

Pressure signal processing

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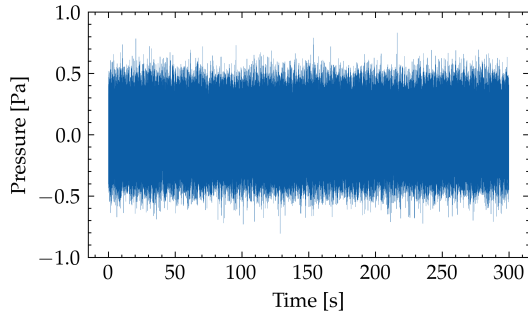
Center for Turbulence Research
Stanford University

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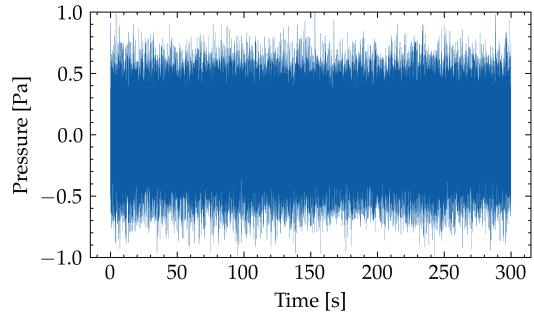
Thanks to DARPA for funding this work.

Simultaneous PH and NC measurements

Raw pinhole (PH) mic. data

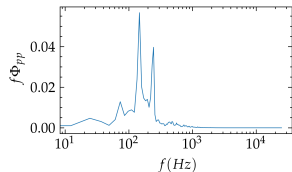
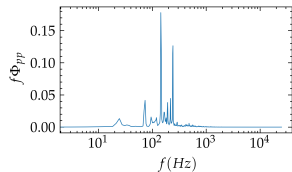
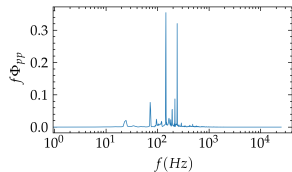


Raw nose cone (NC) mic. data

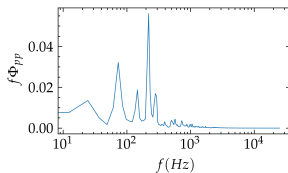
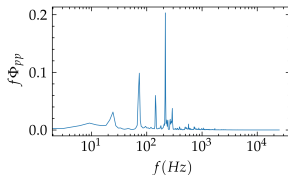
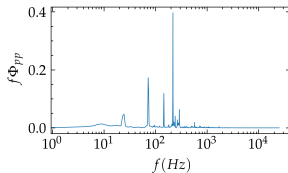


Pre-multiplied raw spectra at $N = 2^{14}, 2^{12}, 2^{10}$

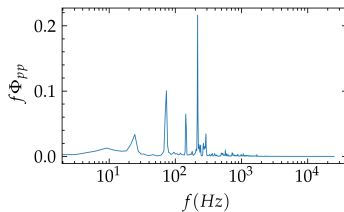
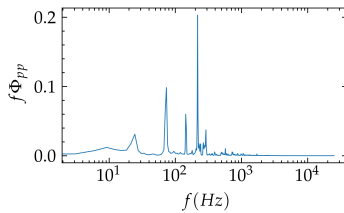
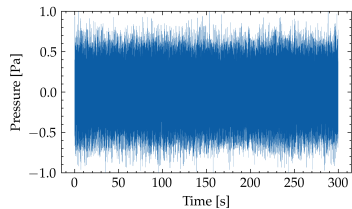
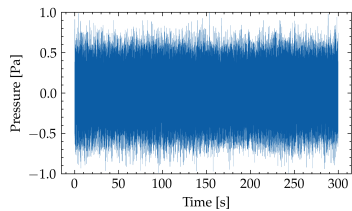
PH



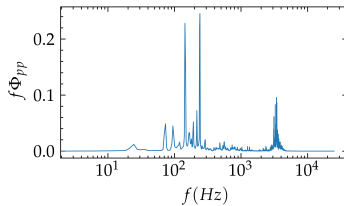
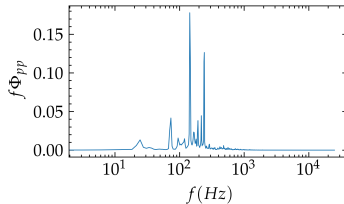
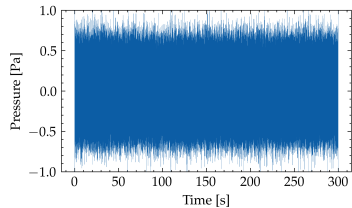
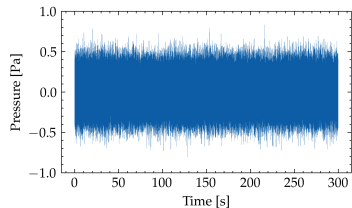
NC



NKD from NC reconstruction



NKD from PH reconstruction



Ph \rightarrow NKD transfer function $N = 2^{14}, 2^{10}, 2^8$

