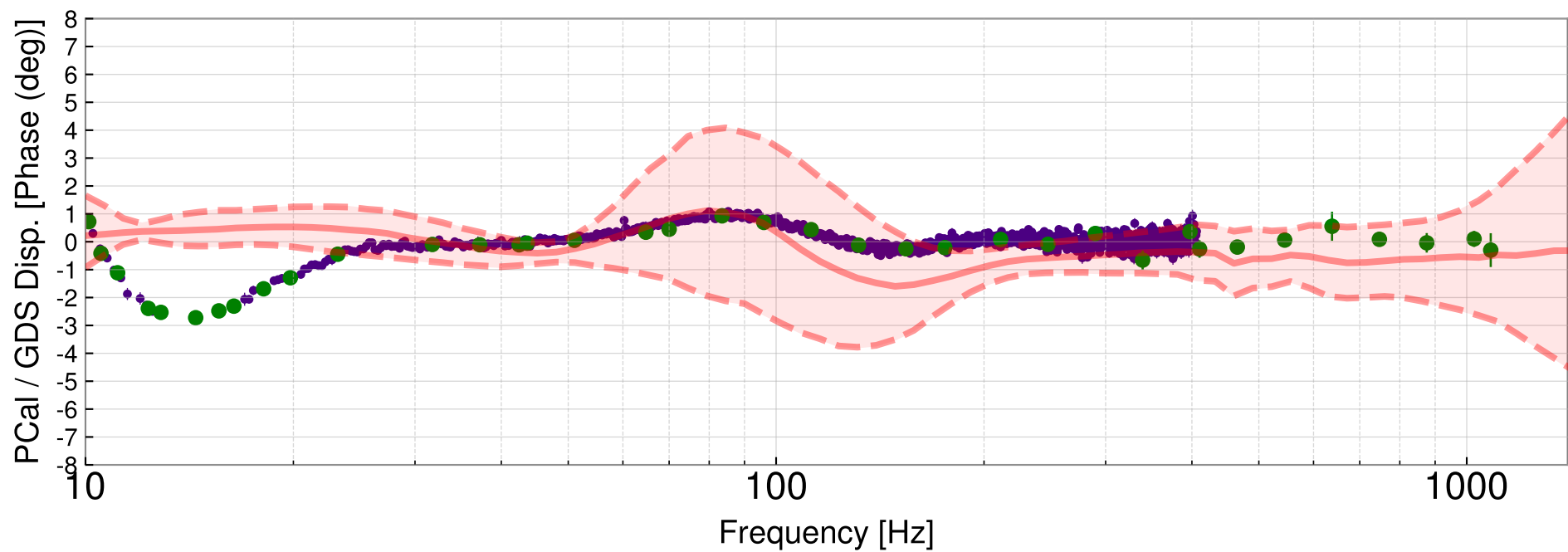
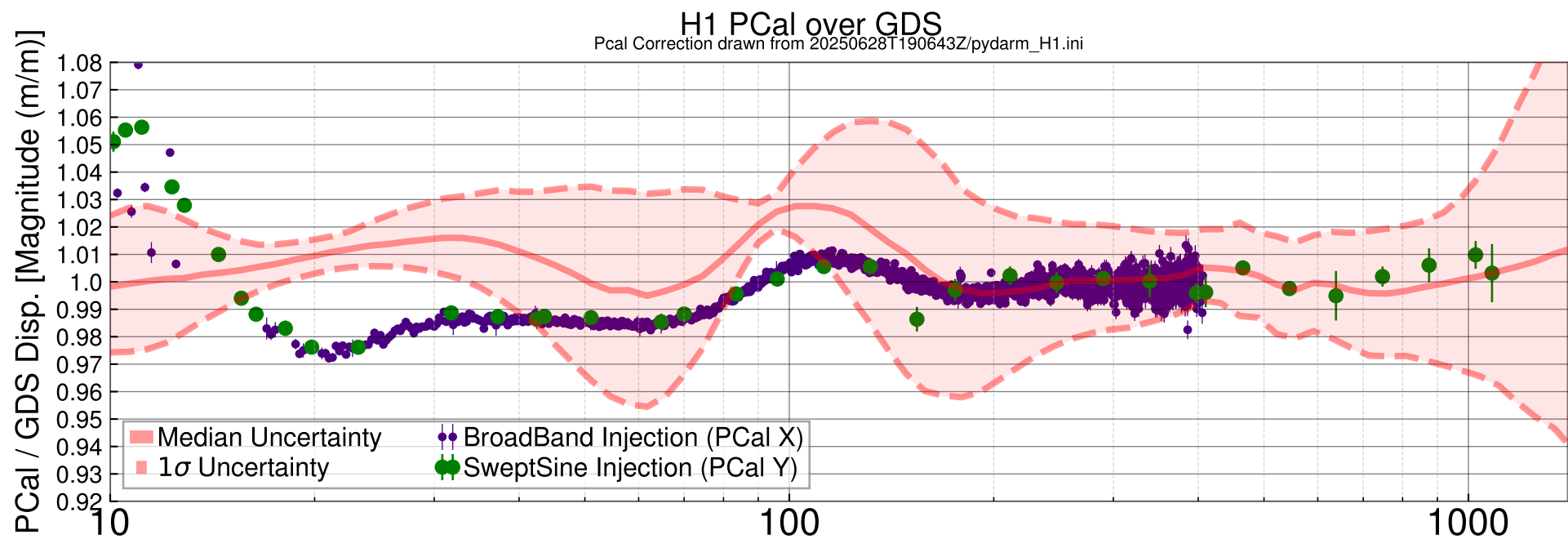
