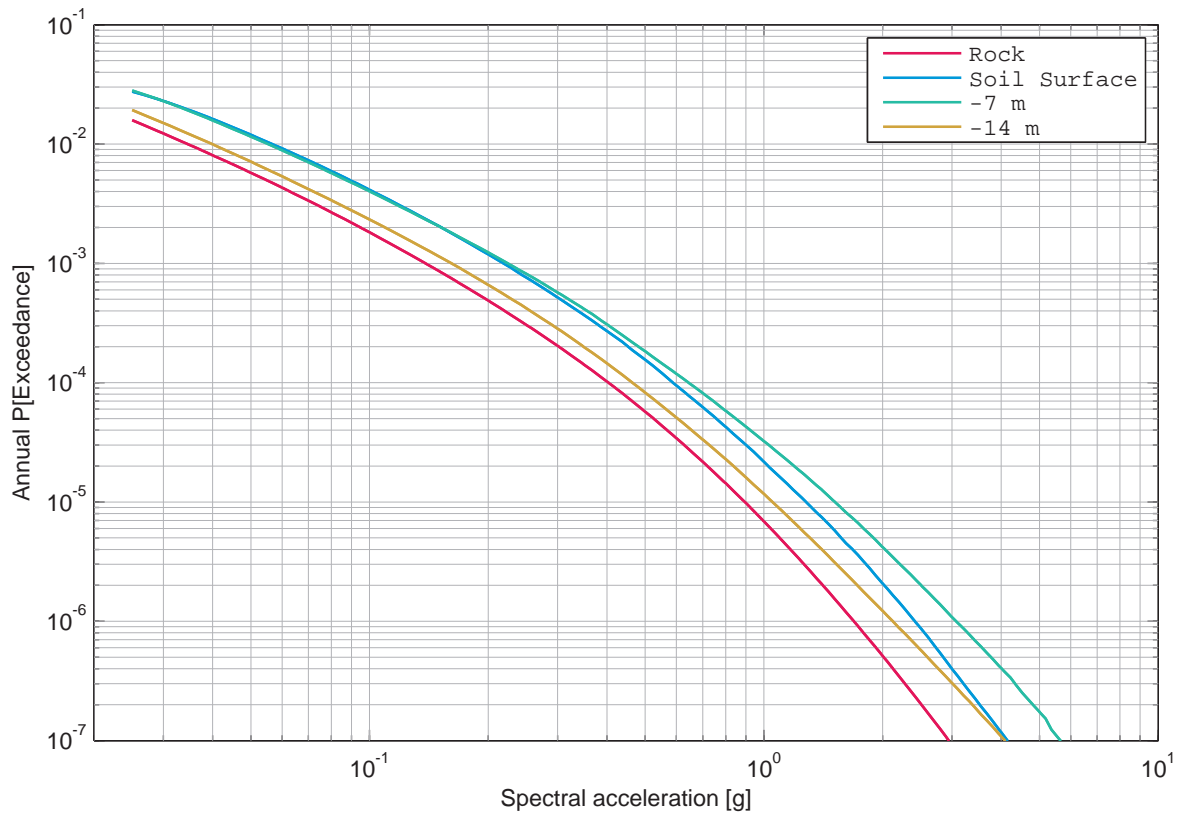


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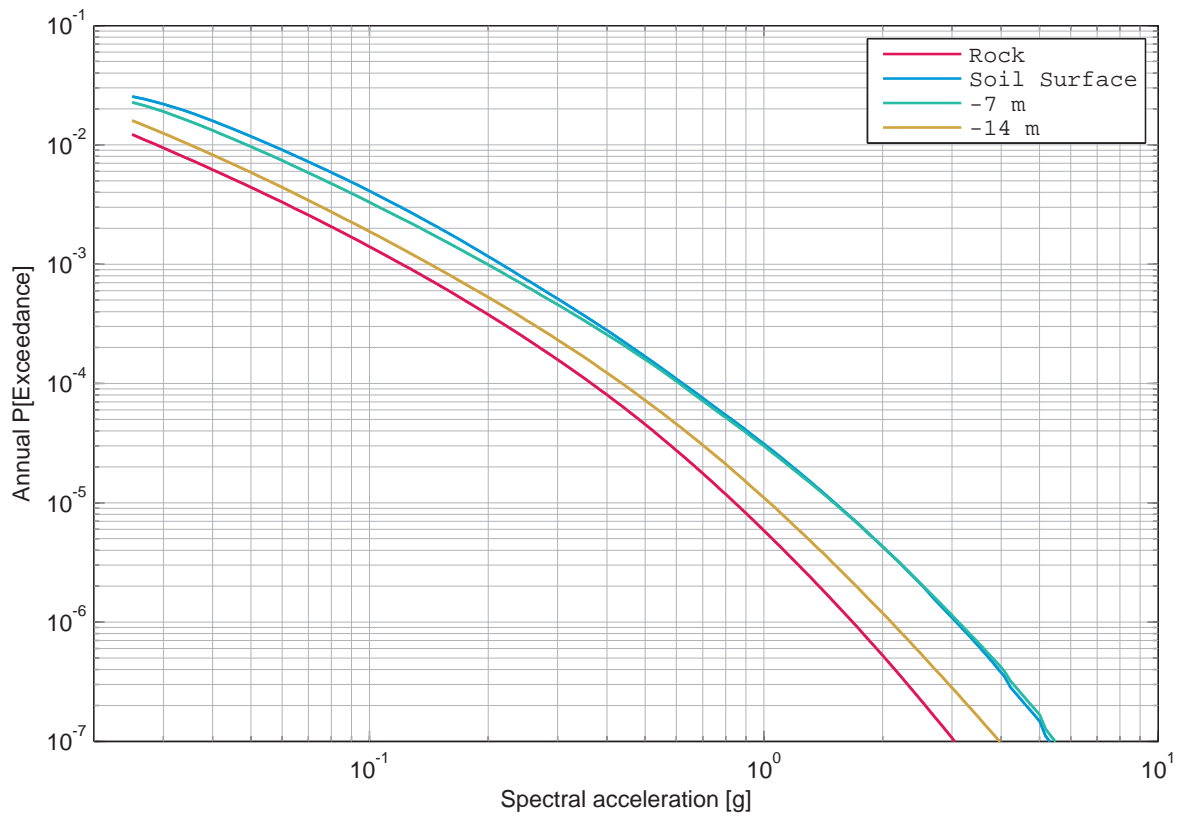


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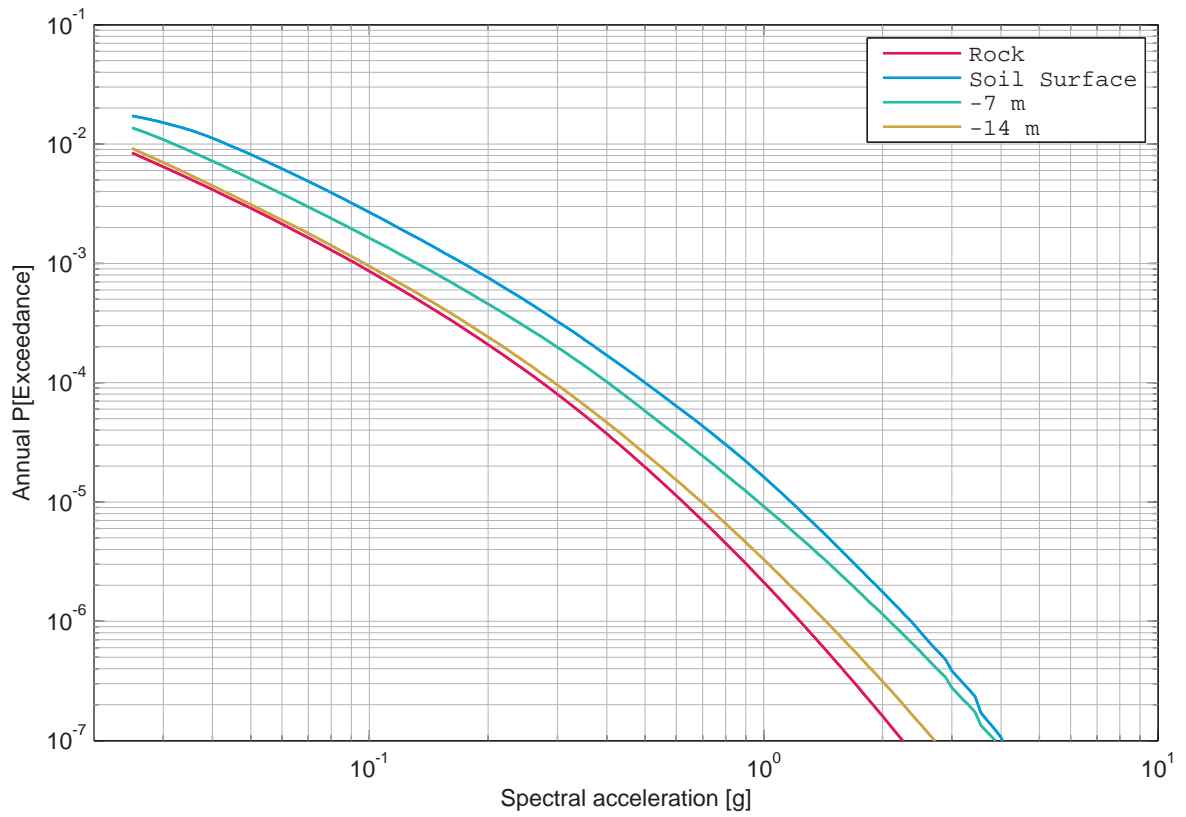


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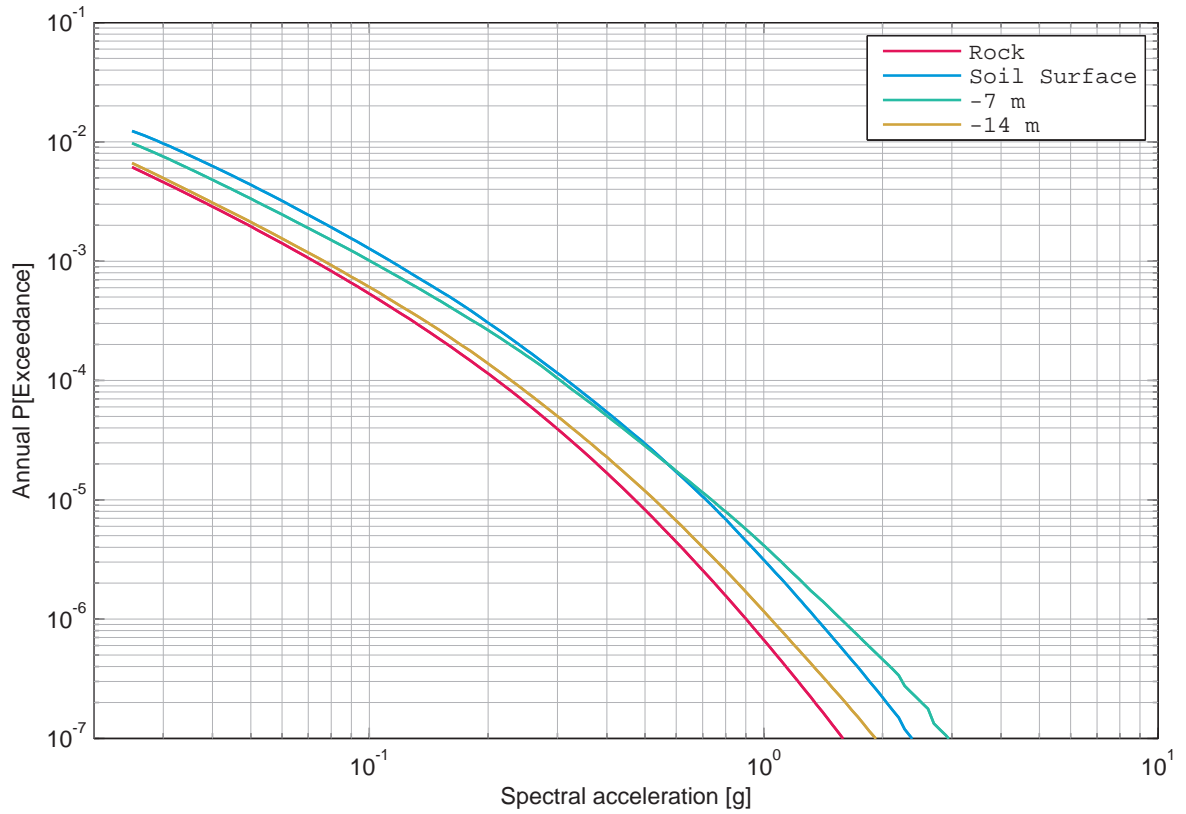


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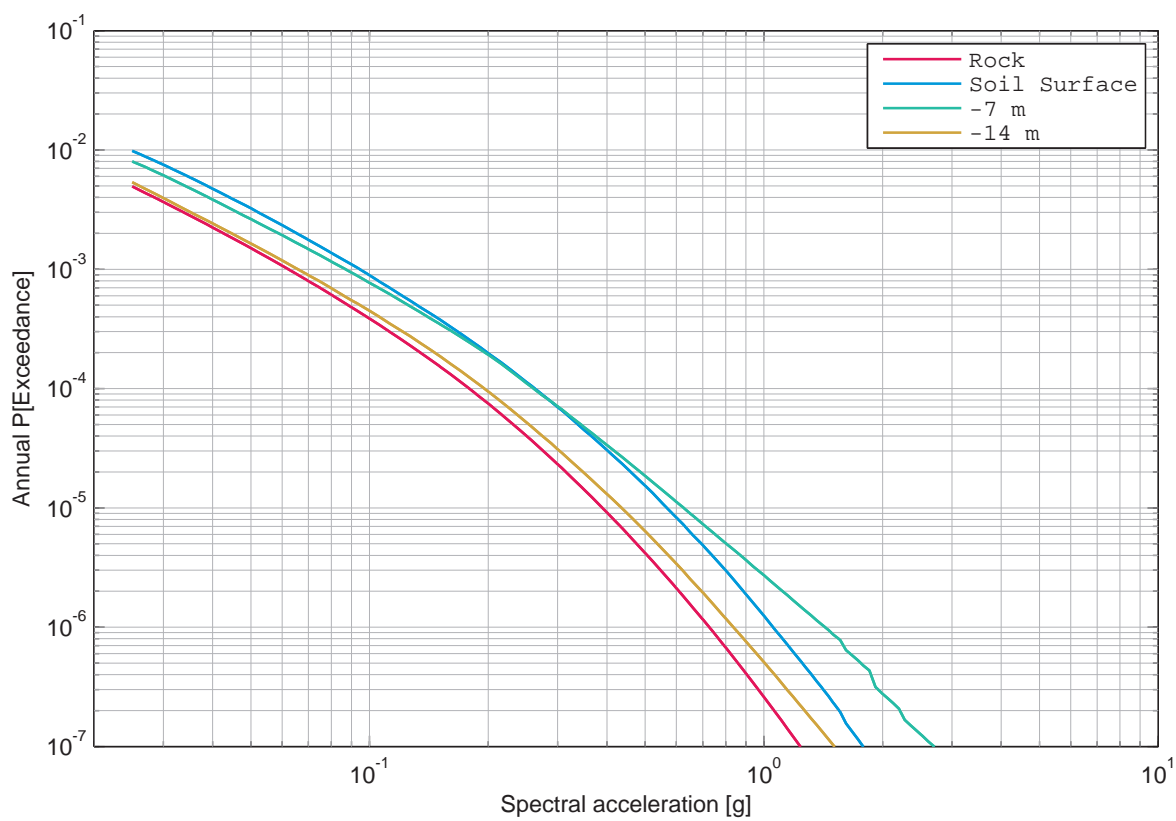


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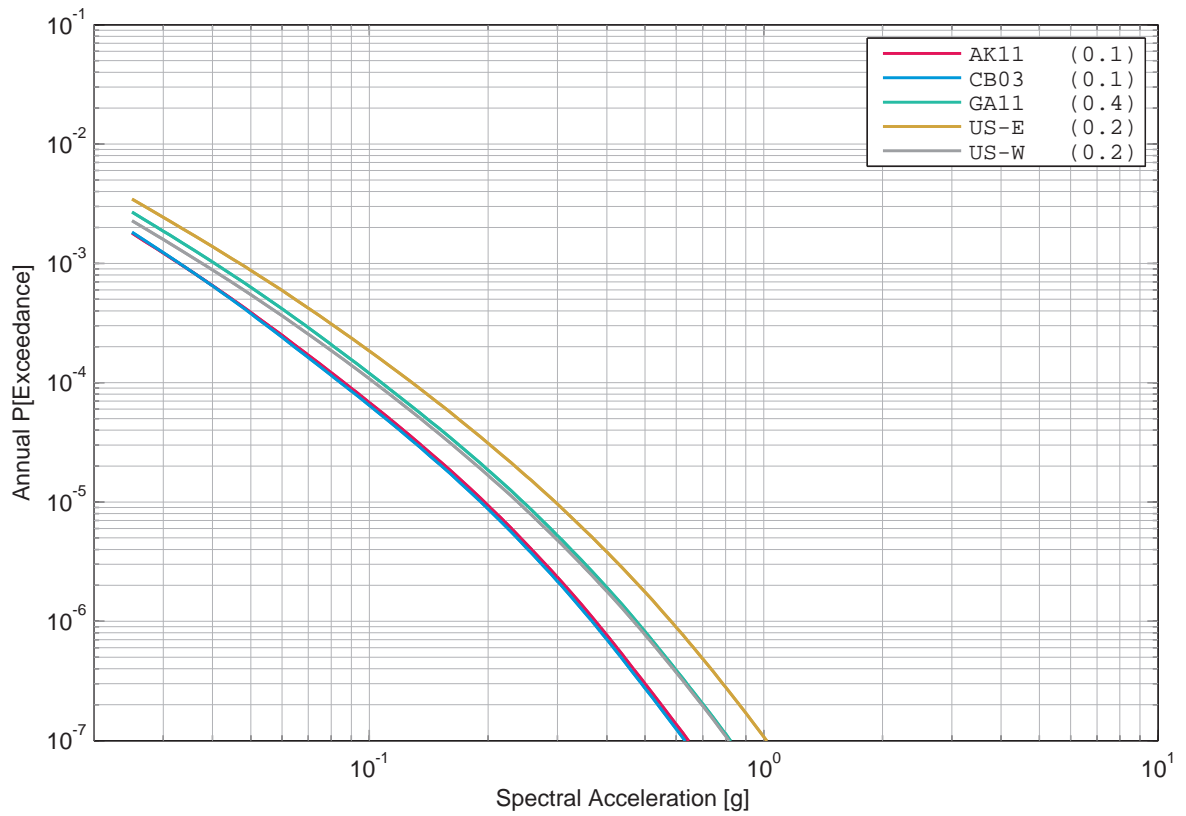


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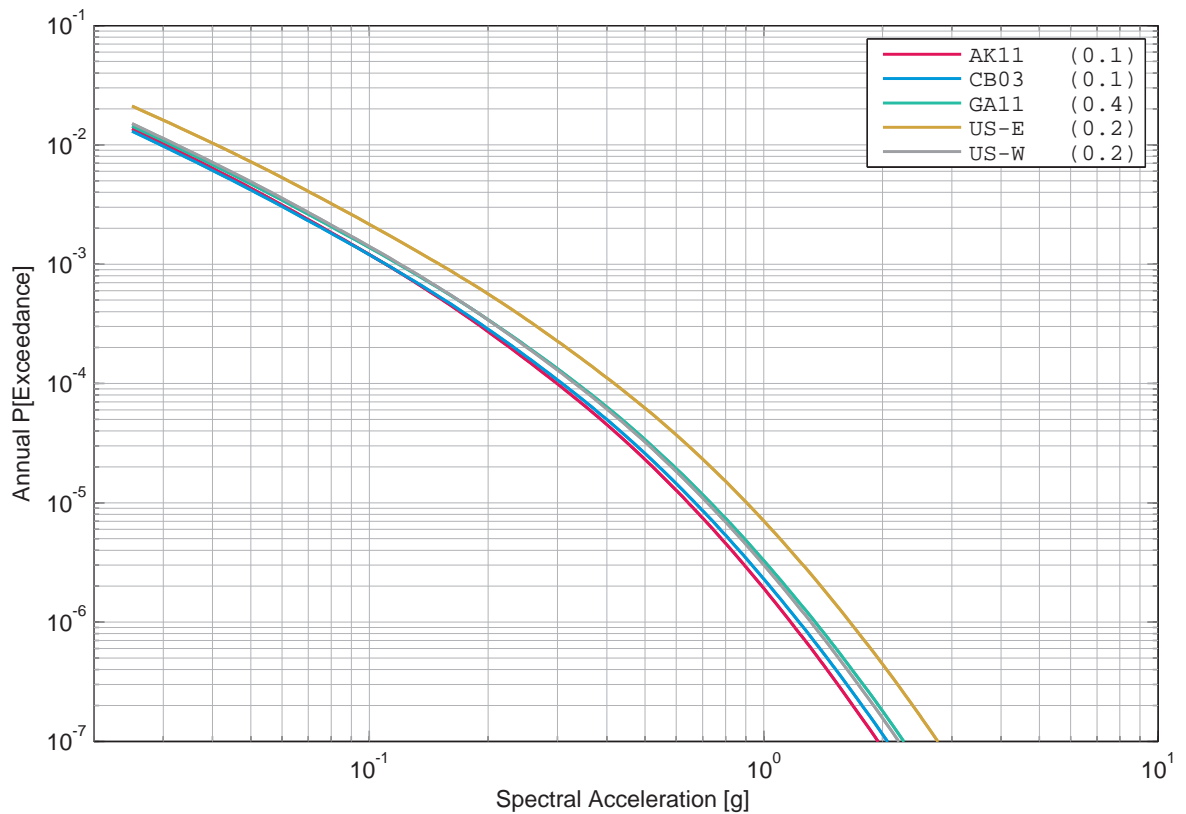


