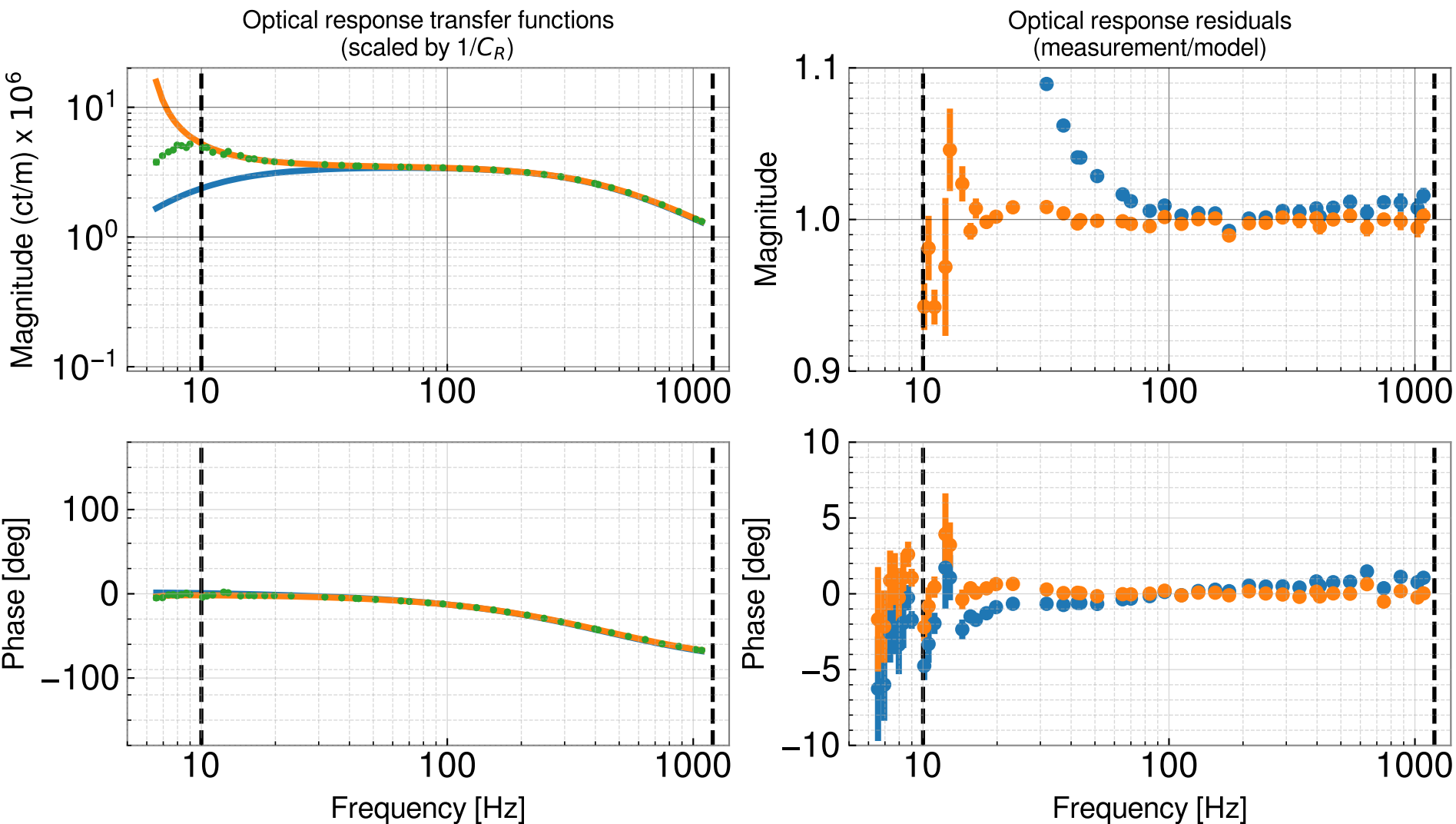
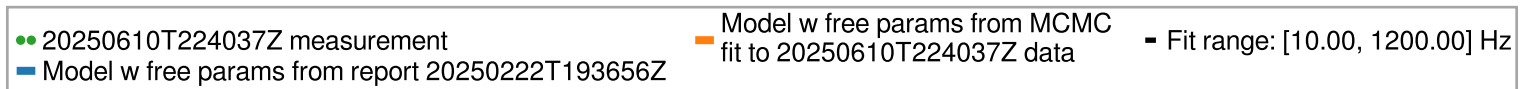


H1 sensing model MCMC summary

All fixed parameters drawn from 20250610T224009Z/pydarm_H1.ini

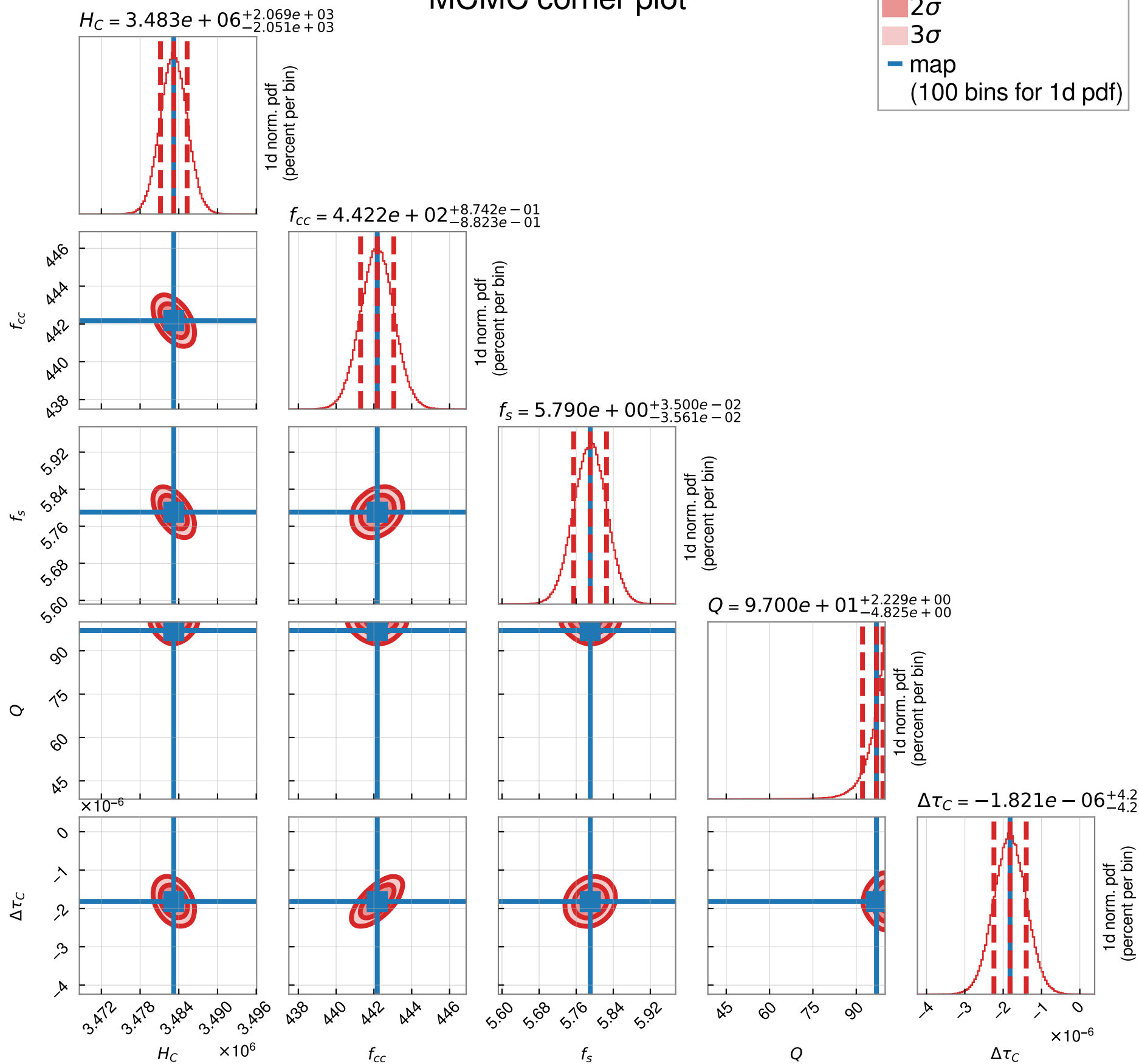


Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.483e+06	2069 (0.06%)	2051 (0.06%)
Cavity_pole, f_cc (Hz)	442.2	0.8742 (0.20%)	0.8823 (0.20%)
Detuned SRC spring frequency, f_s (Hz)	5.79	0.035 (0.60%)	0.03561 (0.61%)
Detuned SRC spring quality factor, Q_s	97	2.229 (2.30%)	4.825 (4.97%)
Residual time delay, tau_c (s)	-1.821e-06	4.23e-07 (-23.23%)	4.202e-07 (-23.08%)

2d pdf contours

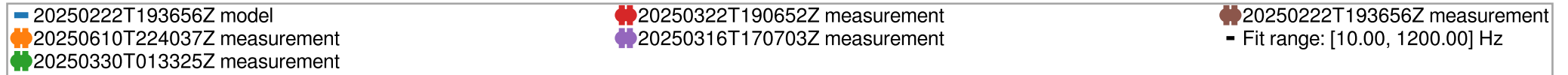
- 1σ
- 2σ
- 3σ
- map

(100 bins for 1d pdf)

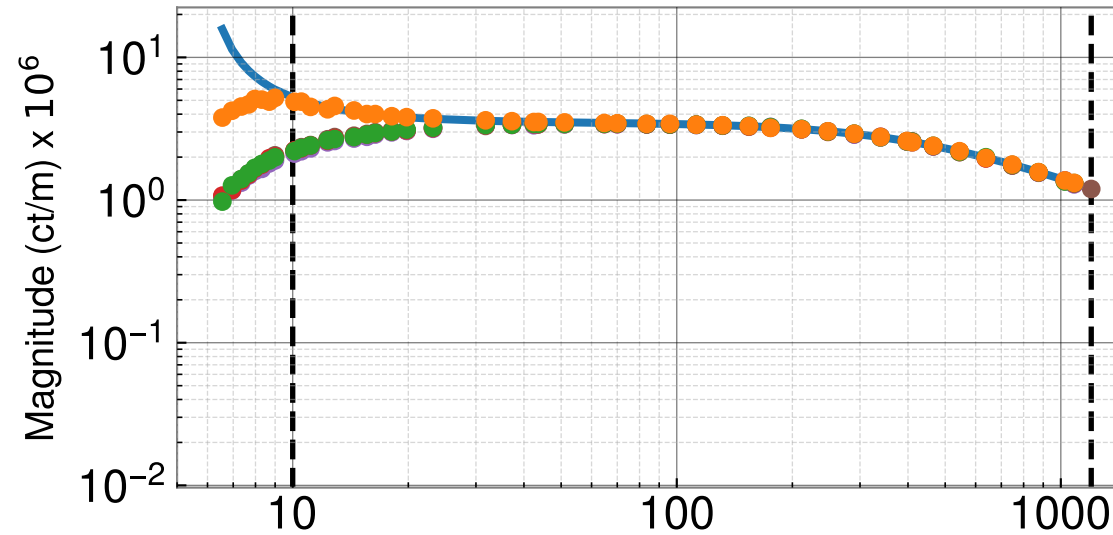


H1 sensing model history (last 9 measurements)

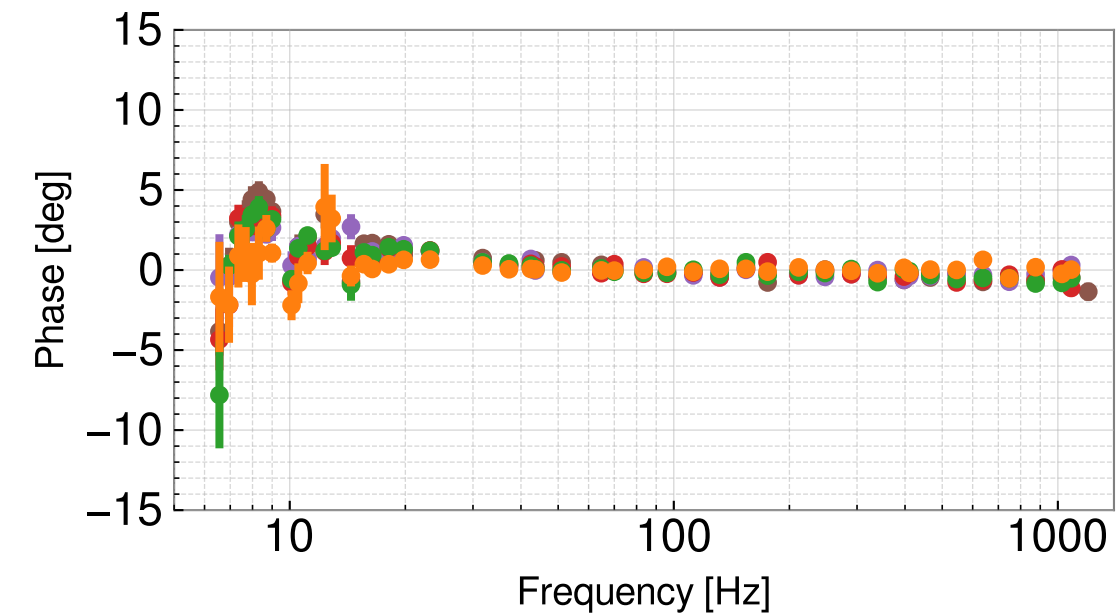
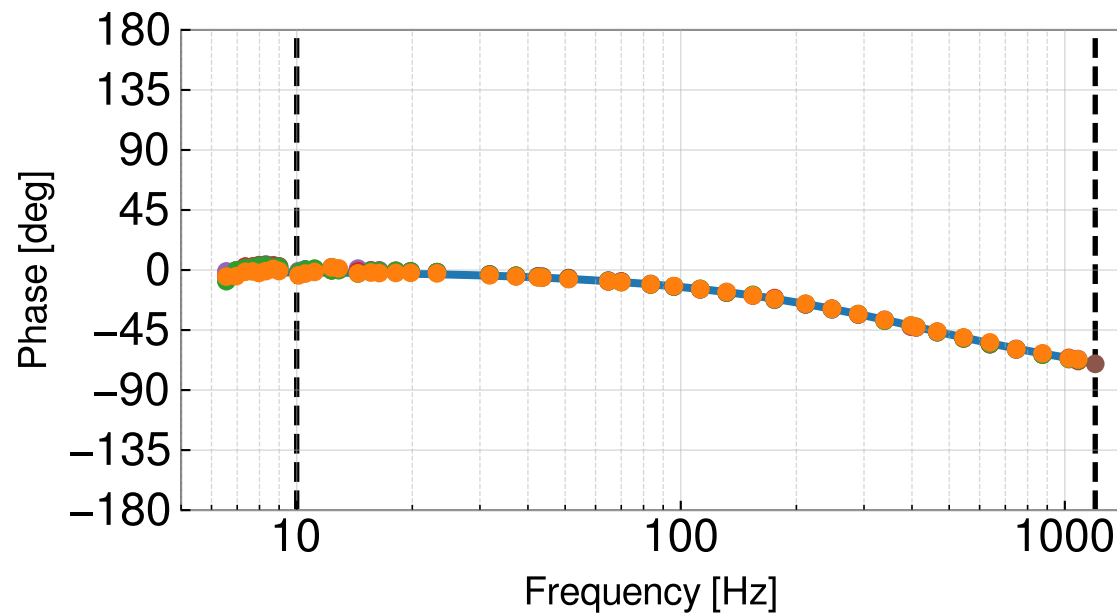
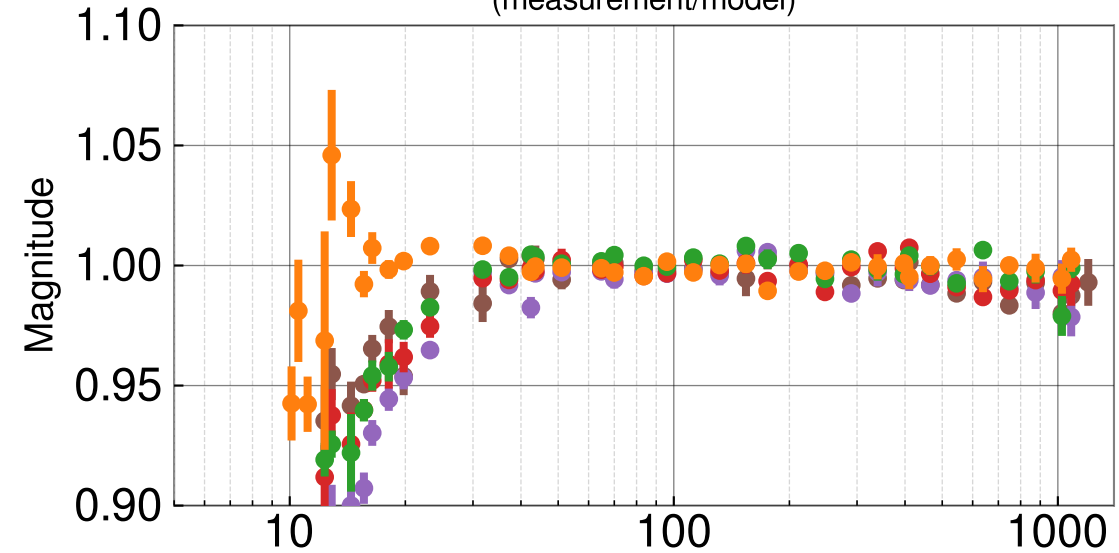
All fixed parameters drawn from 20250610T224009Z/pydarm_H1.ini



Optical response transfer functions
(scaled by $1/C_R$)

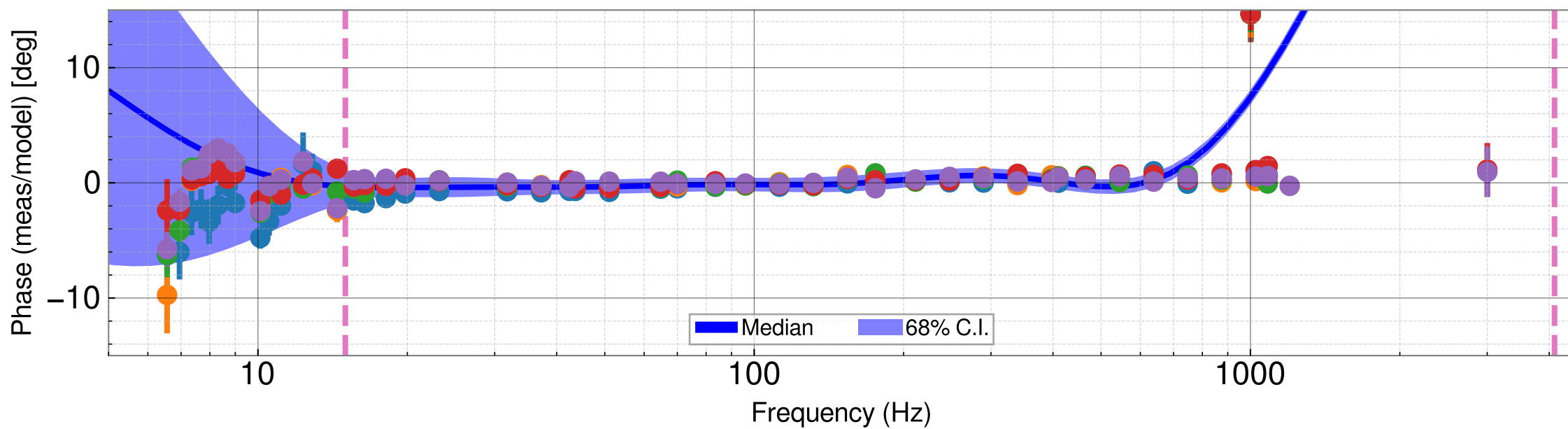
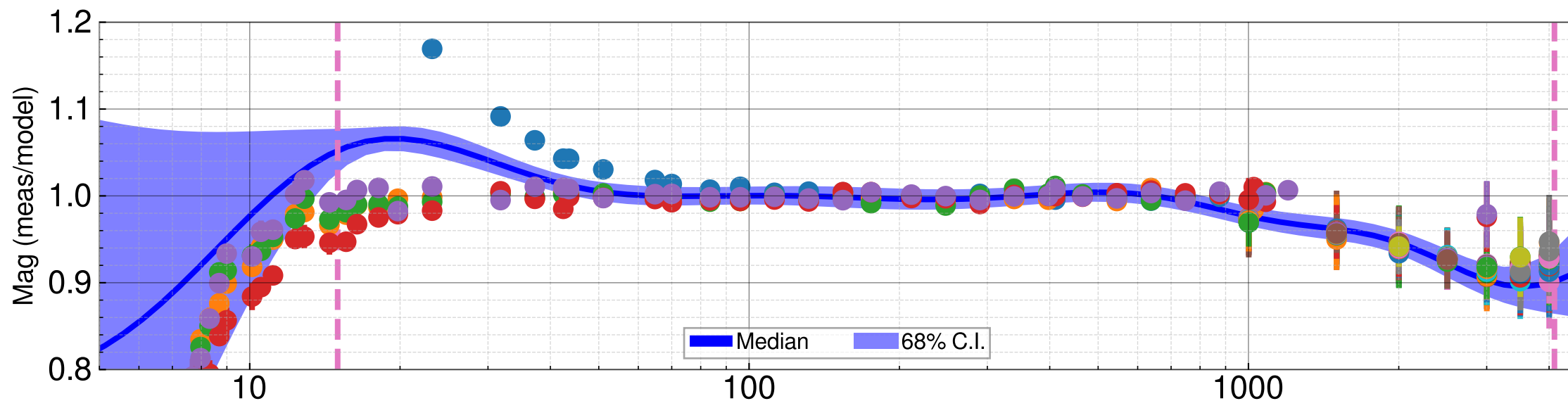


Optical response residuals
(measurement/model)