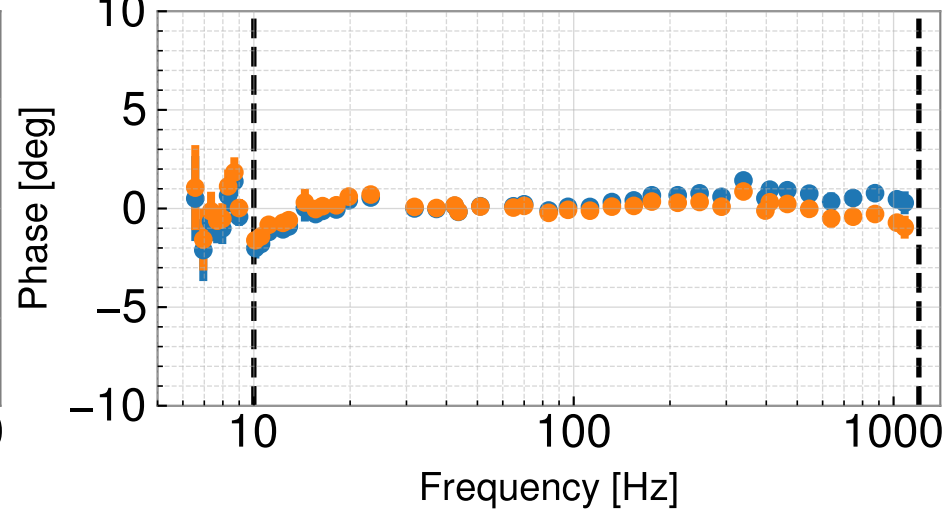
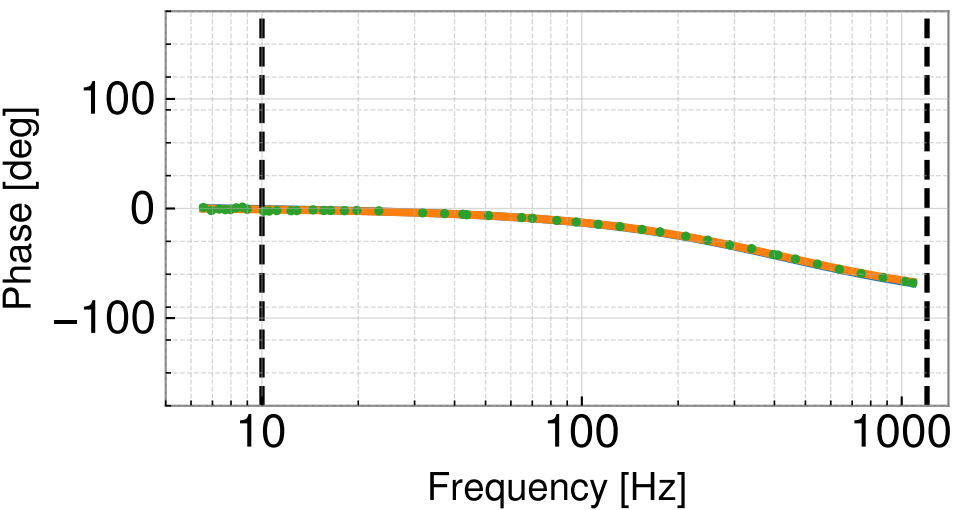
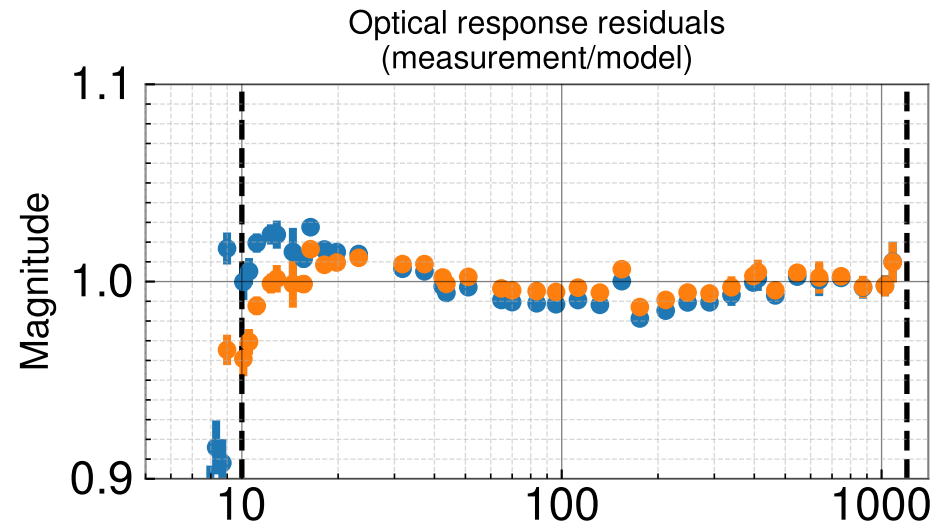