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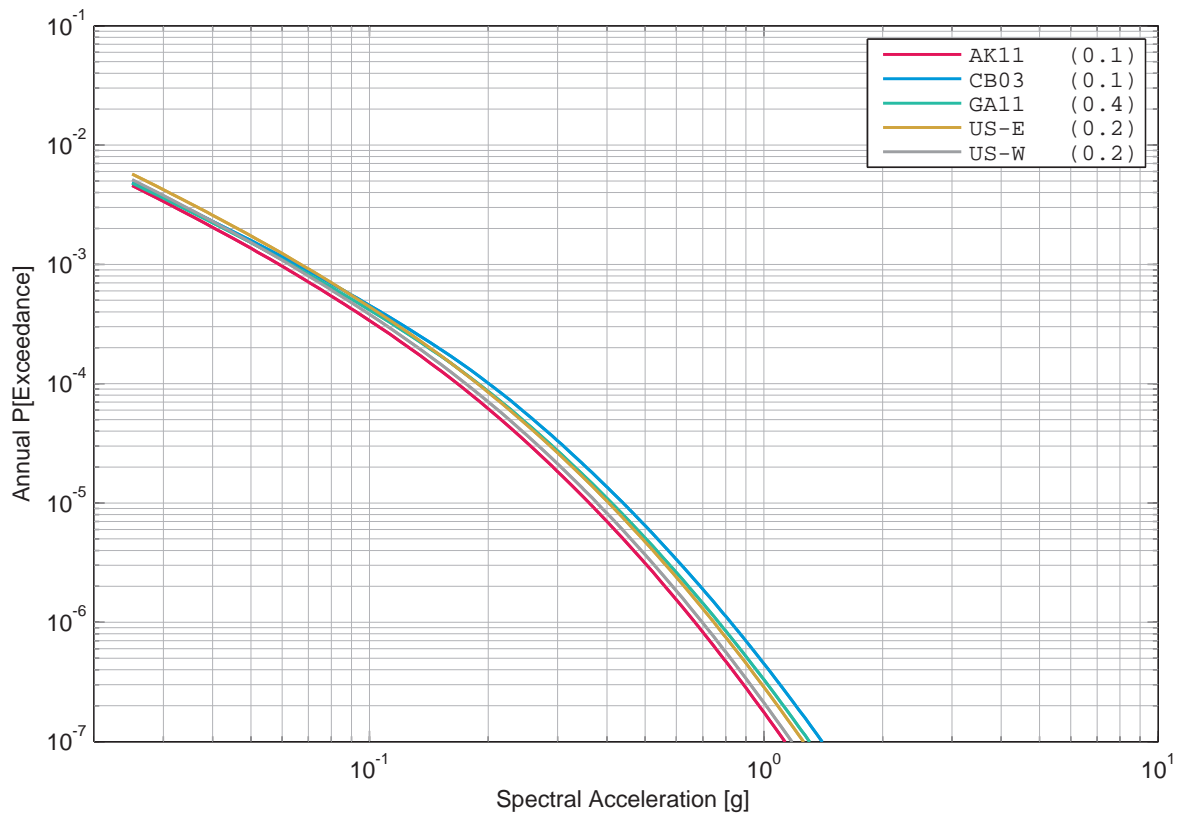


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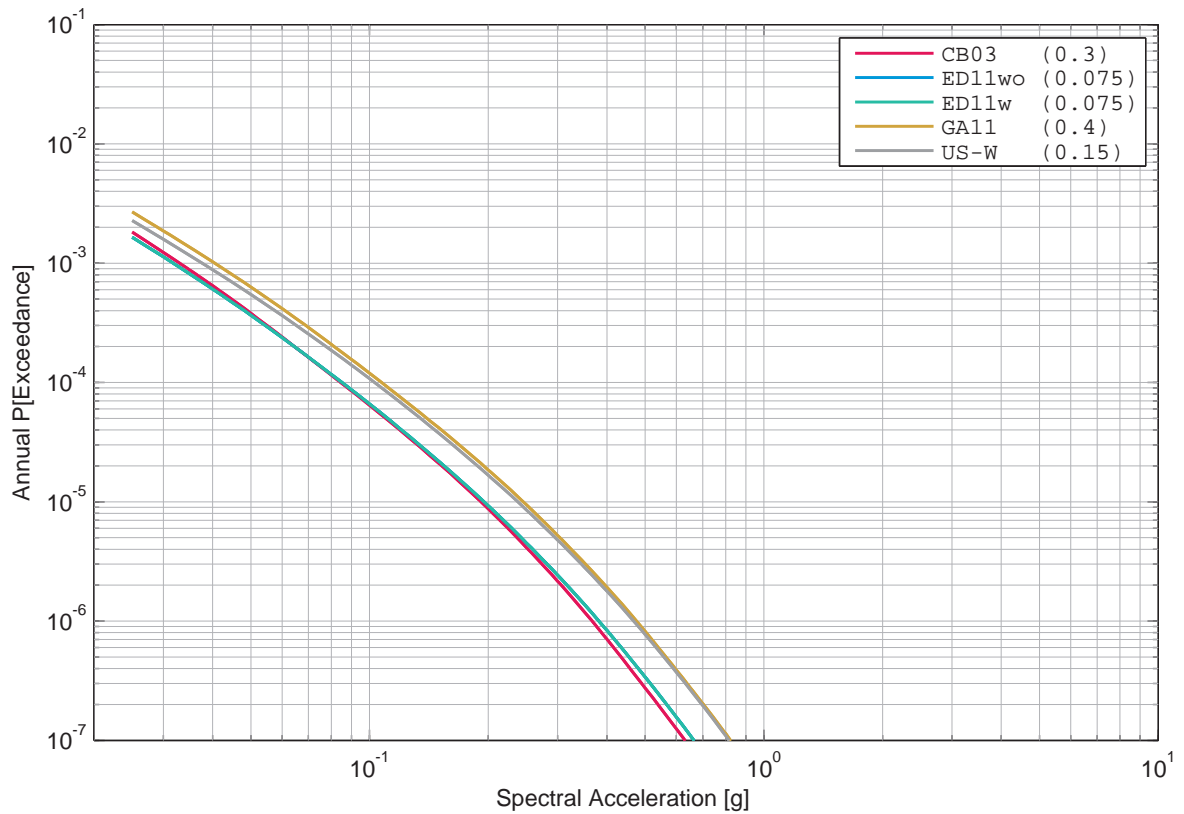


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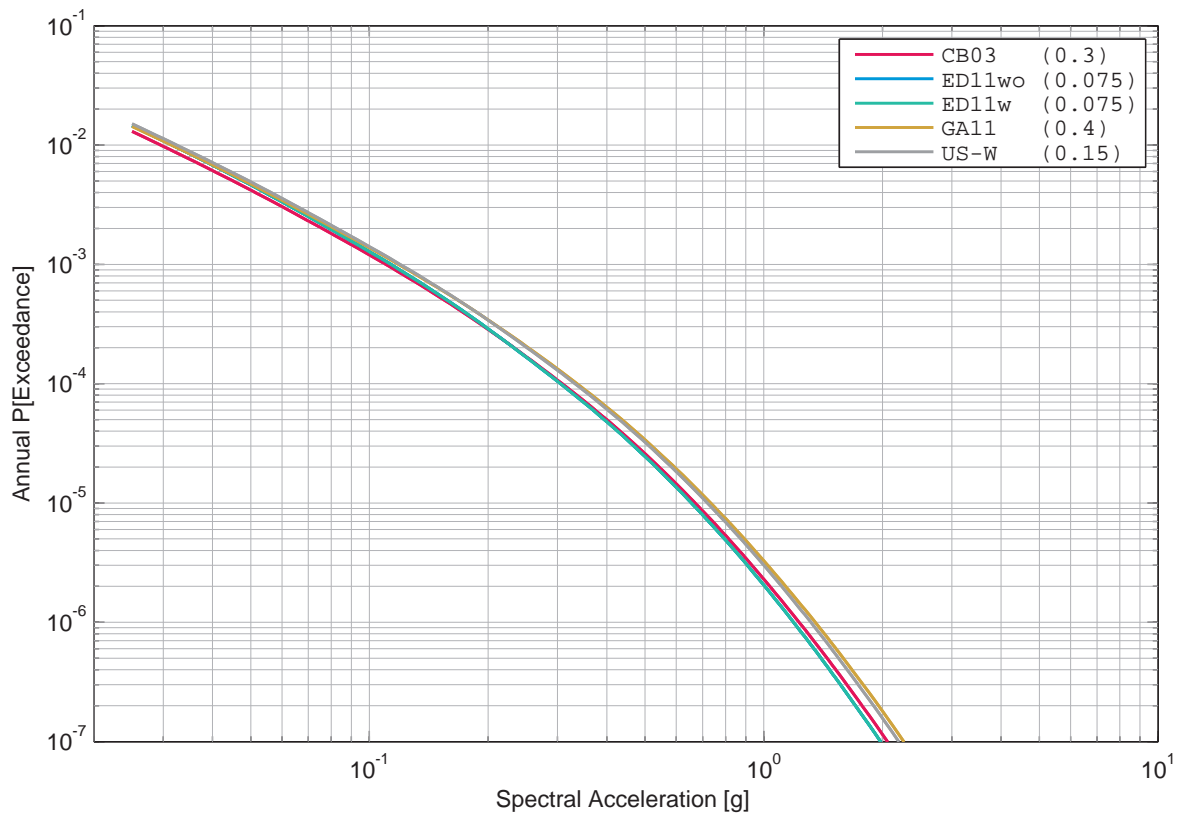


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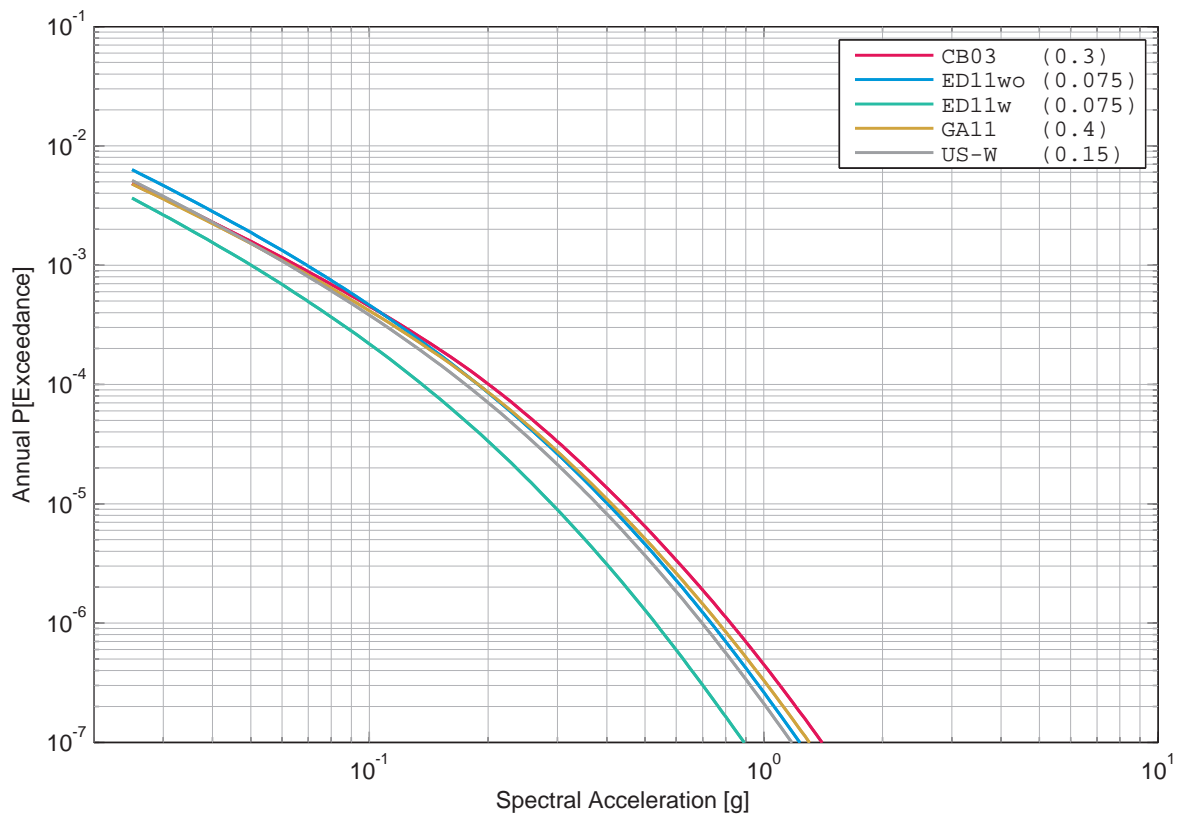


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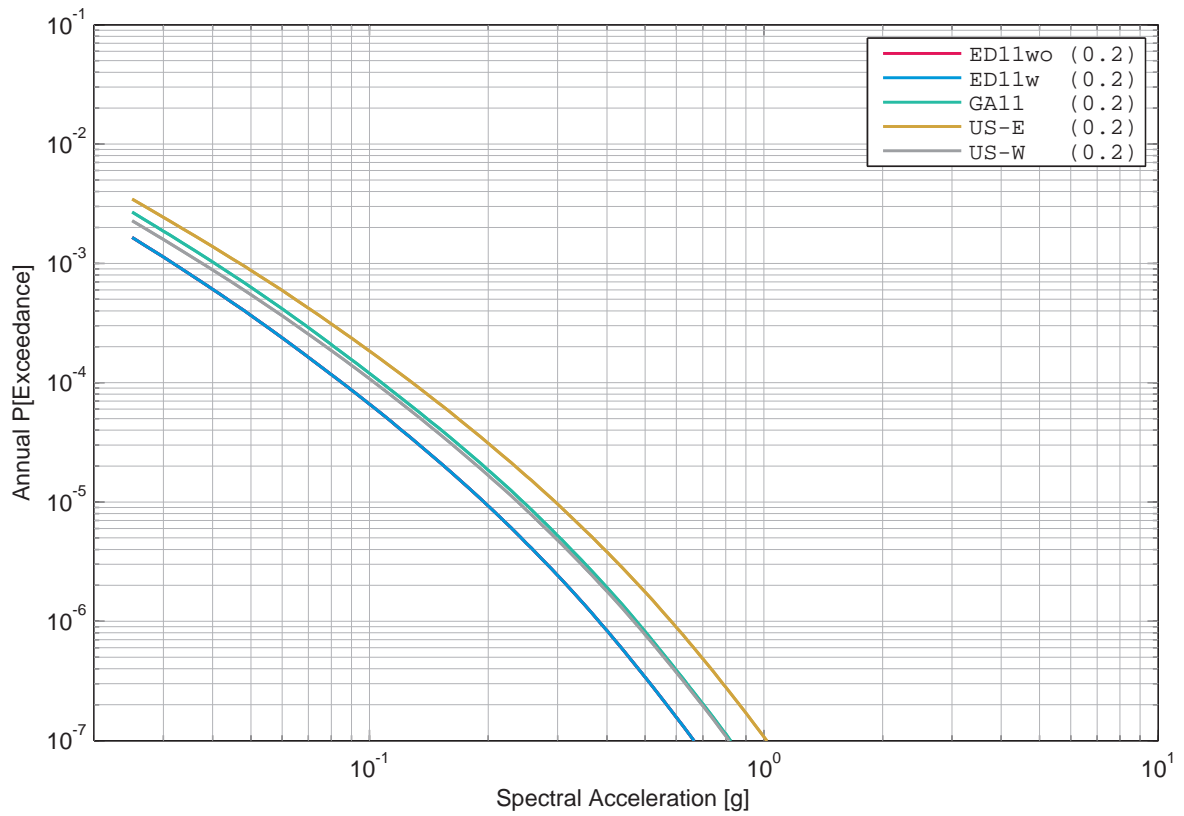


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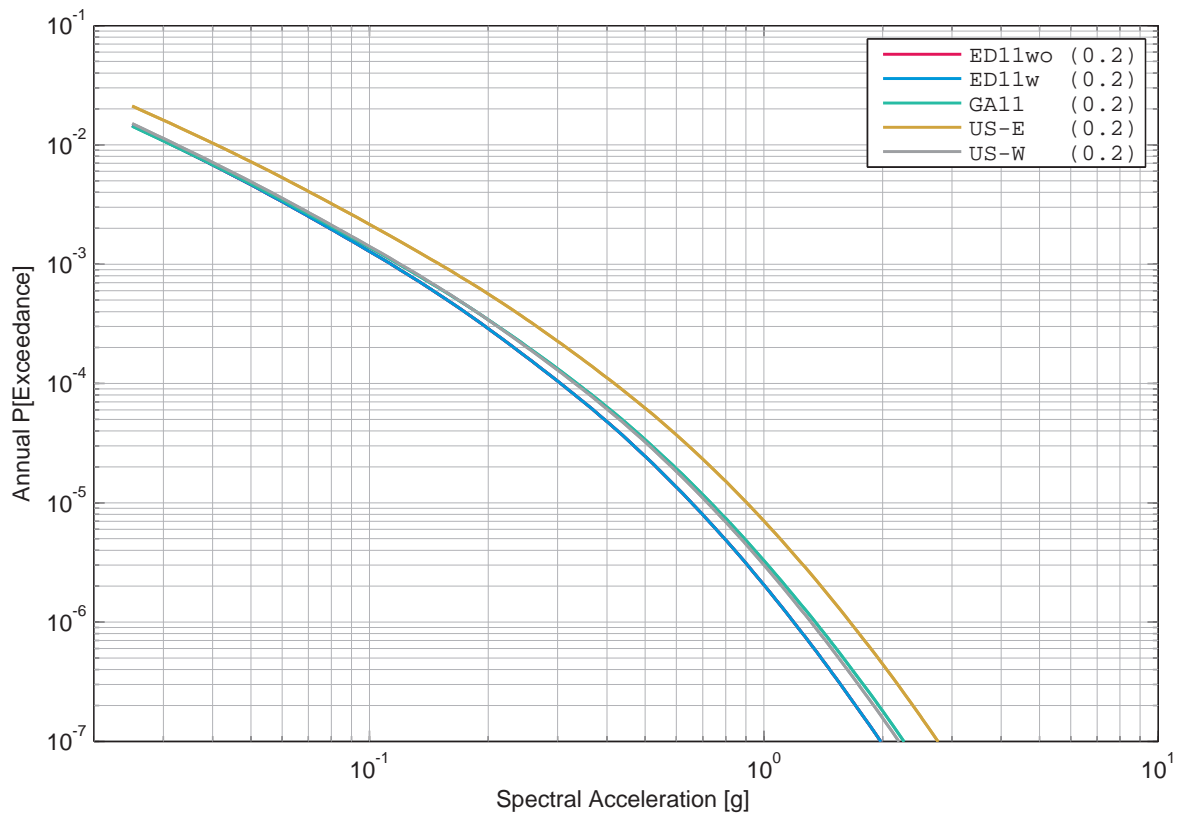


