SU update:
We have two-point measurements with two streamwise spacings

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- $\delta \approx 0.035[\mathrm{m}]$, $U_e \approx 14[\mathrm{m/s}]$, $T^+ \equiv Tu_\tau^2/\nu = 10$

Pressure (psi)	0	50	100
$u_\tau[\mathrm{m/s}]$	0.58	0.47	0.52
ν/u_τ [m]	27×10^{-6}	7.5×10^{-6}	3.7×10^{-6}
ν [$\mathrm{m^2/s}$]	15.7×10^{-6}	3.52×10^{-6}	1.92×10^{-6}
Re_τ	1,300	4,700	9,500
$f(T^+ = 10)$ [Hz]	2,100	4,700	14,100

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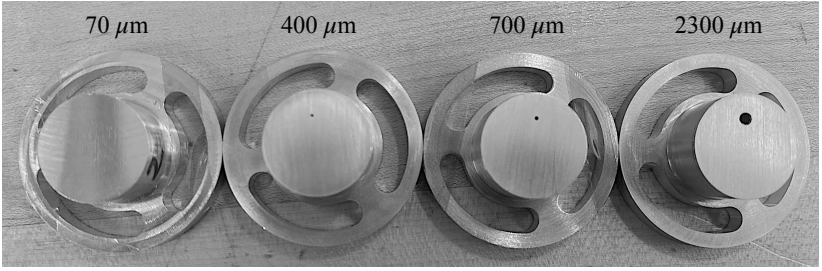
Pinhole diameters



- Testing pinhole diameters of $d = 2300, 700, 400\ \mu$m
  - Corresponds to $d^+ \approx 85, 93, 108$
- Under the frozen turbulence assumption, these sit around $T^+ \sim 10$

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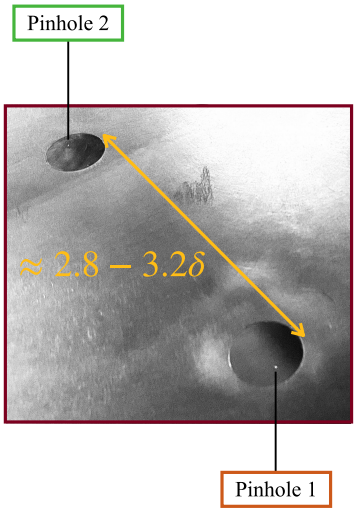
Pinhole spacings



- We have two-point measurements at two streamwise spacings: 3.2δ and 2.8δ
- Herein, we refer to these as 'far' and 'close' spacings
- The spectra are plotted in voltage and haven't yet been converted to pressure

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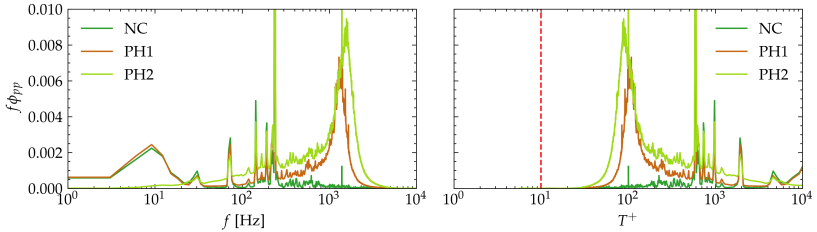
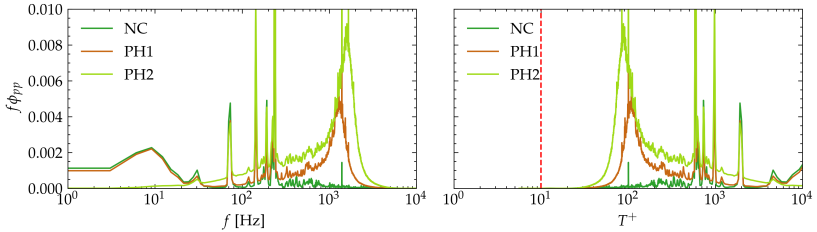
Raw Data [V]: $Re_\tau \approx 9{,}500$ ($d = 700\ \mu$m)