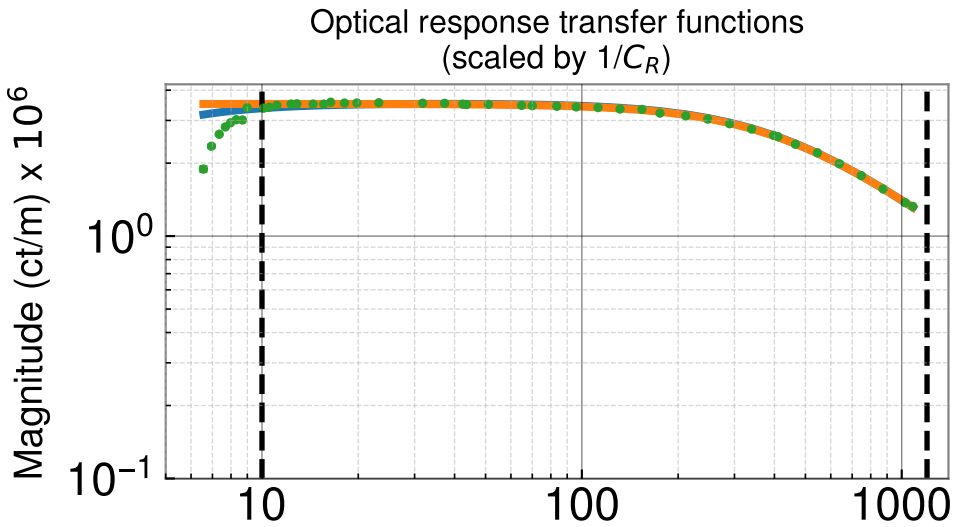
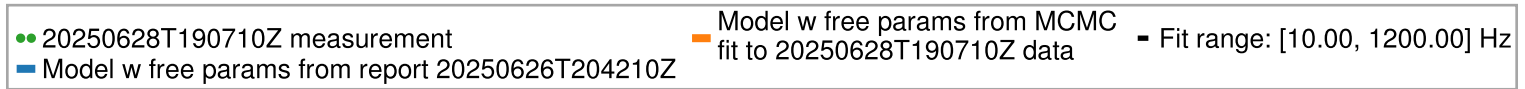




