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Statistical Signal Processing consider 50ms of the input signal --> $N = \text{length}(y)$; estimate ACS [r lags] = `xcorr(y, 'biased')`; window with a bartlett window

of the same length $r_w = r \cdot \text{bartlett}(2*N-1)$; $r = \text{circshift}(r,N)$;
 estimate PSD using BT: $N_{fft} = 2^{\text{ceil}(\log_2(2*N-1)+1)}$; $\phi_{BT} = \text{real}(\text{fft}(r,N_{fft}))$; Matlab
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