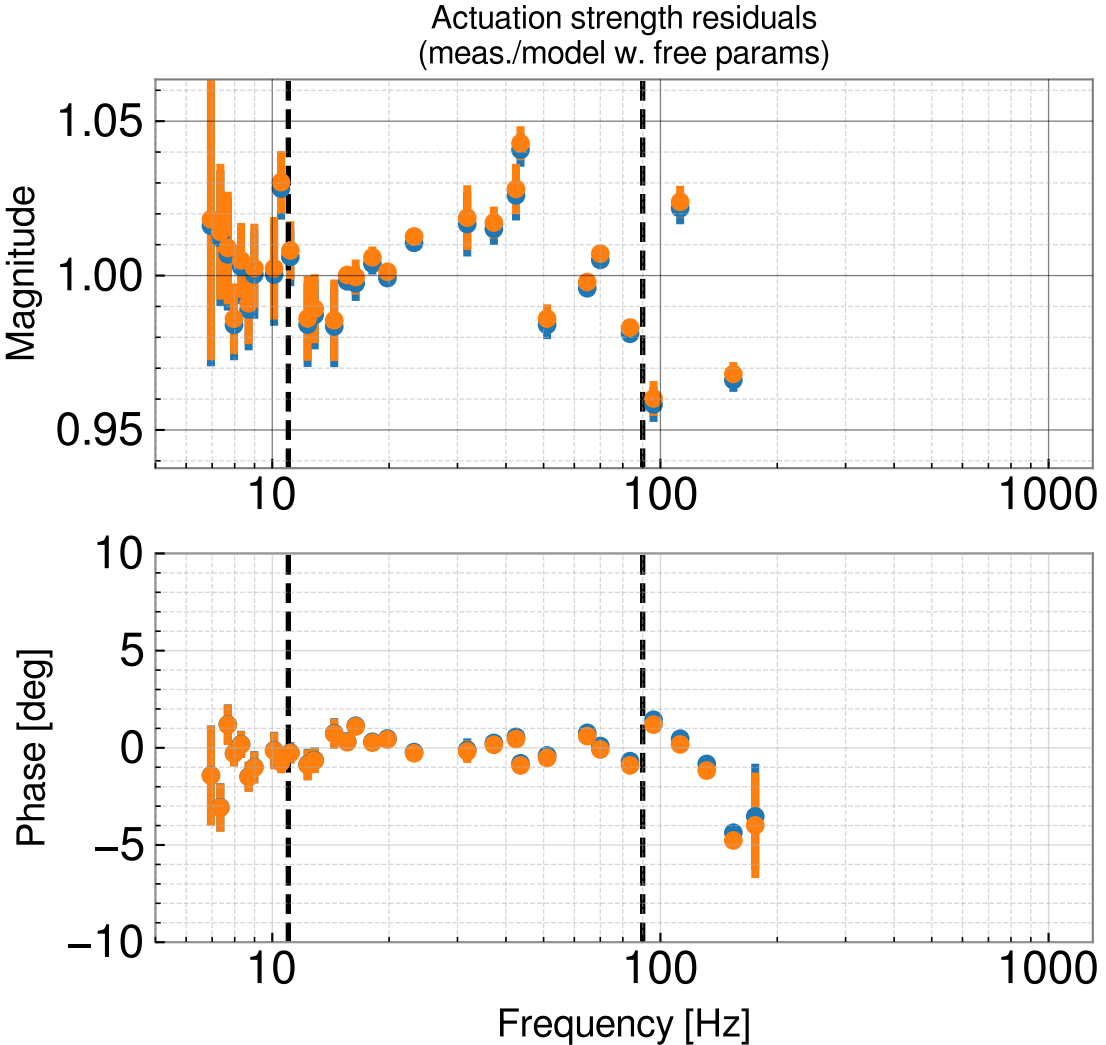
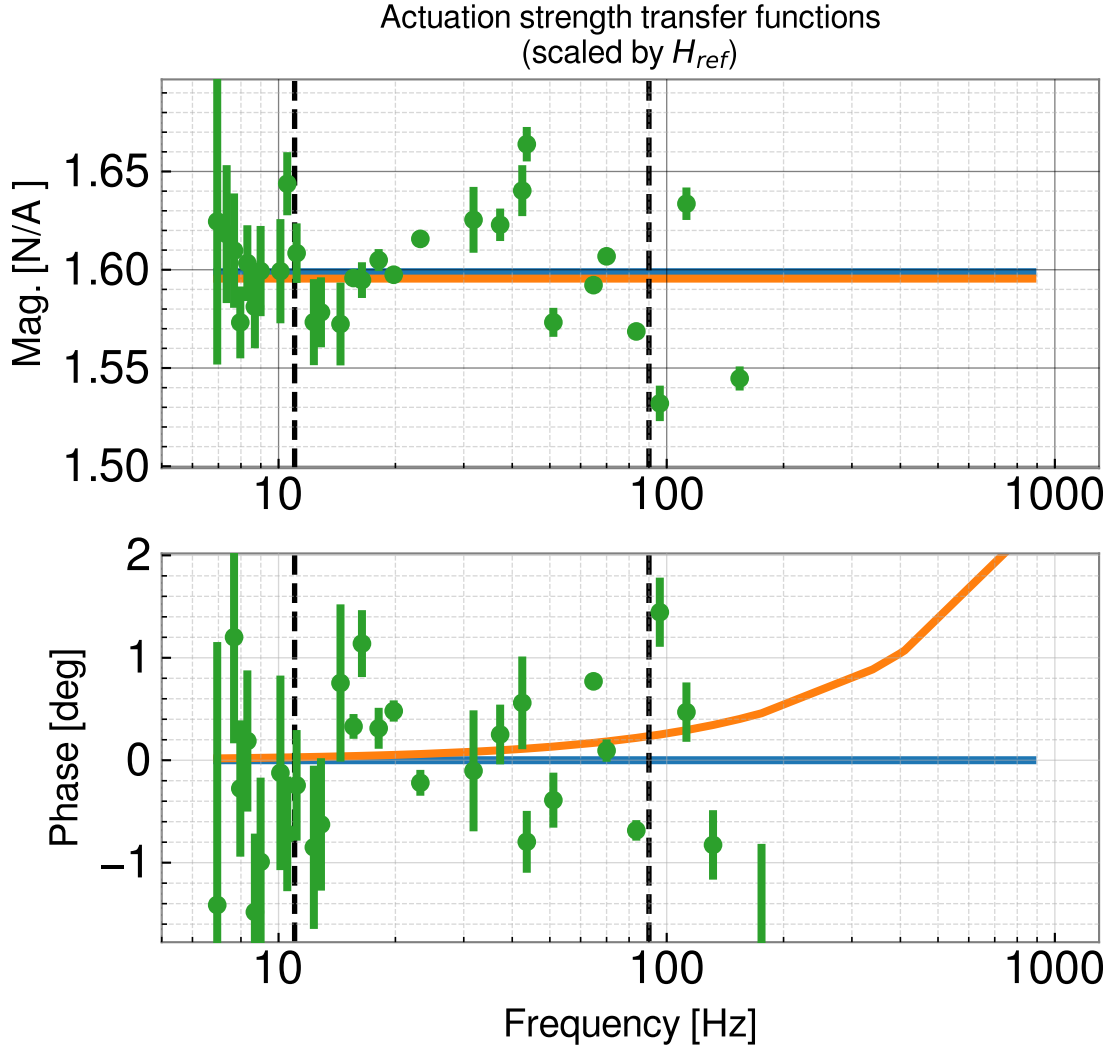
Sensing GPR

meas. 20250610T224037Z of report 20250610T224009Z meas. 20250322T190720Z of report 20250322T190652Z meas. 20250222T193724Z of report 20250222T193656Z
meas. 20250330T013352Z of report 20250330T013325Z meas. 20250316T170731Z of report 20250316T170703Z



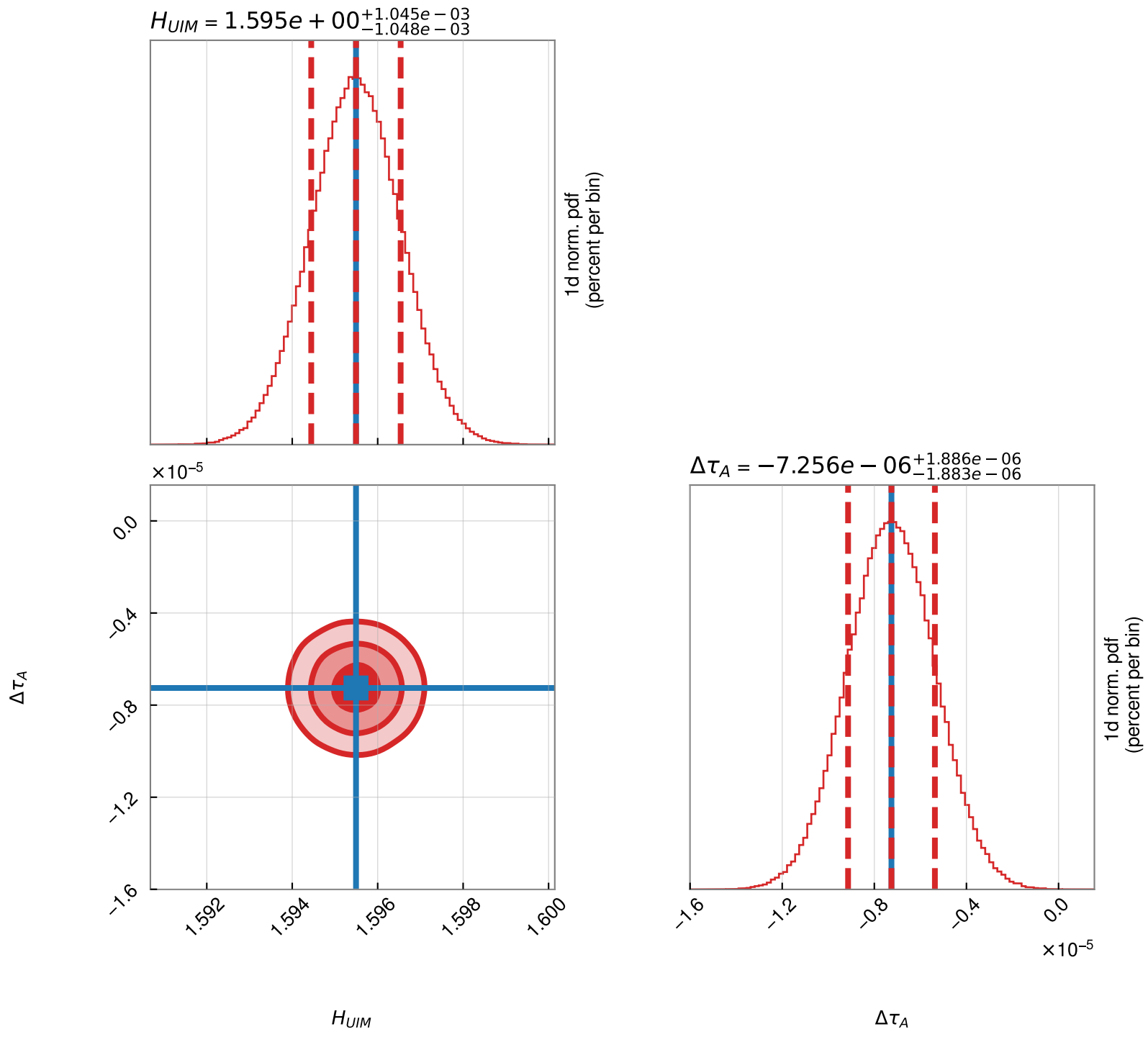
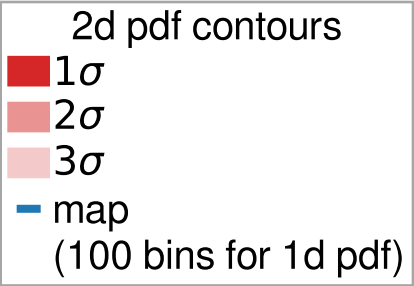
H1SUSEX L1 actuation model MCMC summary

All fixed parameters drawn from 20250610T224009Z/pydarm_H1.ini



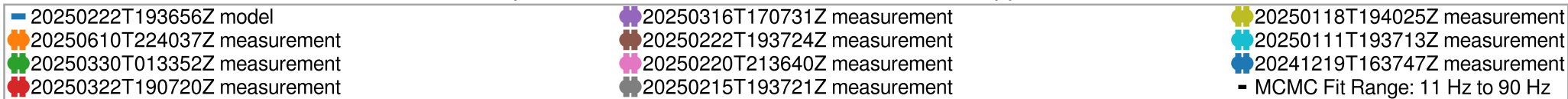
Parameter	(value +/-) value	+	-
Actuation Gain, Hau (N/A)	1.595	0.001045 (0.07%)	0.001048 (0.07%)
Residual time delay, tau_A (s)	-7.256e-06	1.886e-06 (-26.00%)	1.883e-06 (-25.96%)

20250610T224037Z EX L1 actuation
MCMC corner plot

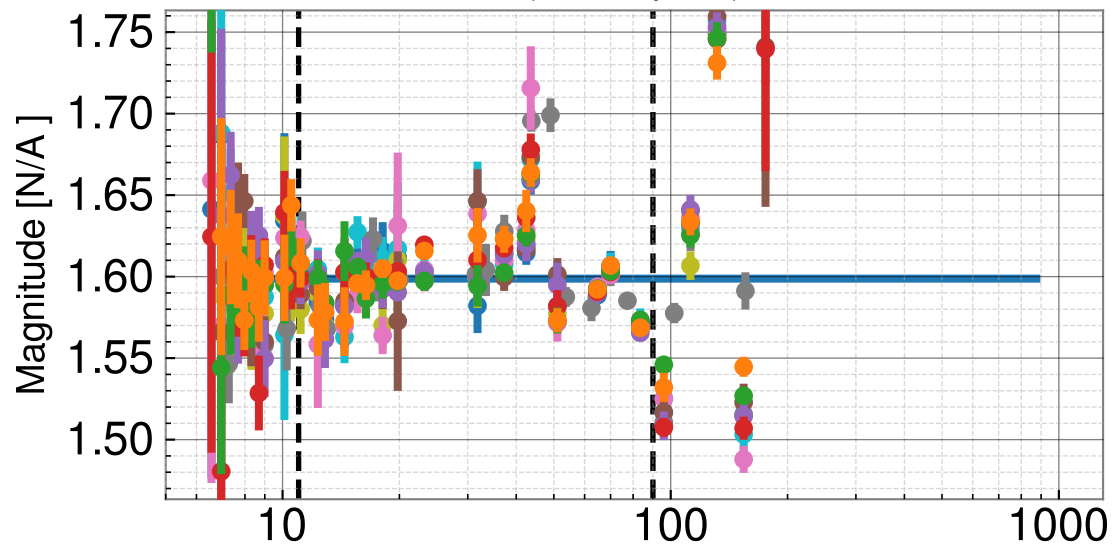


H1SUSEX L1 actuation model history (last 9 measurements)

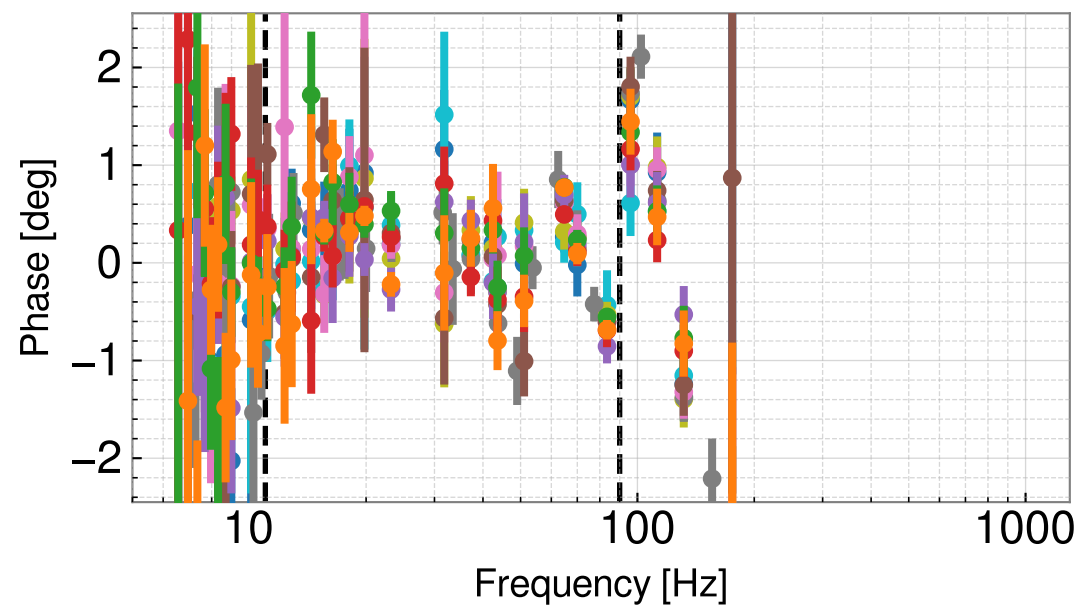
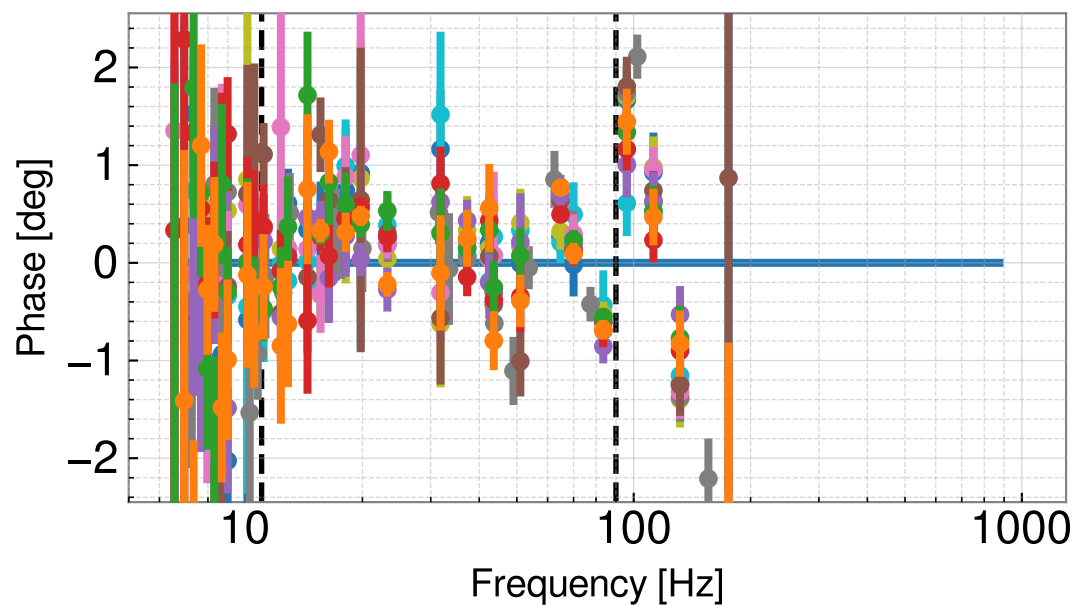
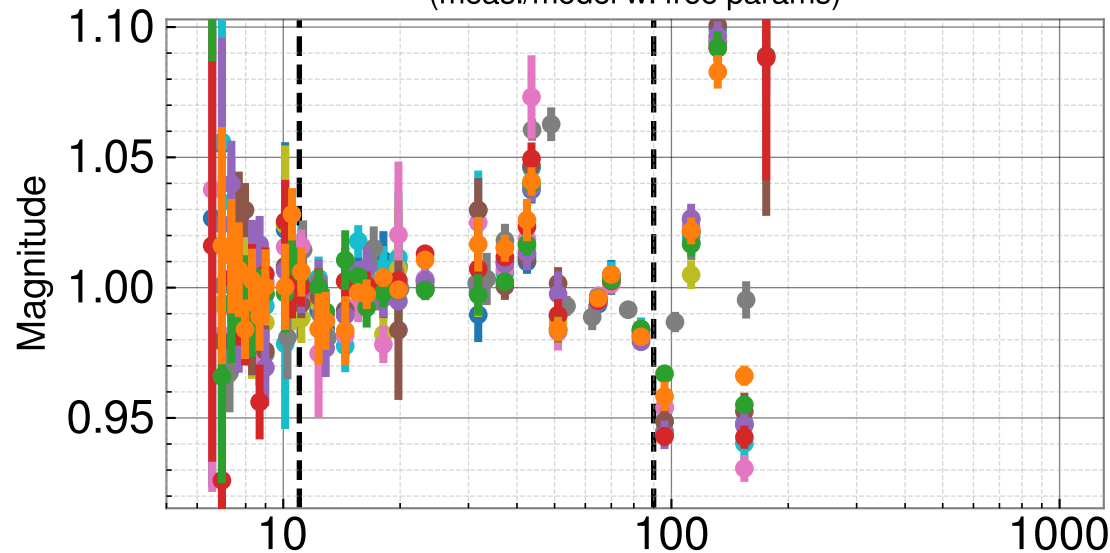
All fixed parameters drawn from 20250610T224009Z/pydarm_H1.ini



Actuation strength transfer functions
(scaled by H_{ref})

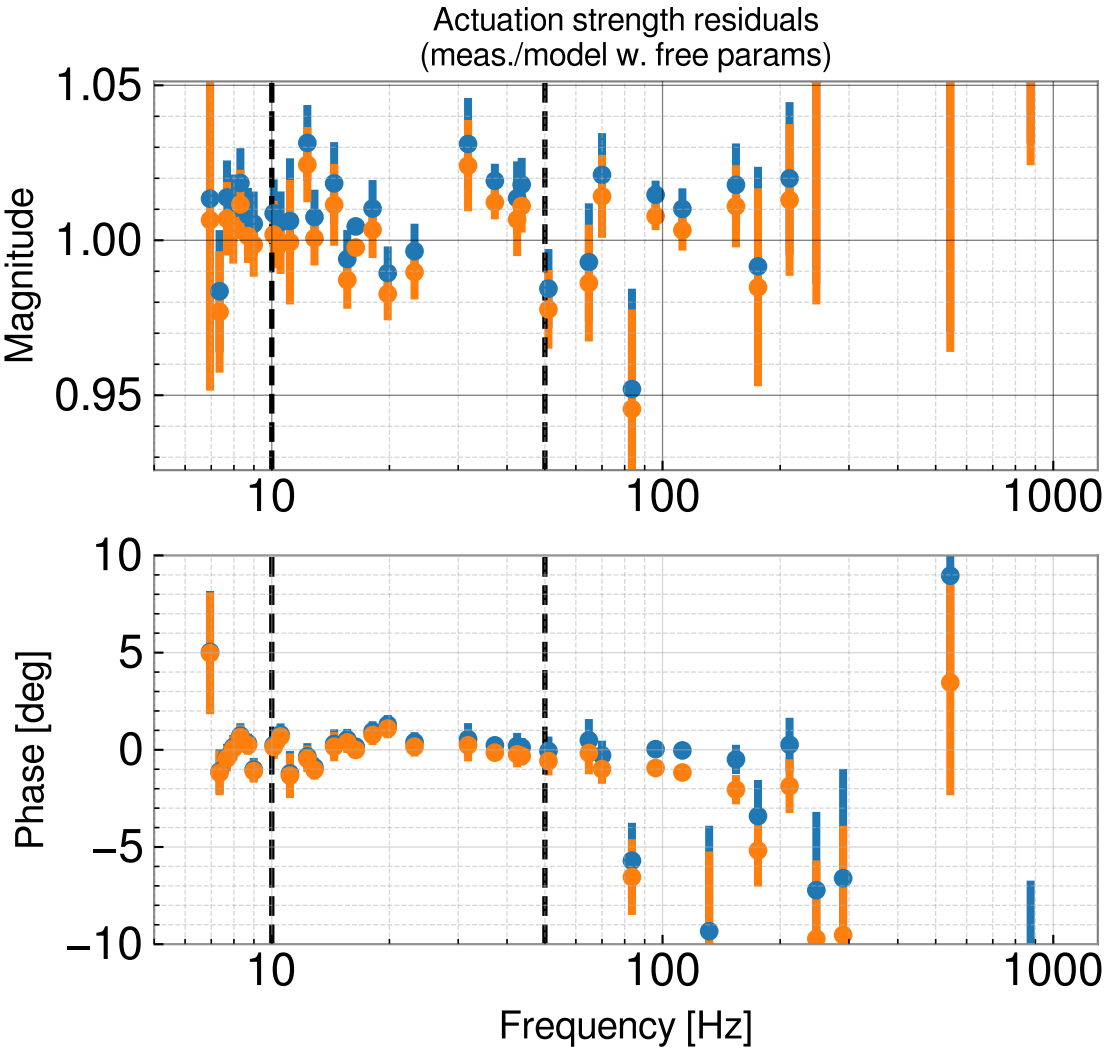
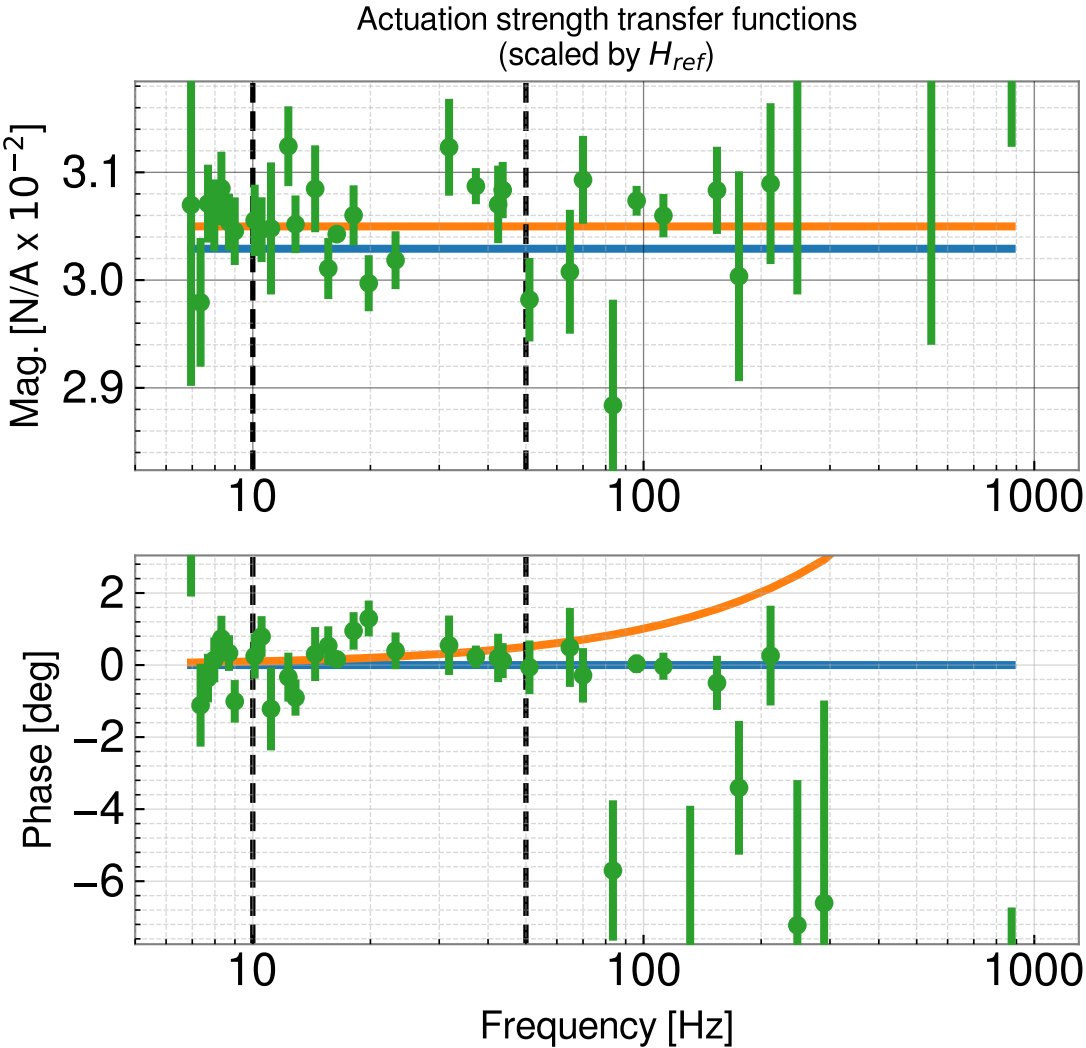


Actuation strength residuals
(meas./model w. free params)