H1 sensing model MCMC summary

All fixed parameters drawn from 20250628T190643Z/pydarm_H1.ini

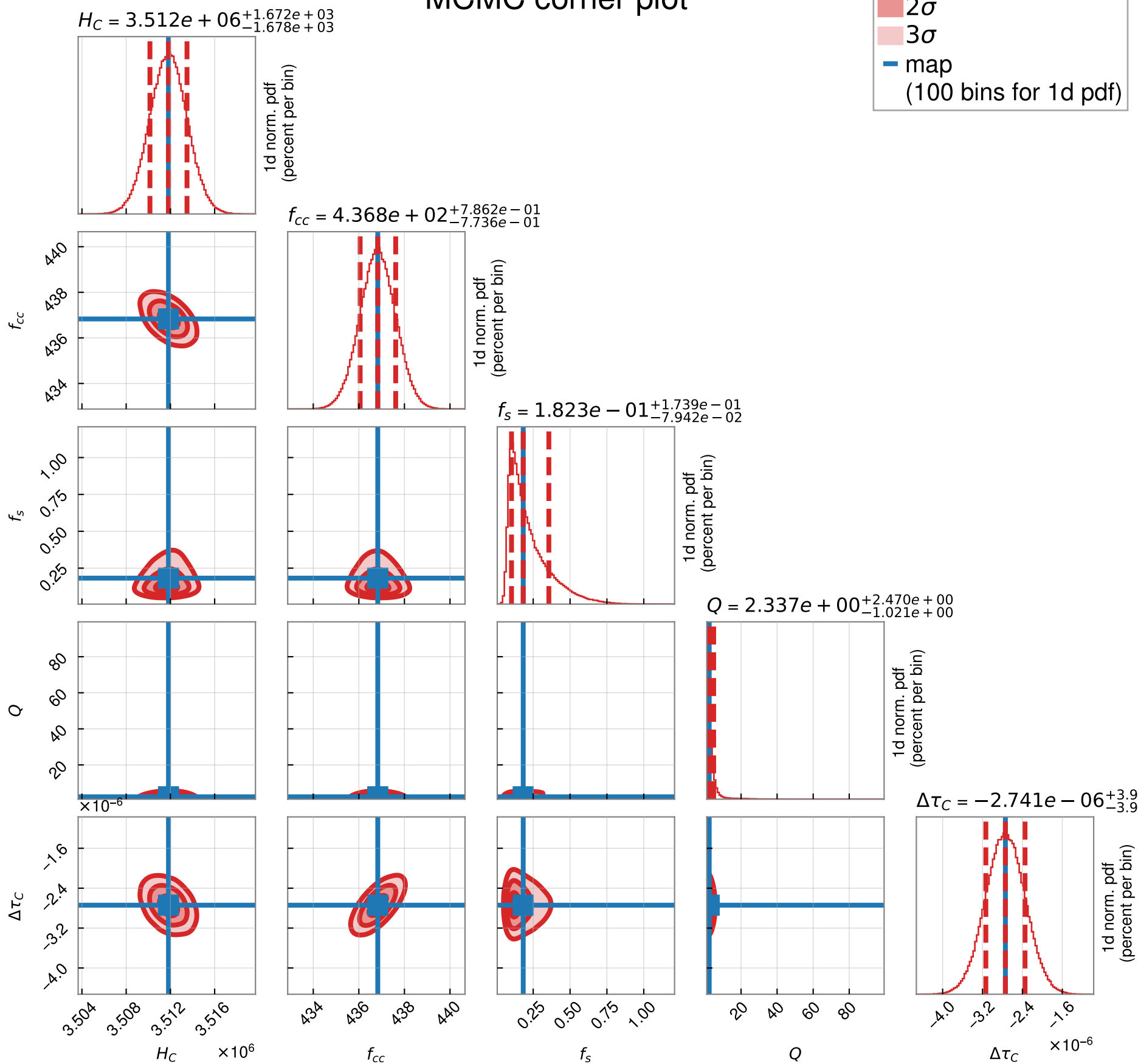


Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.512e+06	1672 (0.05%)	1678 (0.05%)
Cavity_pole, f_cc (Hz)	436.8	0.7862 (0.18%)	0.7736 (0.18%)
Detuned SRC spring frequency, f_s (Hz)	0.1823	0.1739 (95.37%)	0.07942 (43.56%)
