

$$H1(f, f_n, \zeta, A) := \frac{A}{\sqrt{(1-r^2)^2 + (2\cdot\zeta\cdot r)^2}} \quad r \leftarrow \frac{f}{f_n}$$

fstart := 10 fend := 2000

Frequency range of interest frg := fstart, fstart + 1.. fend

f_{nv} := (25 100 500)^T dv := (0.02 0.02 0.02)^T amp := (1.1 .2 .01)^T

$$PSD(f, f_{nv}, dv, amp, j) := \sum_{i=0}^j H1(f, f_{nv_i}, dv_i, amp_i)^2$$