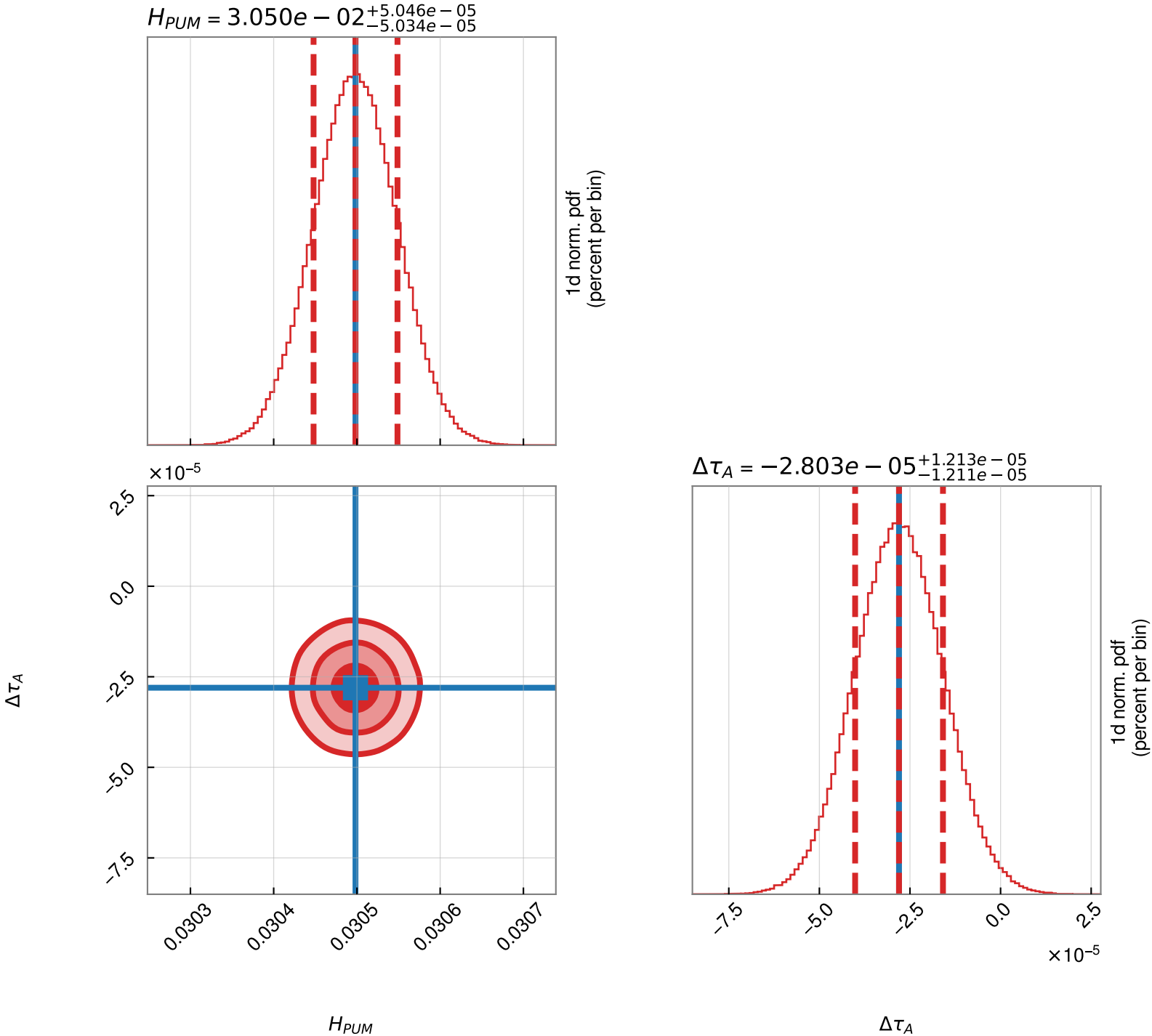
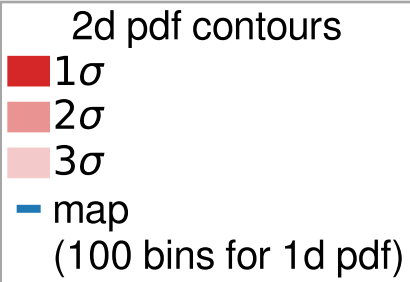
H1SUSEX L2 actuation model MCMC summary

All fixed parameters drawn from 20250610T224009Z/pydarm_H1.ini



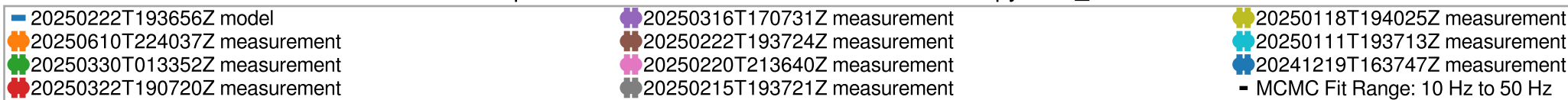
Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.0305	5.046e-05 (0.17%)	5.034e-05 (0.17%)
Residual time delay, tau_A (s)	-2.803e-05	1.213e-05 (-43.28%)	1.211e-05 (-43.20%)

20250610T224037Z EX L2 actuation
MCMC corner plot

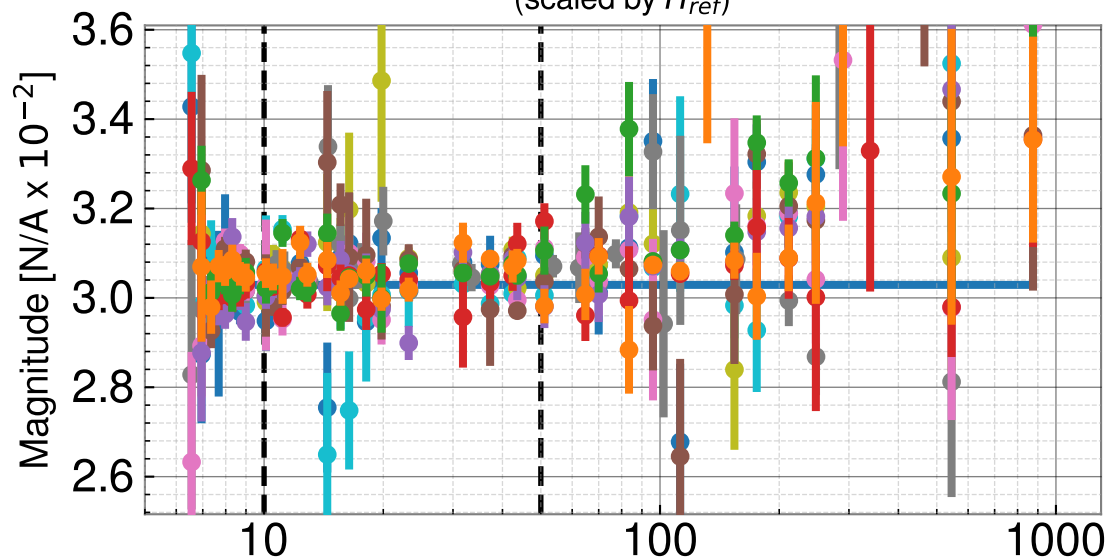


H1SUSEX L2 actuation model history (last 9 measurements)

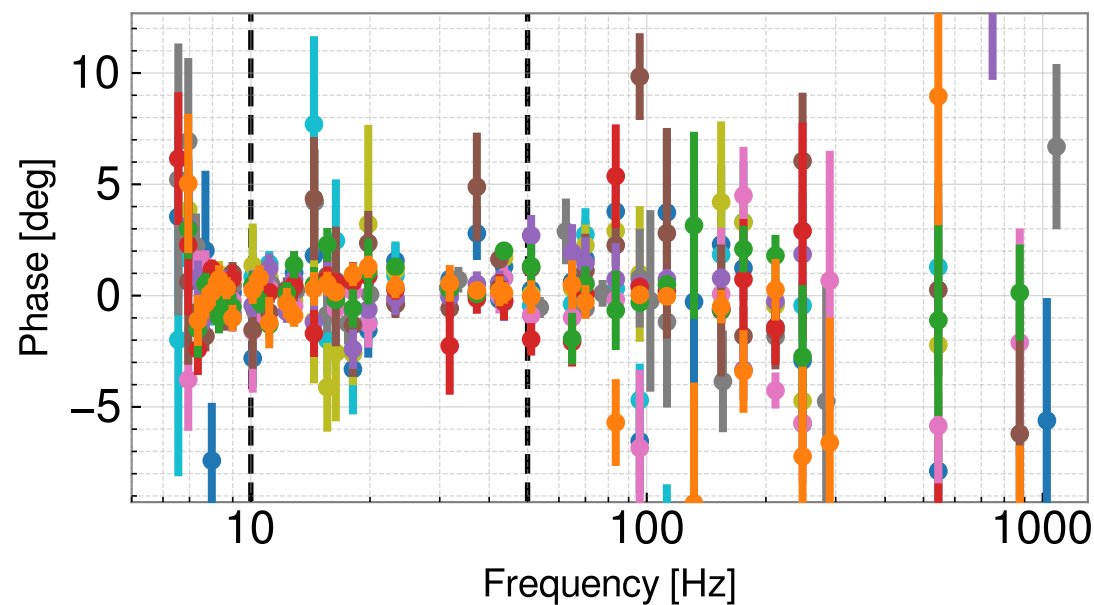
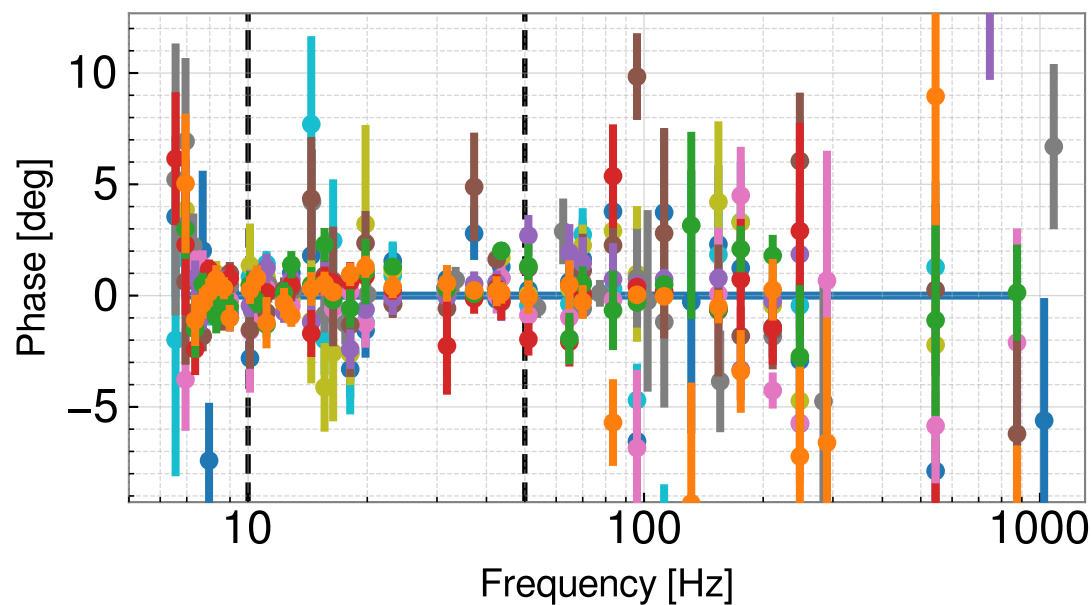
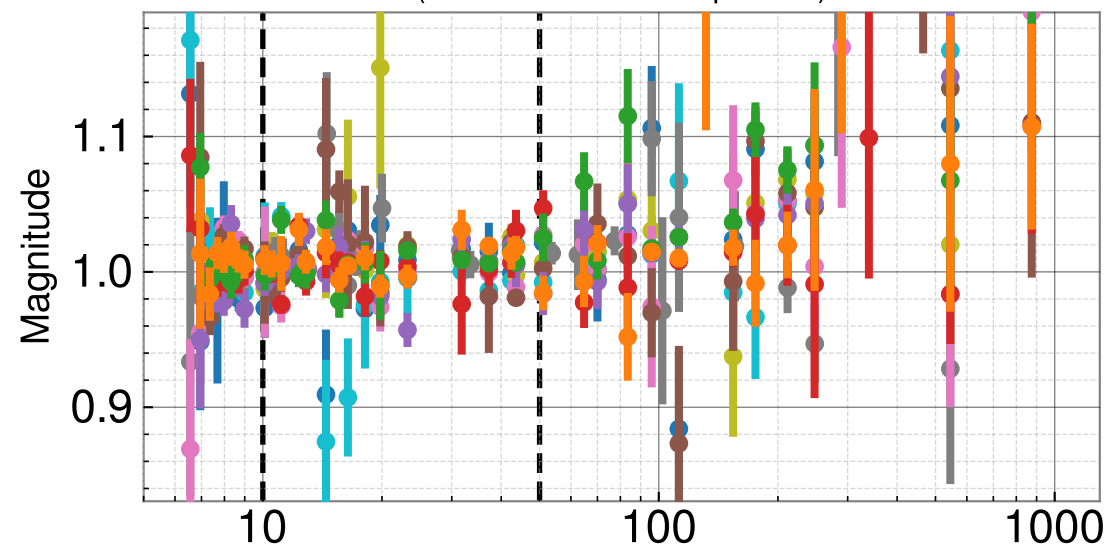
All fixed parameters drawn from 20250610T224009Z/pydarm_H1.ini



Actuation strength transfer functions
(scaled by H_{ref})



Actuation strength residuals
(meas./model w. free params)

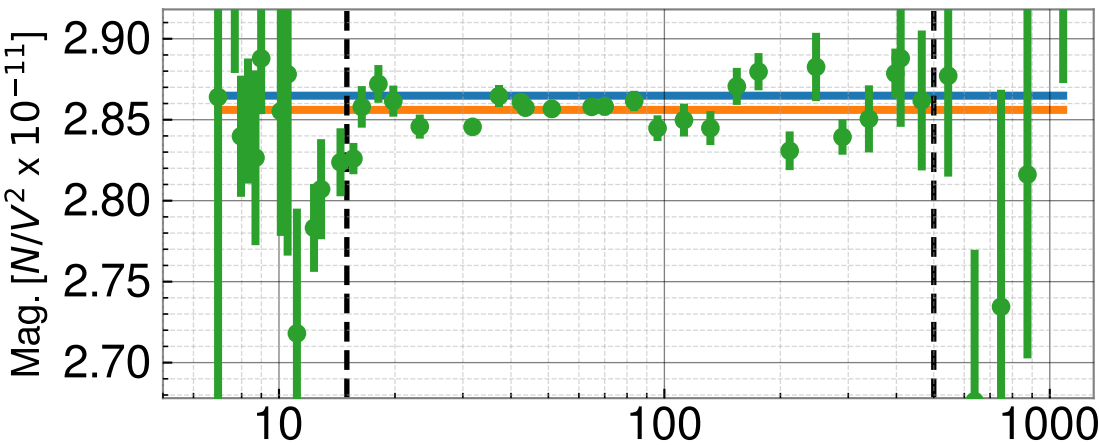


H1SUSEX L3 actuation model MCMC summary

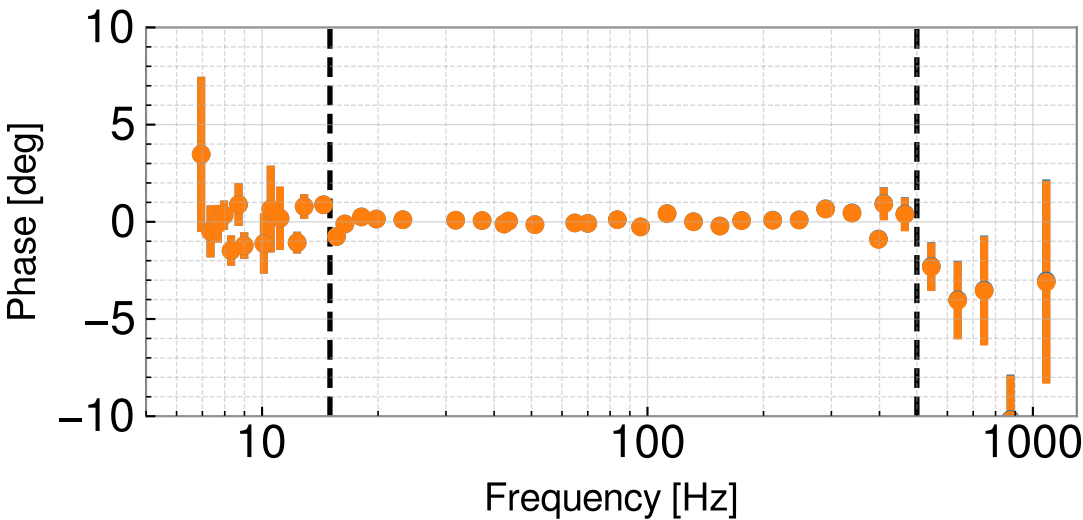
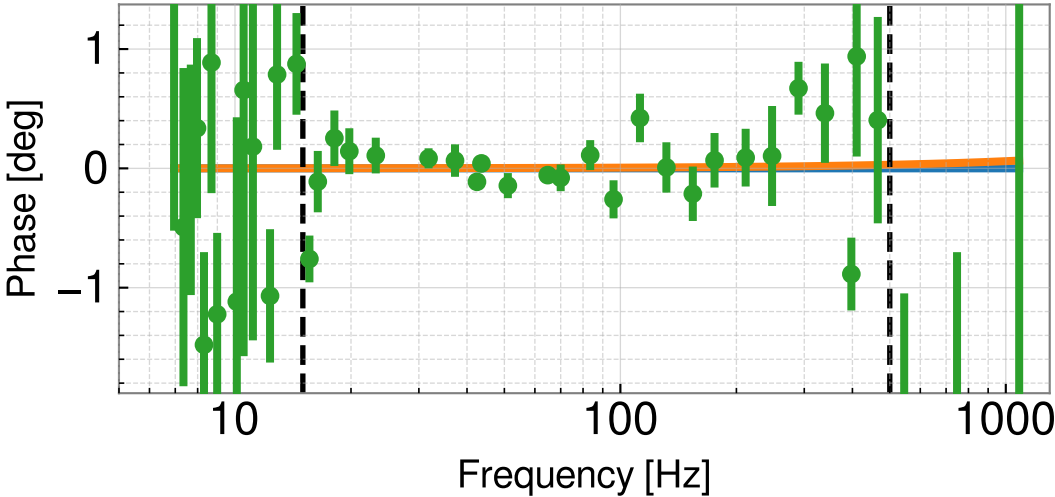
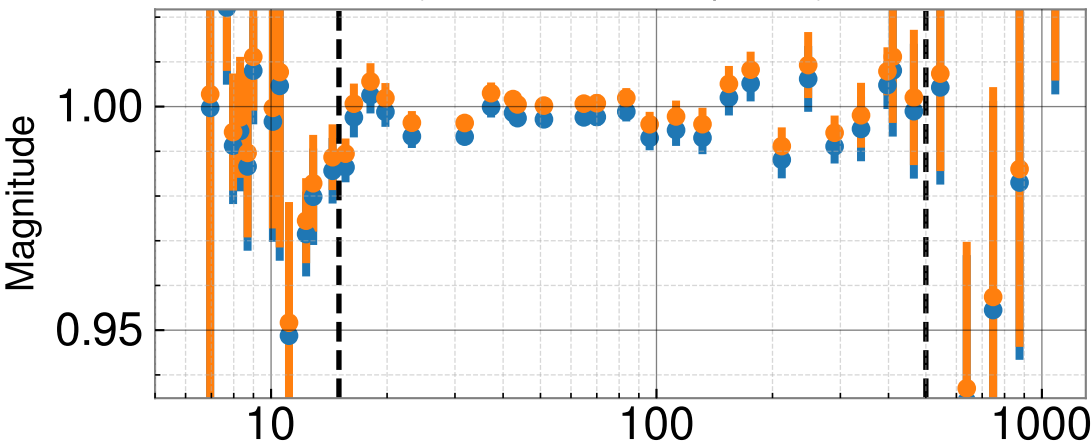
All fixed parameters drawn from 20250610T224009Z/pydarm_H1.ini



Actuation strength transfer functions
(scaled by H_{ref})

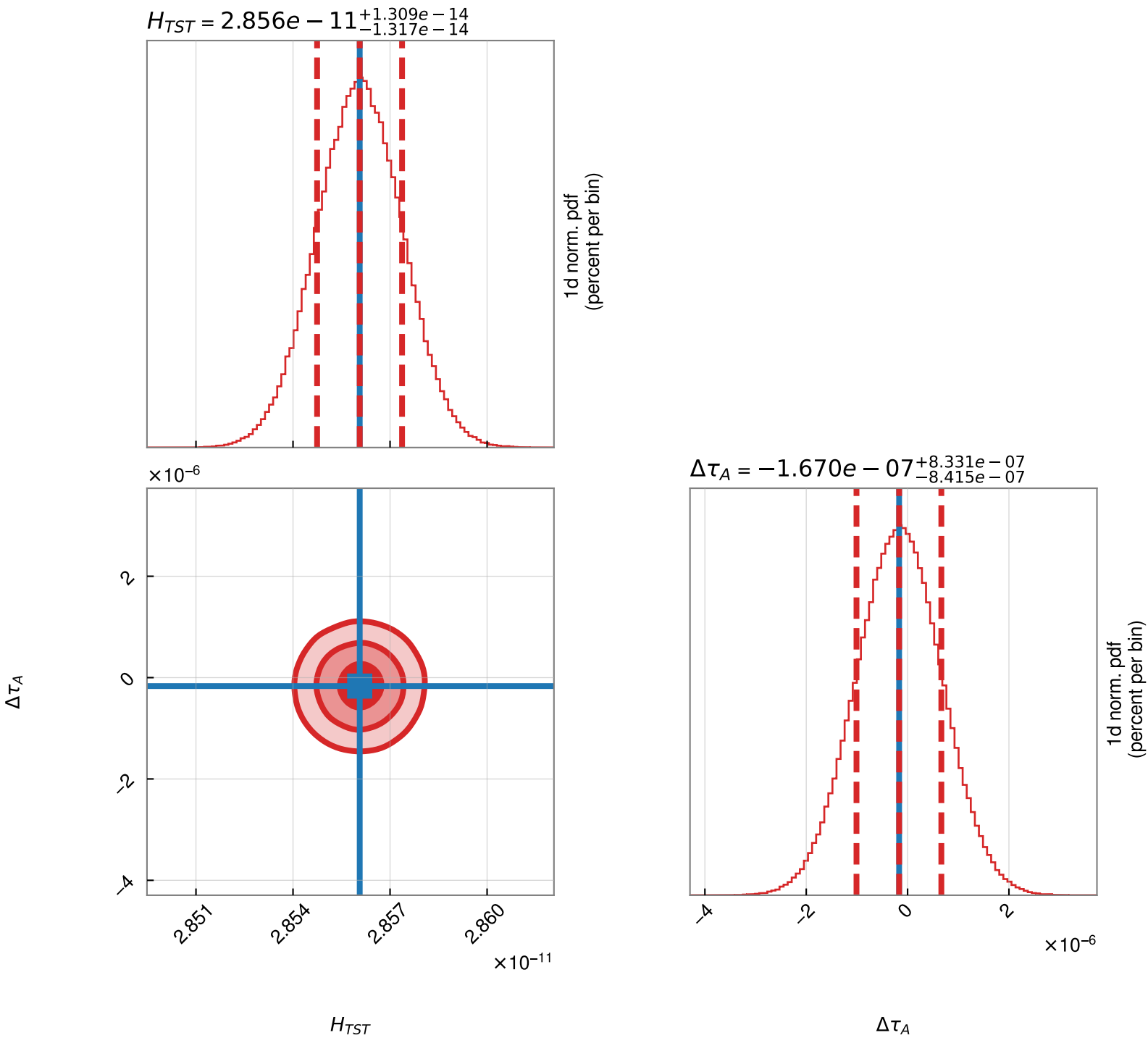
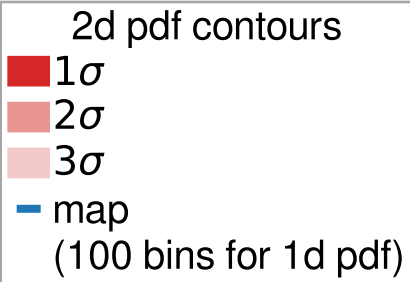


Actuation strength residuals
(meas./model w. free params)



Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V^{**2})	2.856e-11	1.309e-14 (0.05%)	1.317e-14 (0.05%)
Residual time delay, tau_A (s)	-1.67e-07	8.331e-07 (-499.01%)	8.415e-07 (-504.06%)

20250610T224037Z EX L3 actuation
MCMC corner plot

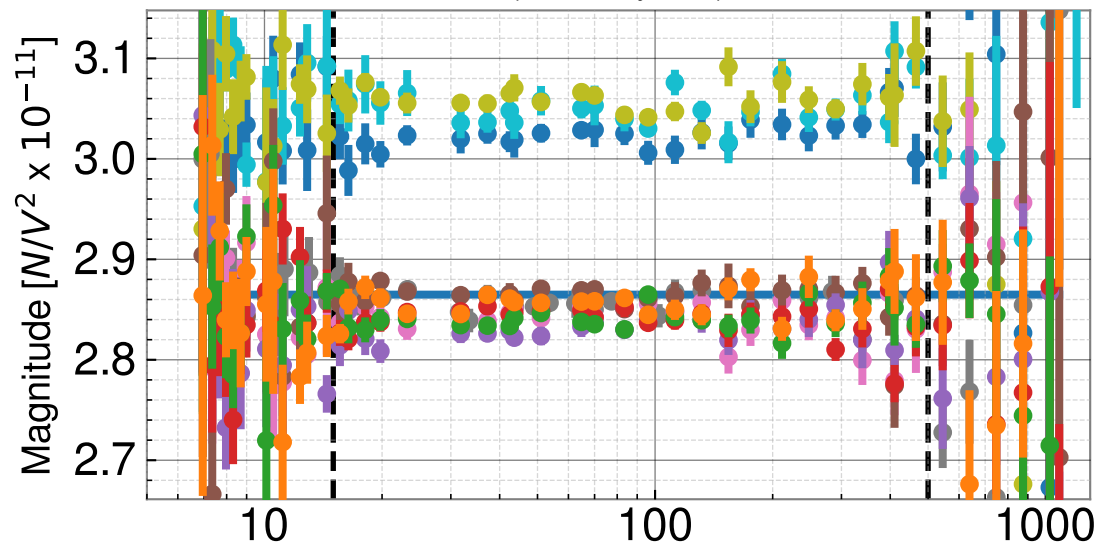


H1SUSEX L3 actuation model history (last 9 measurements)

