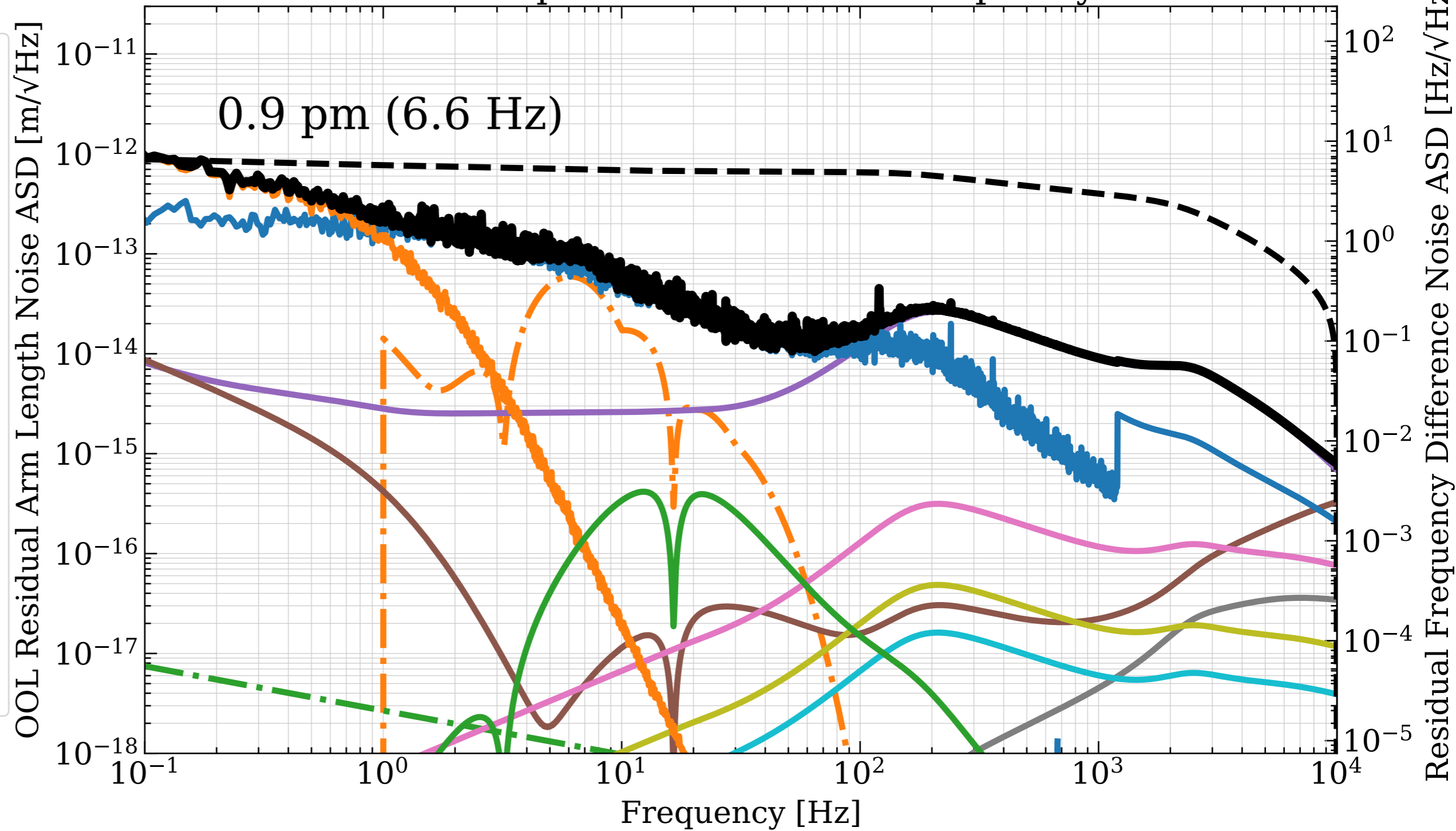


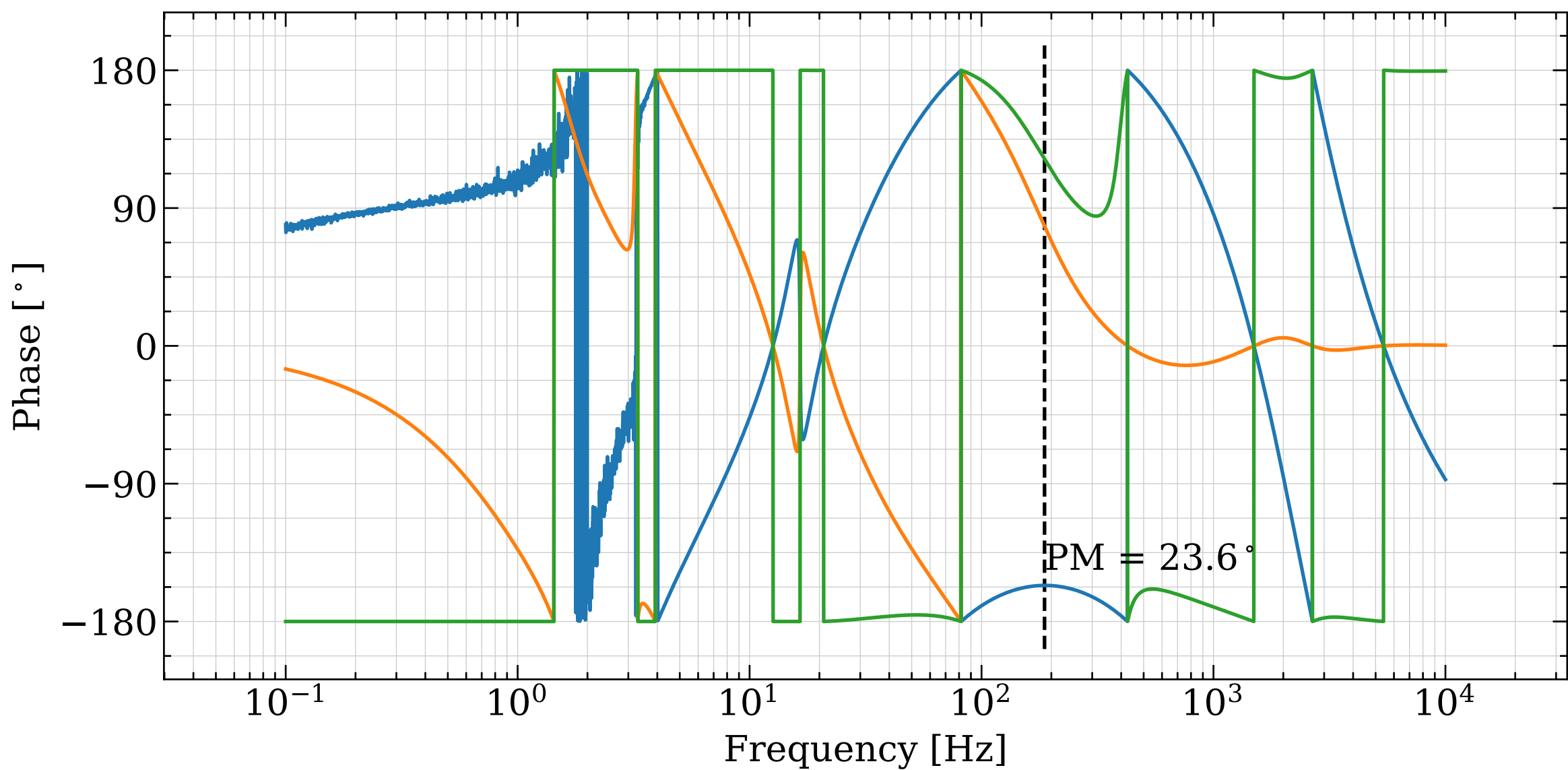