Detuned SRC spring quality factor, Q_s	2.337	2.47 (105.70%)	1.021 (43.68%)
Residual time delay, tau_c (s)	-2.741e-06	3.936e-07 (-14.36%)	3.924e-07 (-14.32%)

2d pdf contours

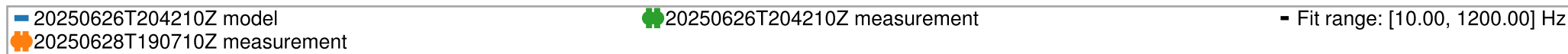
- 1 σ
- 2 σ
- 3 σ
- map

(100 bins for 1d pdf)

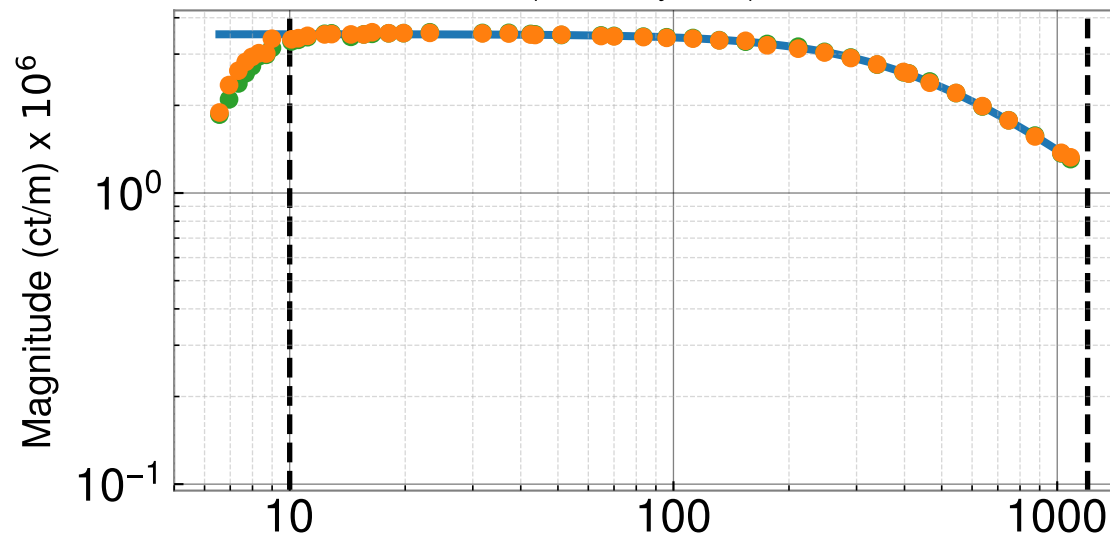


H1 sensing model history (last 9 measurements)