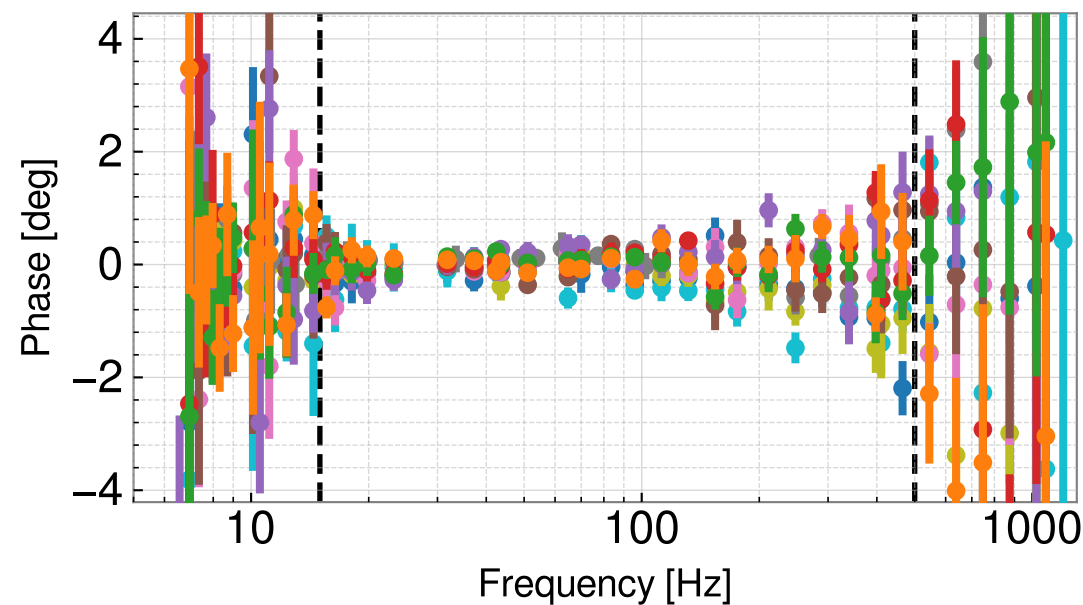
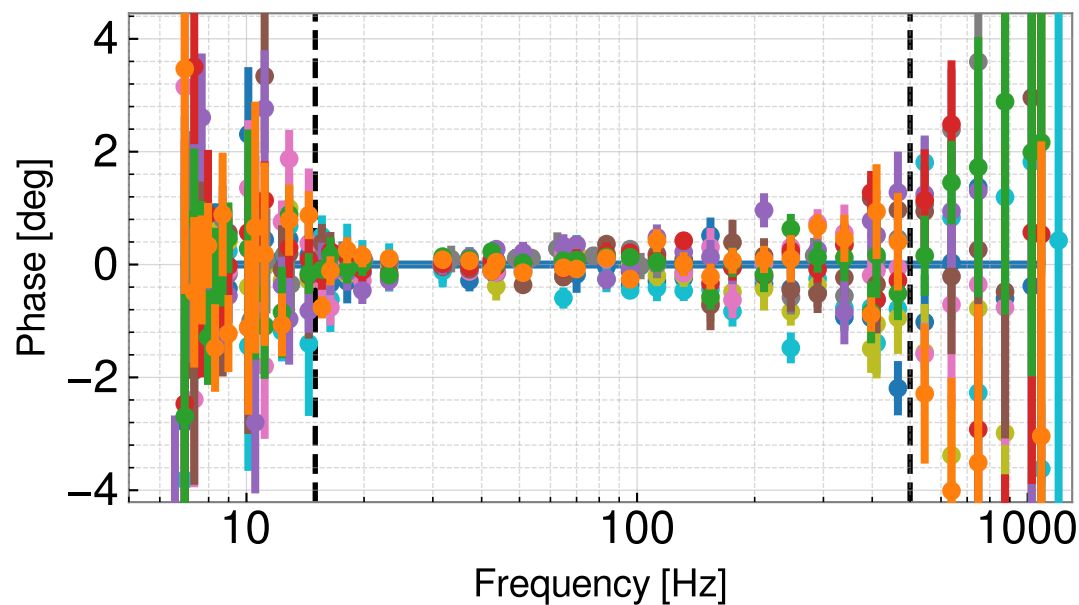
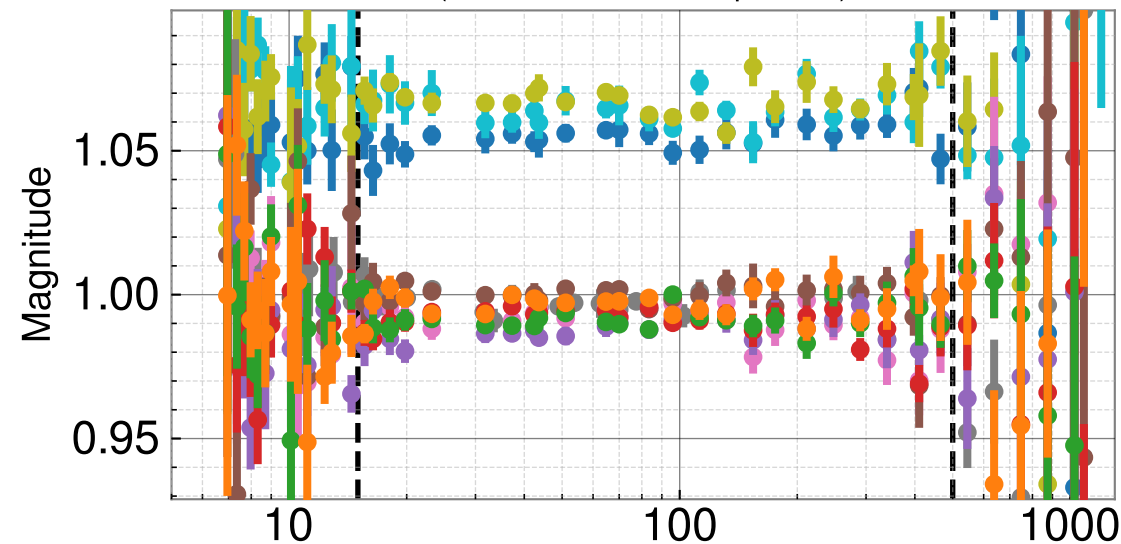
All fixed parameters drawn from 20250610T224009Z/pydarm_H1.ini



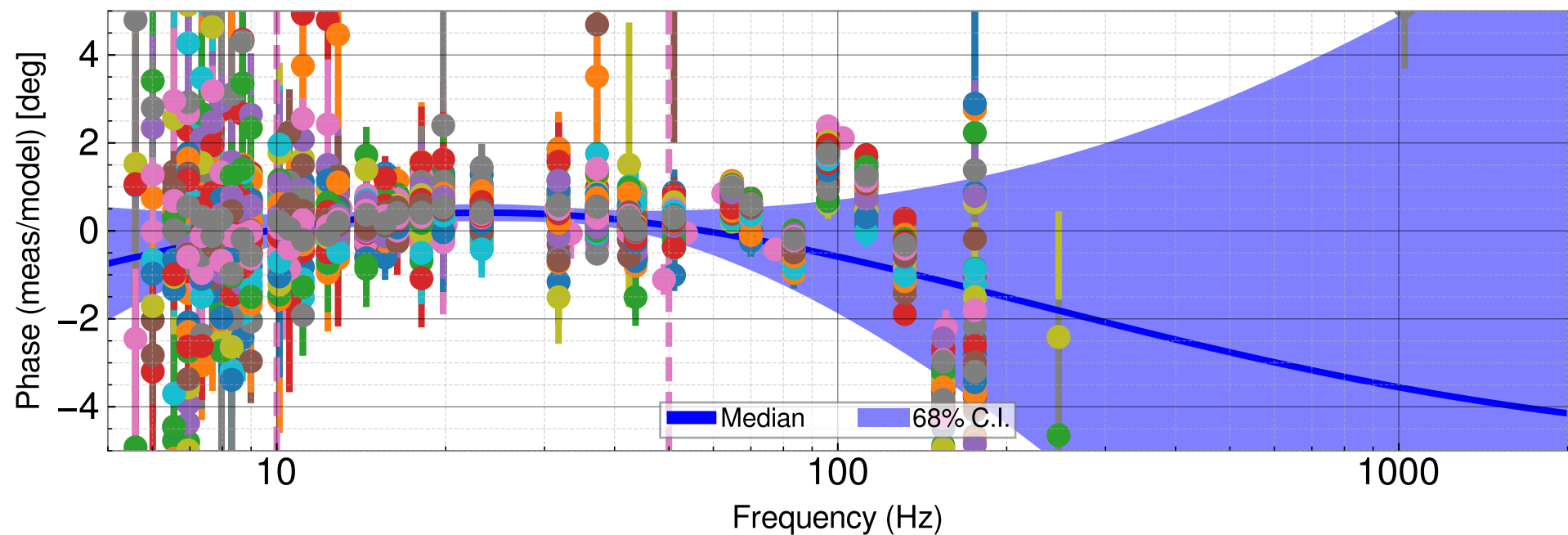
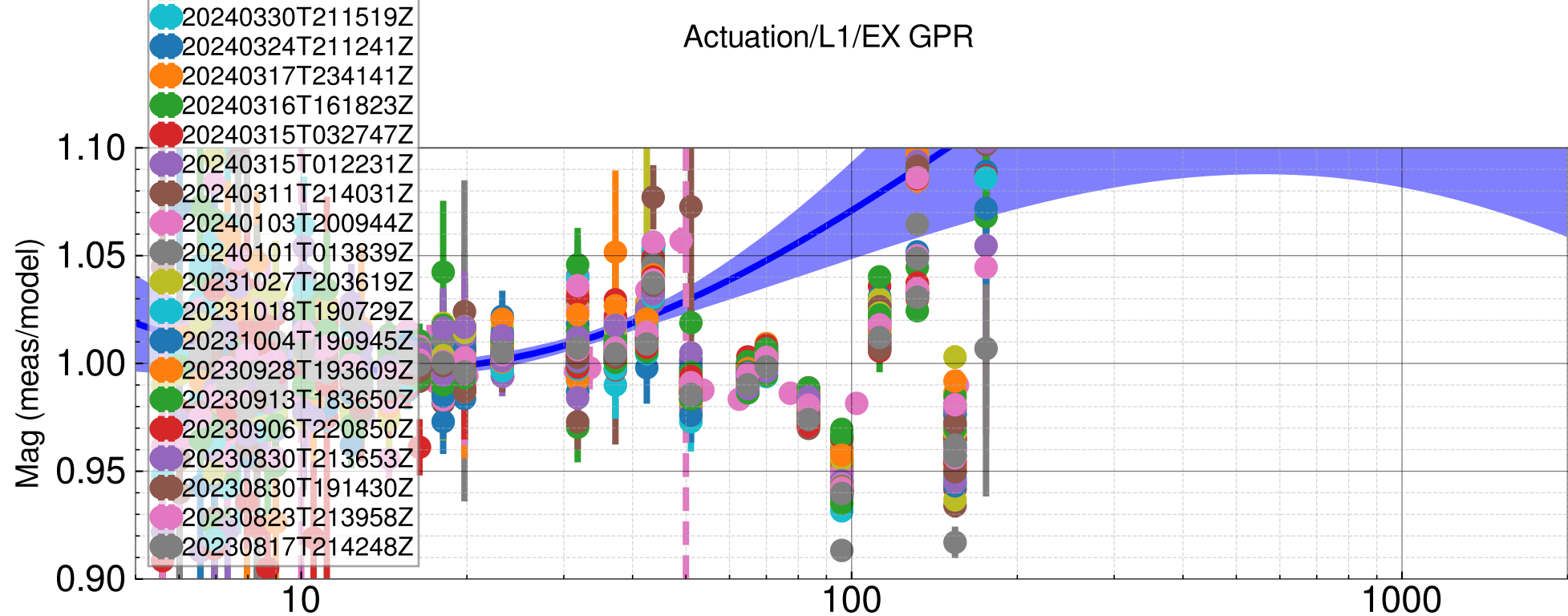
Actuation strength transfer functions
(scaled by H_{ref})



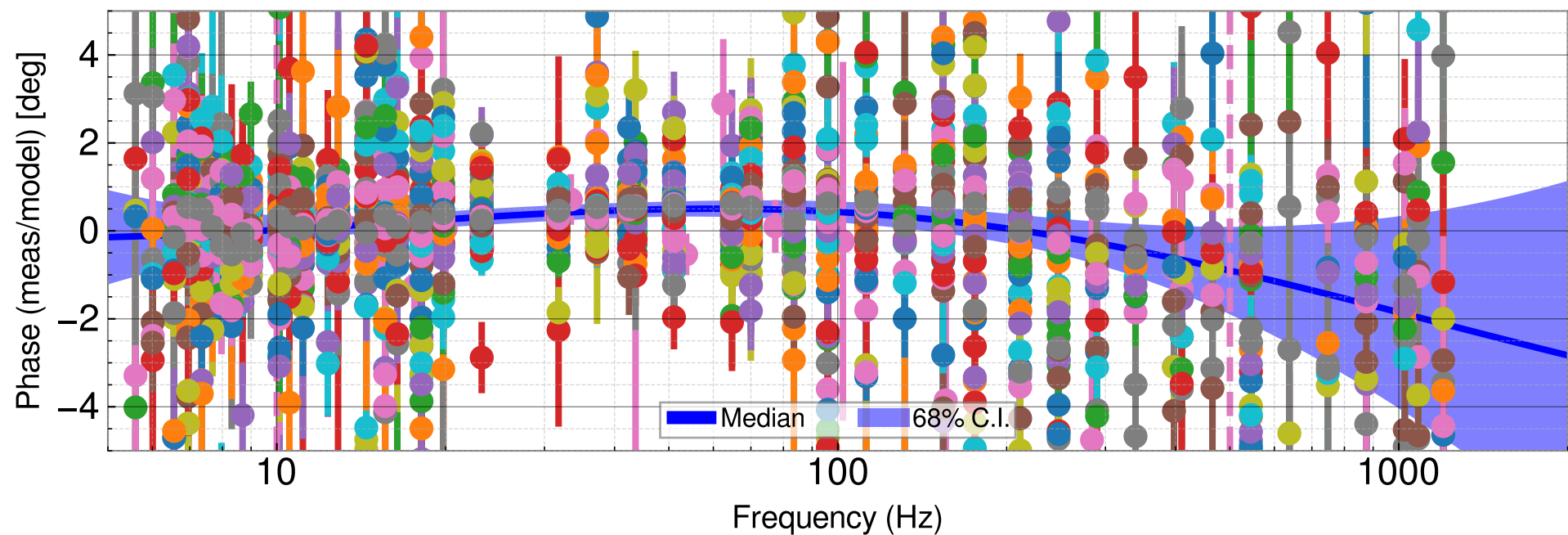
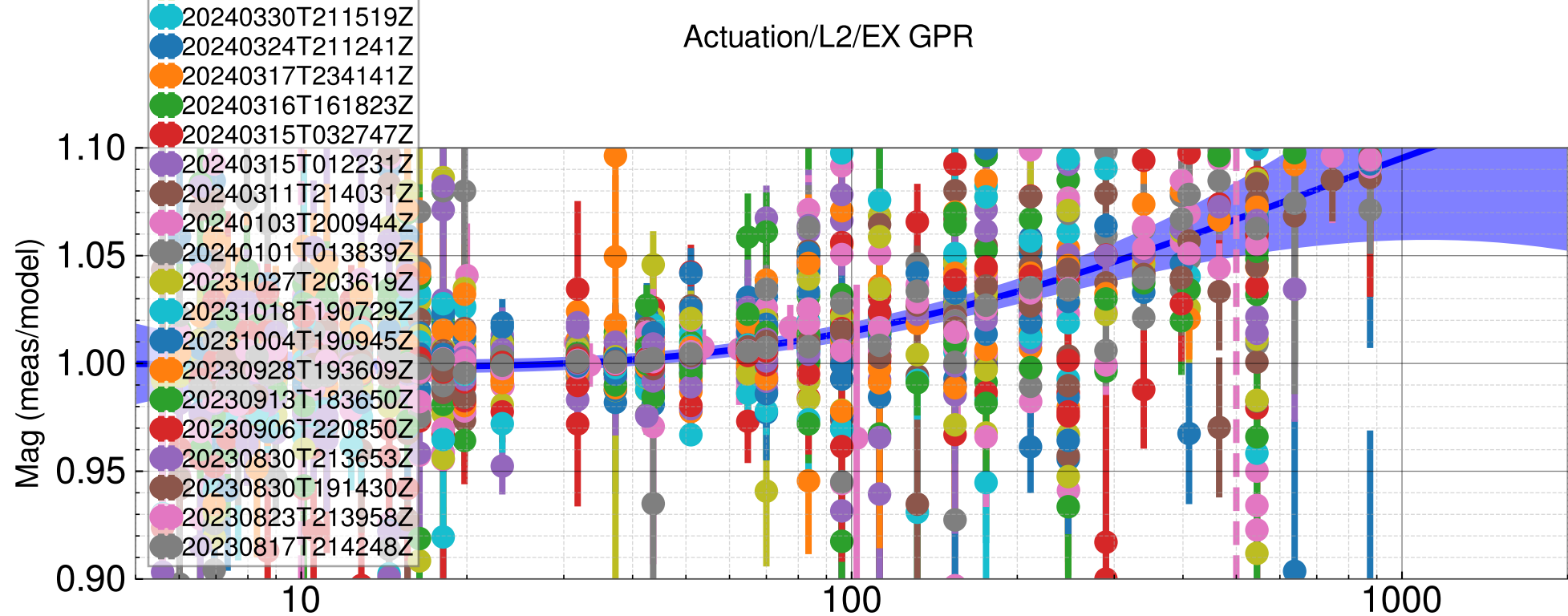
Actuation strength residuals
(meas./model w. free params)



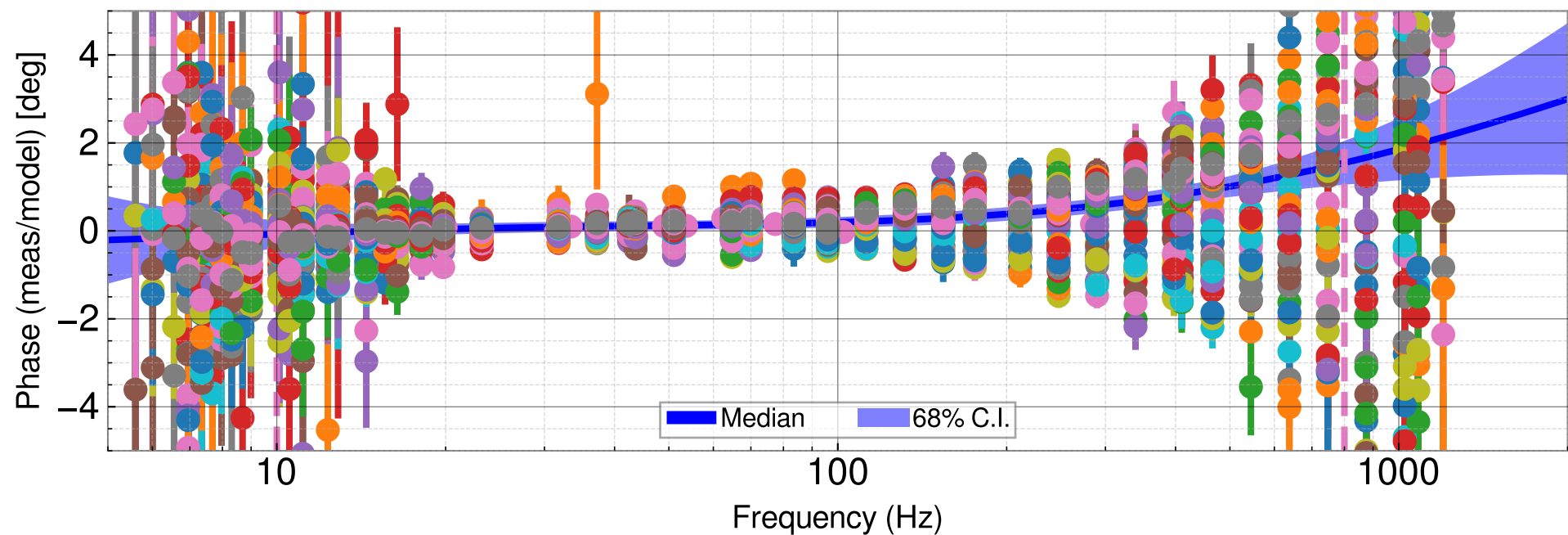
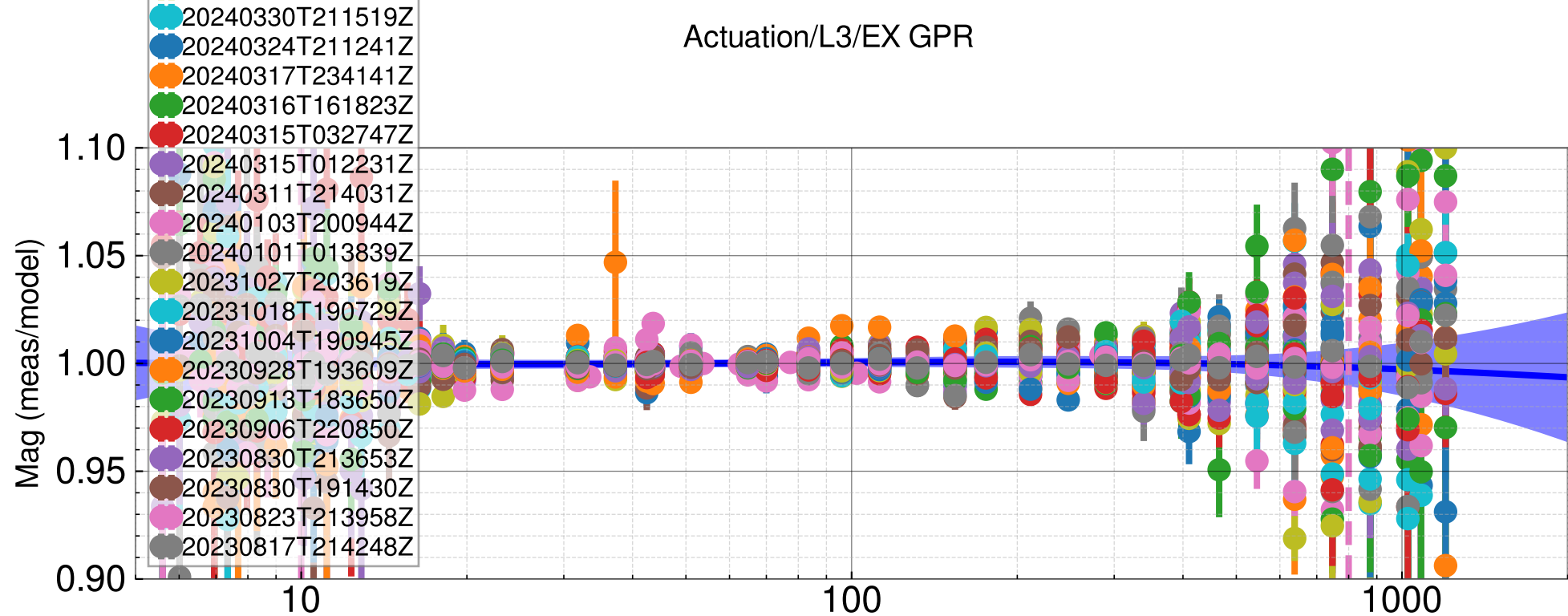
Actuation/L1/EX GPR