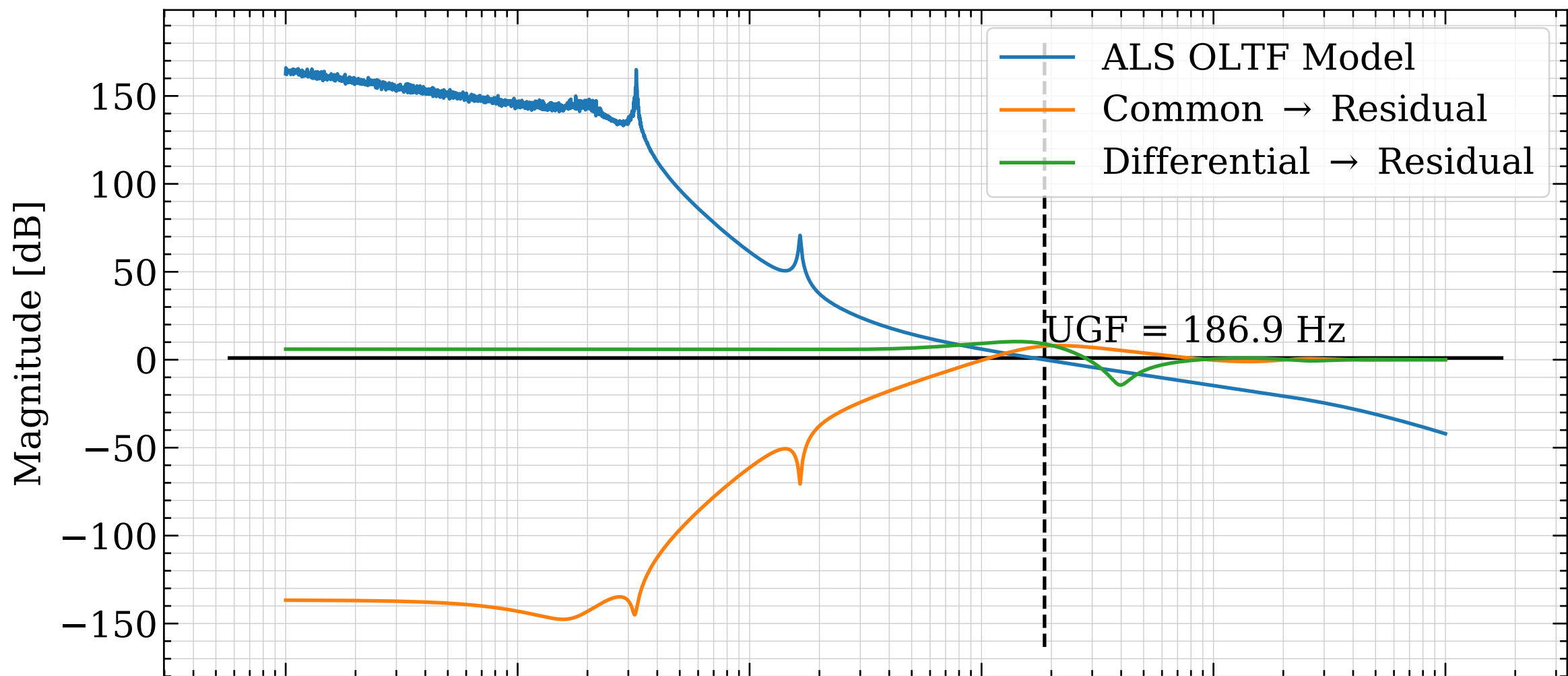
ALS noise budget

Out-of-loop (OOL) Residual Arm Length Motion with respect to