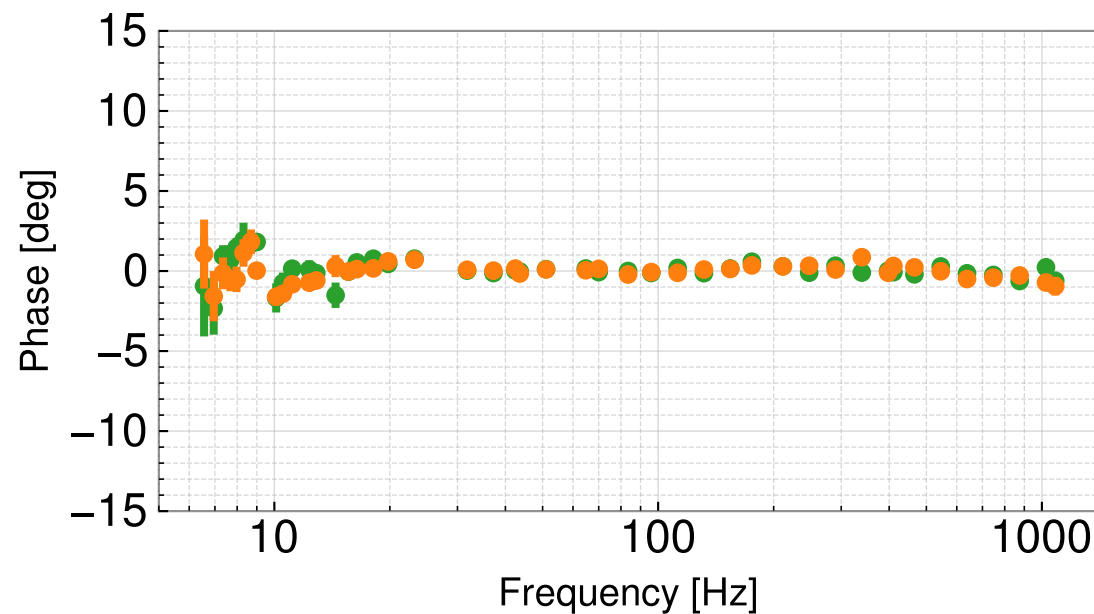
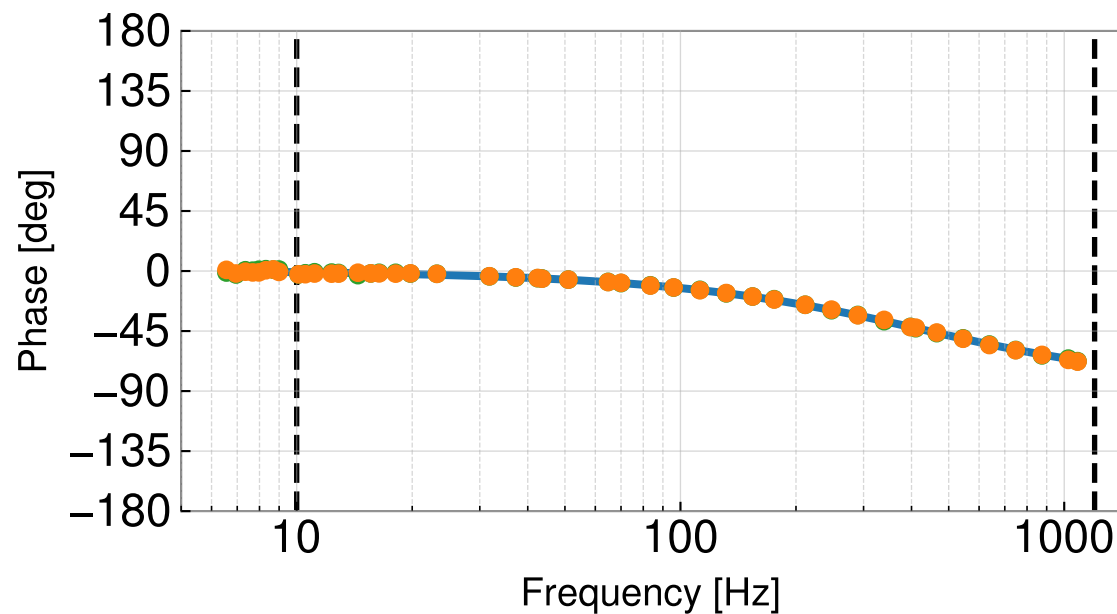