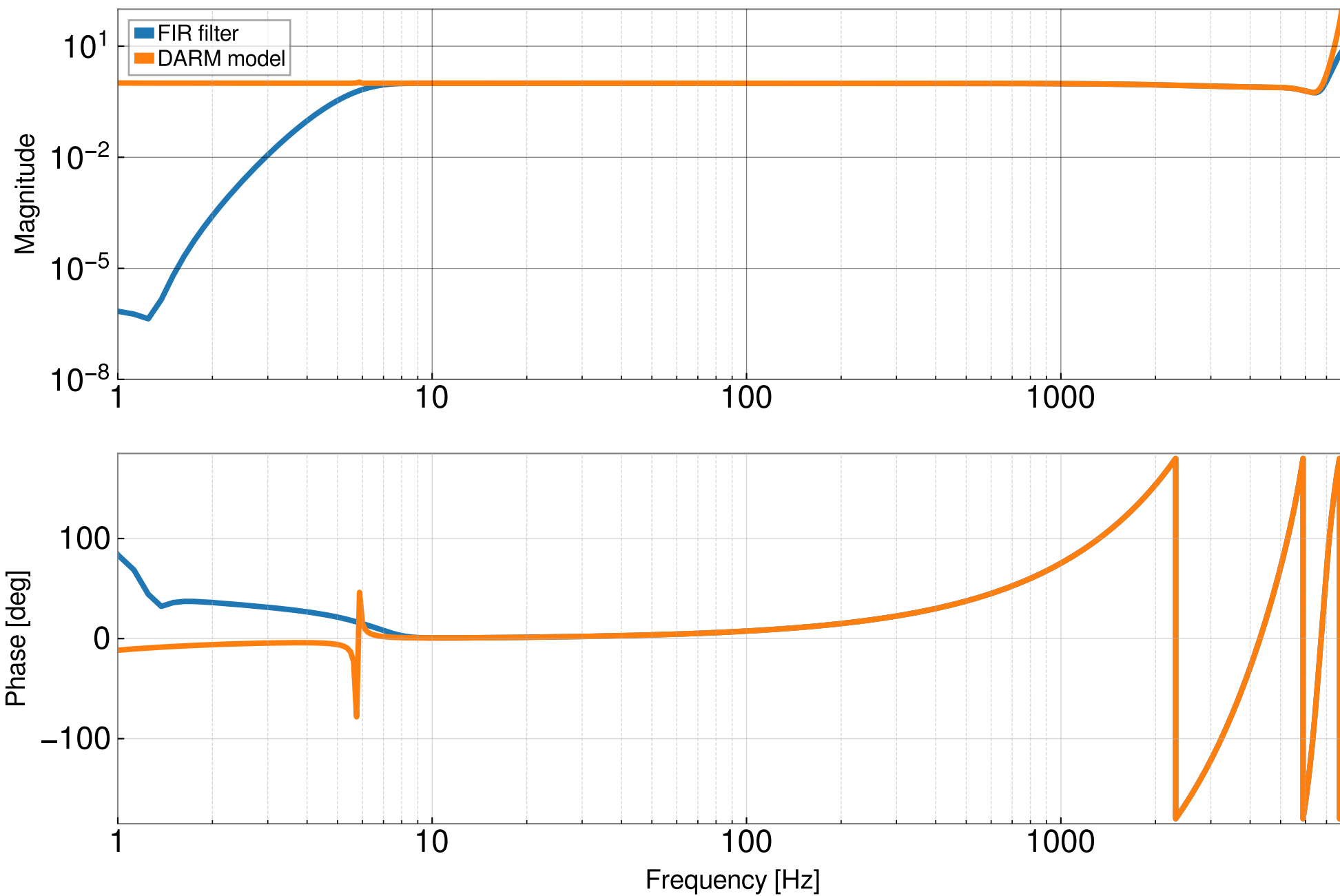
Actuation/L2/EX GPR



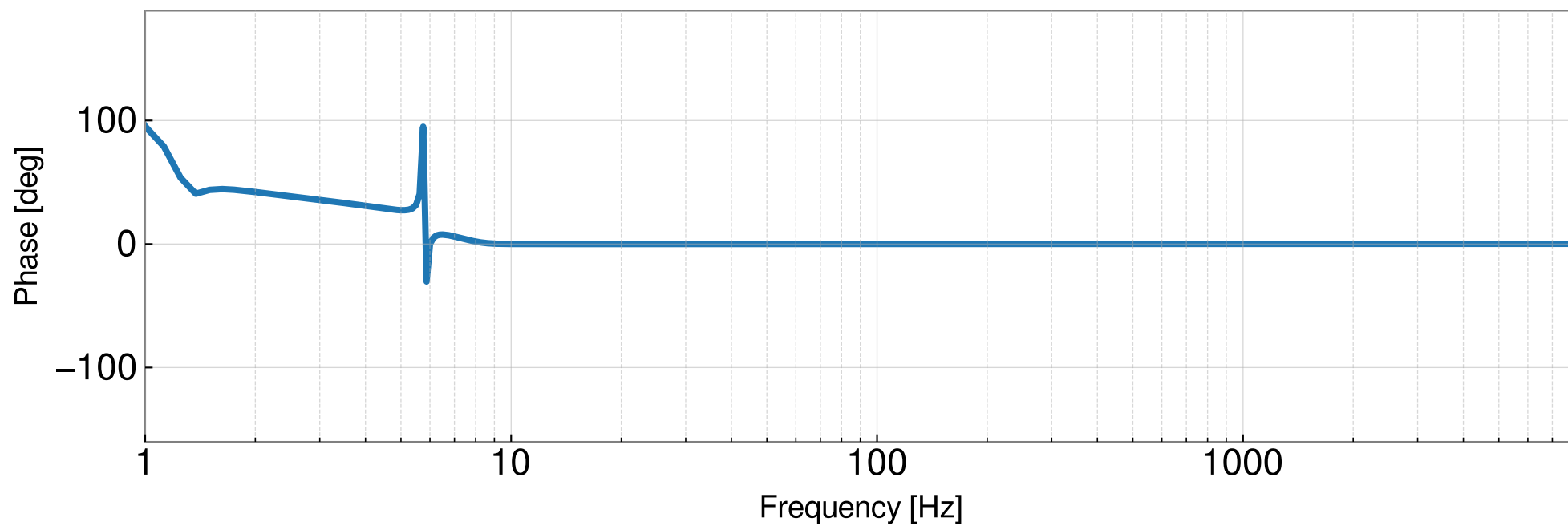
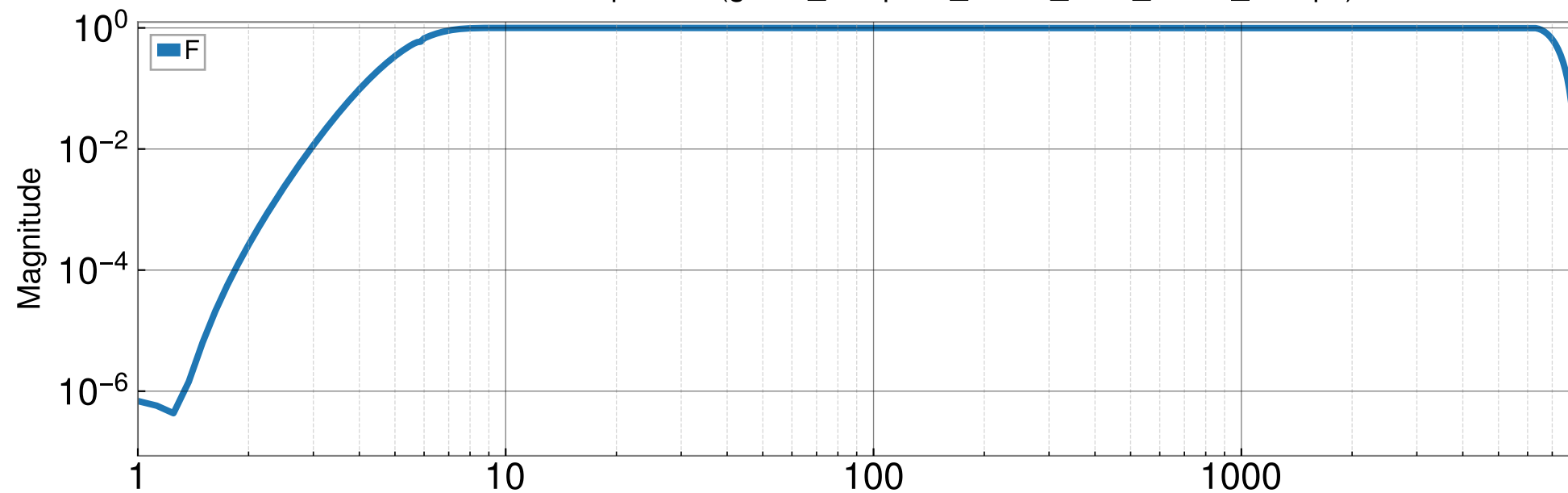
Actuation/L3/EX GPR

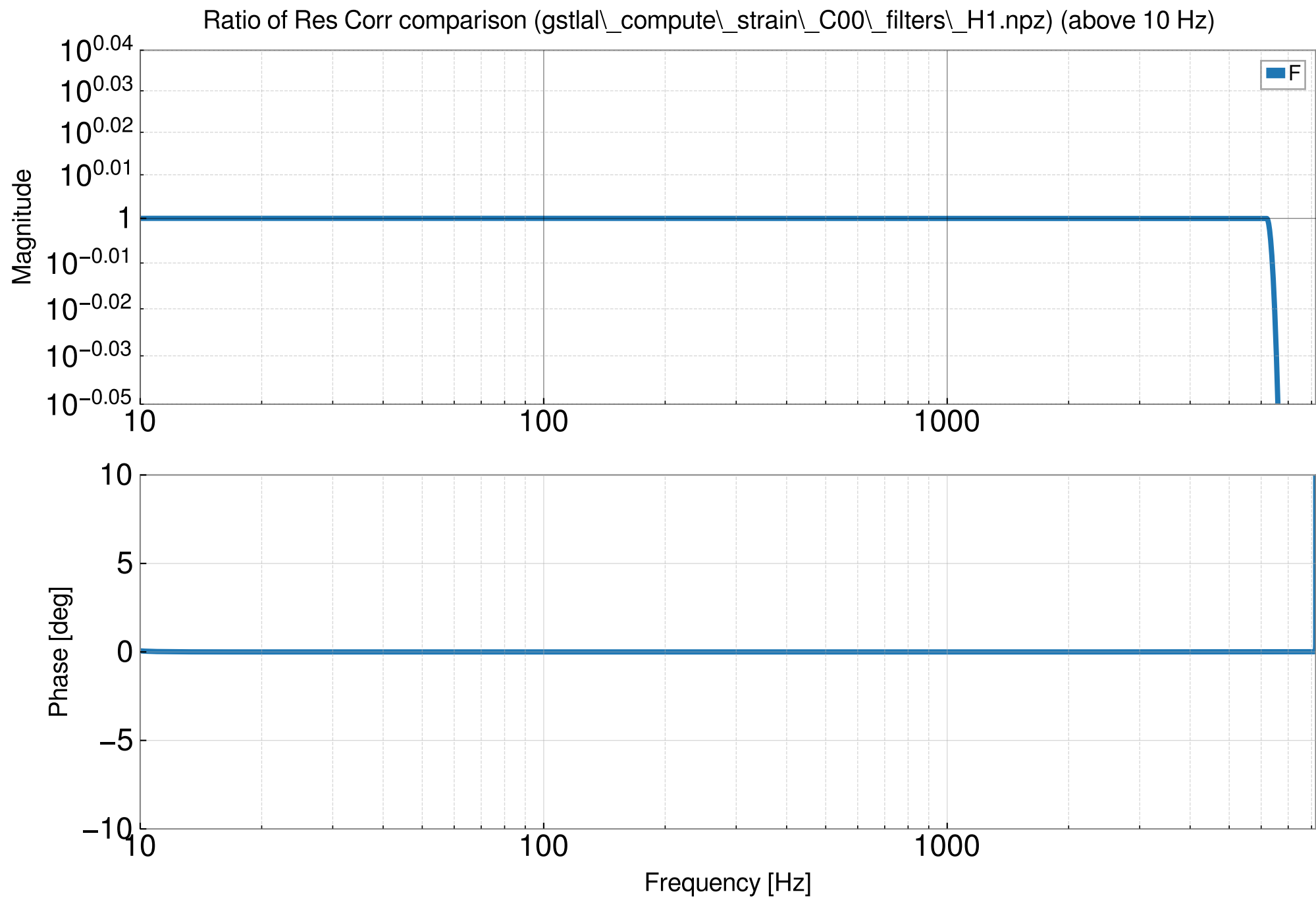


Res Corr comparison (gstlal_compute_strain_C00_filters_H1.npz)



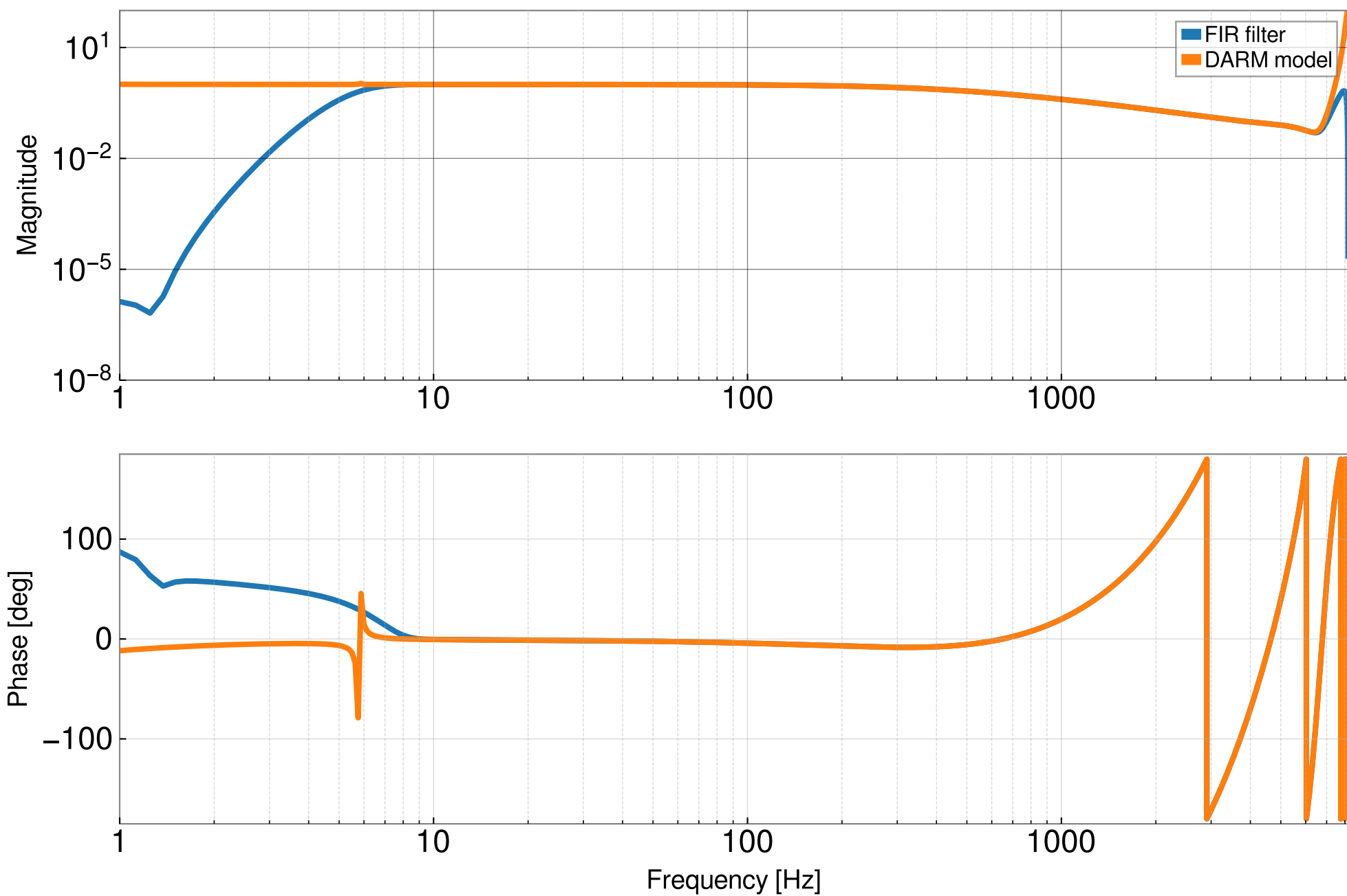
Ratio of Res Corr comparison (gstlal_compute_strain_C00_filters_H1.npz)





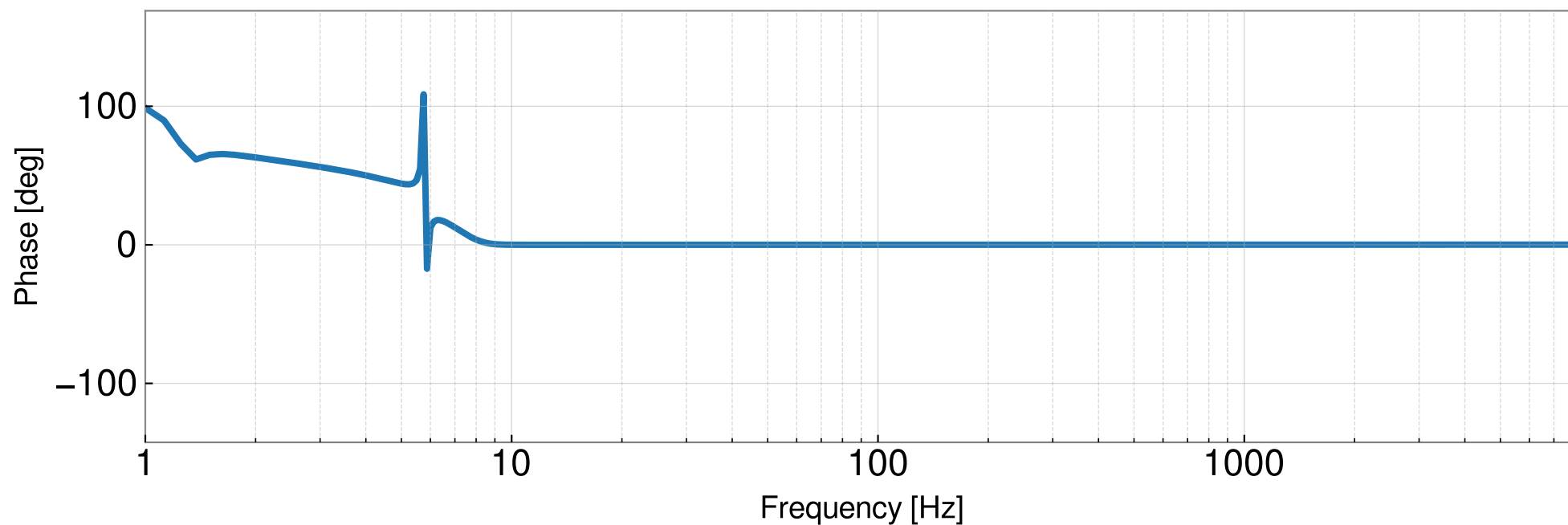
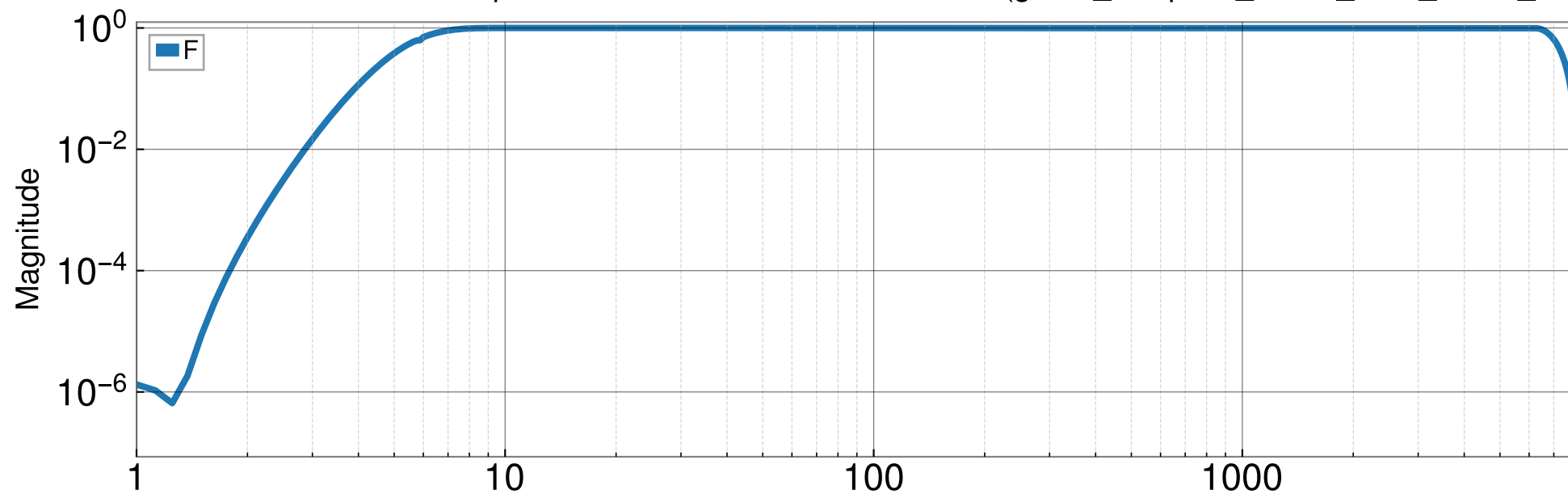
Res Corr No CC Pole comparison

(gstlal_compute_strain_C00_filters_H1.npz)



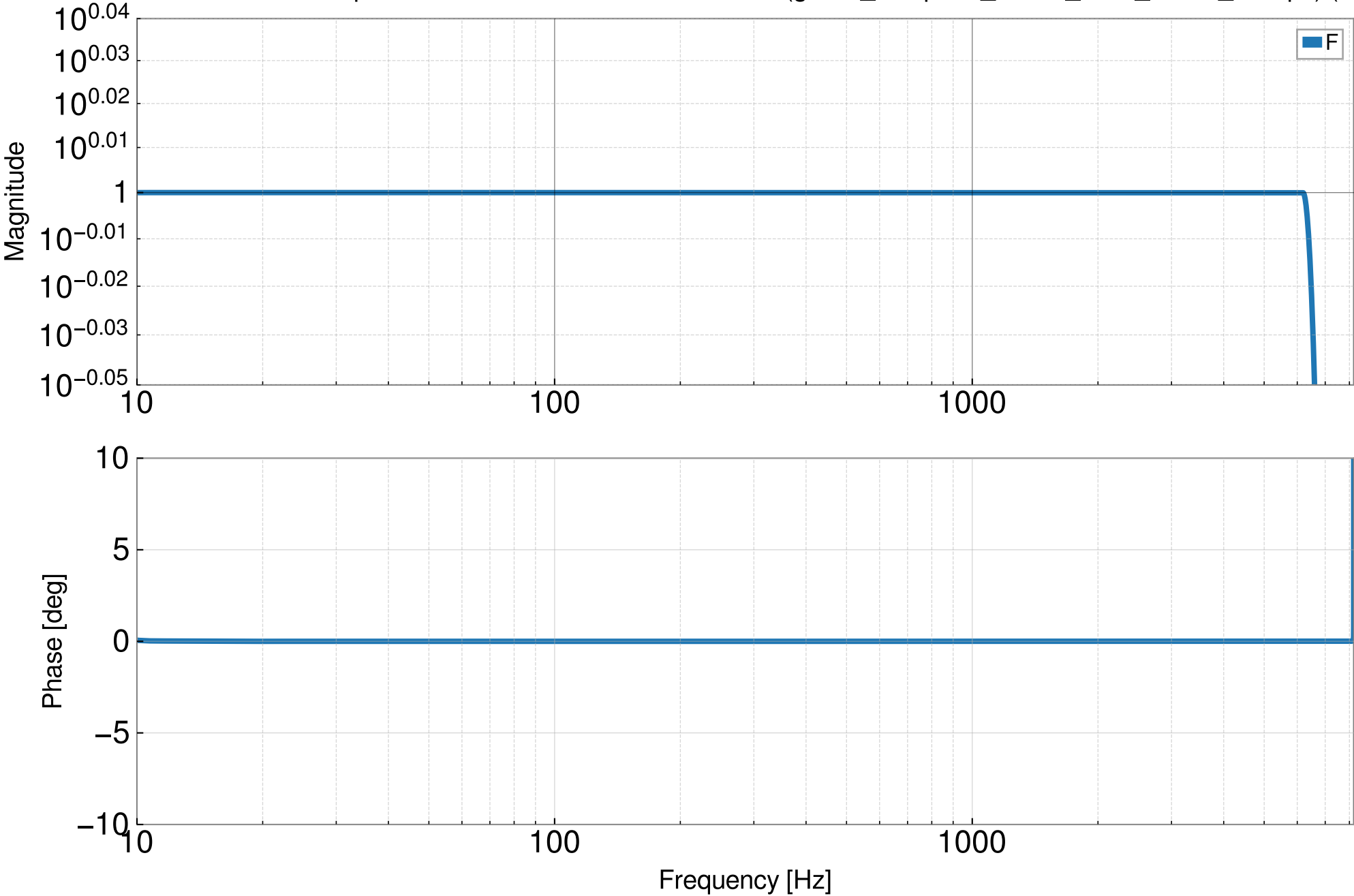
Ratio of Res Corr No CC Pole comparison

(gstla\compute_strain_C00_filters_H1.npz)