Main Laser Frequency

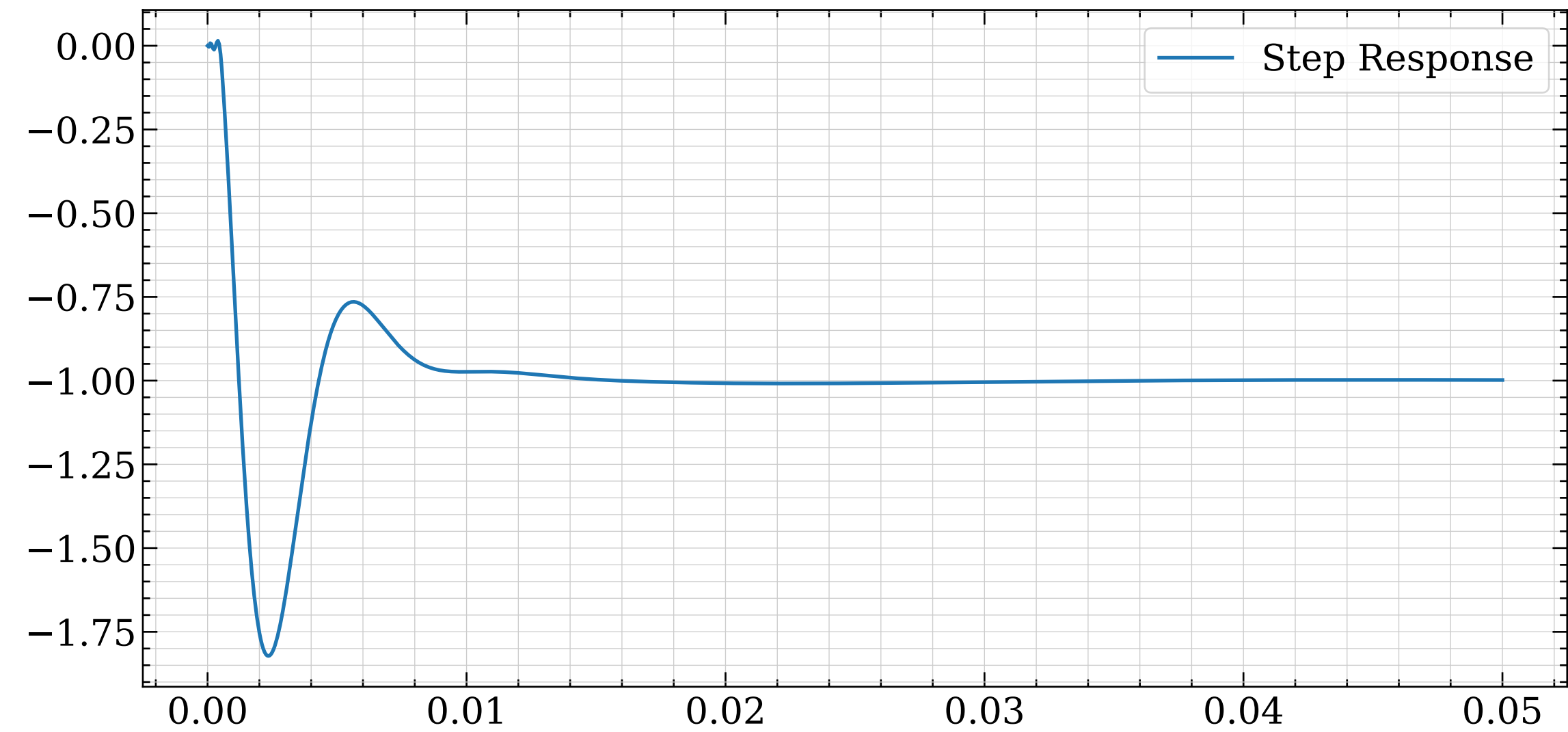
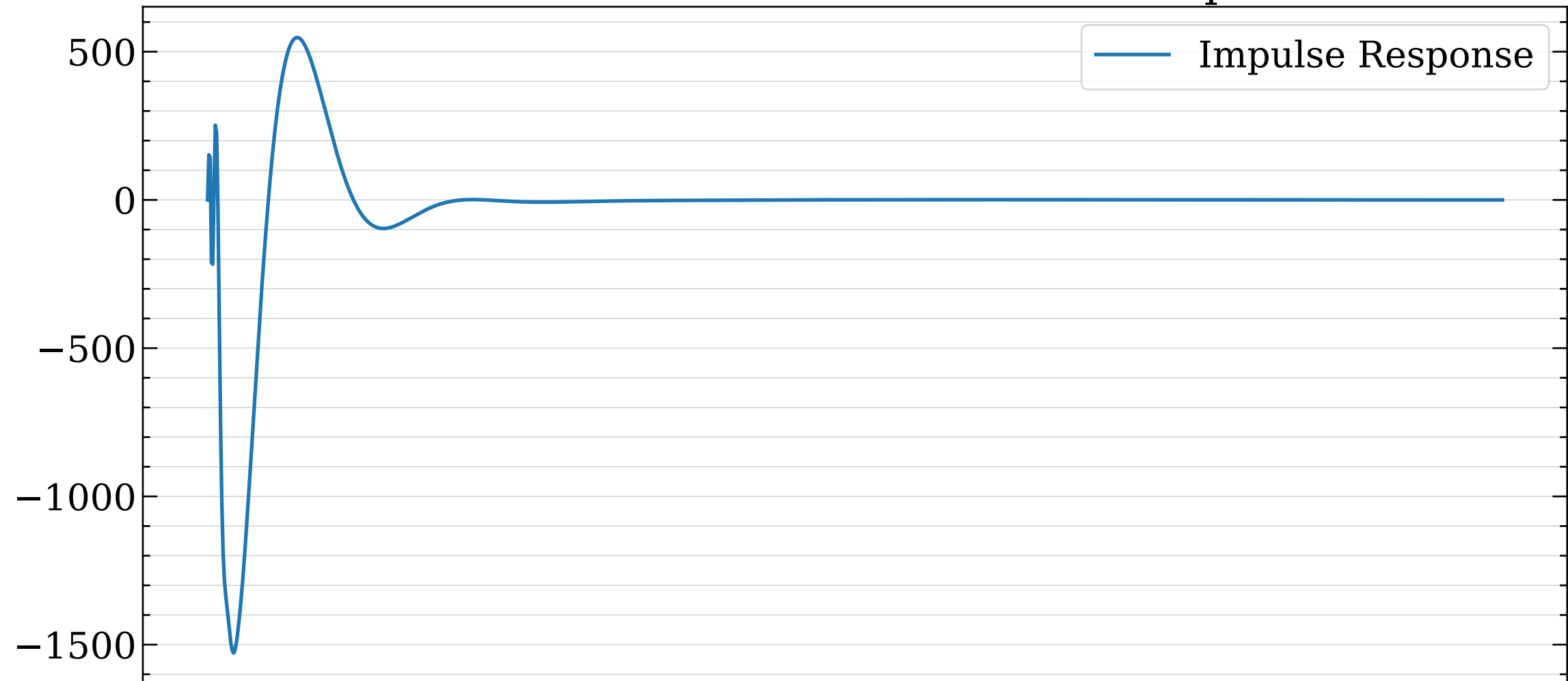
- Suspension Thermal
- - Seismic
- · - Coatings Brownian
- · - Coatings ThermoOptic
- AUX Res. Freq.
