

Calculates linear-phase FIR filter coefficients by window method.

appVersion(4) = "0.99.7921.69"

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ord := 64      ω0 := 0.3  ω1 := 0.7  N := 1024      ω := dspl_linspace(0, π, N, "periodic")
filter_eval(type, wind) := | b := dspl_fir_linphase(ord, ω0, ω1, type, wind, 0)
                        | dspl_filter_freq_resp(b, 0, ord, ω, "mag|logmag")1
mag11 := filter_eval("lpf", "rect")           mag12 := filter_eval("lpf", "hamming")
mag13 := filter_eval("lpf", "blackman")       mag14 := filter_eval("lpf", "blackman_harris")
mag21 := filter_eval("hpf", "rect")          mag22 := filter_eval("hpf", "hamming")
mag23 := filter_eval("hpf", "blackman")       mag24 := filter_eval("hpf", "blackman_harris")
mag31 := filter_eval("bpass", "rect")        mag32 := filter_eval("bpass", "hamming")
mag33 := filter_eval("bpass", "blackman")    mag34 := filter_eval("bpass", "blackman_harris")
mag41 := filter_eval("bstop", "rect")       mag42 := filter_eval("bstop", "hamming")
mag43 := filter_eval("bstop", "blackman")   mag44 := filter_eval("bstop", "blackman_harris")

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$$f_1 := \begin{bmatrix} \omega_0 - 130 \\ \omega_0 \quad 5 \end{bmatrix} \quad f_2 := \begin{bmatrix} \omega_1 - 130 \\ \omega_1 \quad 5 \end{bmatrix}$$