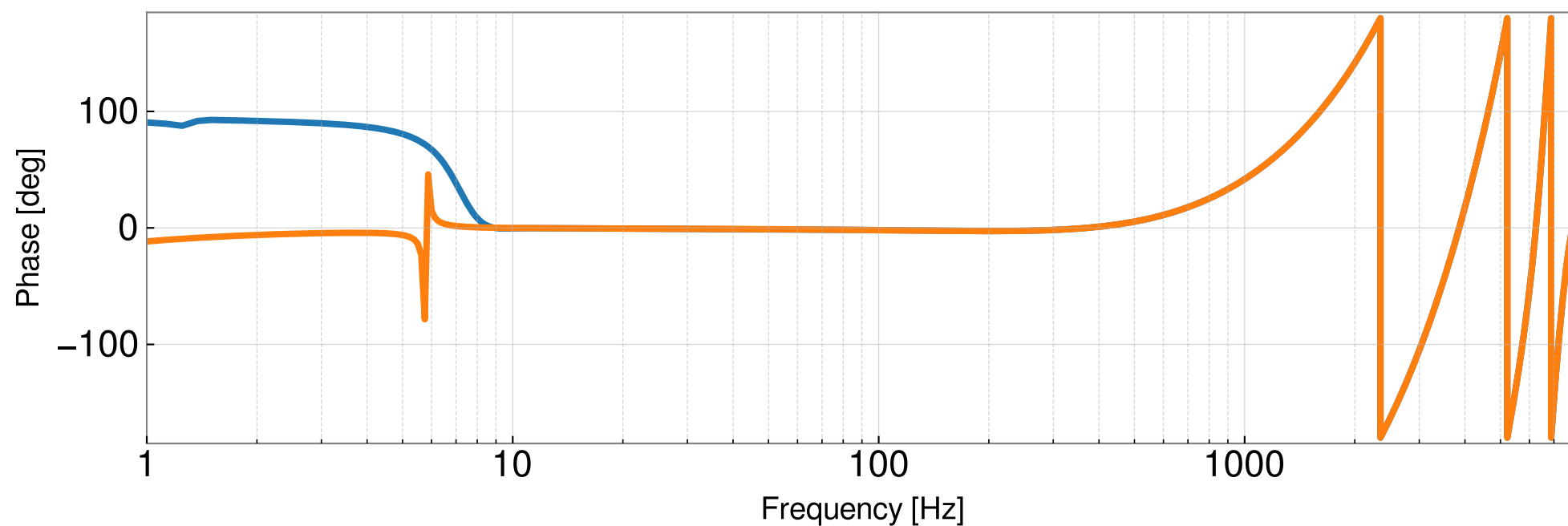
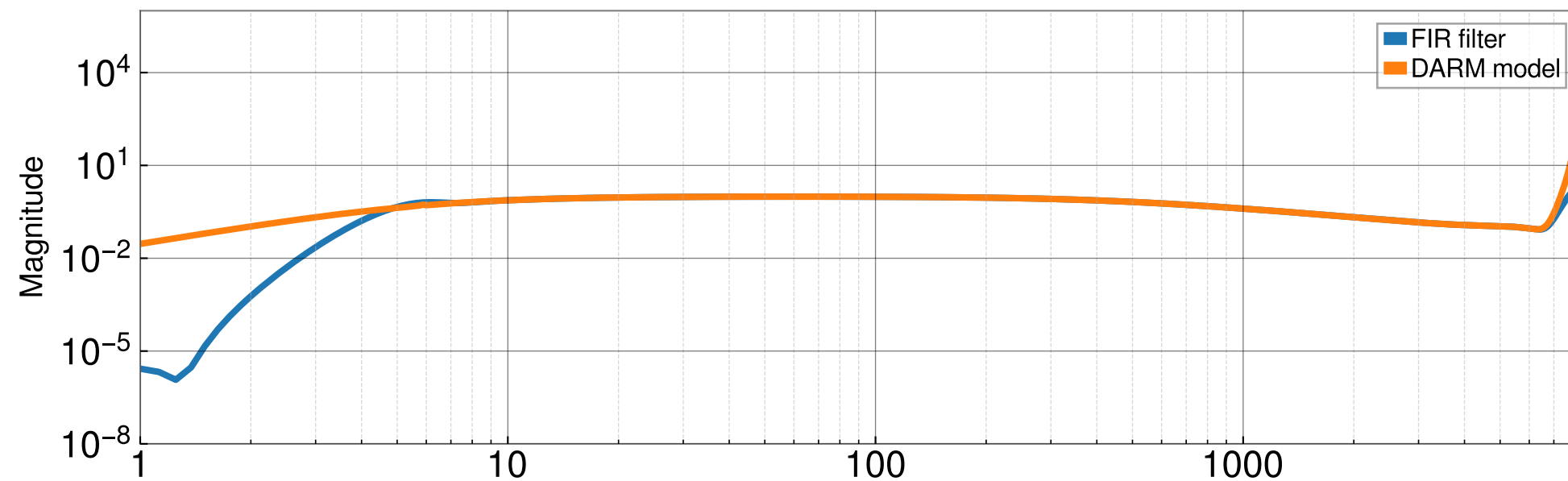
Ratio of Res Corr No CC Pole comparison

(gstlal_compute_strain_C00_filters_H1.npz) (above 10 Hz)



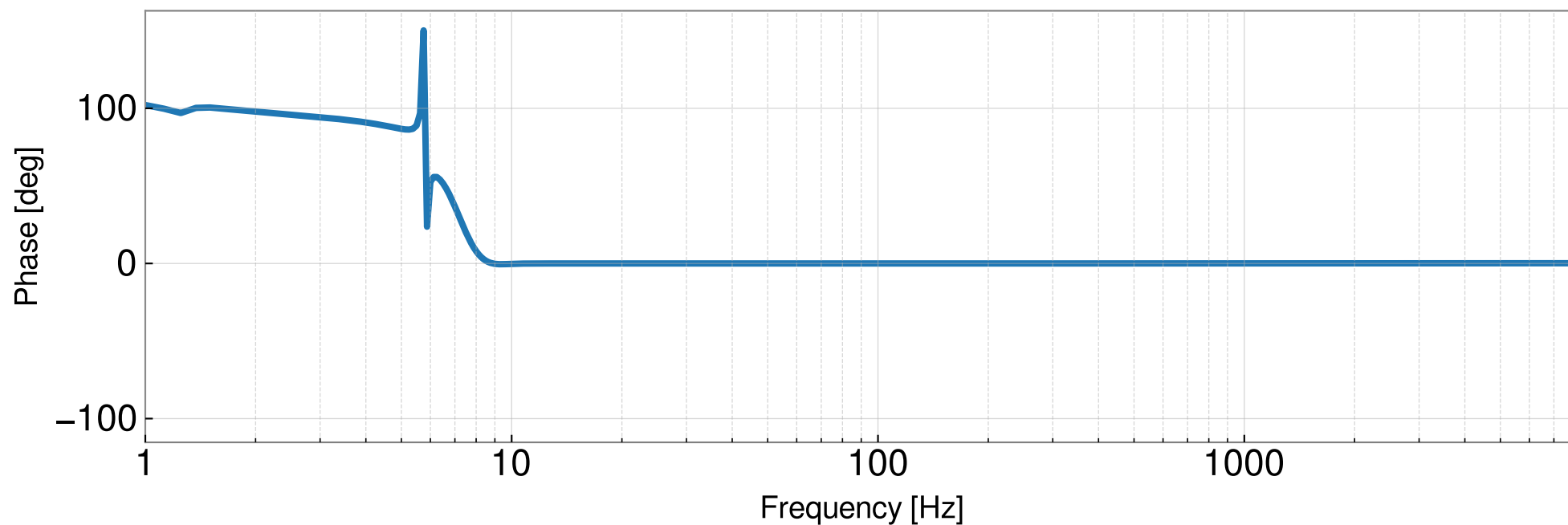
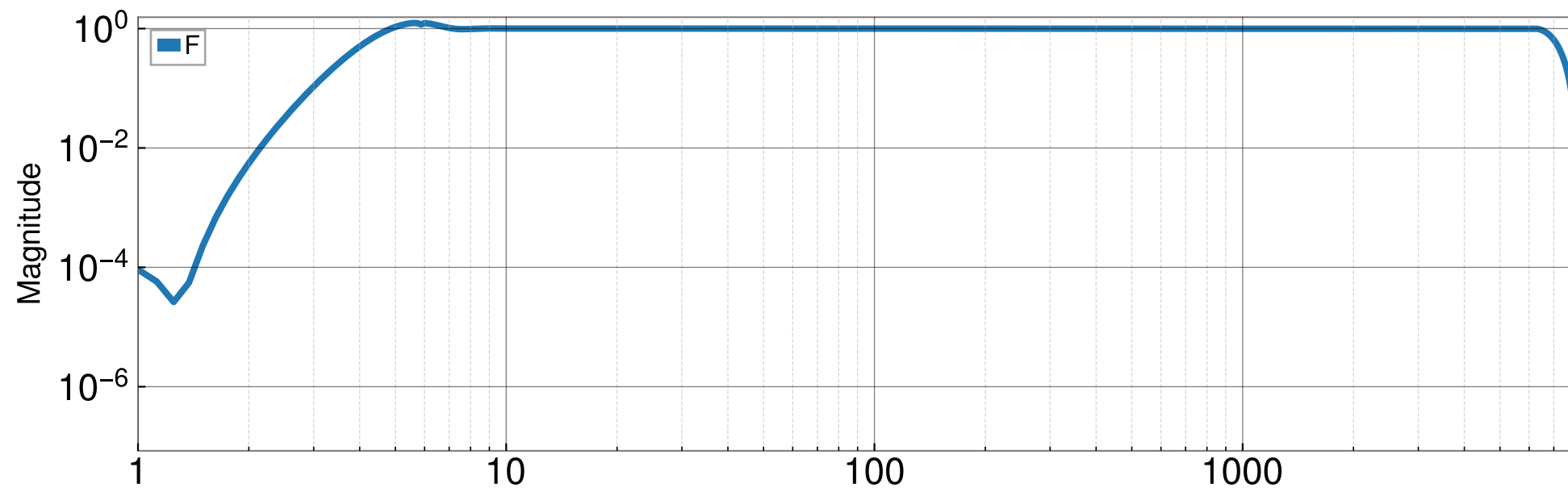
Res Corr No Pole

comparison (gstlal_compute_strain_C00_filters_H1.npz)

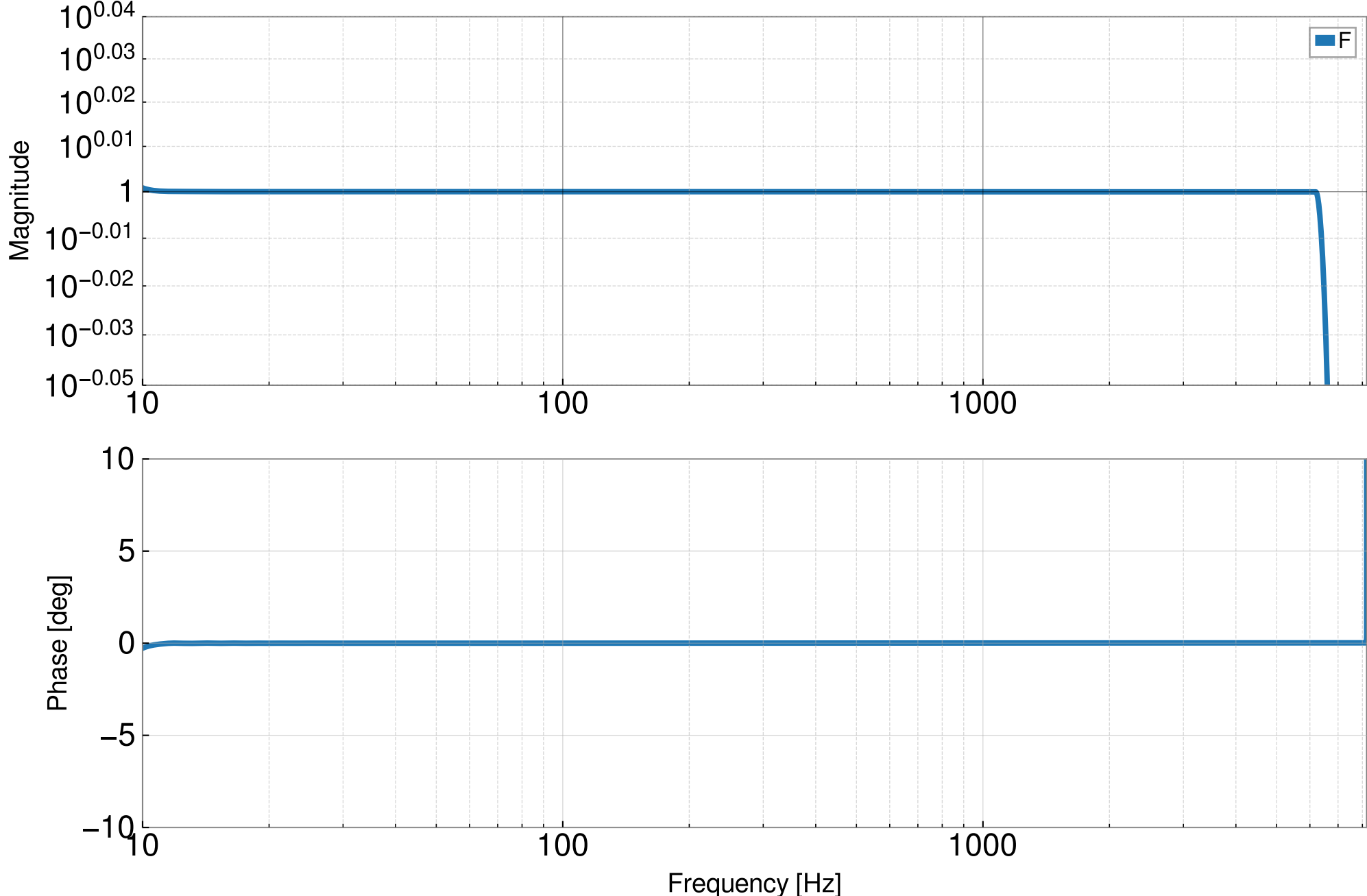


Ratio of Res Corr No Pole

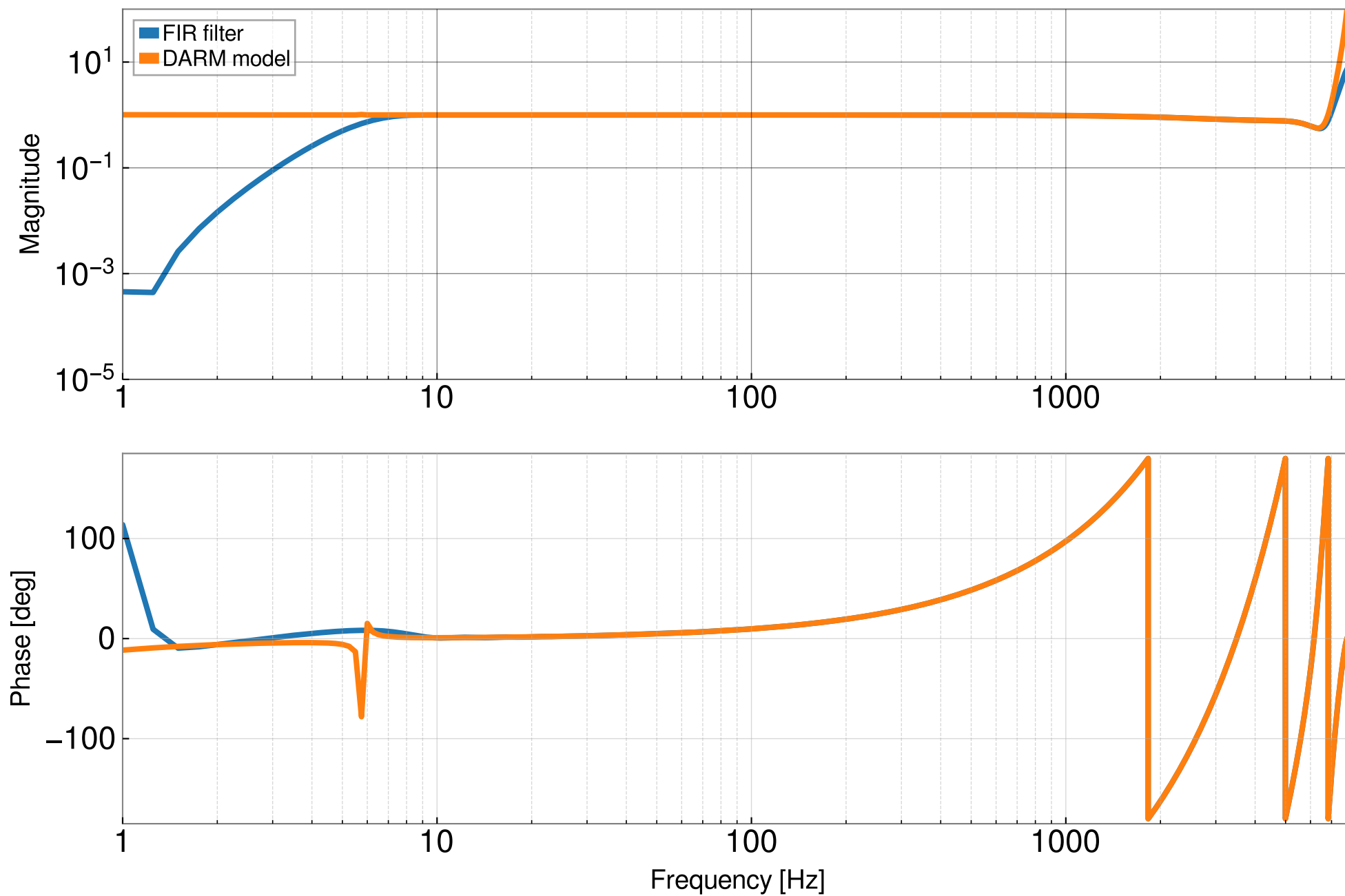
comparison (gstlal_compute_strain_C00_filters_H1.npz)



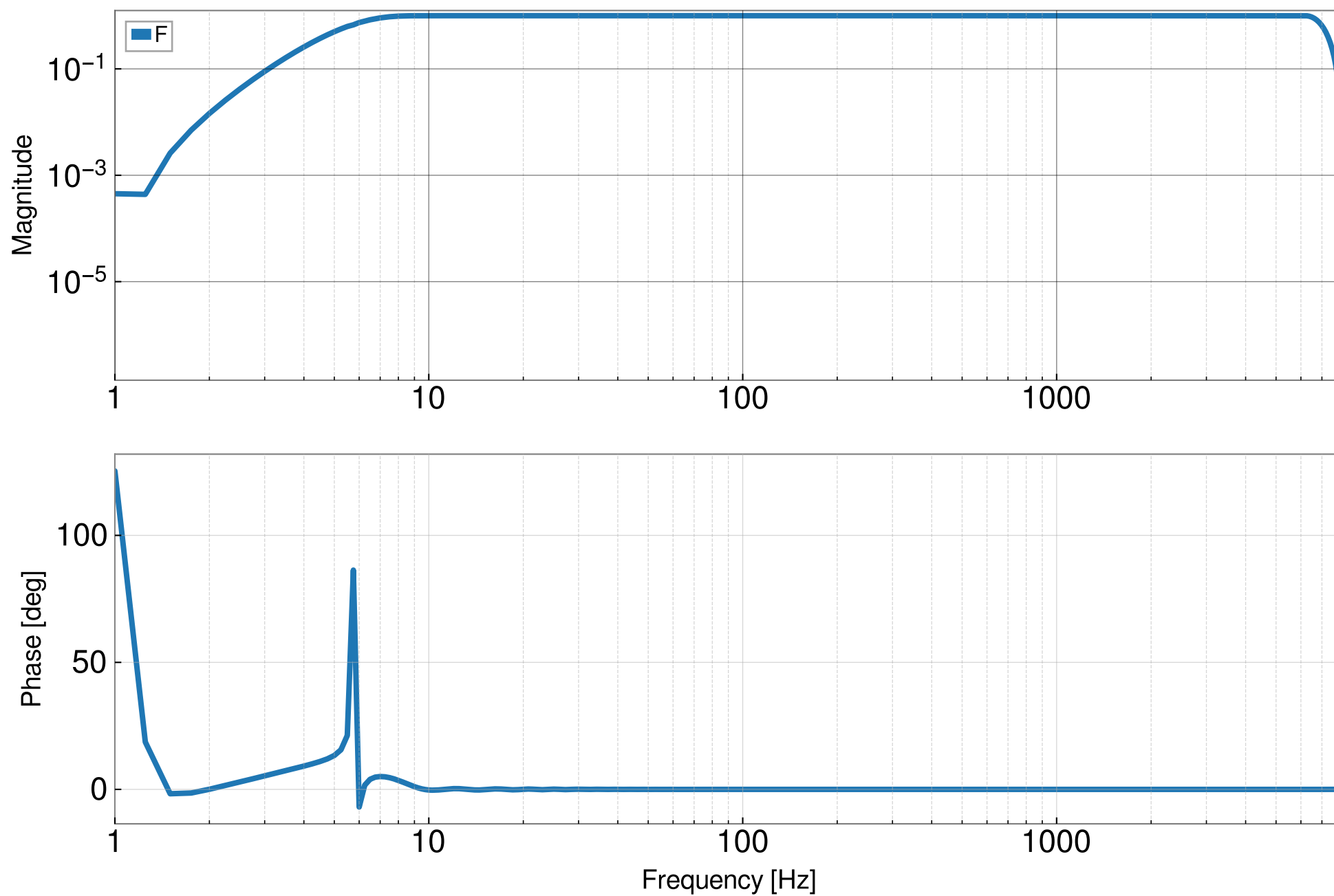
Ratio of Res Corr No Pole comparison (gstlal_compute_strain_C00_filters_H1.npz) (above 10 Hz)

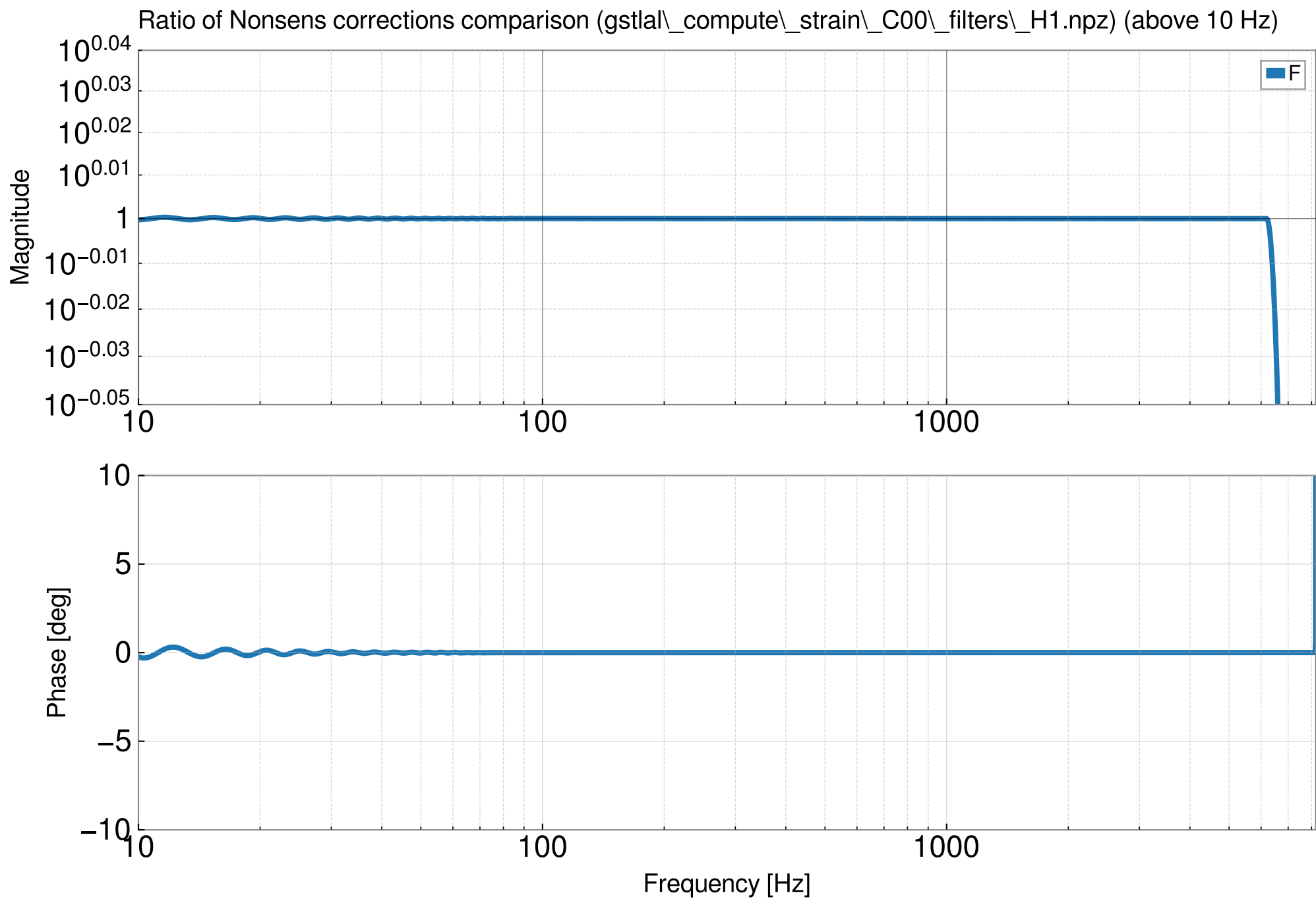


Nonsens corrections comparison (gstlal_compute_strain_C00_filters_H1.npz)