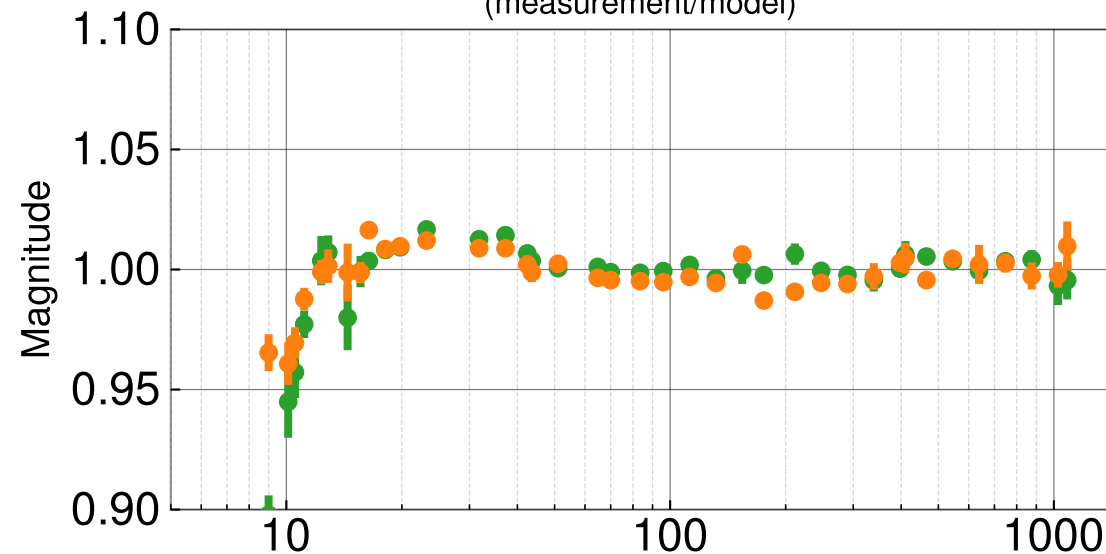
All fixed parameters drawn from 20250628T190643Z/pydarm_H1.ini



