

Pressure signal processing

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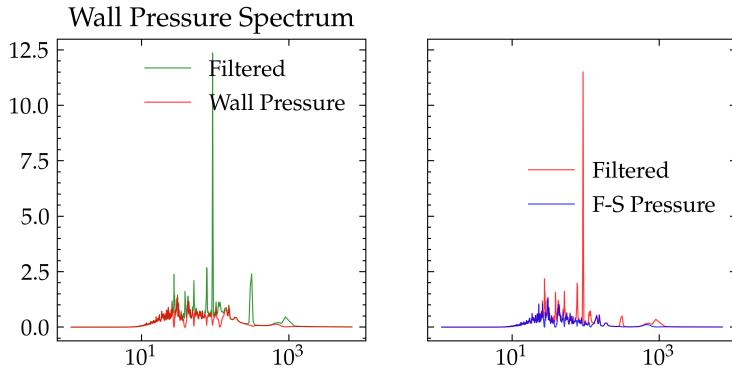
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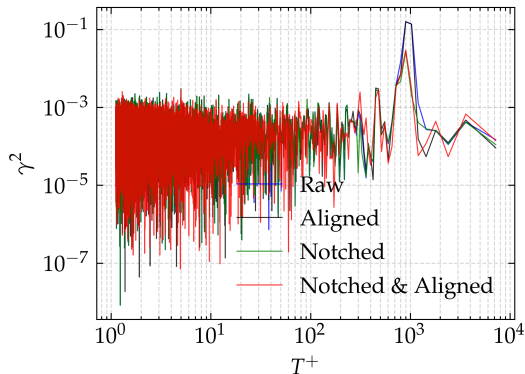
Duct modes

Time series filter duct modes



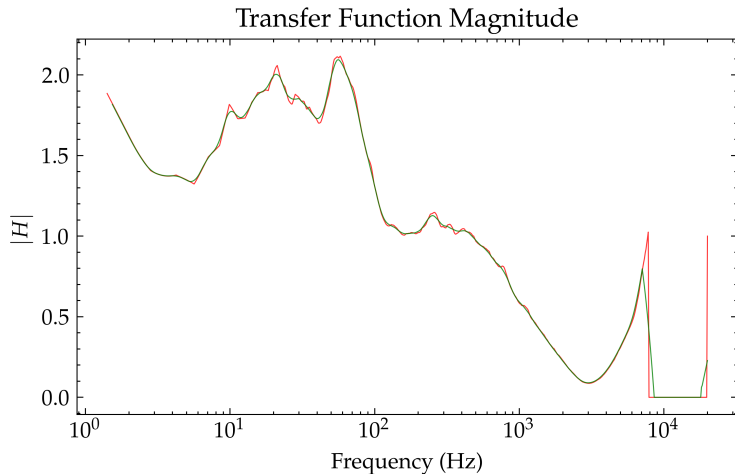
► Filter signal with bandwidth filter in the timeseries

Coherence between wall and free-stream pressure

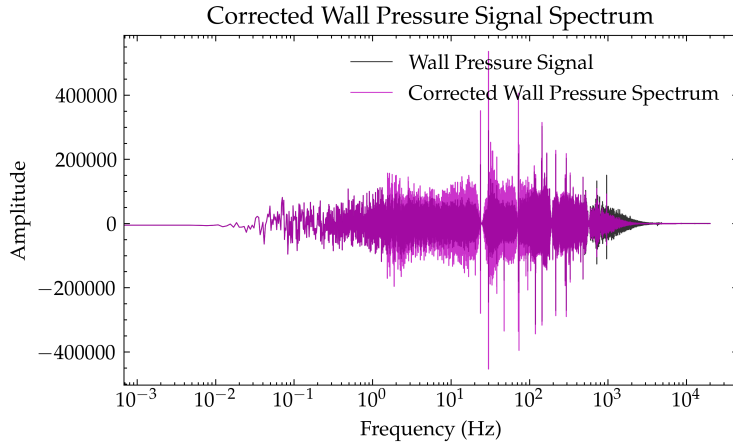


- Miss-alignment of F-S and Wall mic causes a phase shift
 - Maximised coherence based on time lag
 - Still uncorrelated

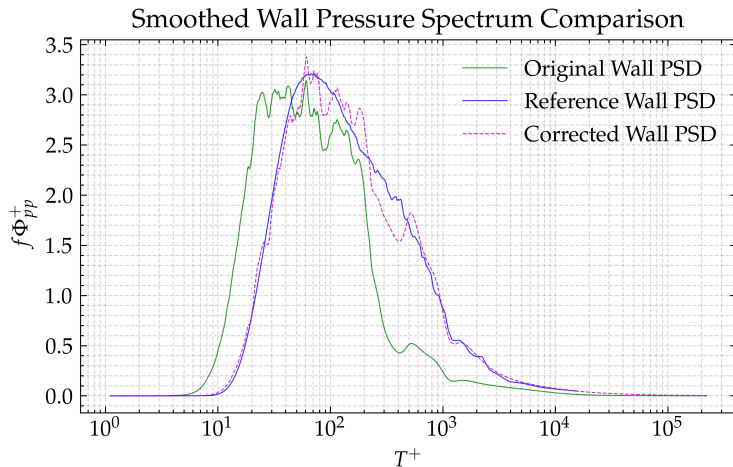
Transfer function between reference spectra and measurements



► Transfer function between reference spectra and measurements



► Corrected wall pressure signal spectrum



References