- PSL Res. Freq.
- SHG PSL
- SHG AUX
- Beat PD Dark
- Beat PD Shot
- DFD
- ADC
- DAC
- Total
- - - RMS



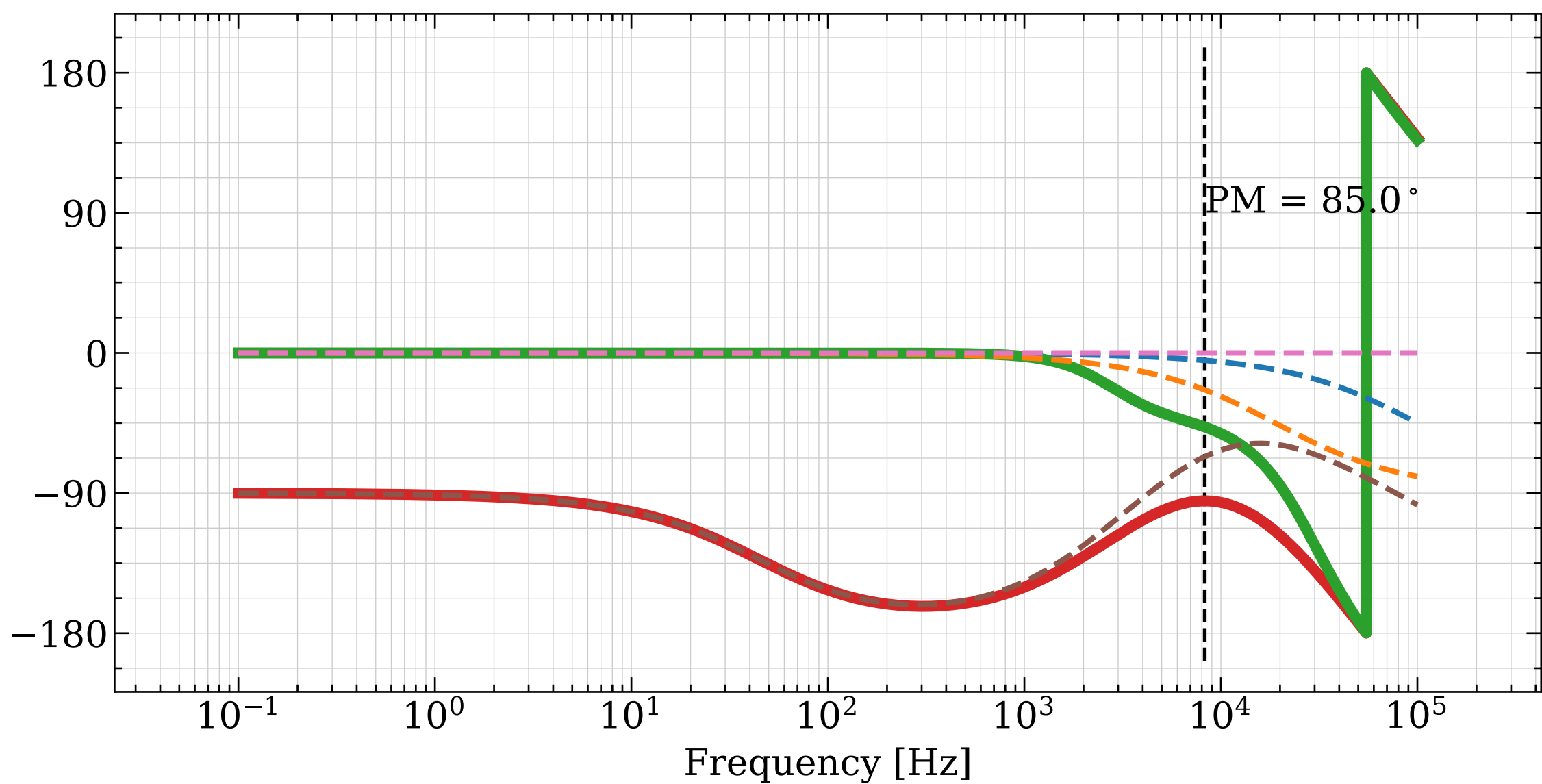
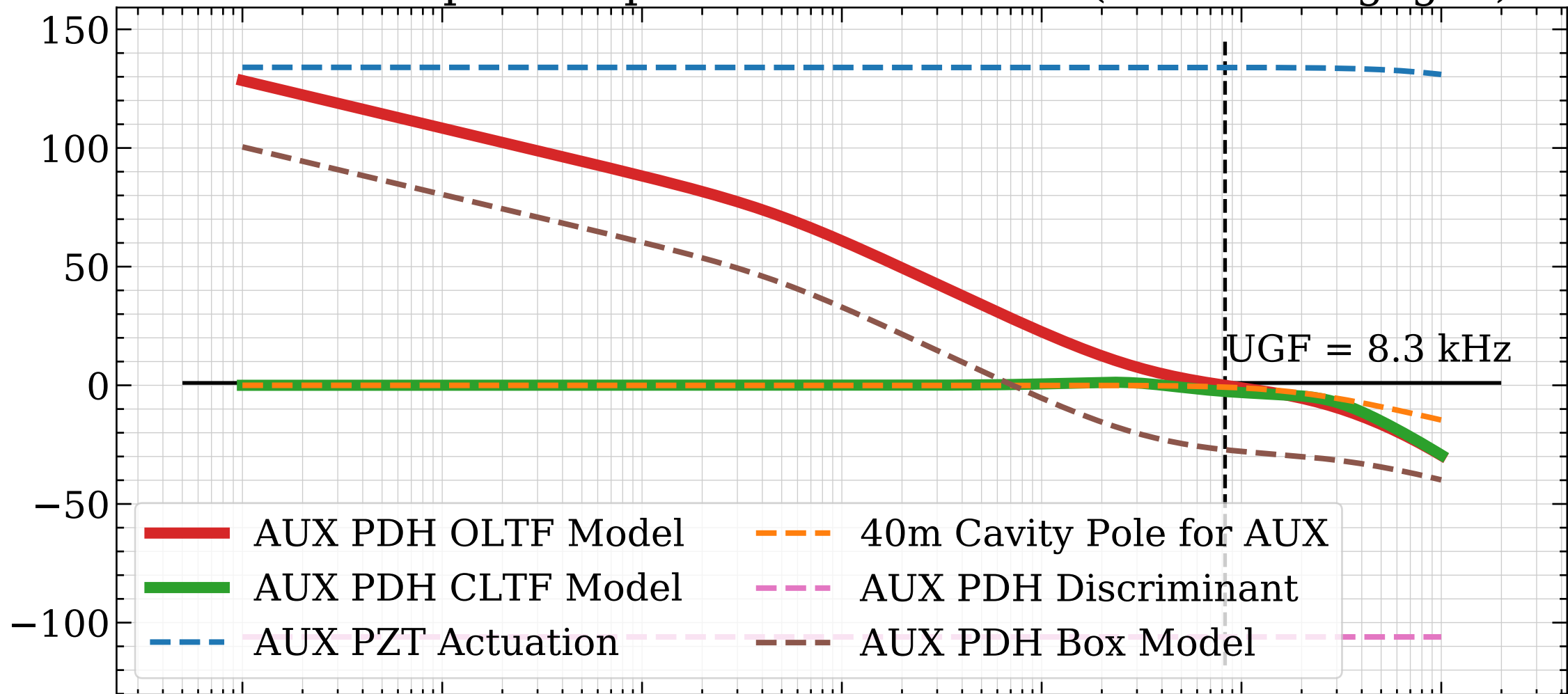
ALS Control Model Transfer Functions



ALS Control Model Time Domain Response



AUX PDH Open Loop Transfer Function (ALS not engaged)



AUX PDH Loop Control Model Time Domain Response