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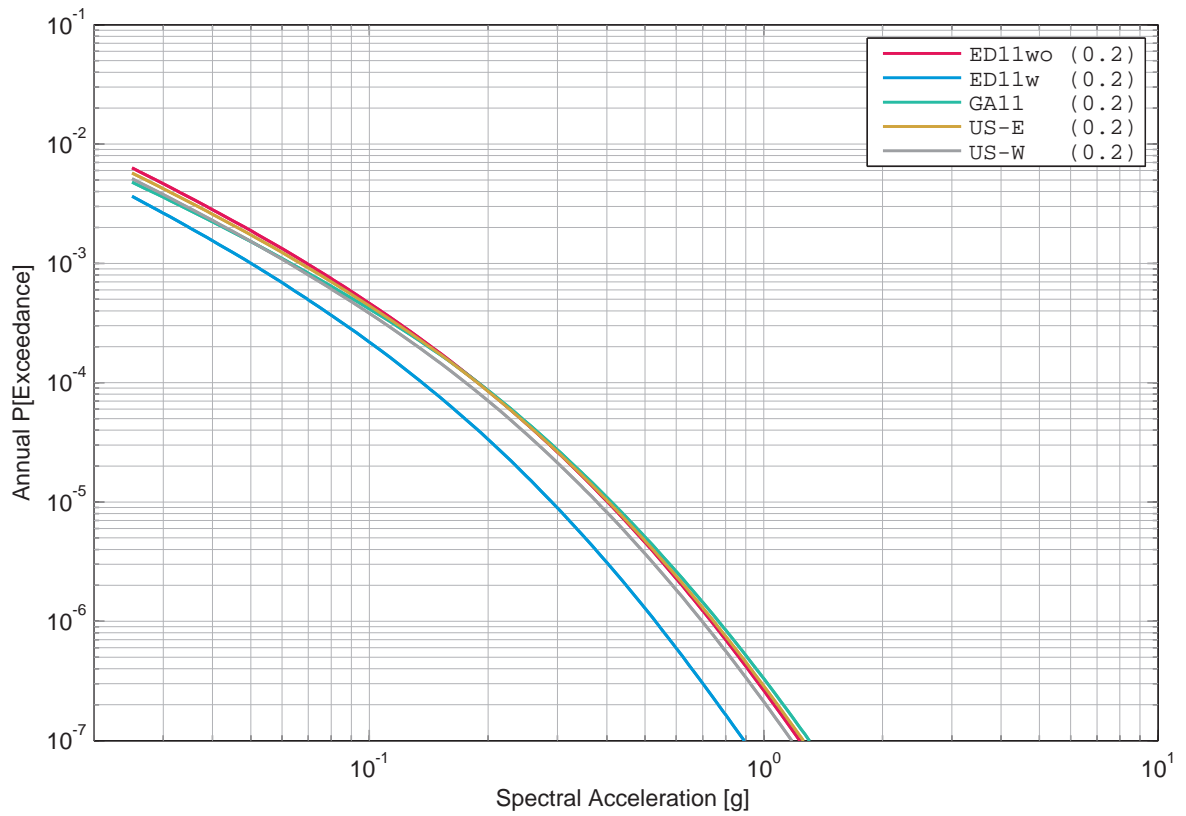


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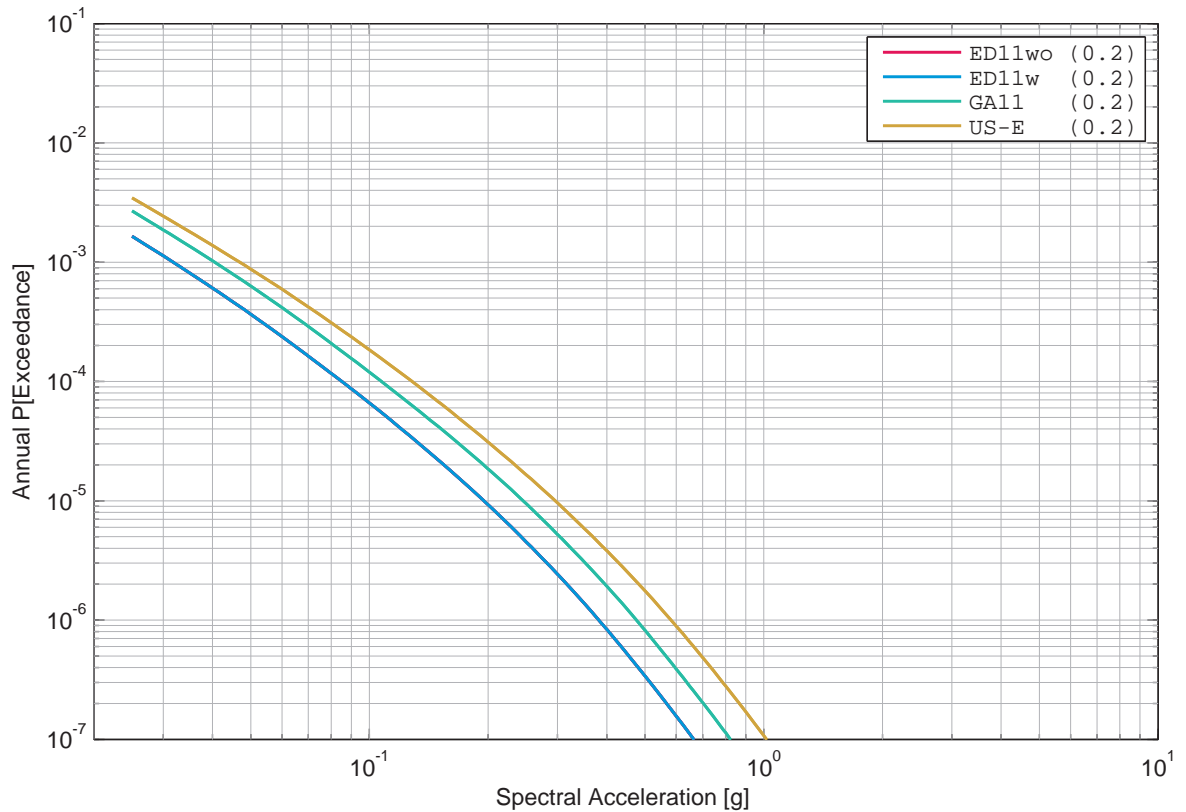


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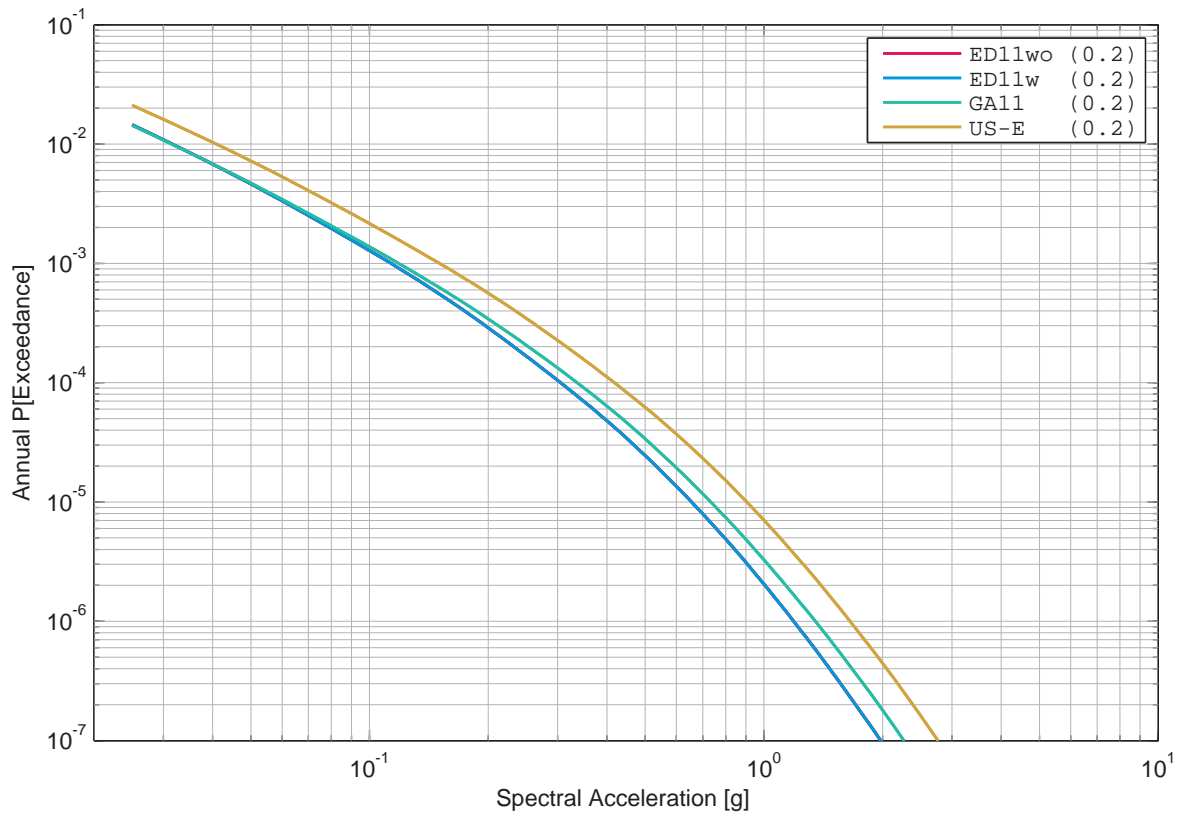


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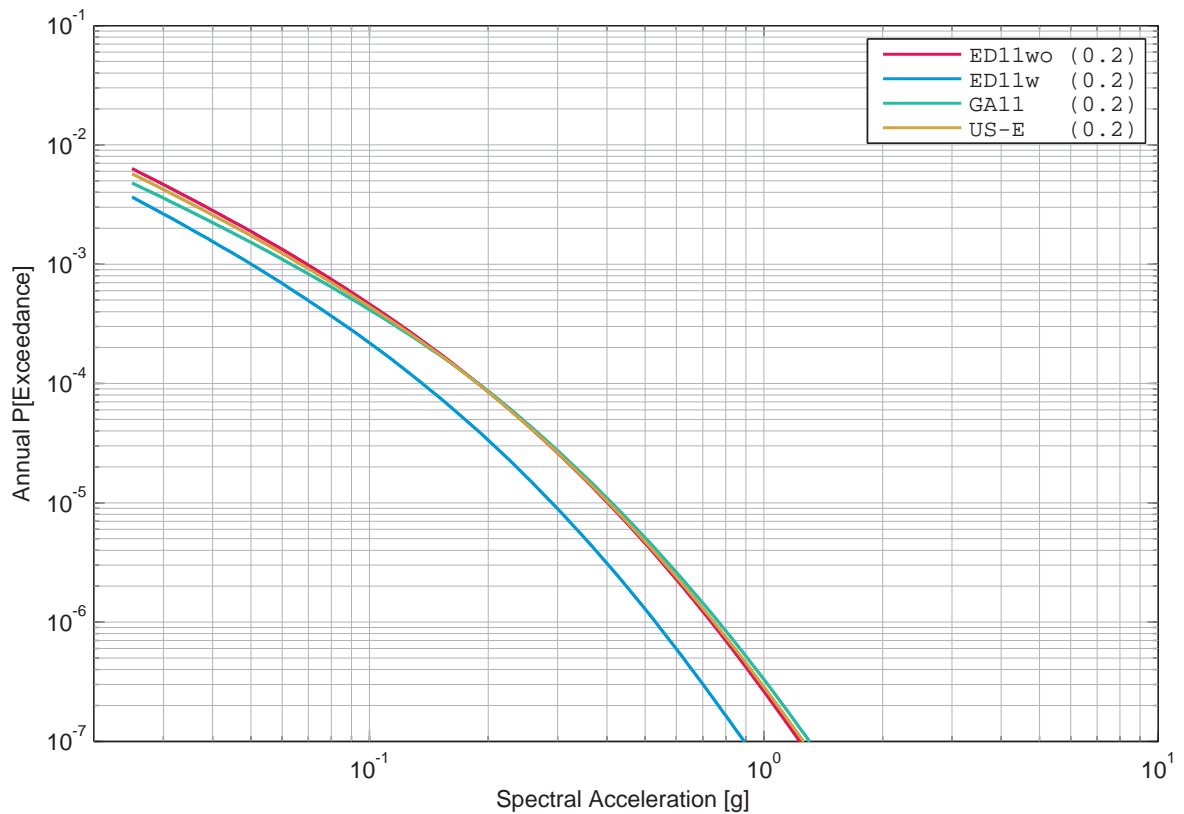


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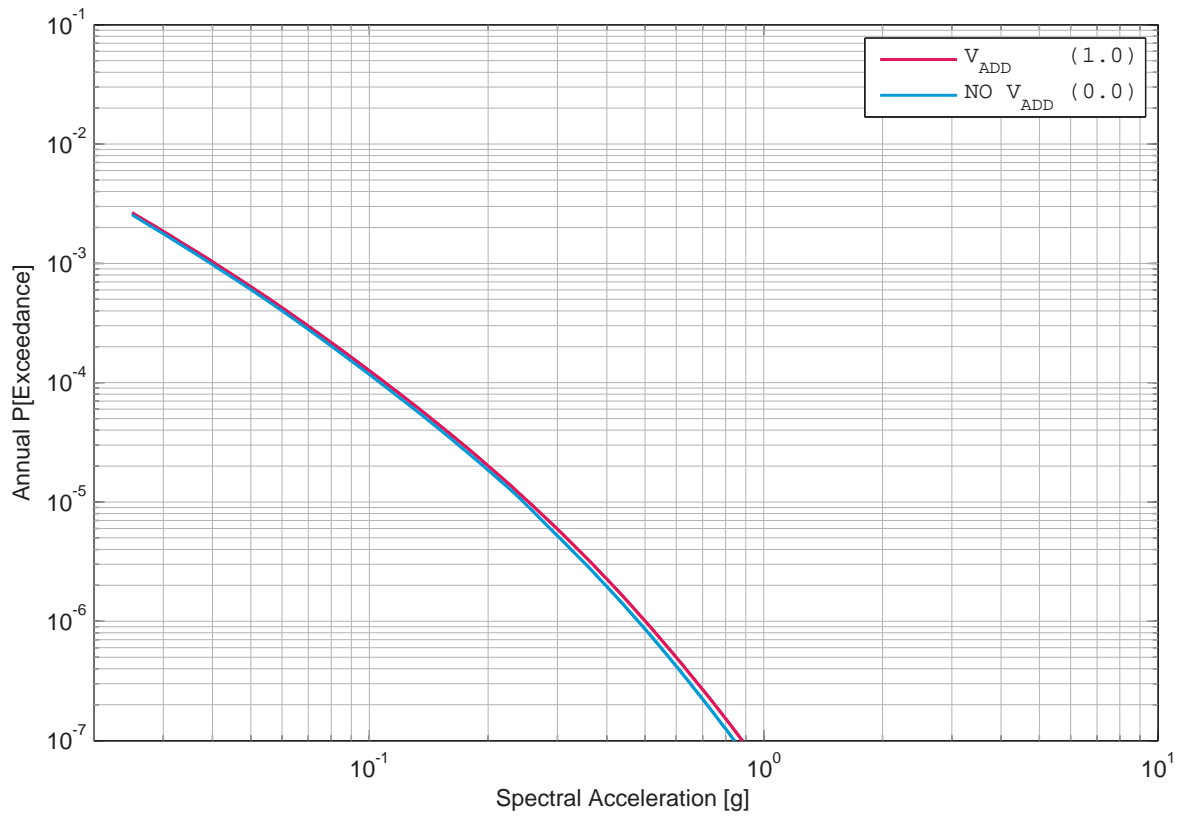


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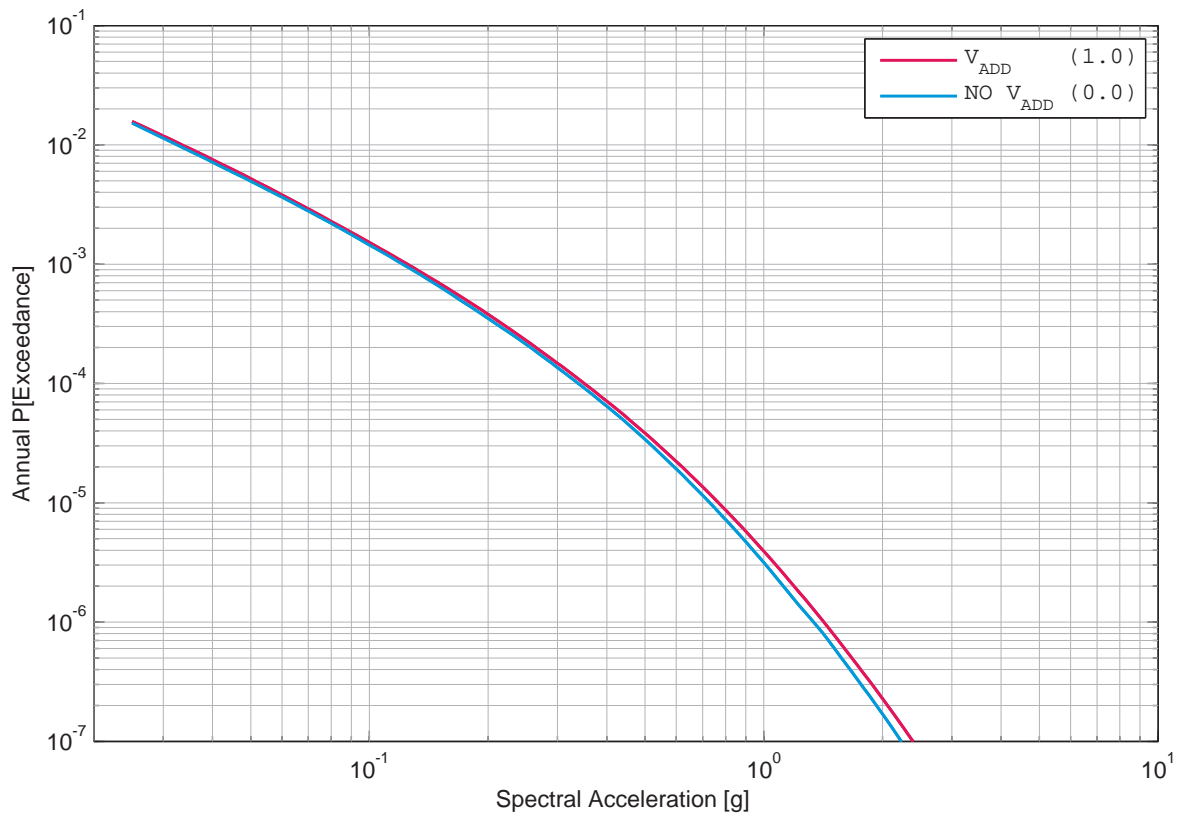


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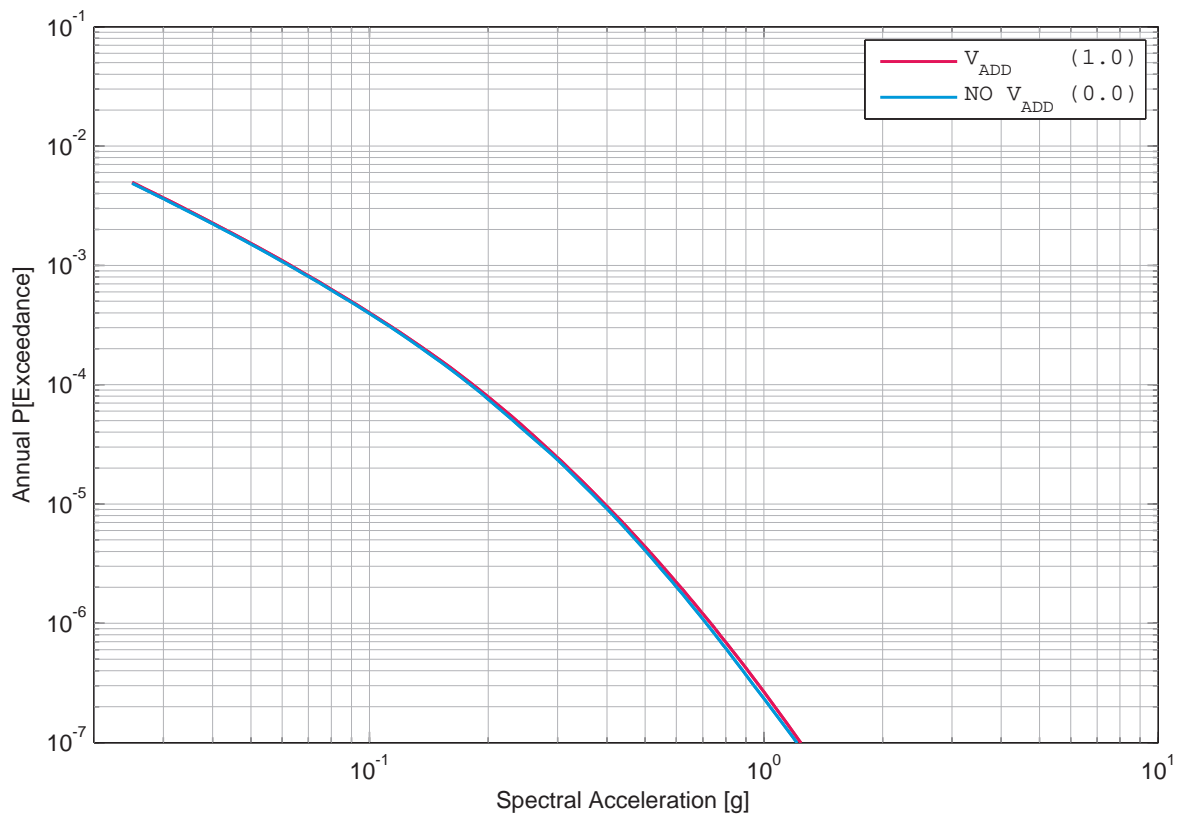