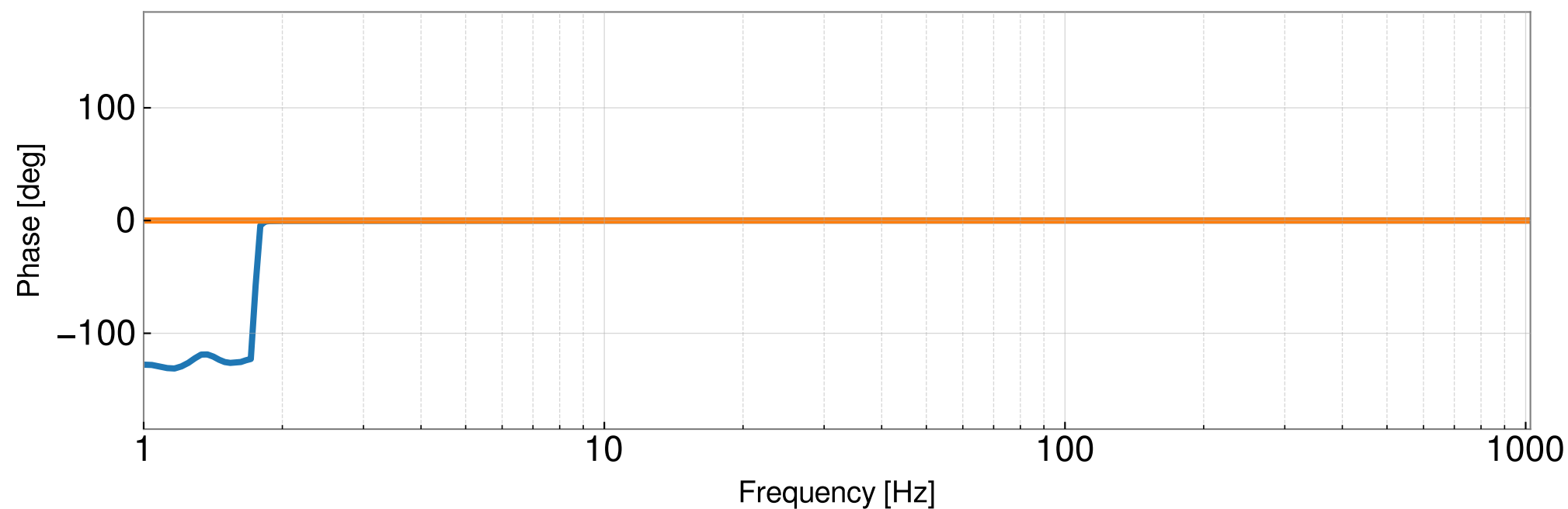
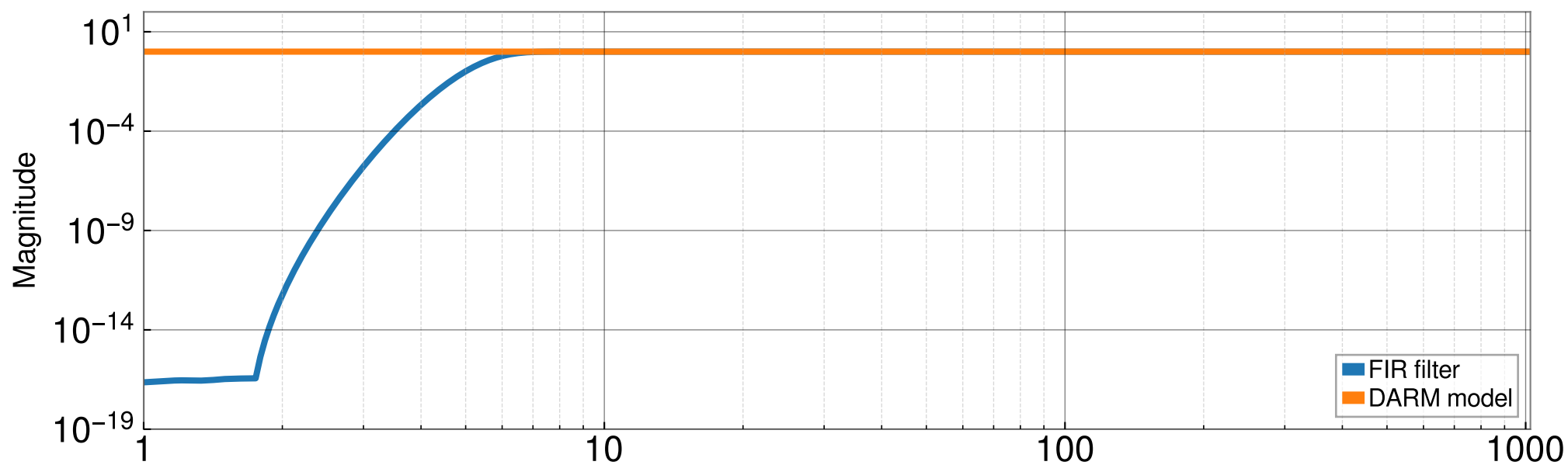


Ratio of Nonsens corrections comparison (gstla__compute_strain_C00_filters_H1.npz)

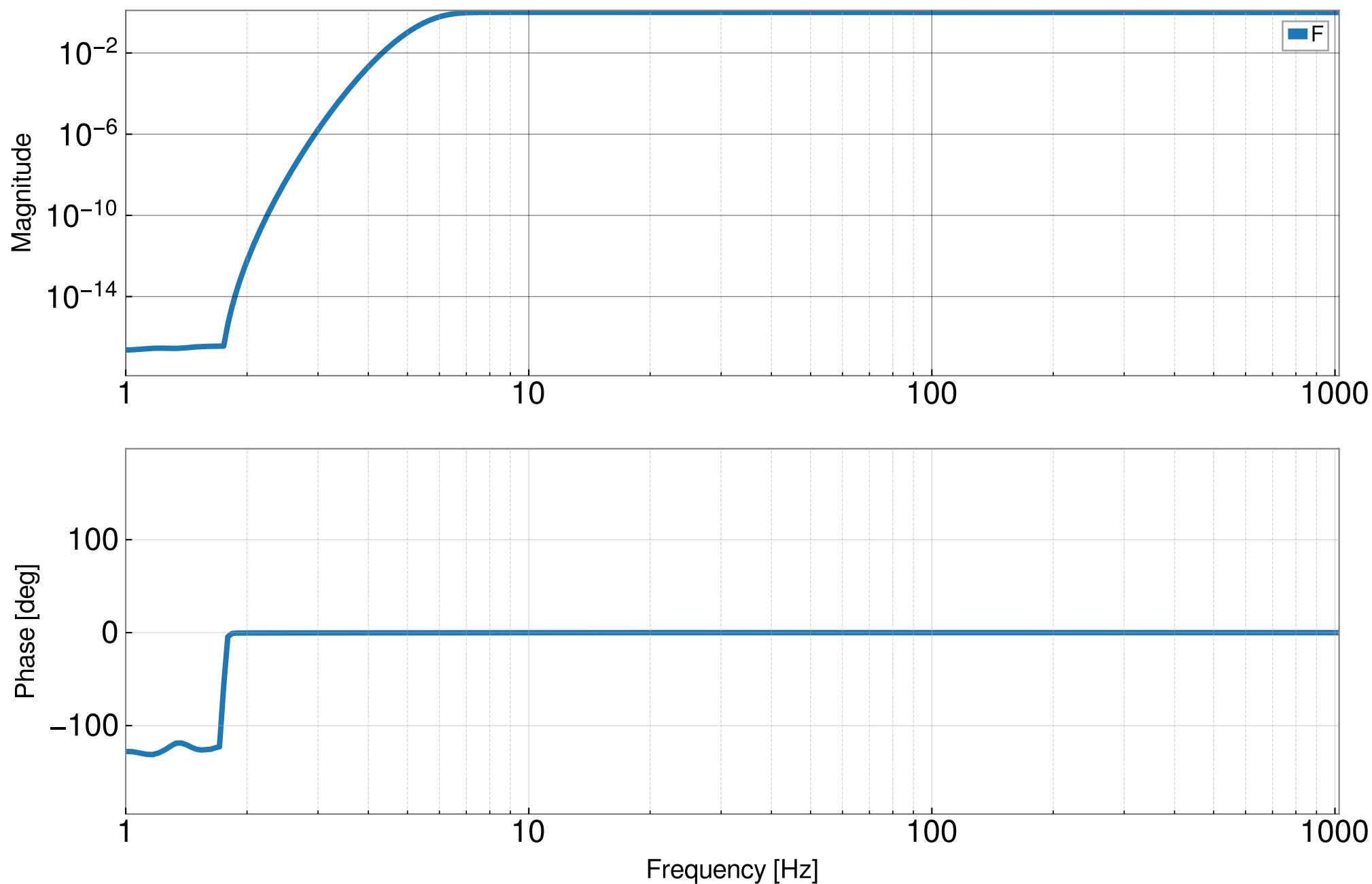


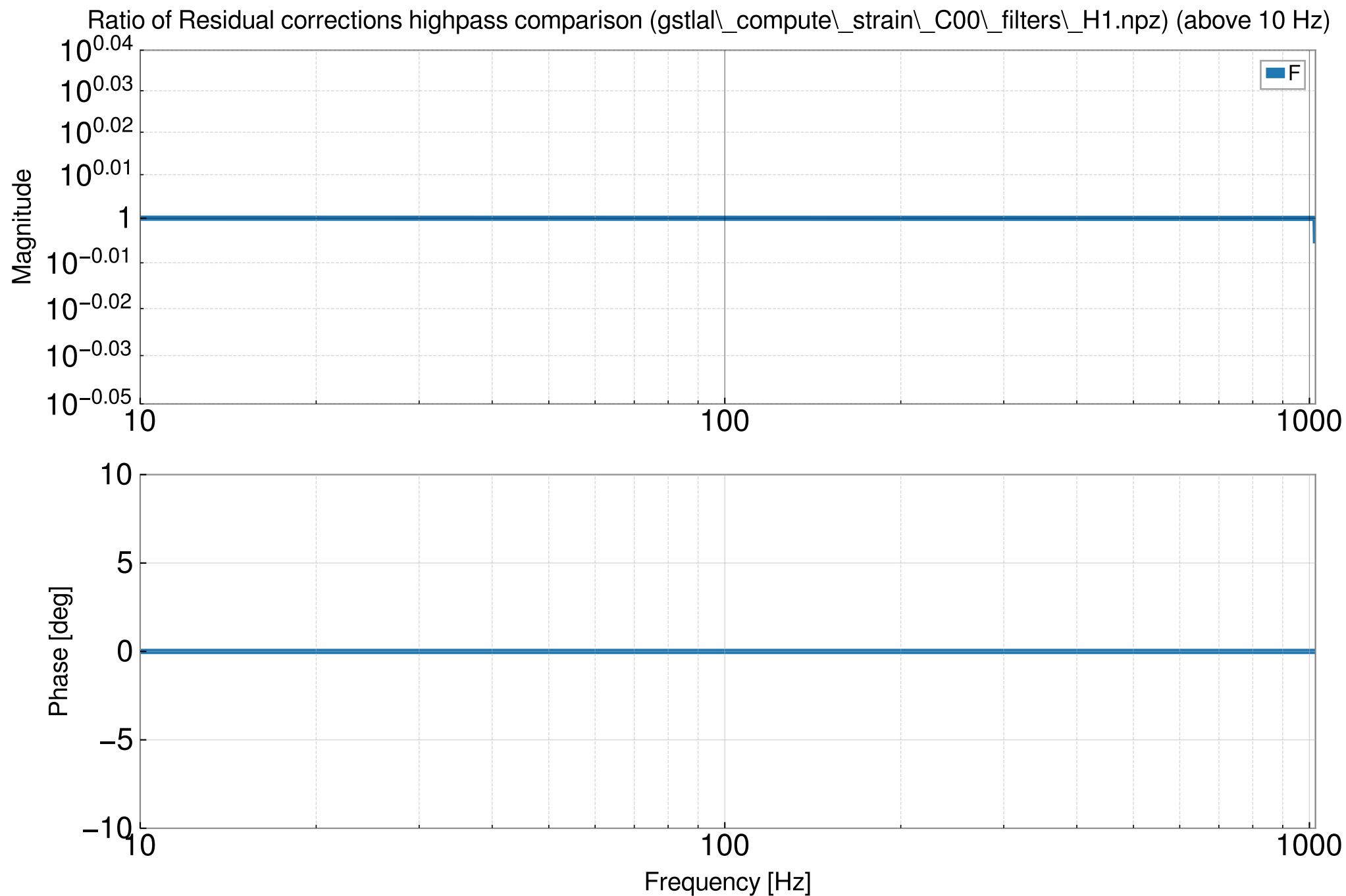


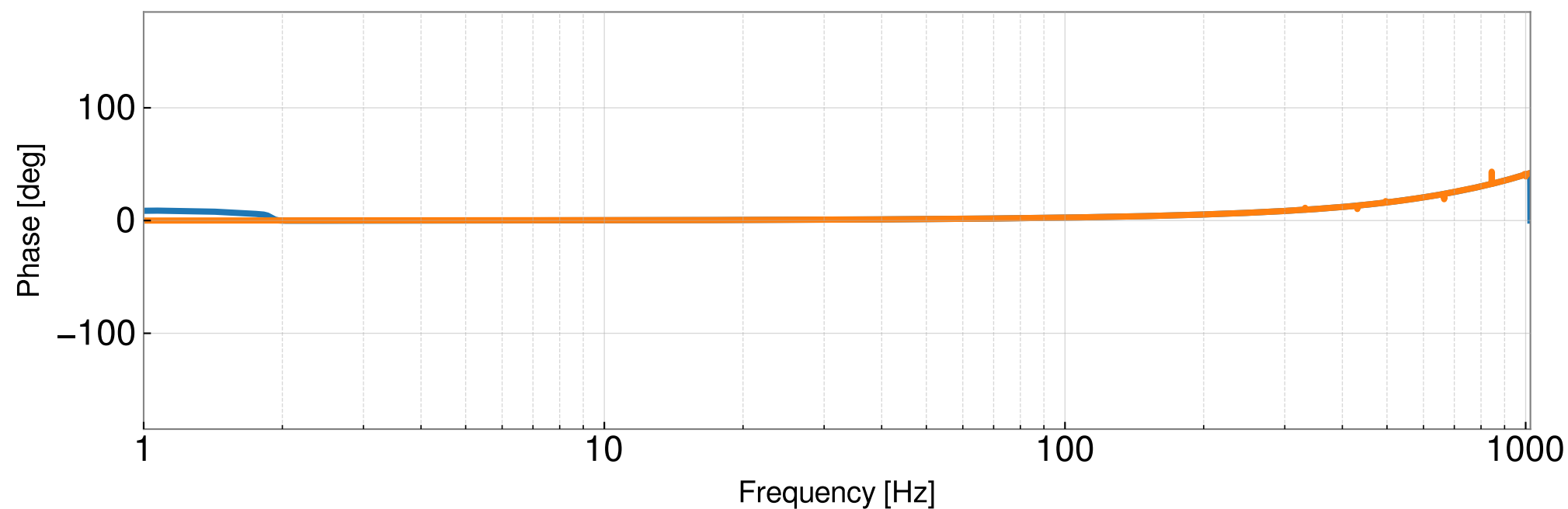
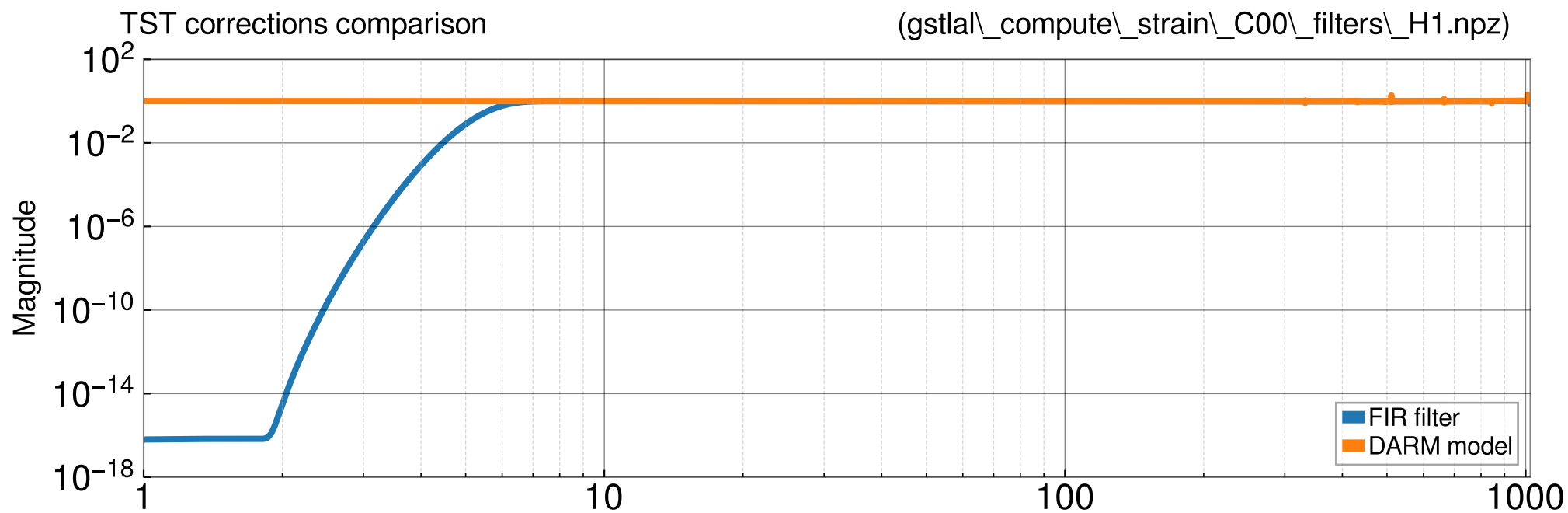
Residual corrections highpass comparison (gstlal_compute_strain_C00_filters_H1.npz)



Ratio of Residual corrections highpass comparison (gstlal_compute_strain_C00_filters_H1.npz)

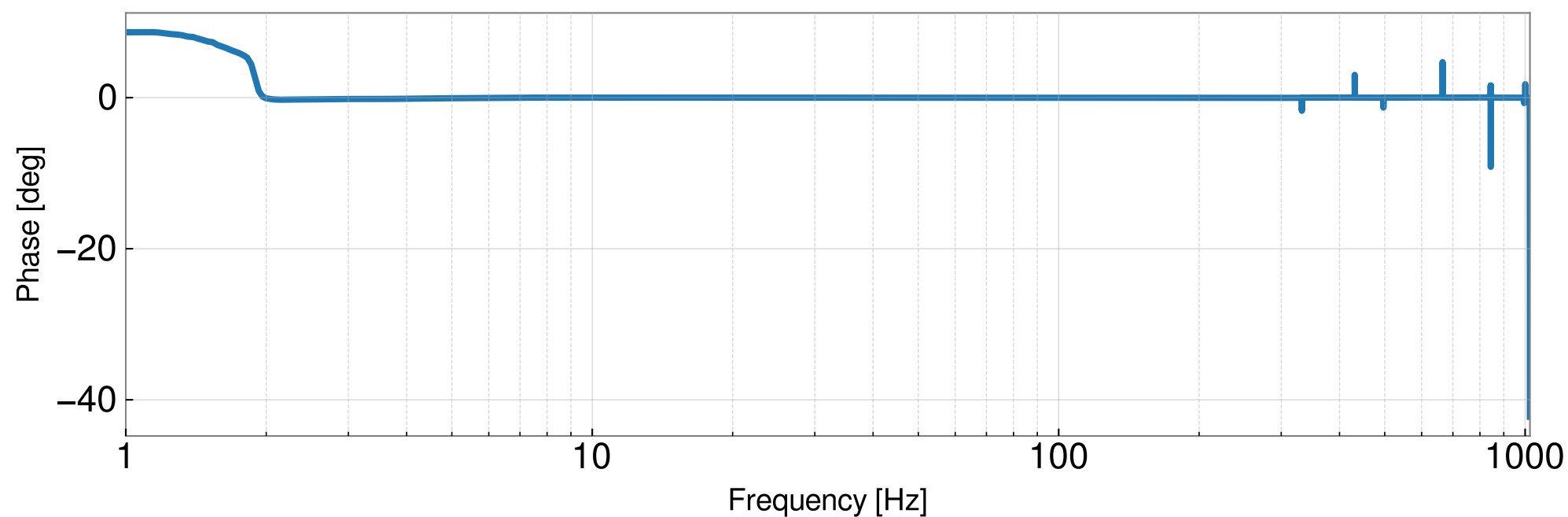
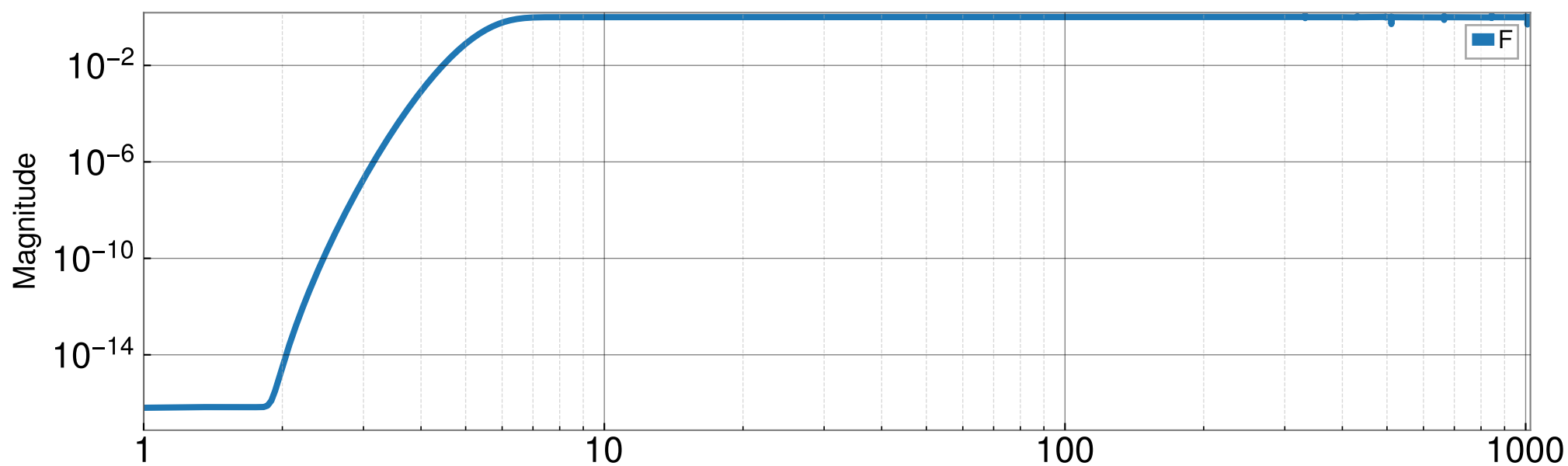






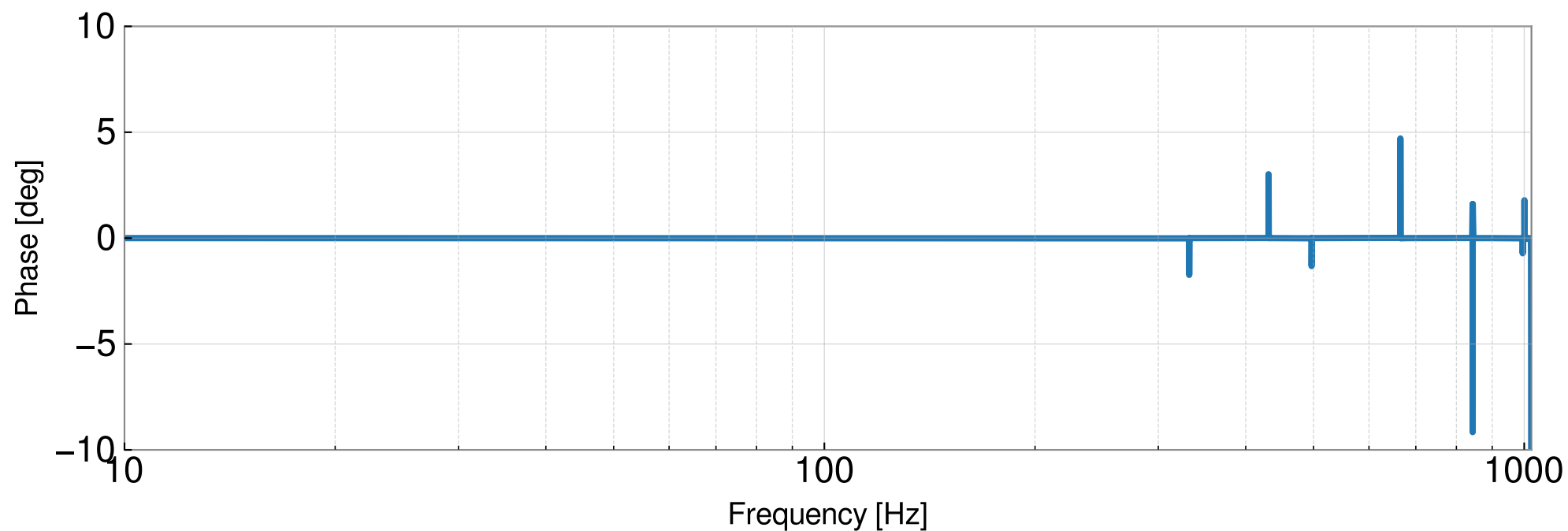
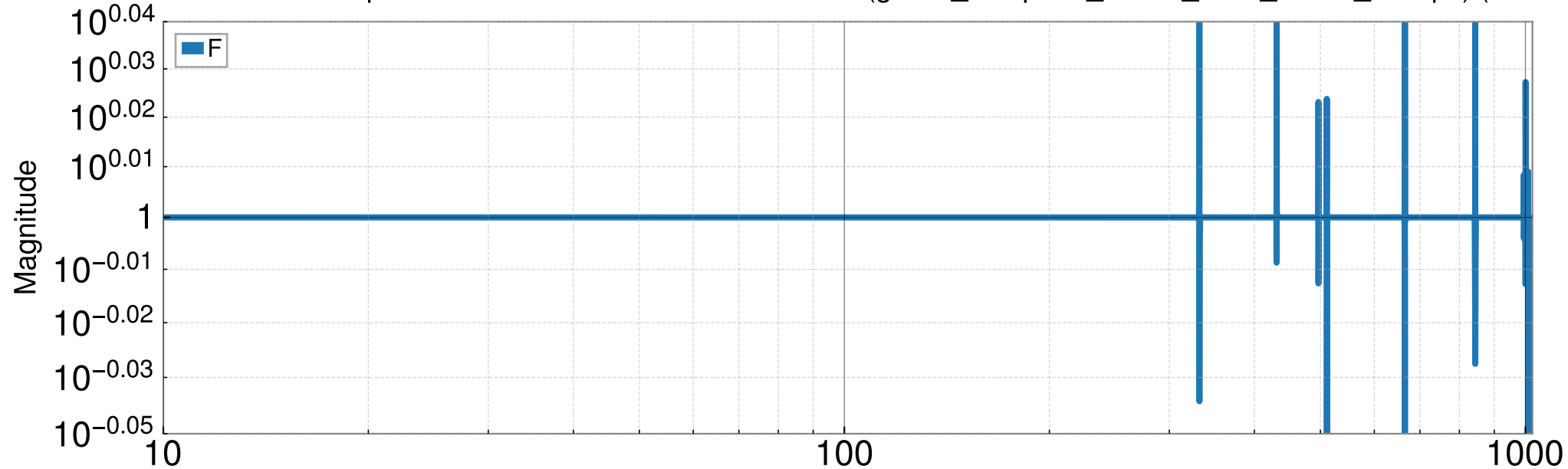
Ratio of TST corrections comparison