$Re_\tau \approx 9{,}500$ (700μm) - Far-spaced



$Re_\tau \approx 9{,}500$ (700μm) - Close-spaced



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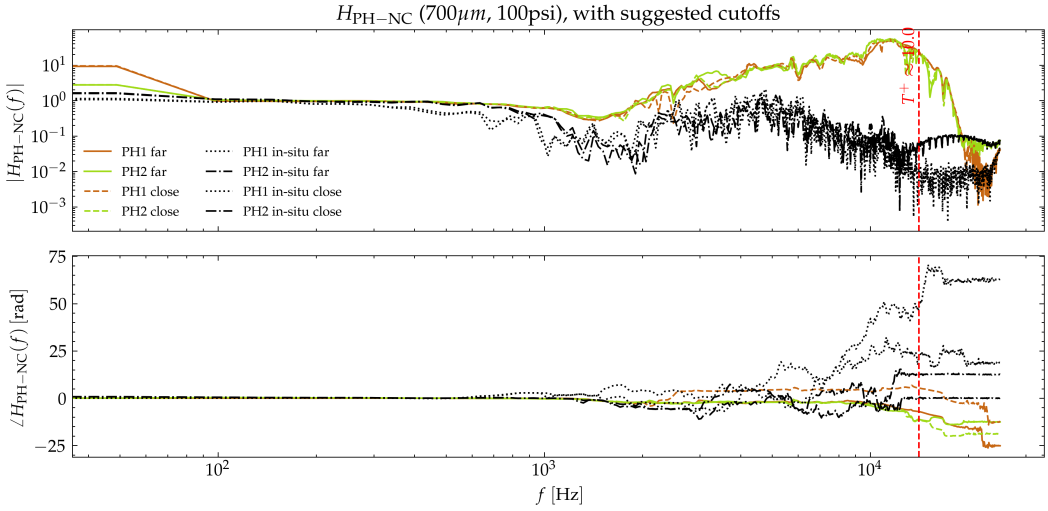
Transfer Function: $Re_\tau \approx 9{,}500$ ($d = 700\ \mu$m)



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Under development: Combining transfer functions

- The transfer functions appear to be similar, but not identical.
- Small discrepancies can lead to large differences in the final spectra
- We are working on methods to combine the 4 transfer functions into one robust estimate
- With high confidence, we can fuse the two anechoic transfer functions into one robust estimate

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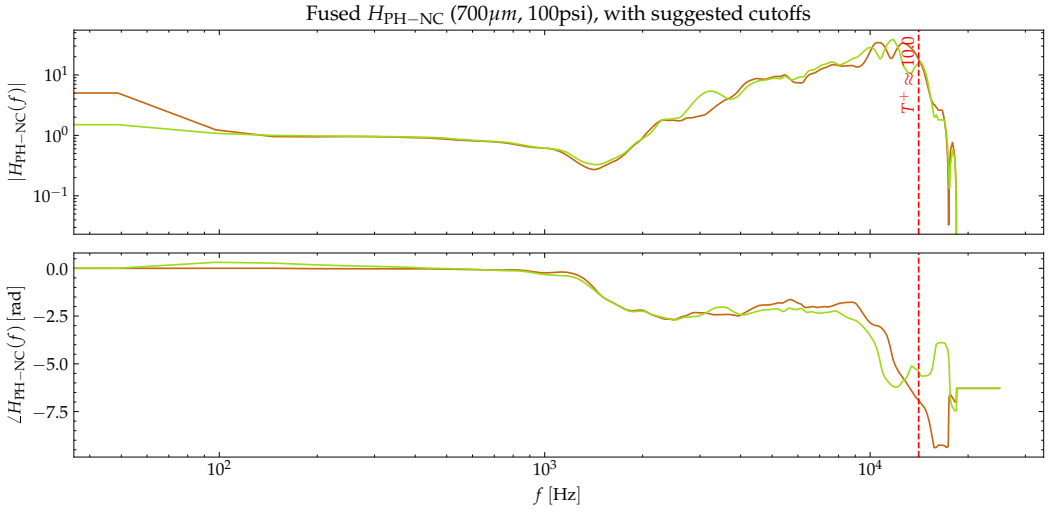
Anechoic Fused Transfer Function: $Re_\tau \approx 9{,}500$ ($d = 700\ \mu$m)



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