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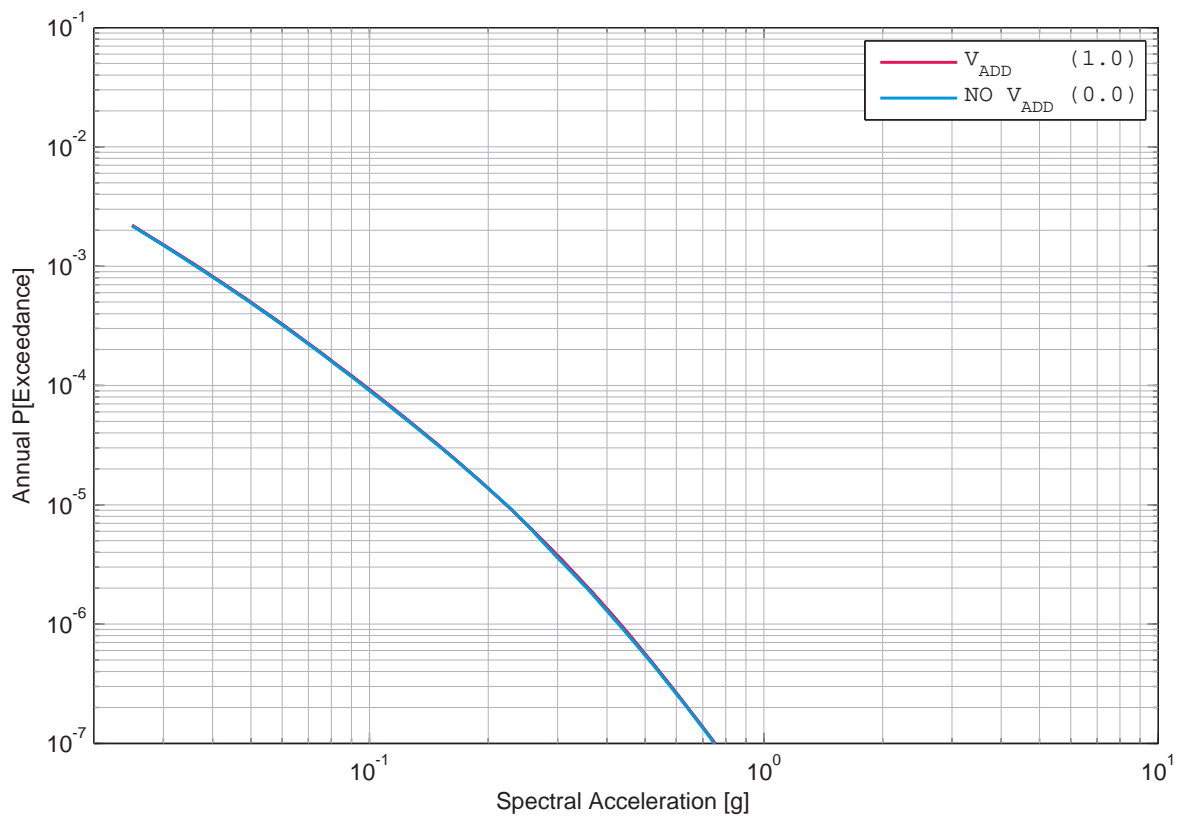


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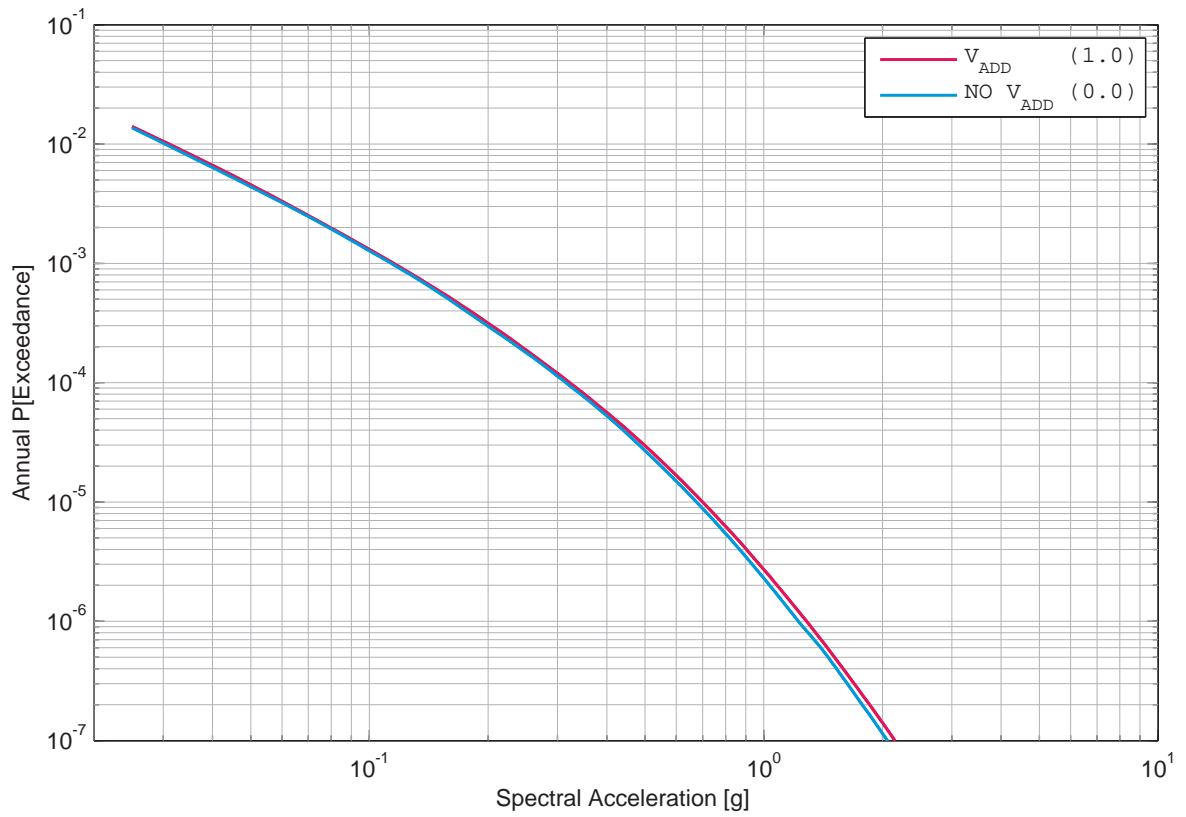


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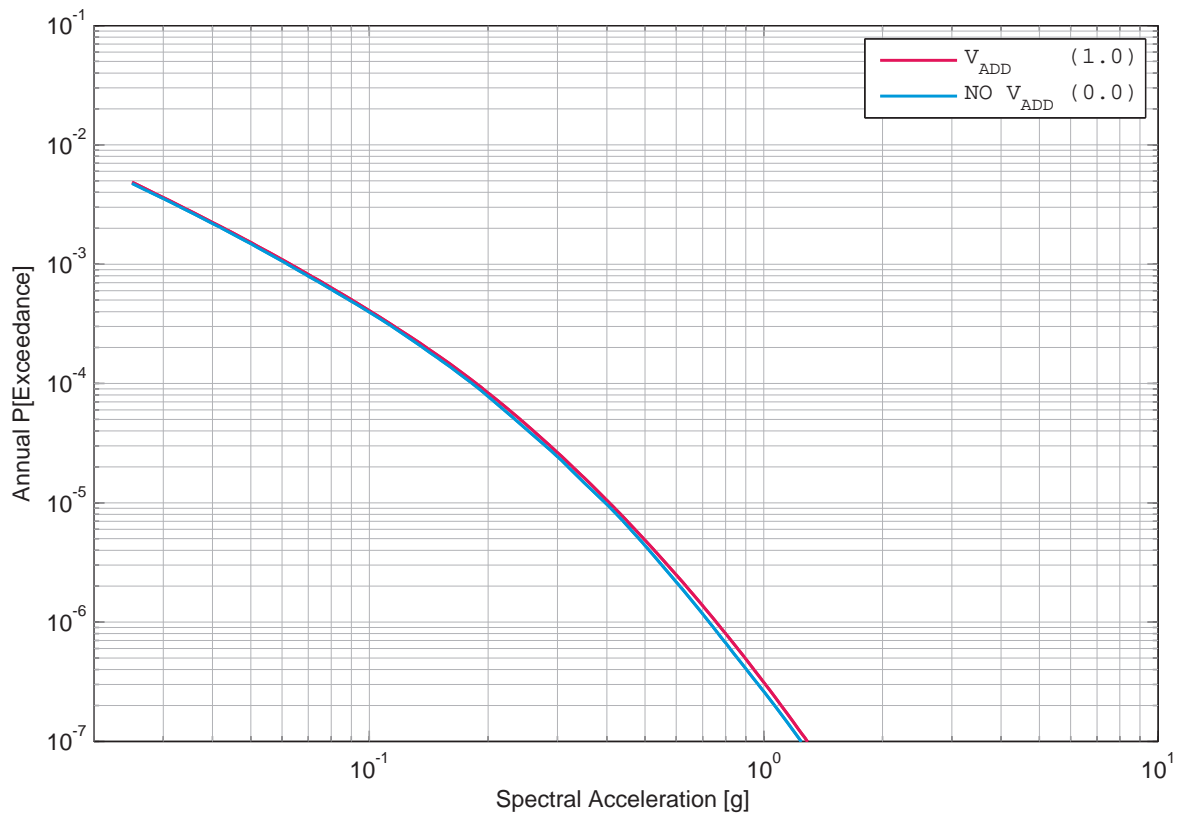


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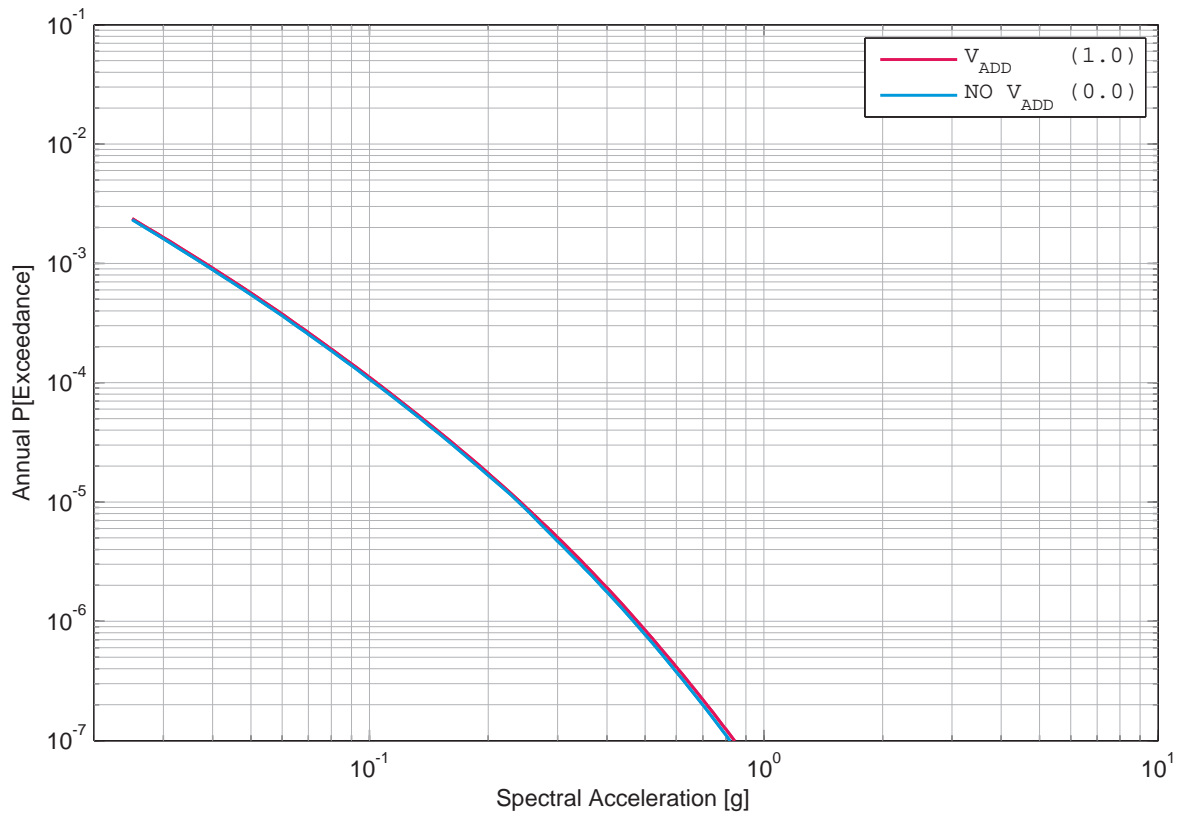


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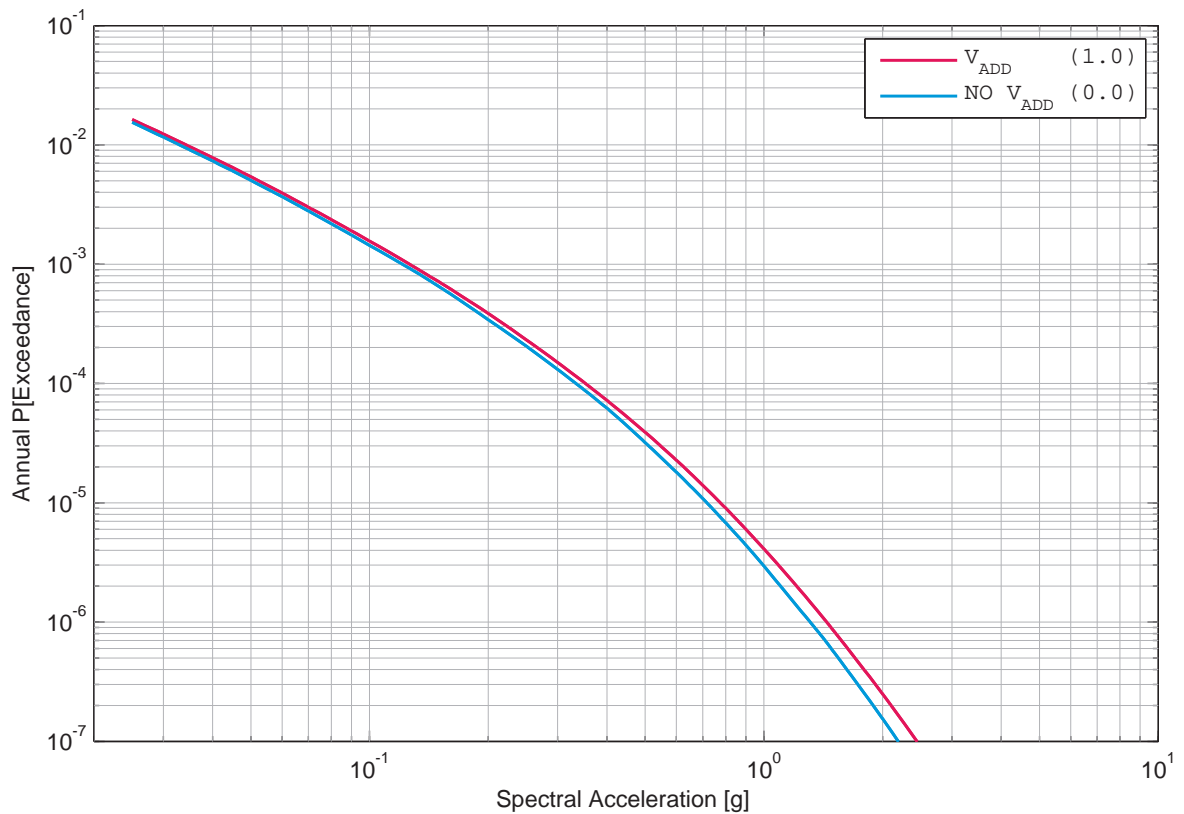


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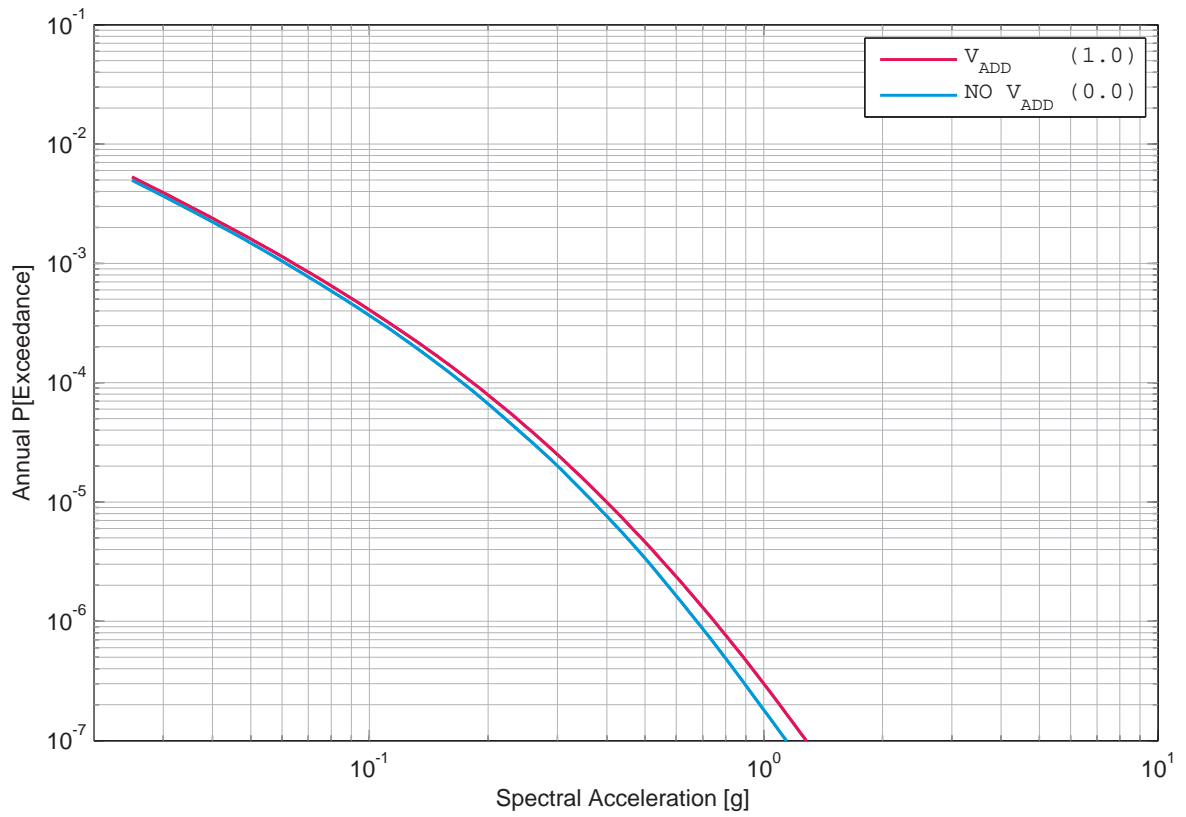


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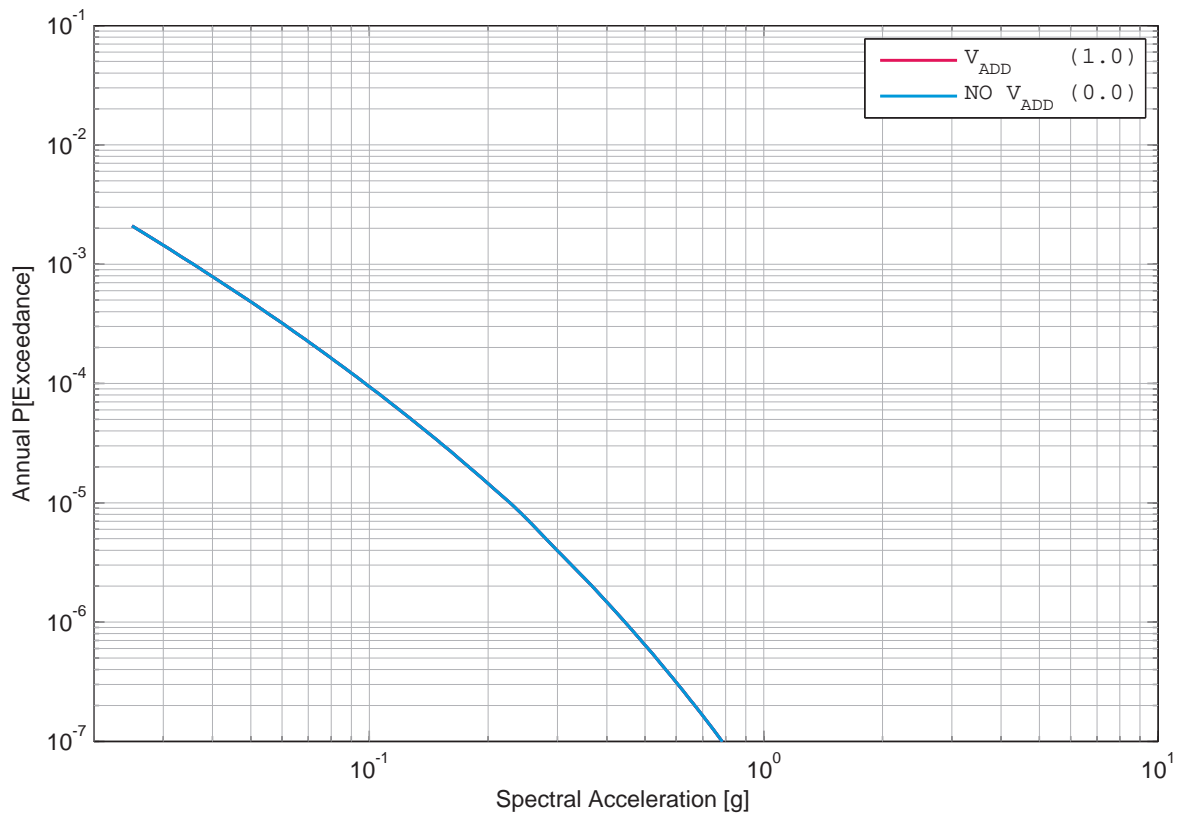