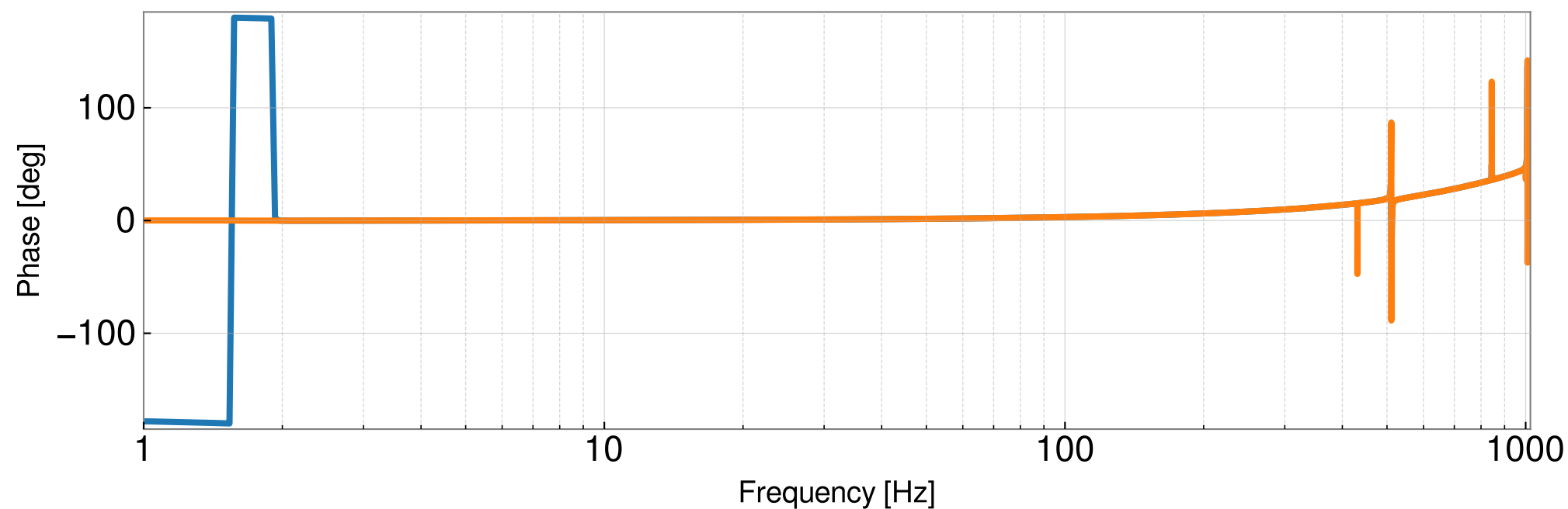
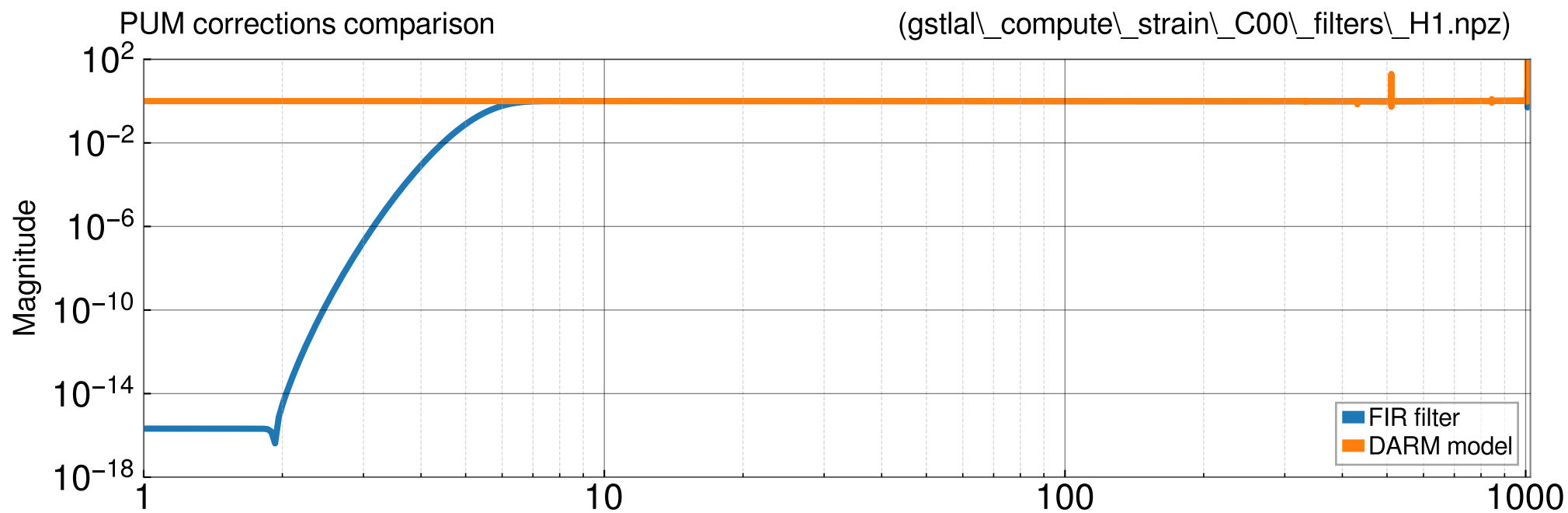
(gstlal_compute_strain_C00_filters_H1.npz)



Ratio of TST corrections comparison

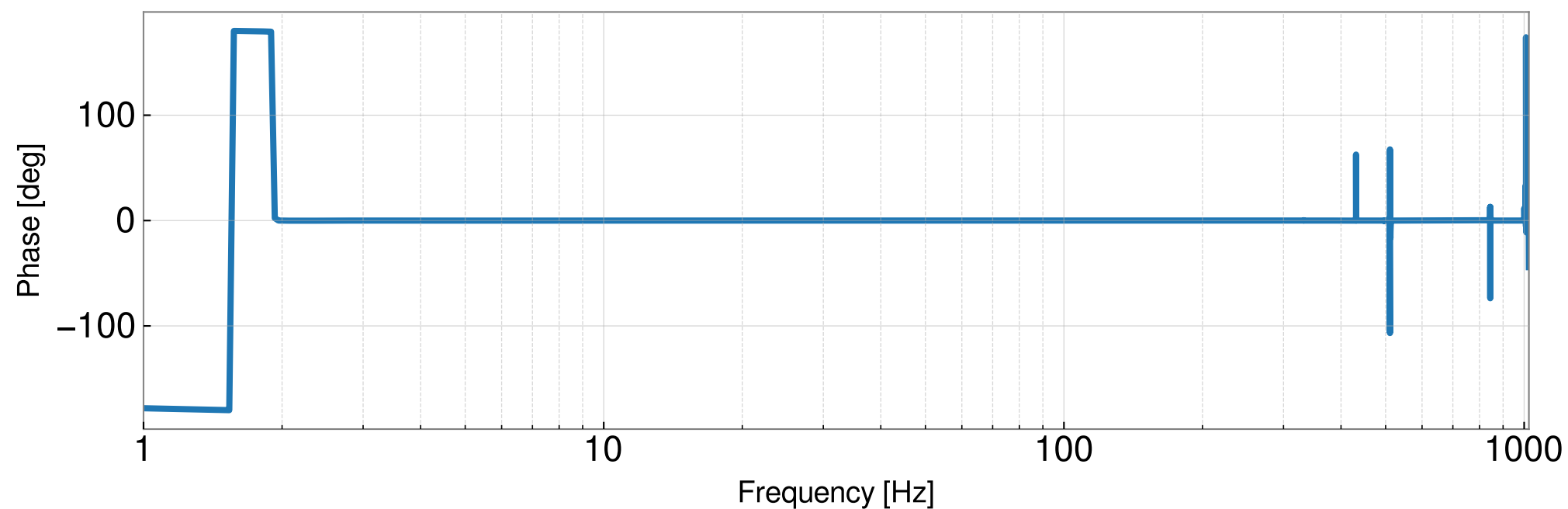
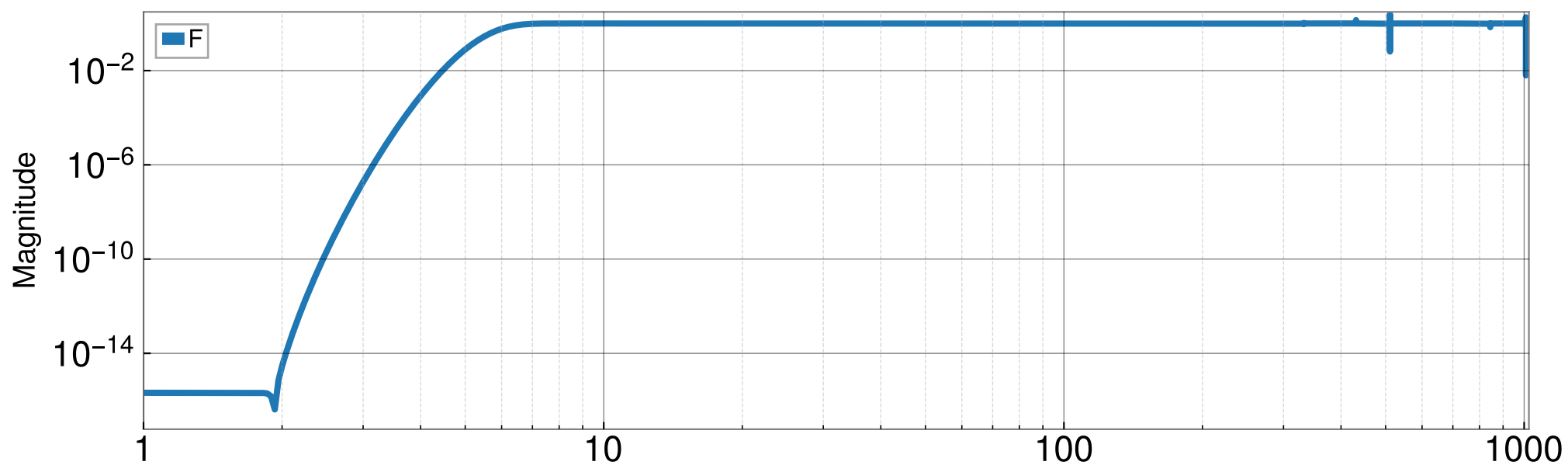
(gstlal_compute_strain_C00_filters_H1.npz) (above 10 Hz)





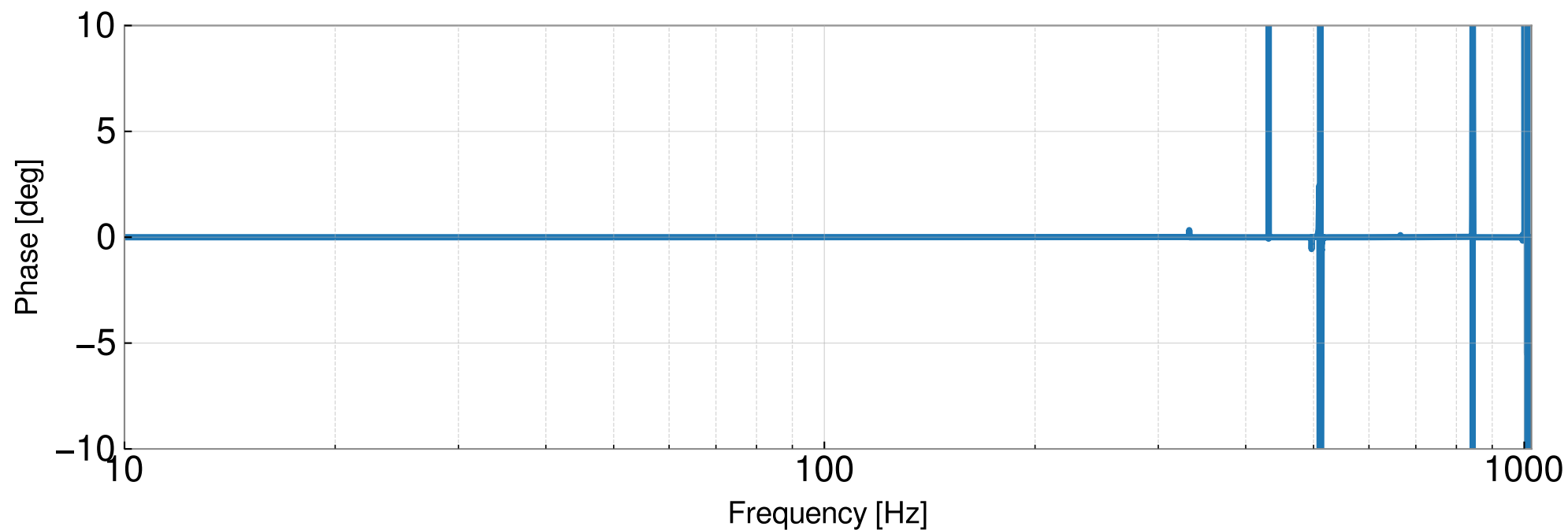
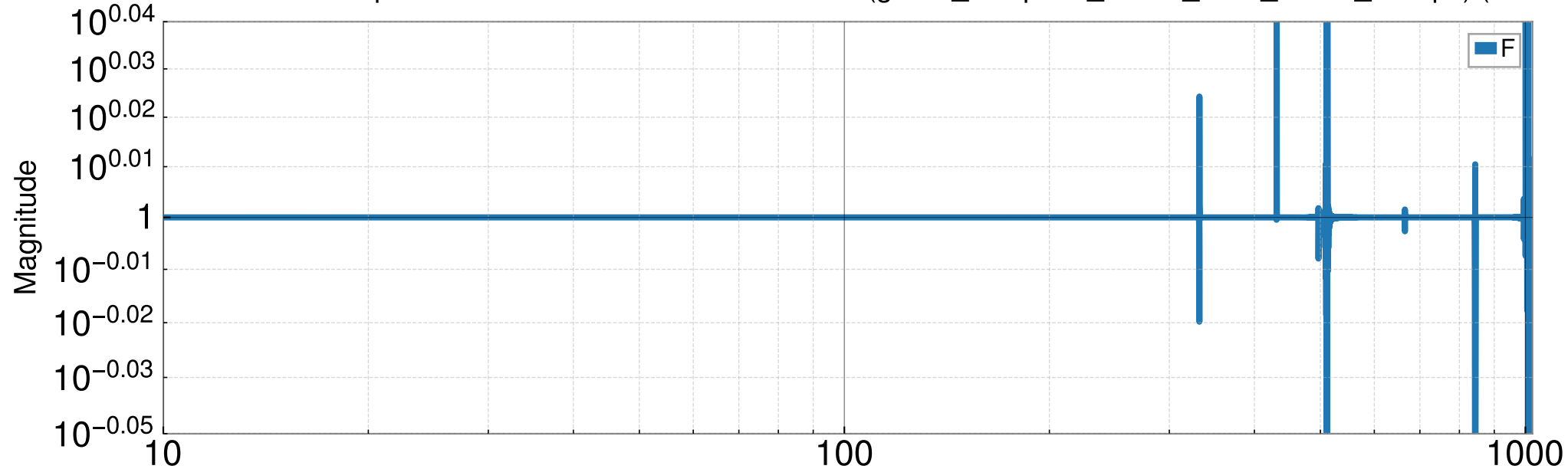
Ratio of PUM corrections comparison

(gstlal_compute_strain_C00_filters_H1.npz)



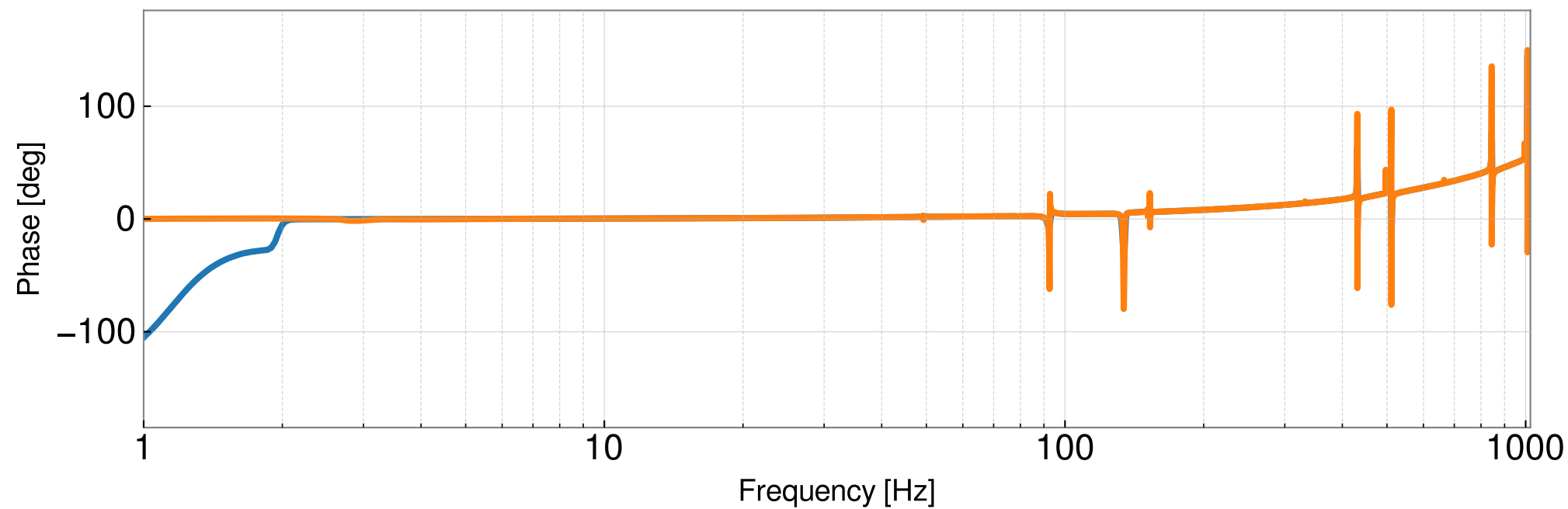
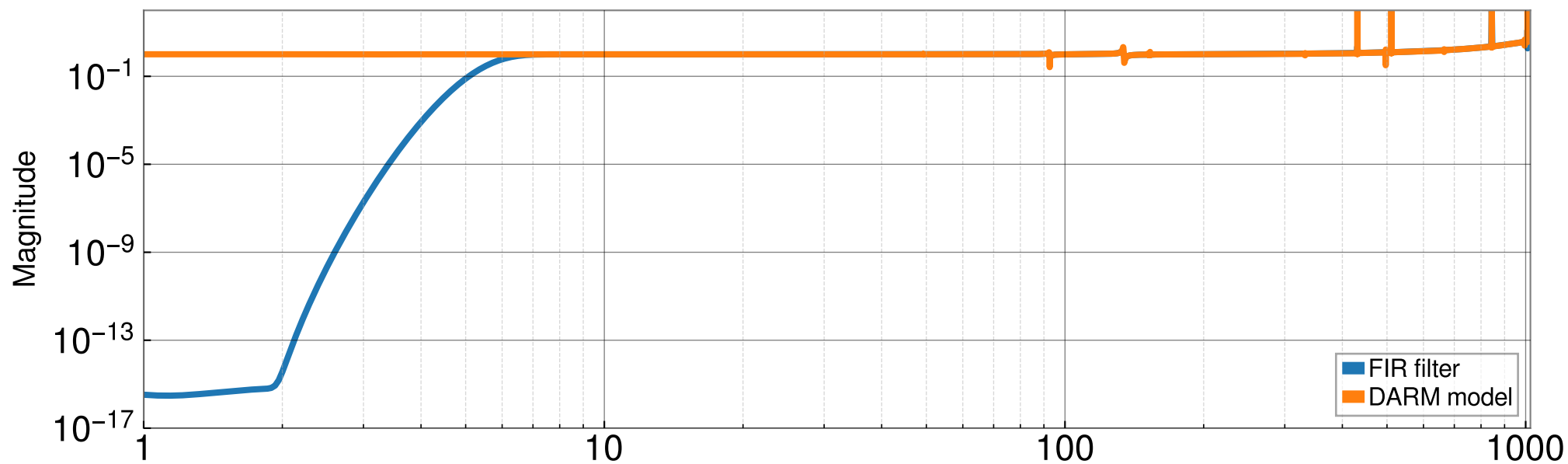
Ratio of PUM corrections comparison

(gstlal_compute_strain_C00_filters_H1.npz) (above 10 Hz)



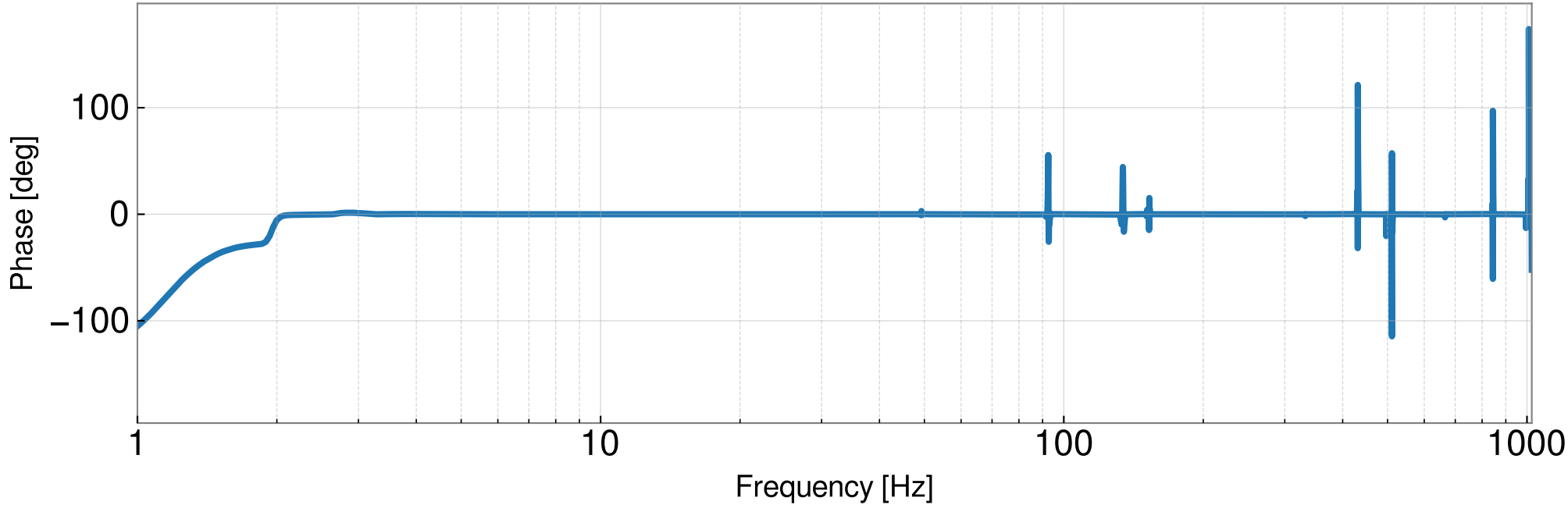
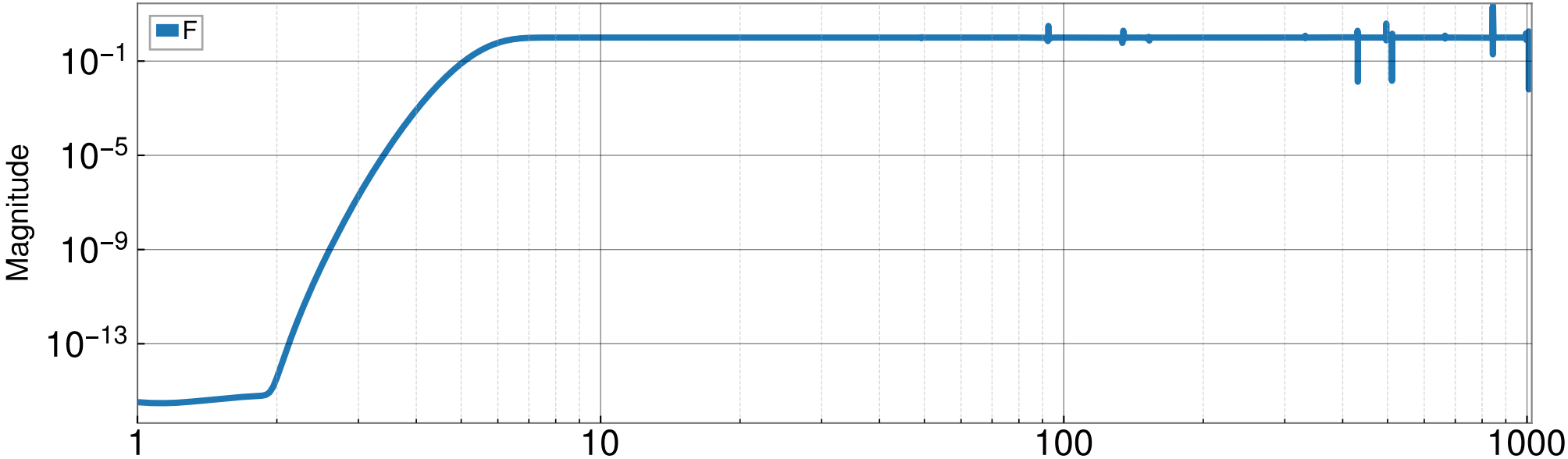
UIM corrections comparison

(gstlal_compute_strain_C00_filters_H1.npz)



Ratio of UIM corrections comparison

(gstlal_compute_strain_C00_filters_H1.npz)



Ratio of UIM corrections comparison

(gstlal_compute_strain_C00_filters_H1.npz) (above 10 Hz)