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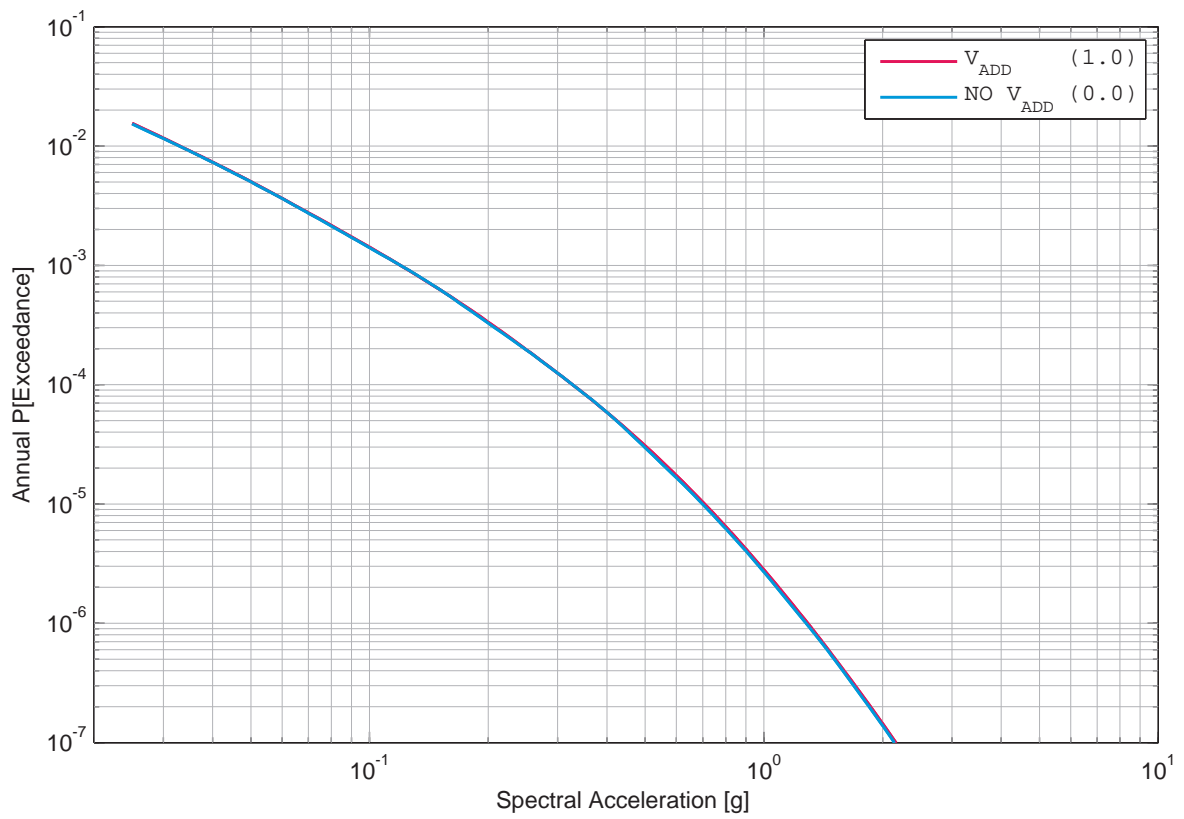


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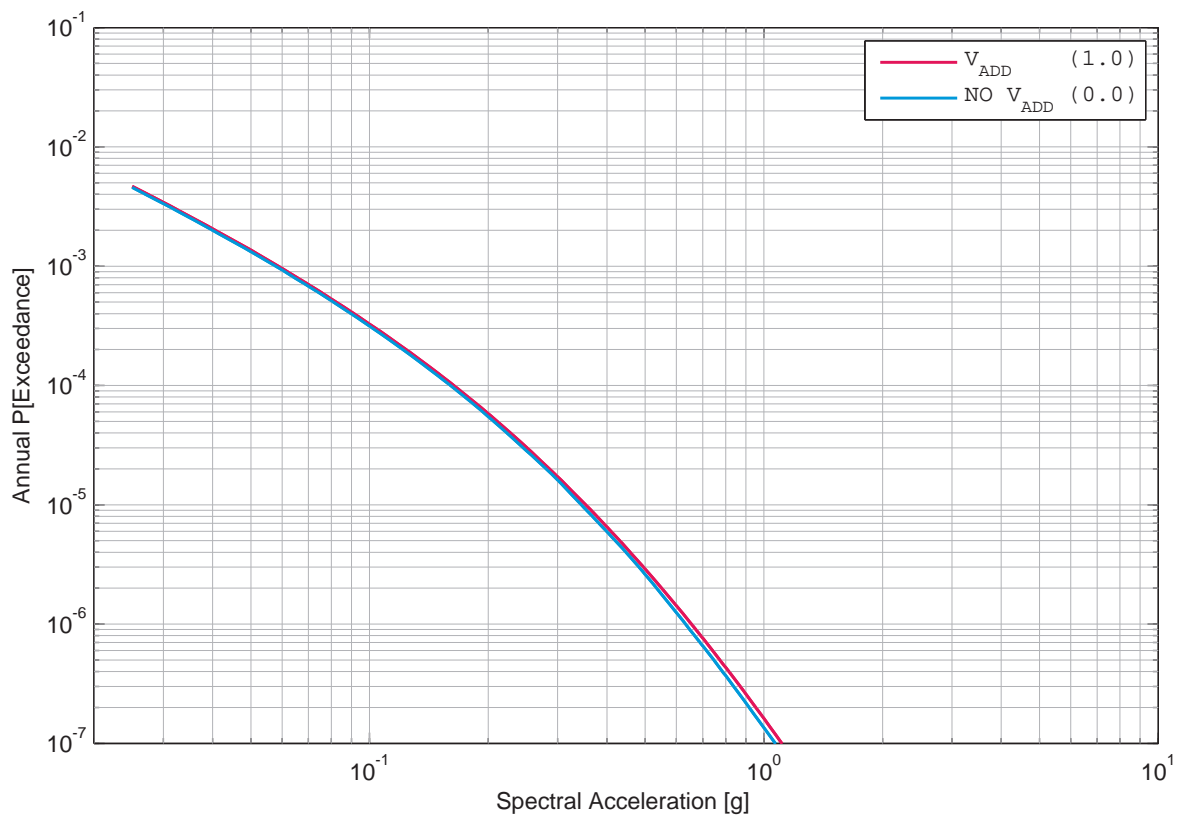


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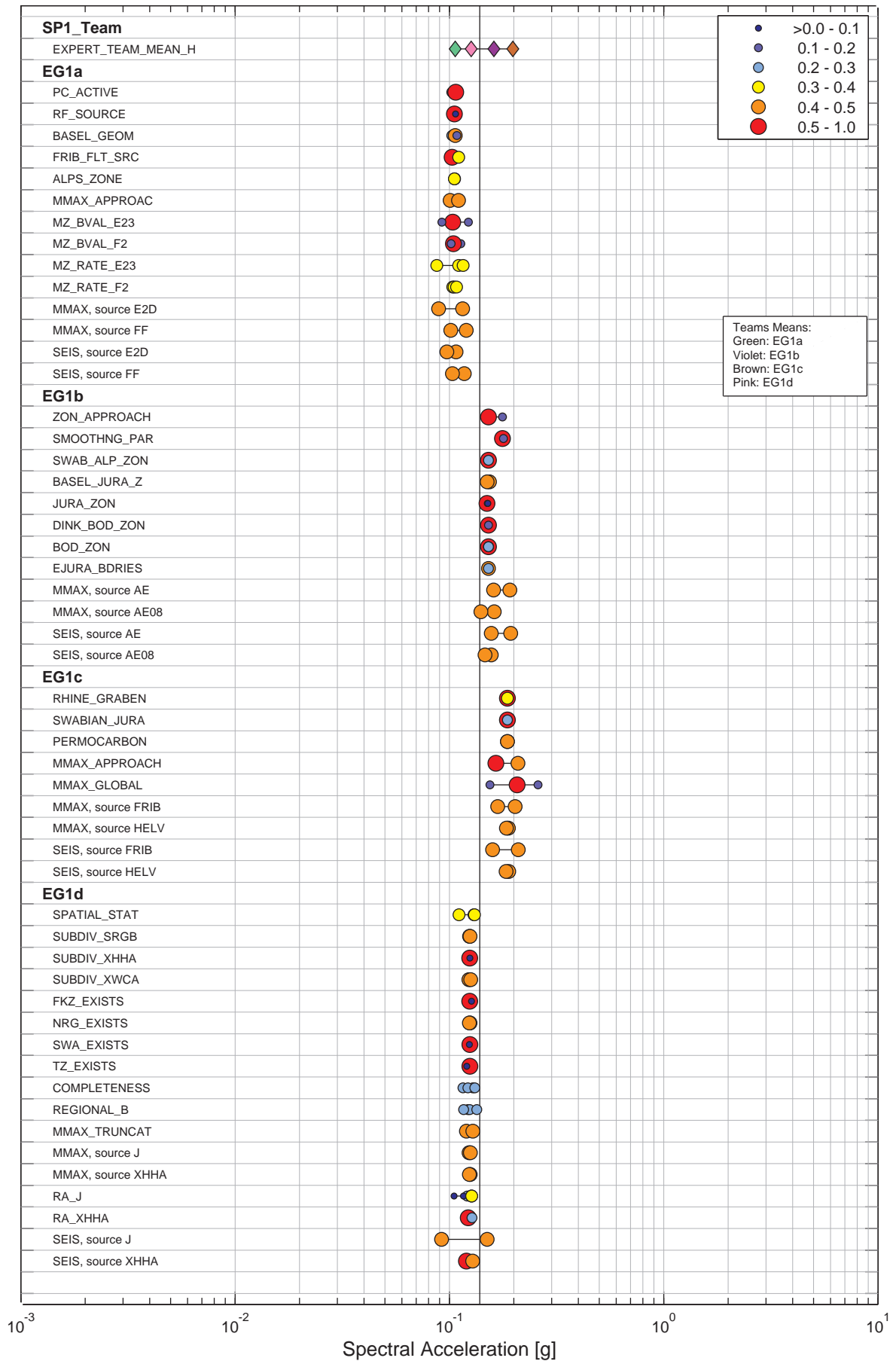


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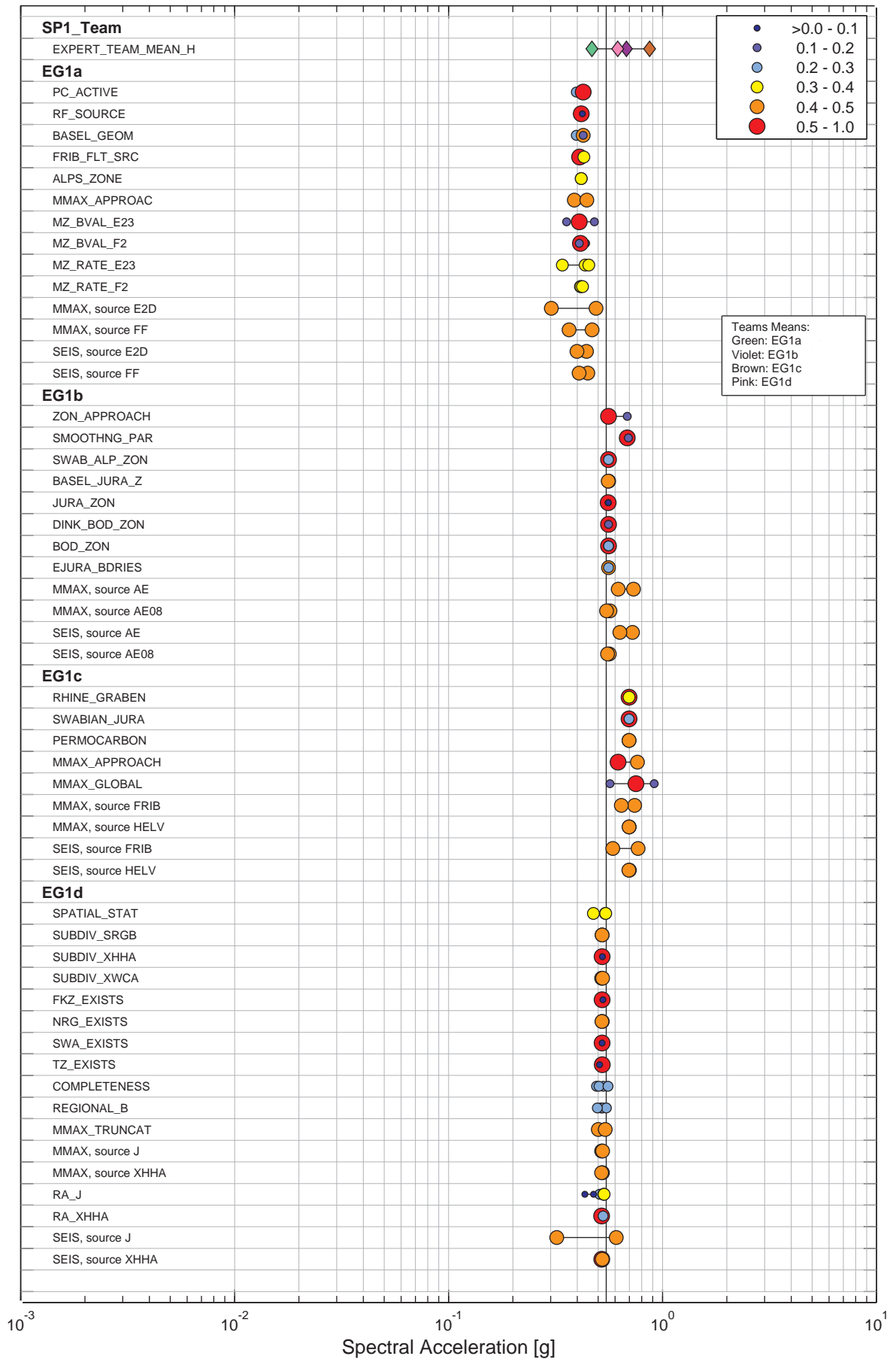


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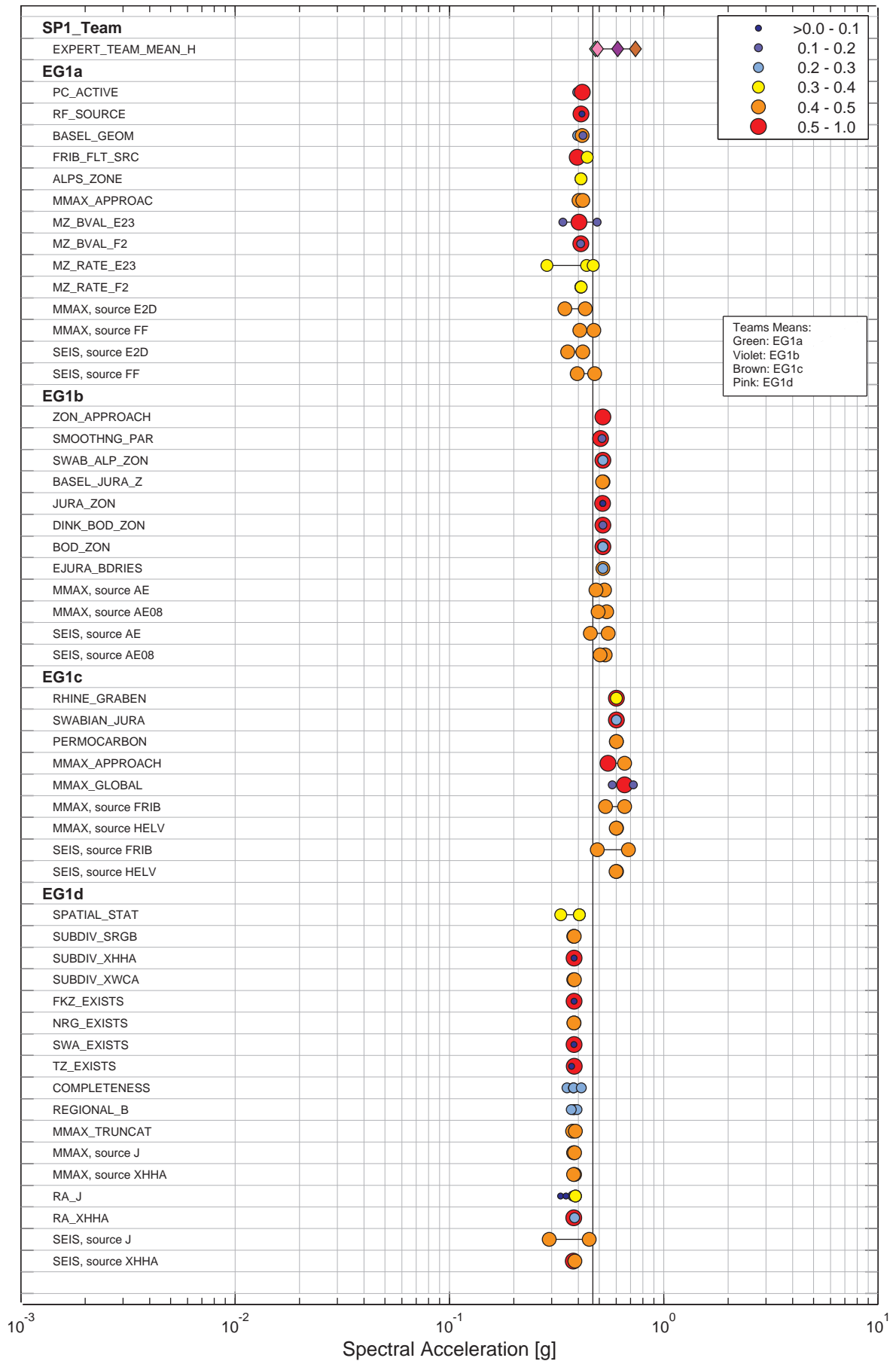


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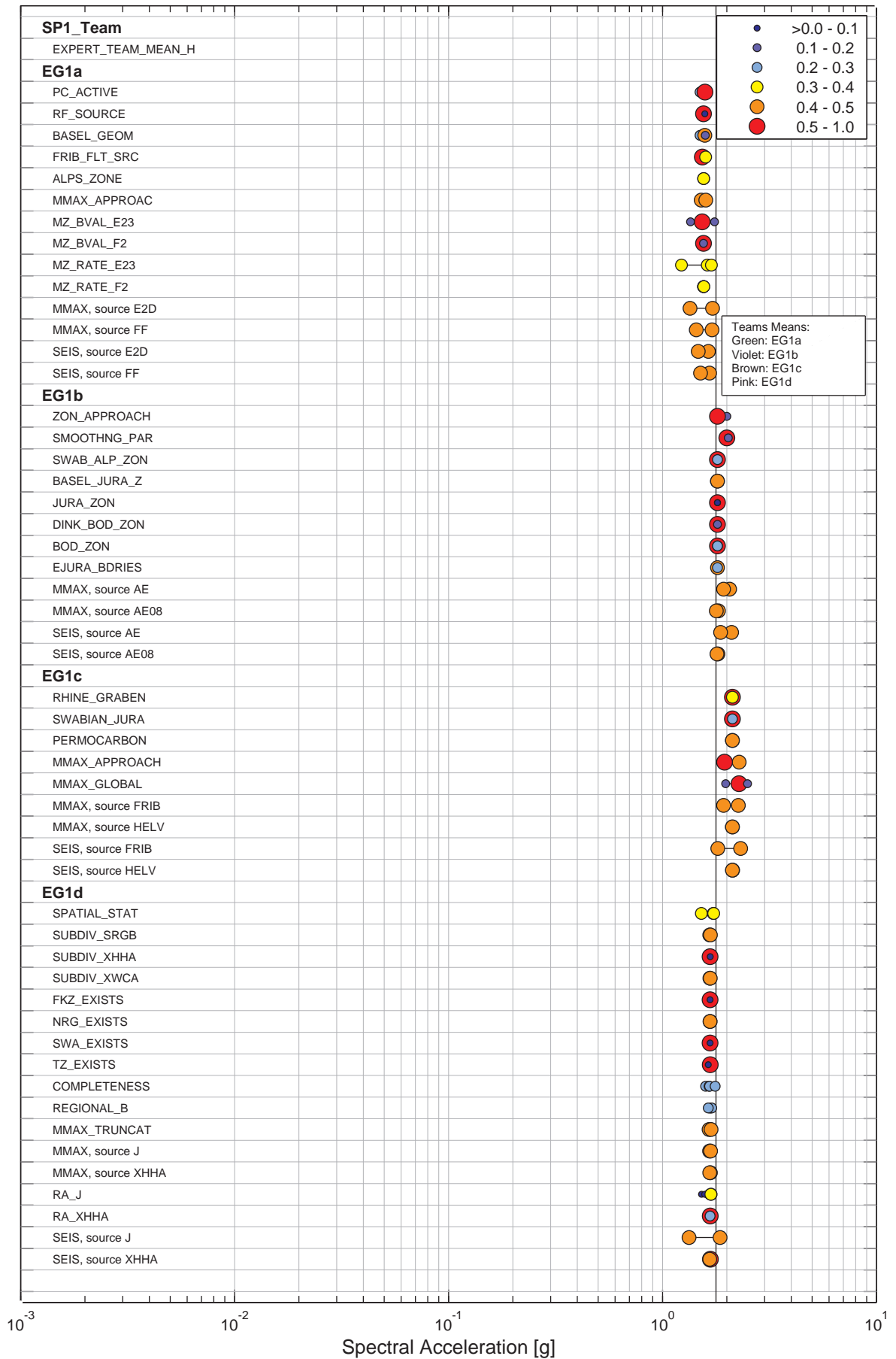


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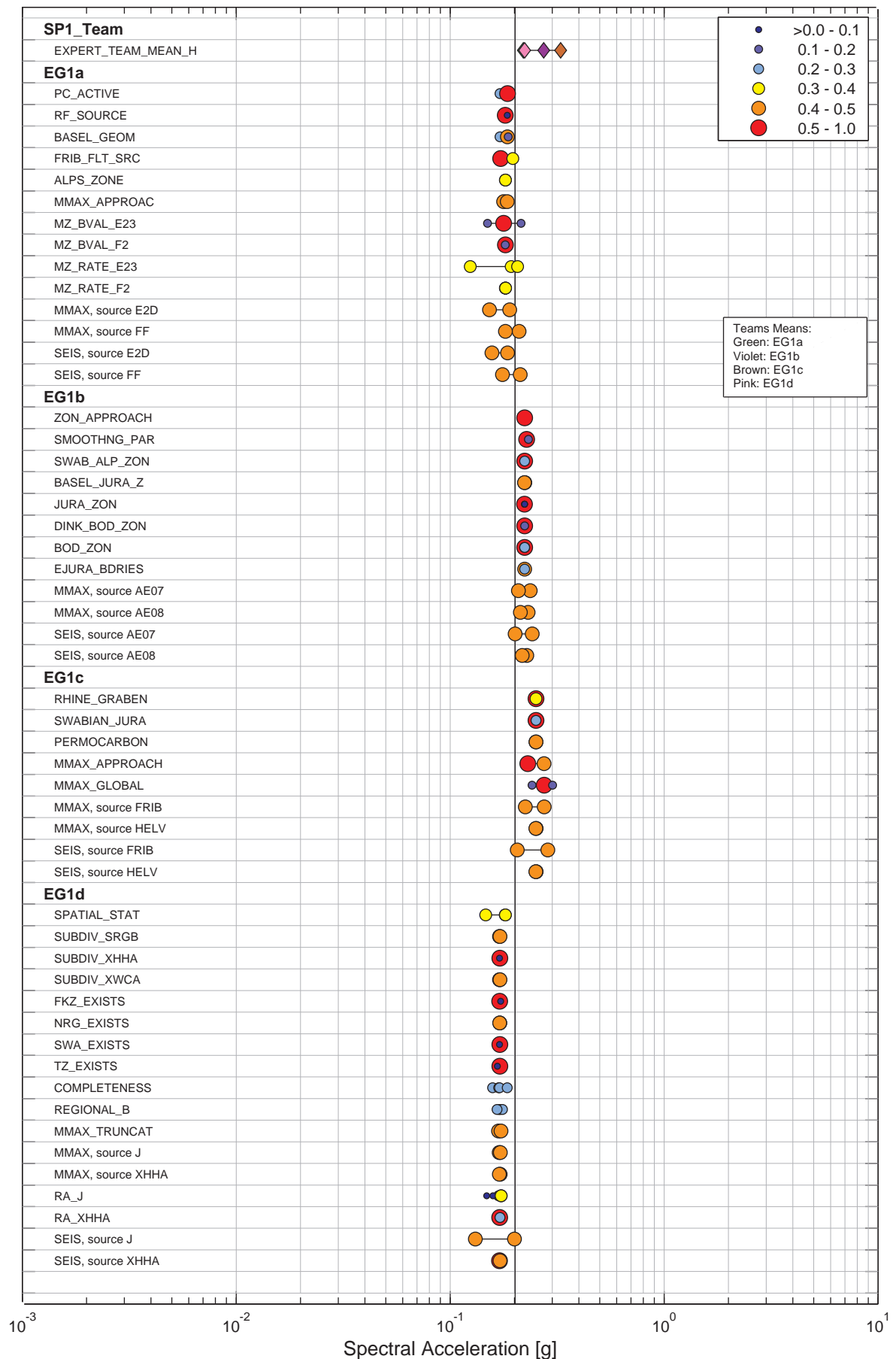


Figure 5.18.5: Mühleberg, horizontal component, rock, sensitivity histogram for SP1, 100 Hz, 1E-04.

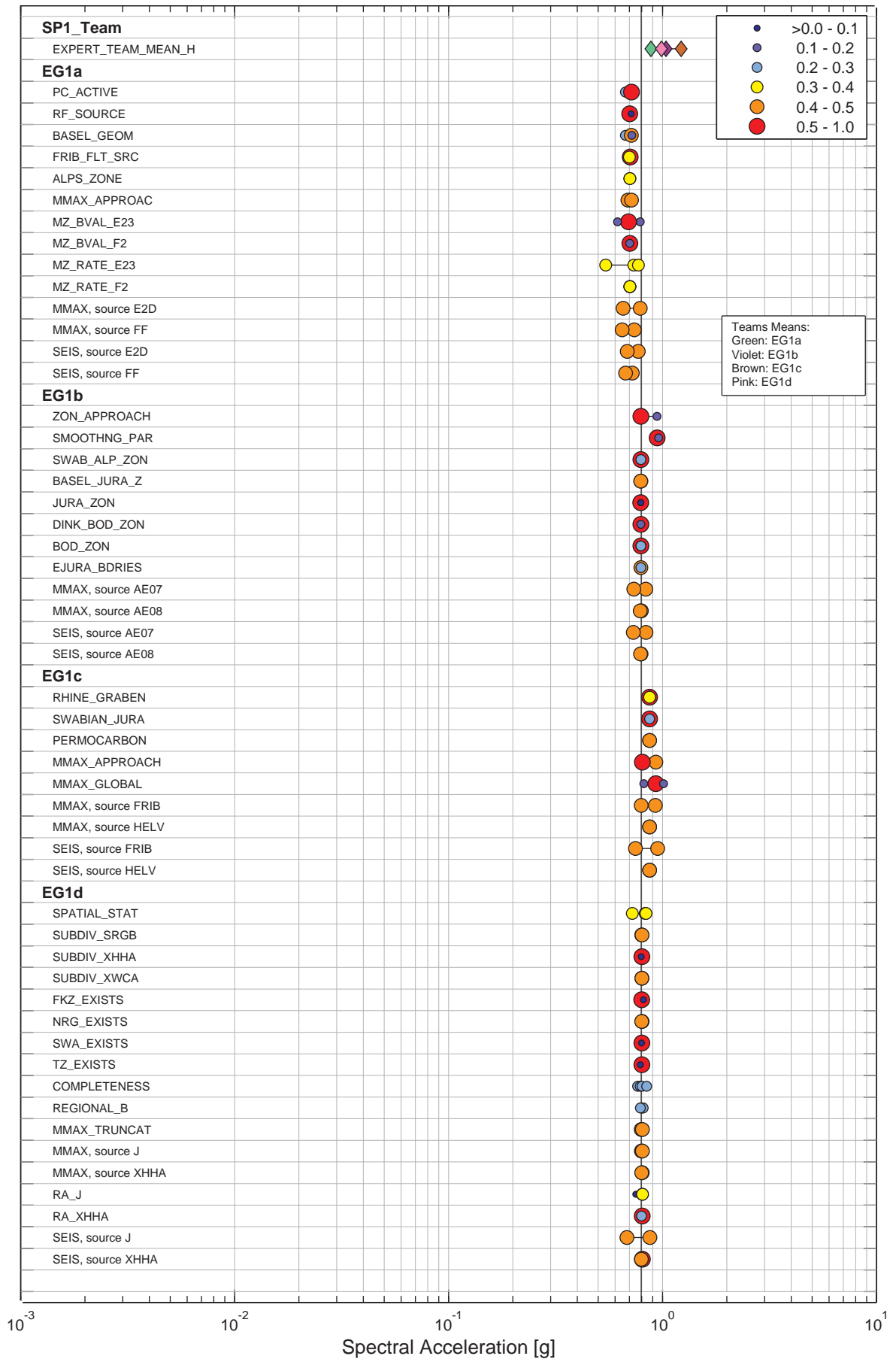


Figure 5.18.6: Mühleberg, horizontal component, rock, sensitivity histogram for SP1, 100 Hz, 1E-06.

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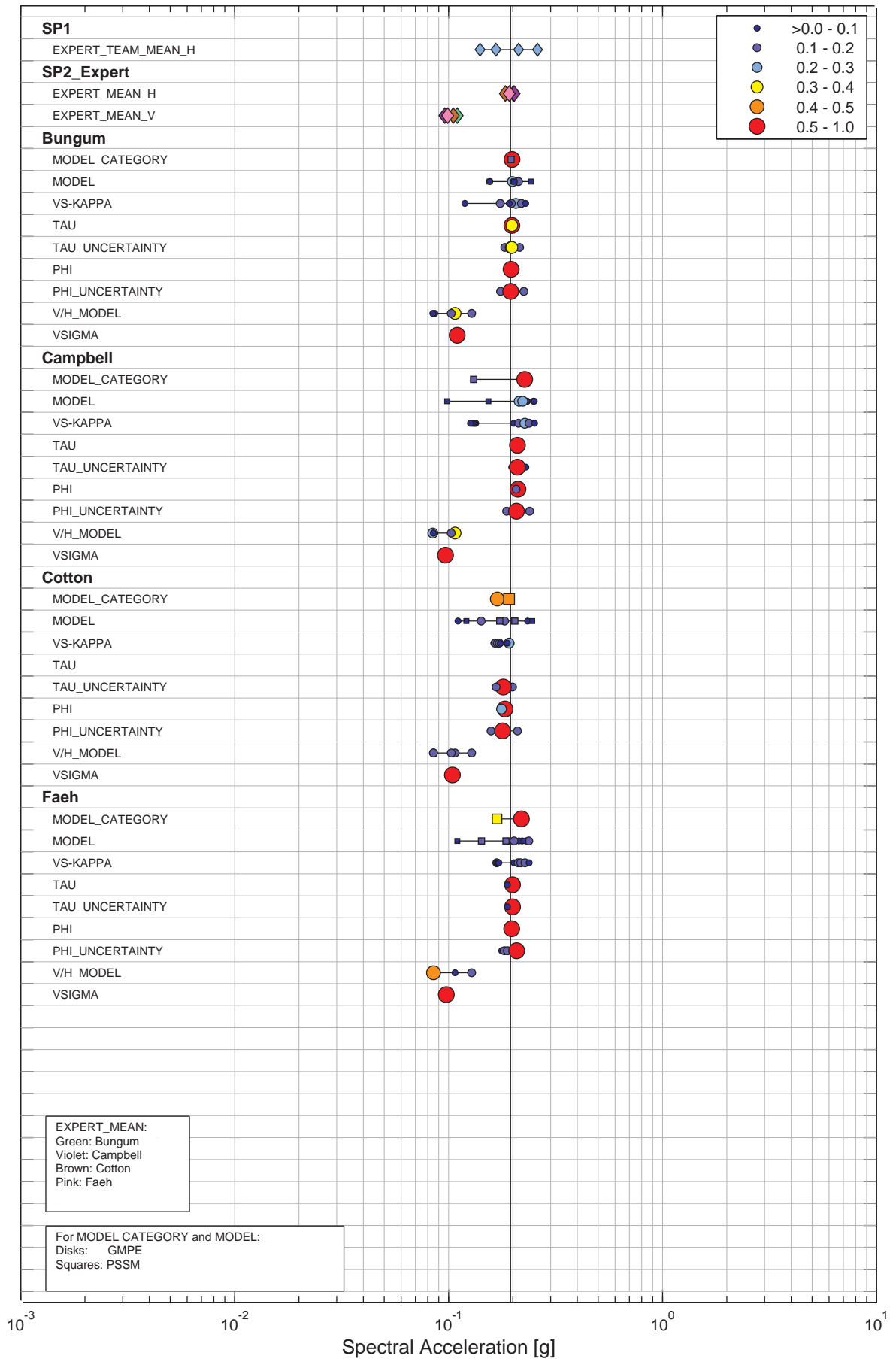


Figure 5.19.1: Mühleberg, horizontal component, rock, sensitivity histogram for SP2, 1 Hz, 1E-04.

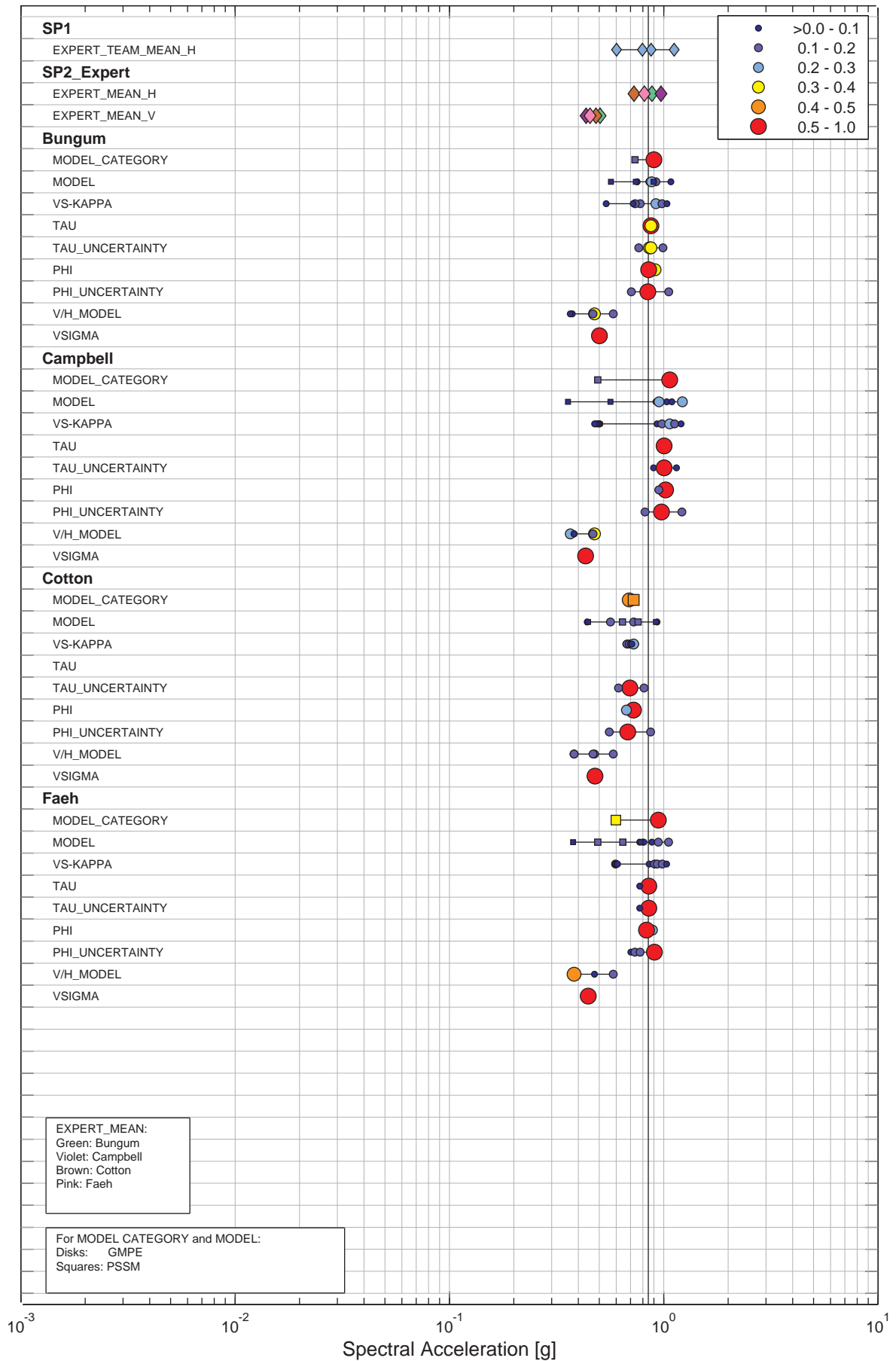


Figure 5.19.2: Mühleberg, horizontal component, rock, sensitivity histogram for SP2, 1 Hz, 1E-06.

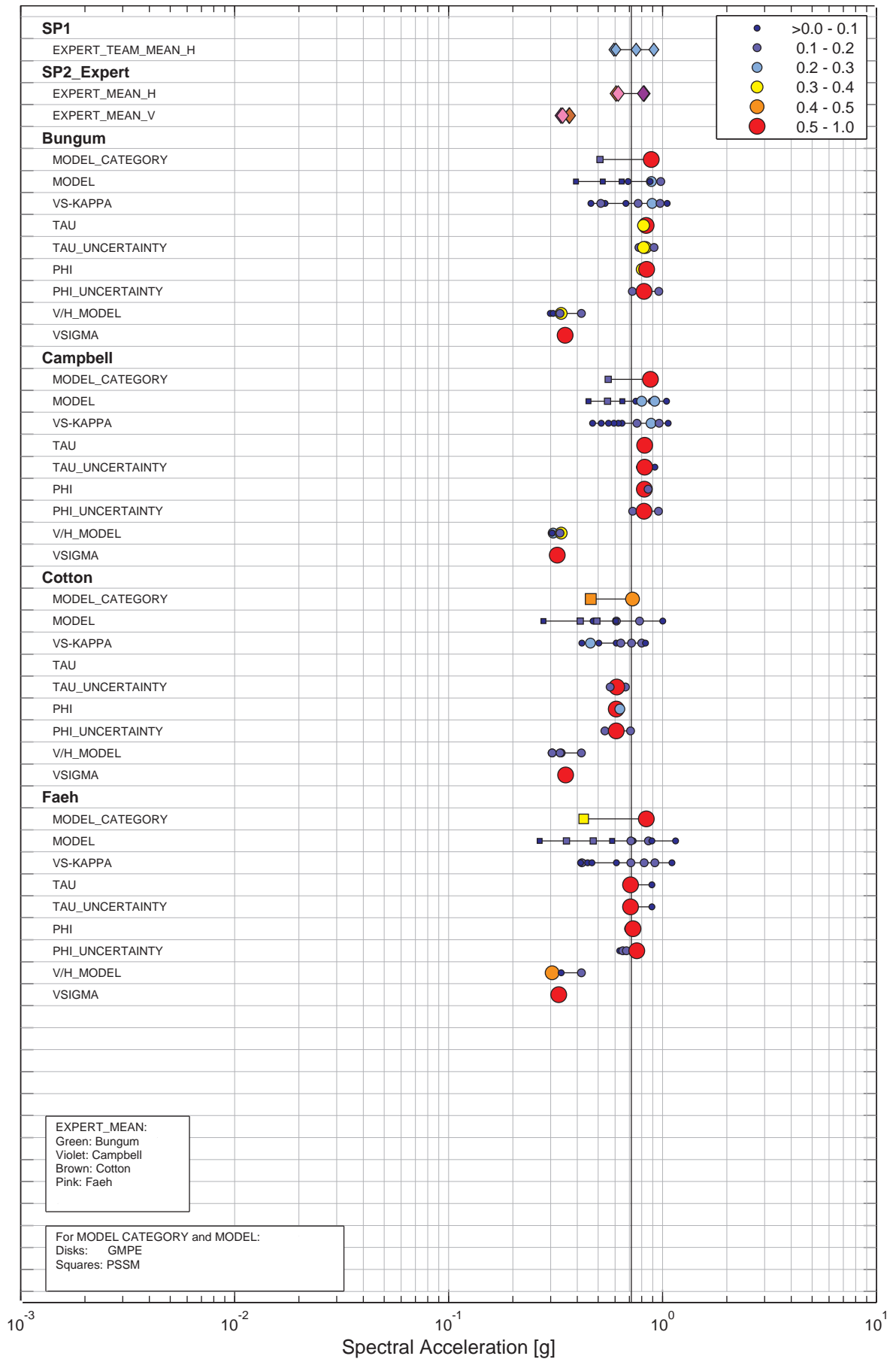


Figure 5.19.3: Mühleberg, horizontal component, rock, sensitivity histogram for SP2, 5 Hz, 1E-04.

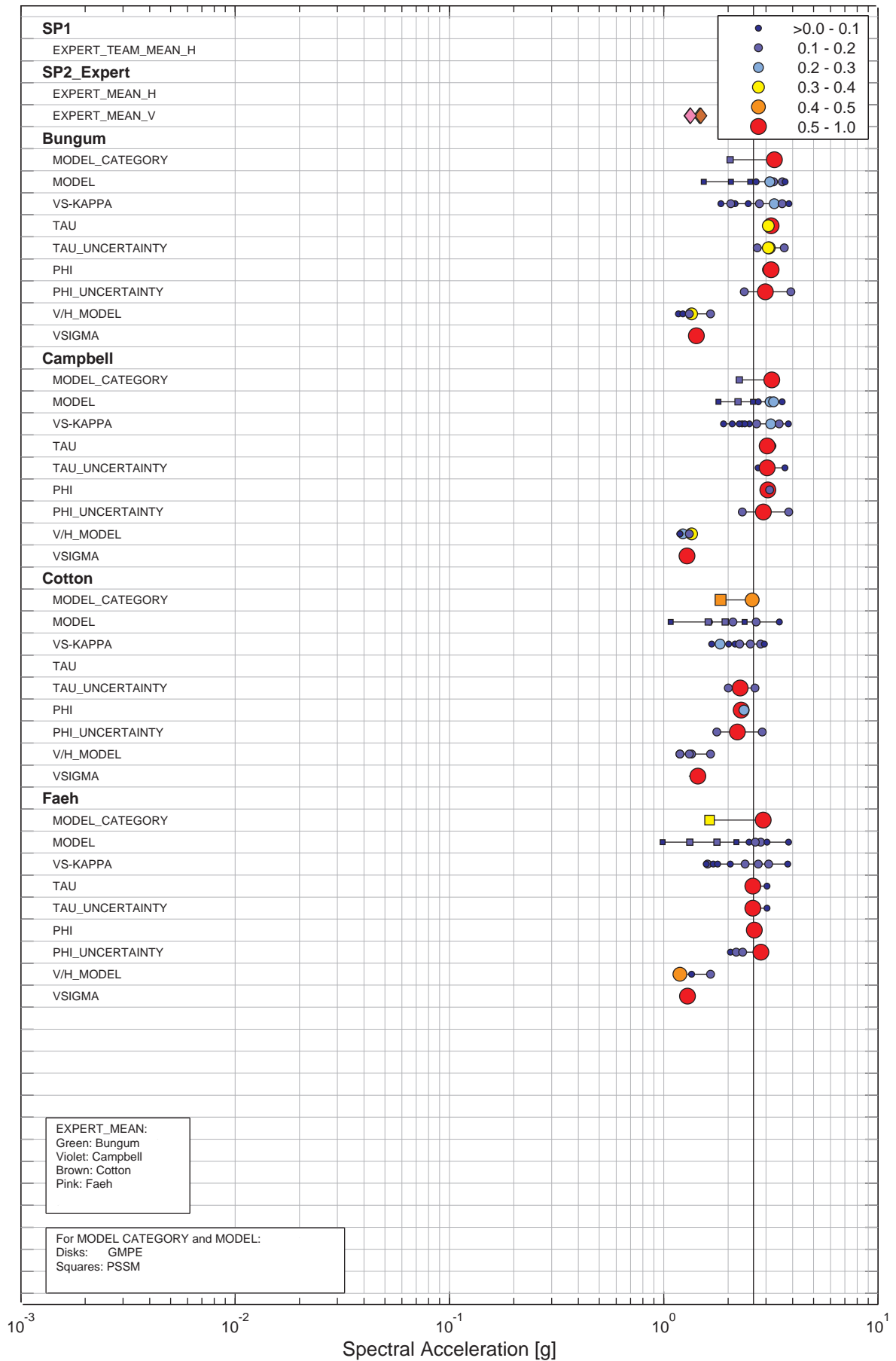


Figure 5.19.4: Mühleberg, horizontal component, rock, sensitivity histogram for SP2, 5 Hz, 1E-06.

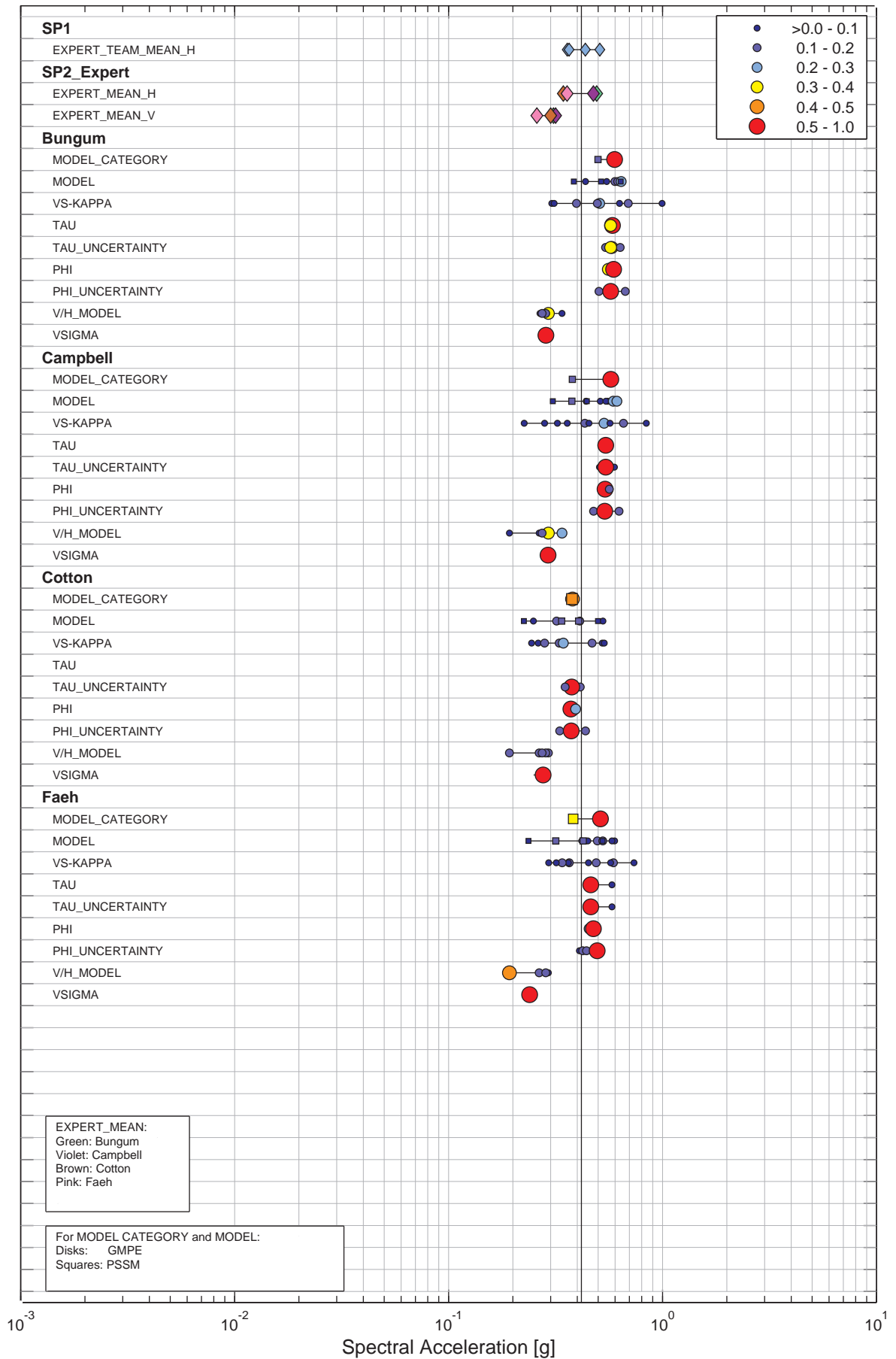


Figure 5.19.5: Mühleberg, horizontal component, rock, sensitivity histogram for SP2, 33 Hz, 1E-04.

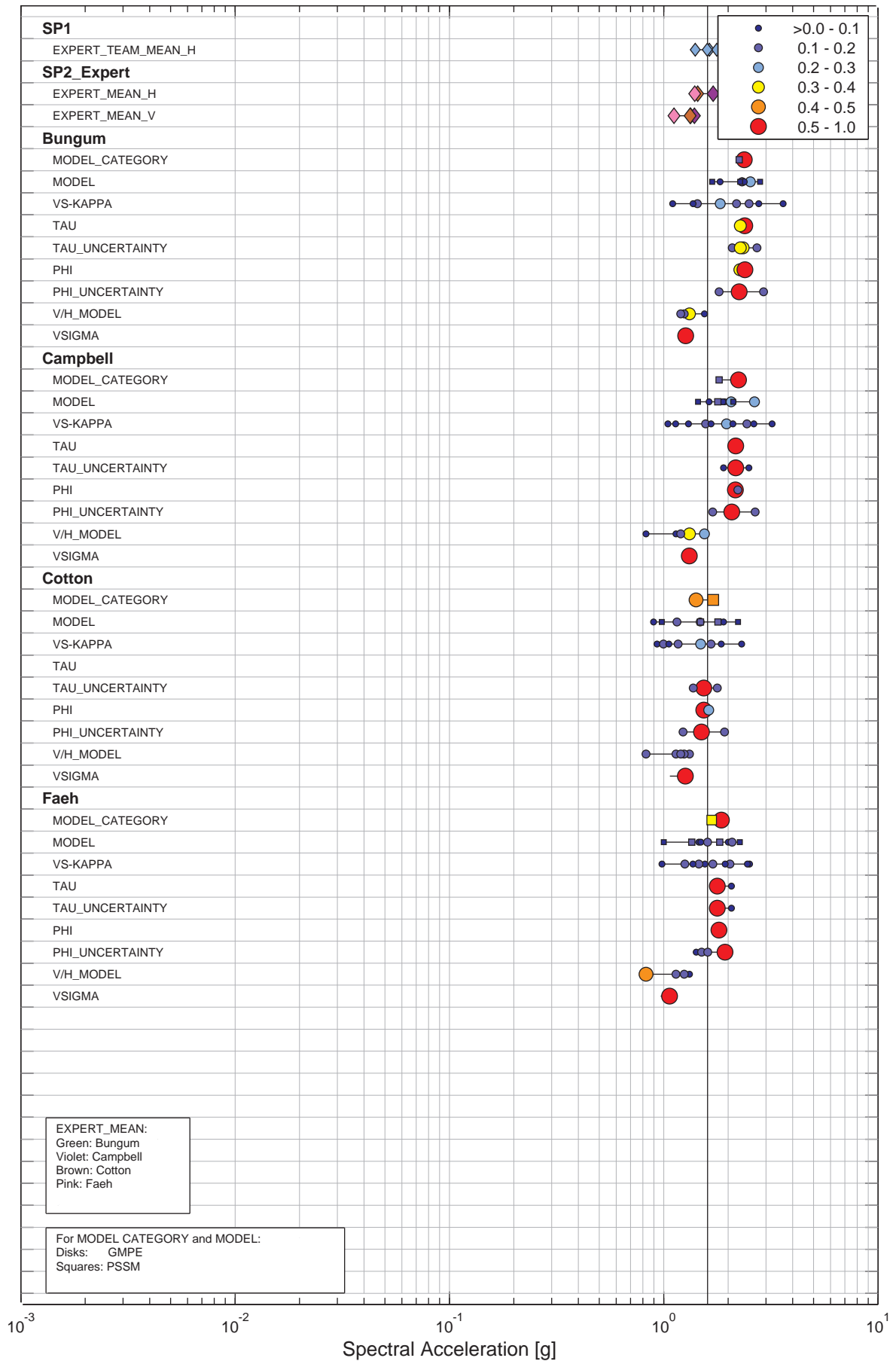


Figure 5.19.6: Mühleberg, horizontal component, rock, sensitivity histogram for SP2, 33 Hz, 1E-06.

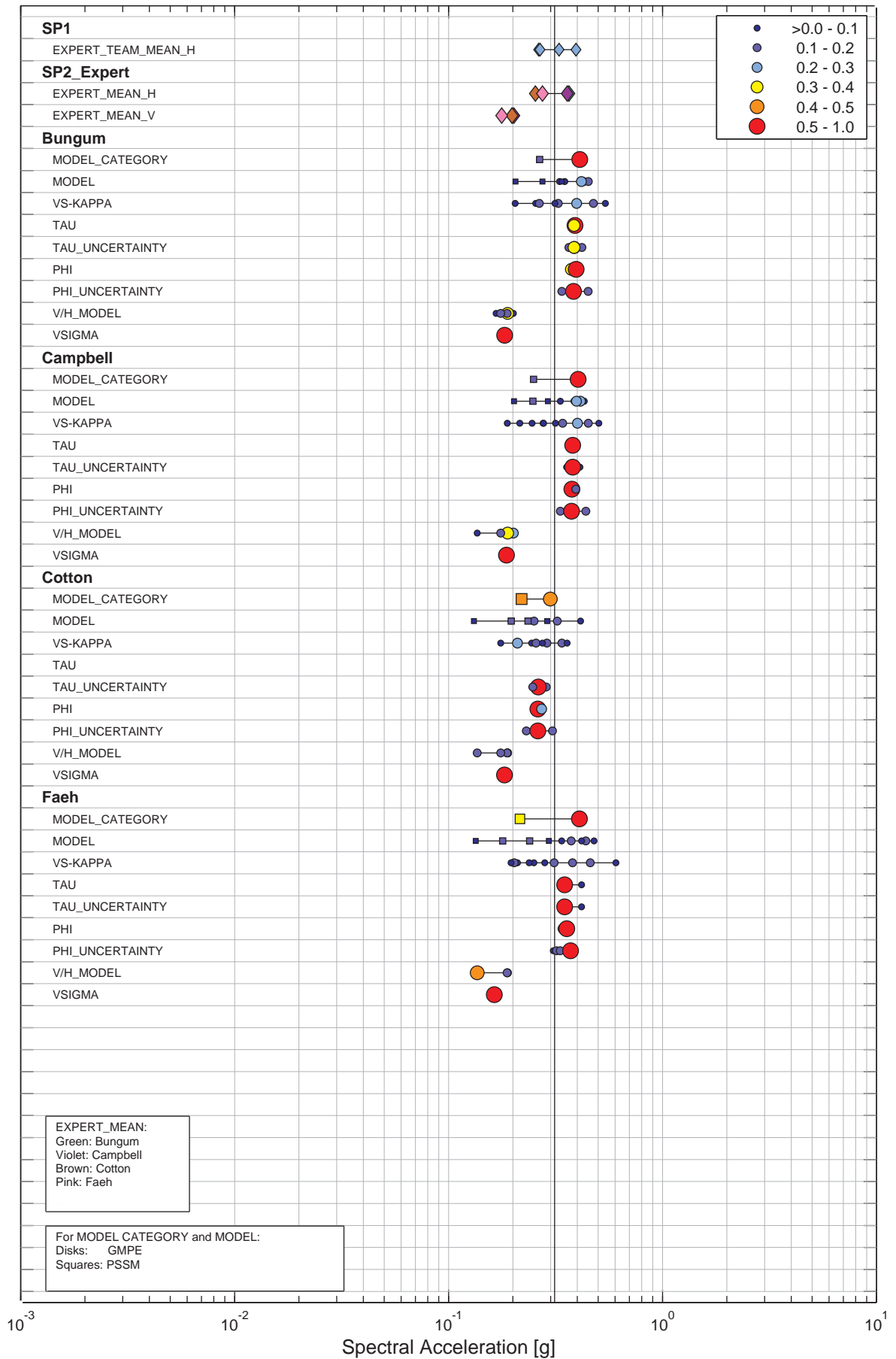


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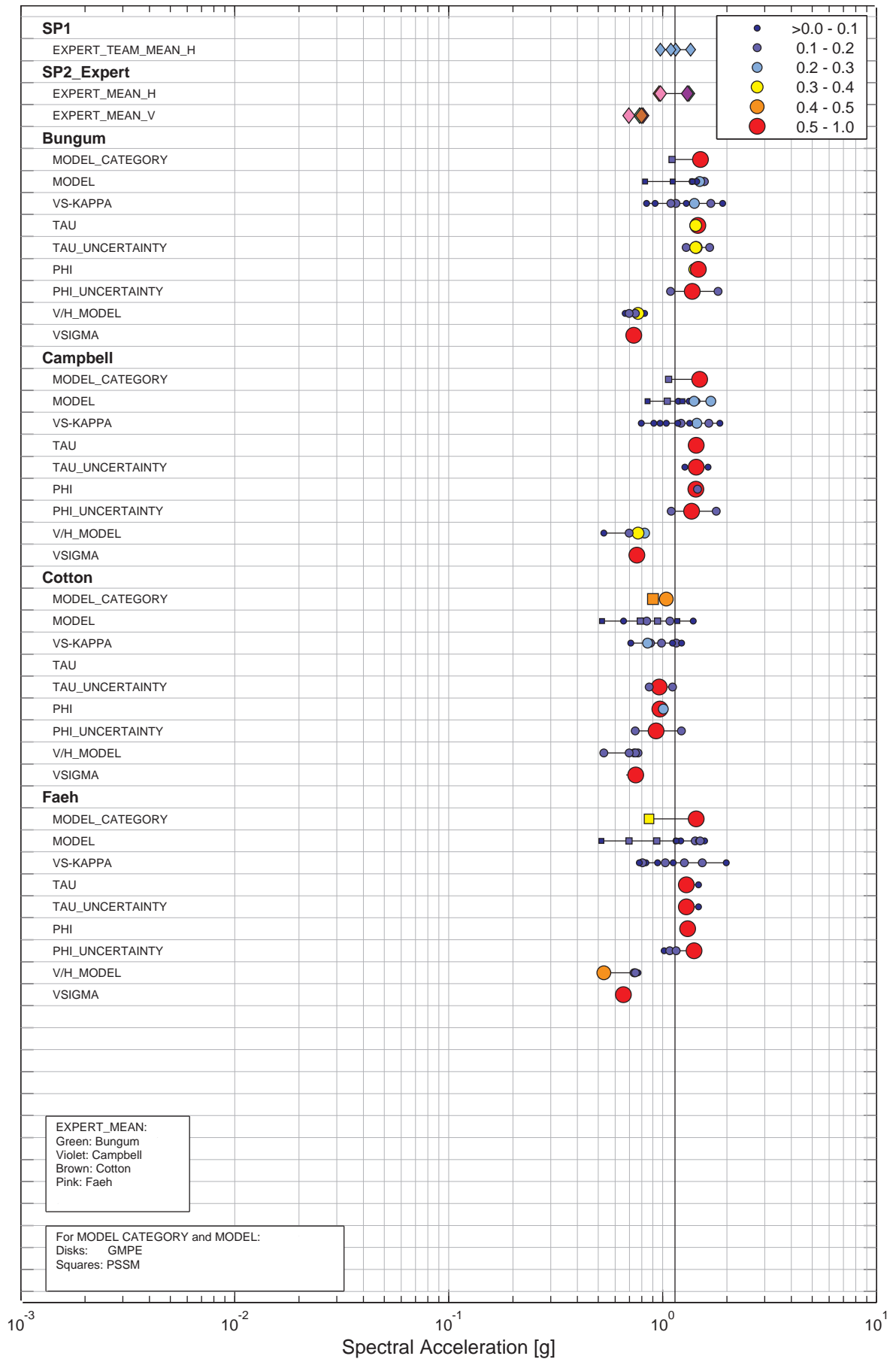


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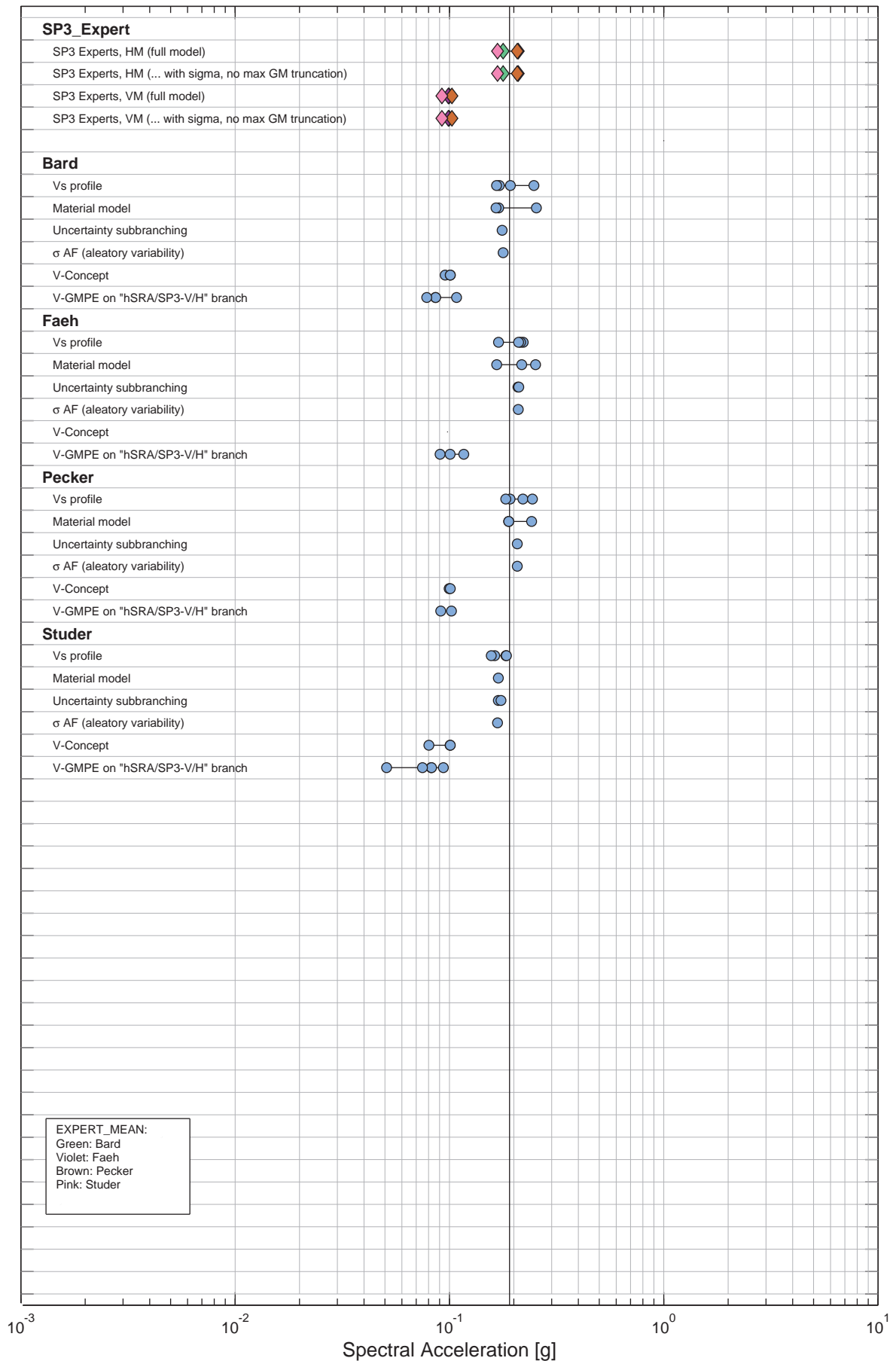


Figure 5.20.1: Mühleberg, horizontal component, soil, sensitivity histogram for SP3, 1 Hz, 1E-04.

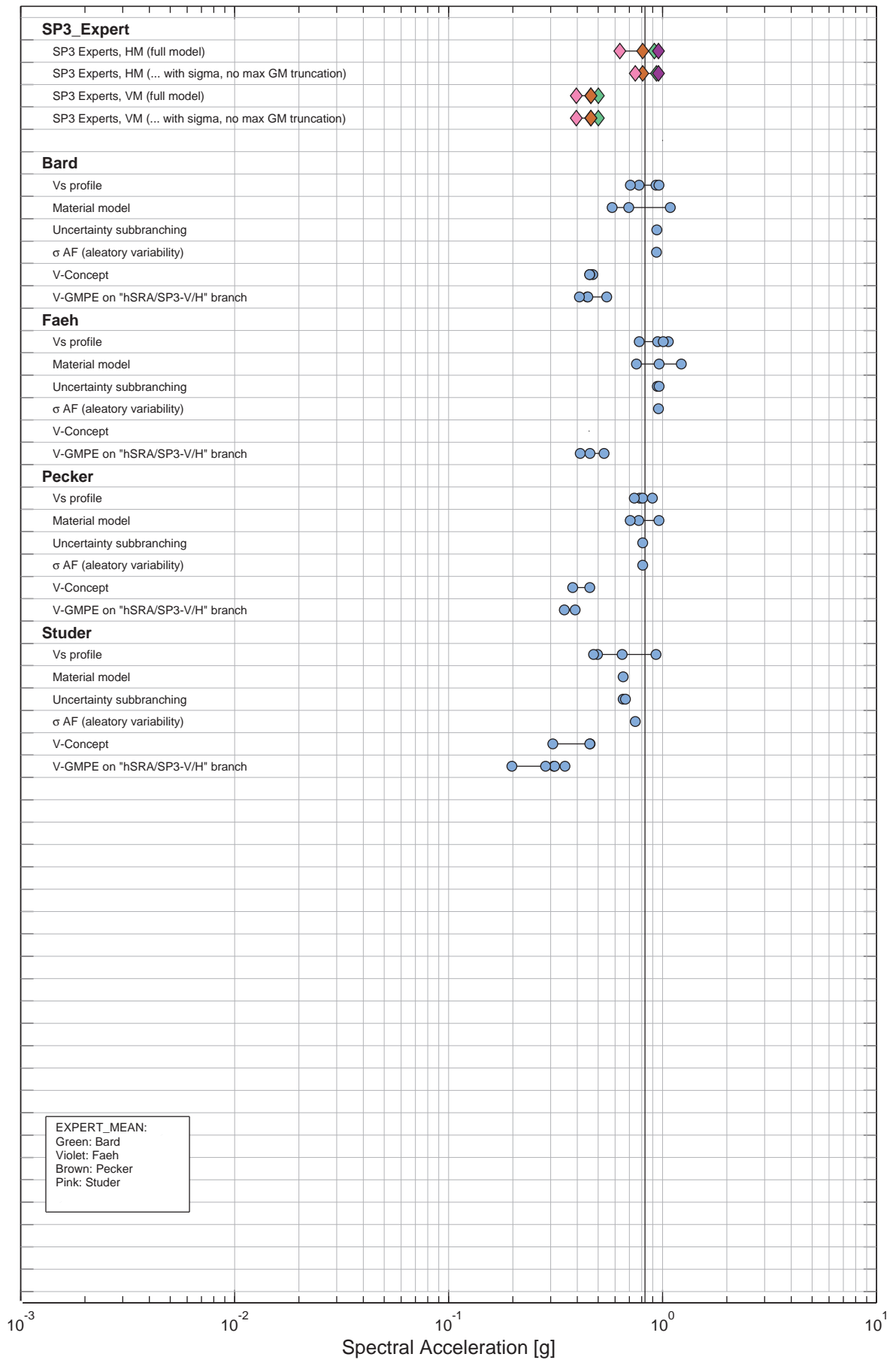


Figure 5.20.2: Mühleberg, horizontal component, soil, sensitivity histogram for SP3, 1 Hz, 1E-06.

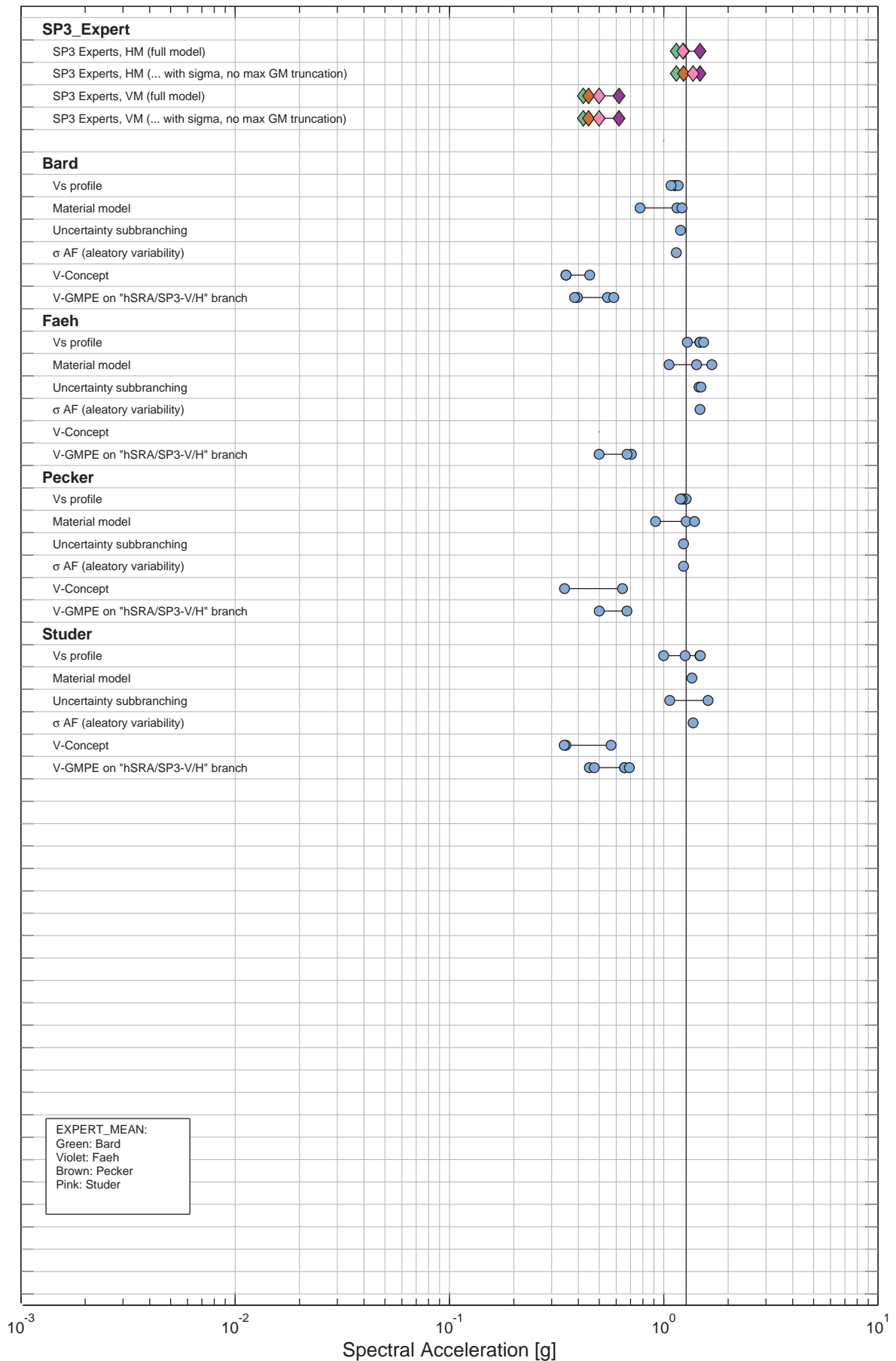


Figure 5.20.3: Mühleberg, horizontal component, soil, sensitivity histogram for SP3, 5 Hz, 1E-04.

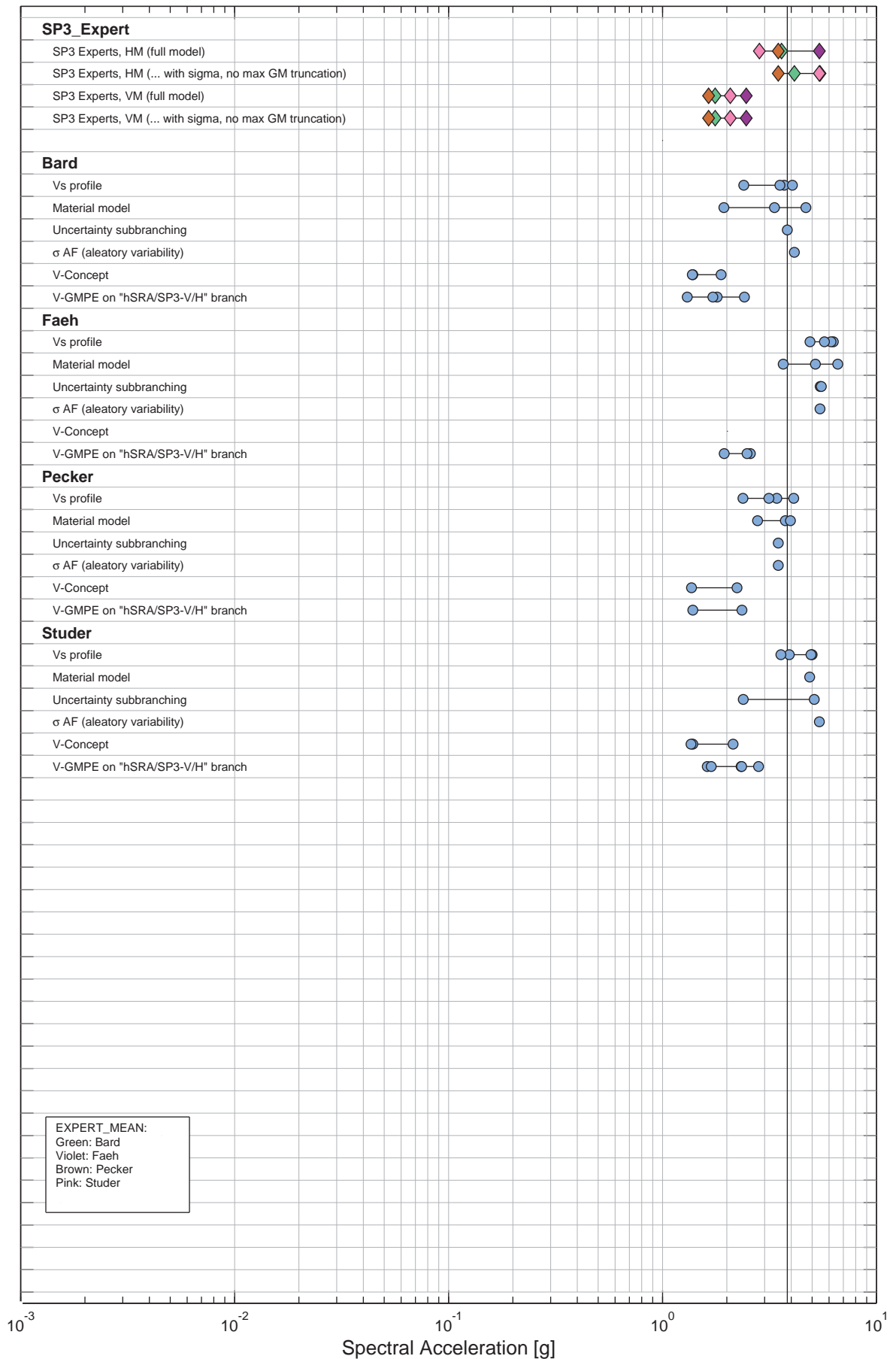


Figure 5.20.4: Mühleberg, horizontal component, soil, sensitivity histogram for SP3, 5 Hz, 1E-06.

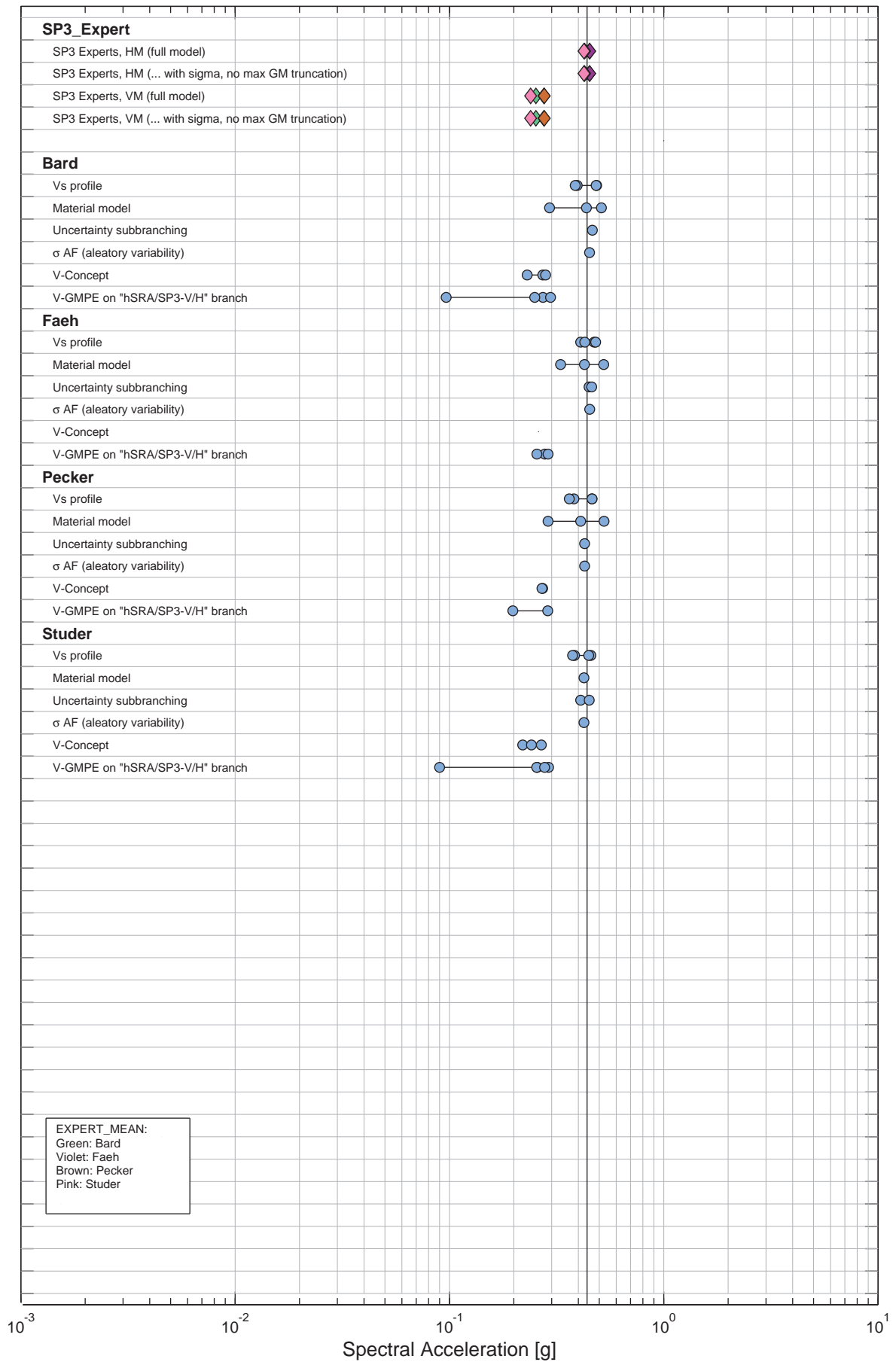


Figure 5.20.5: Mühleberg, horizontal component, soil, sensitivity histogram for SP3, 100 Hz, 1E-04.

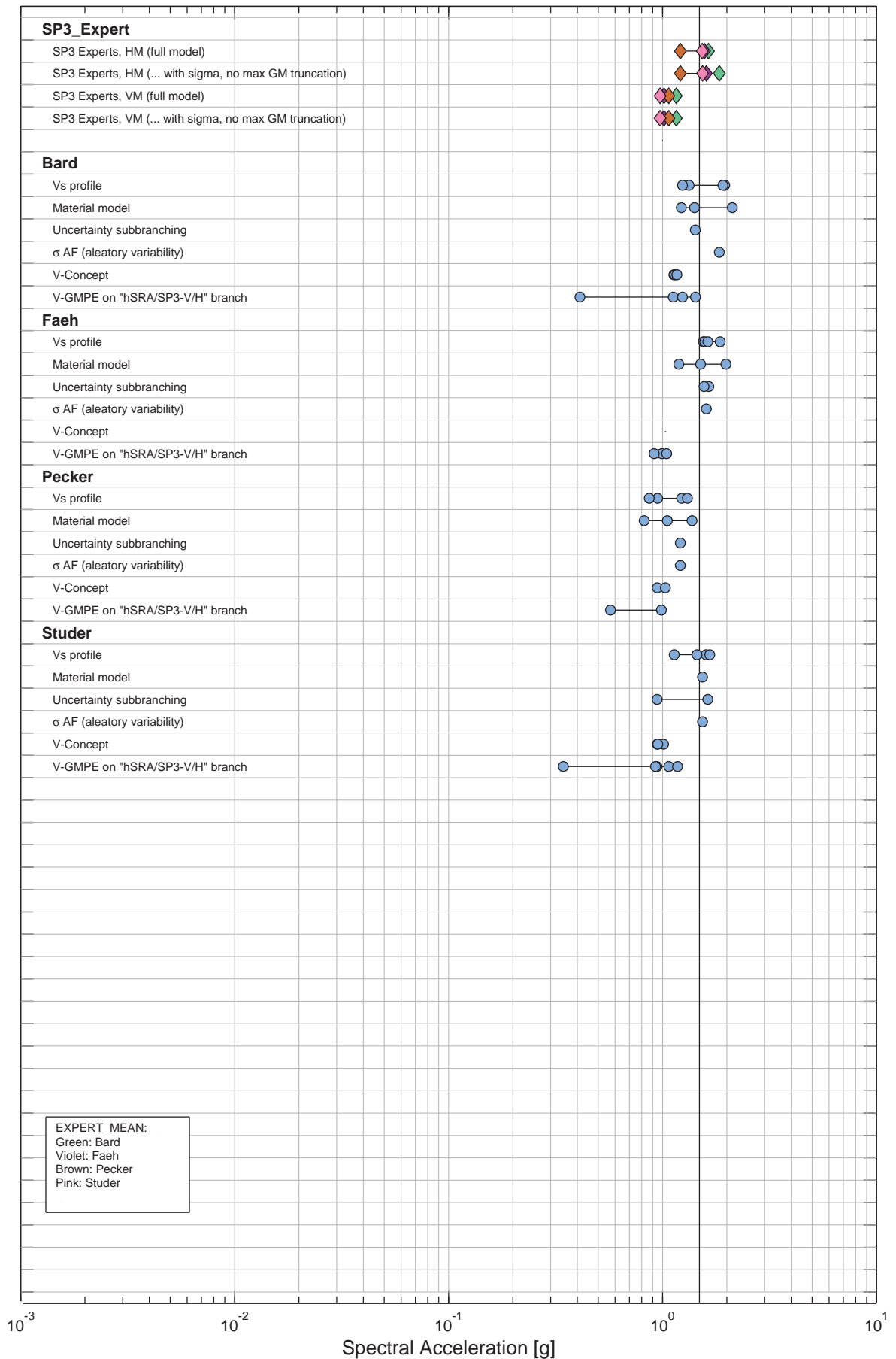


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