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

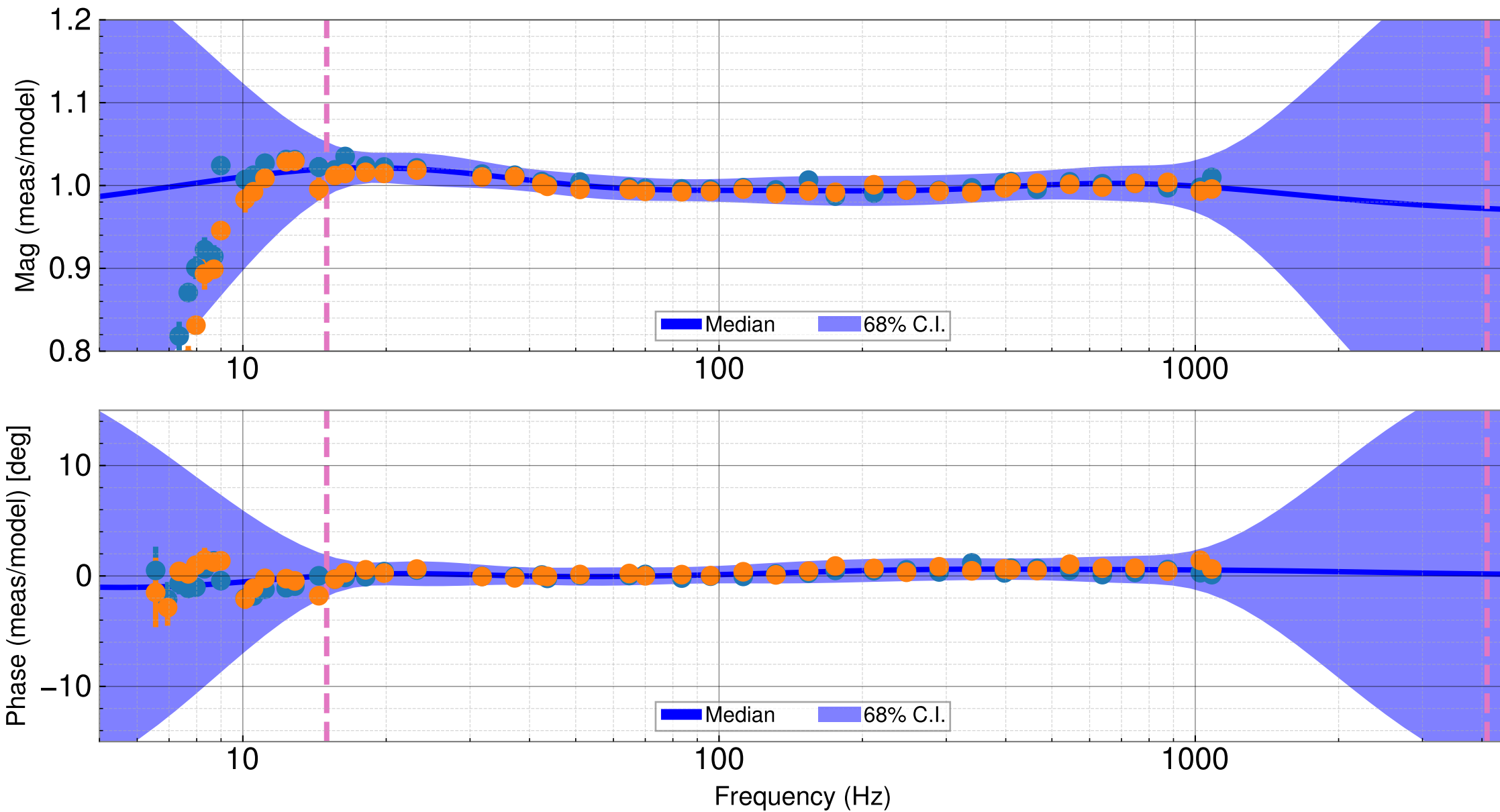


Optical response residuals
(measurement/model)



Sensing GPR

meas. 20250628T190710Z of report 20250628T190643Z meas. 20250626T204238Z of report 20250626T204210Z



H1SUSEX L1 actuation model MCMC summary

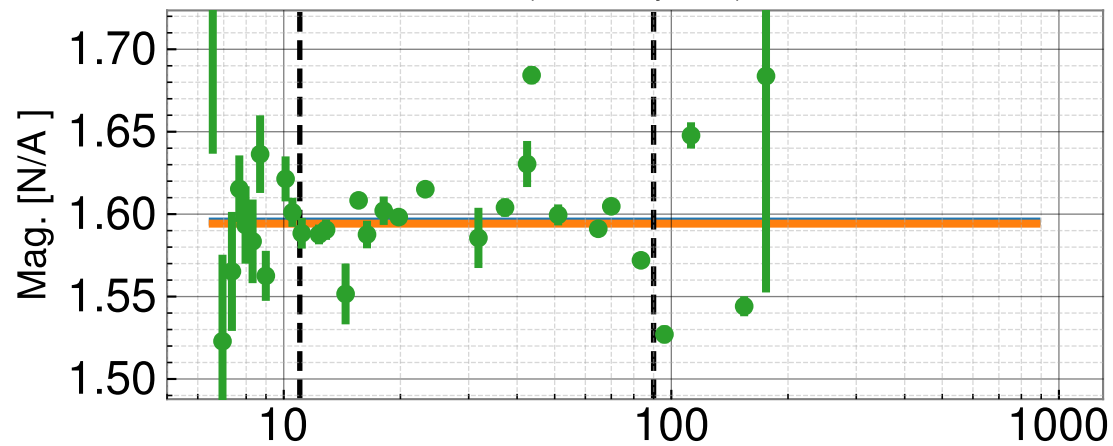
All fixed parameters drawn from 20250628T190643Z/pydarm_H1.ini

— Model w free params from report 20250610T224009Z
— Model w free params from
— MCMC fit to 20250628T190710Z data

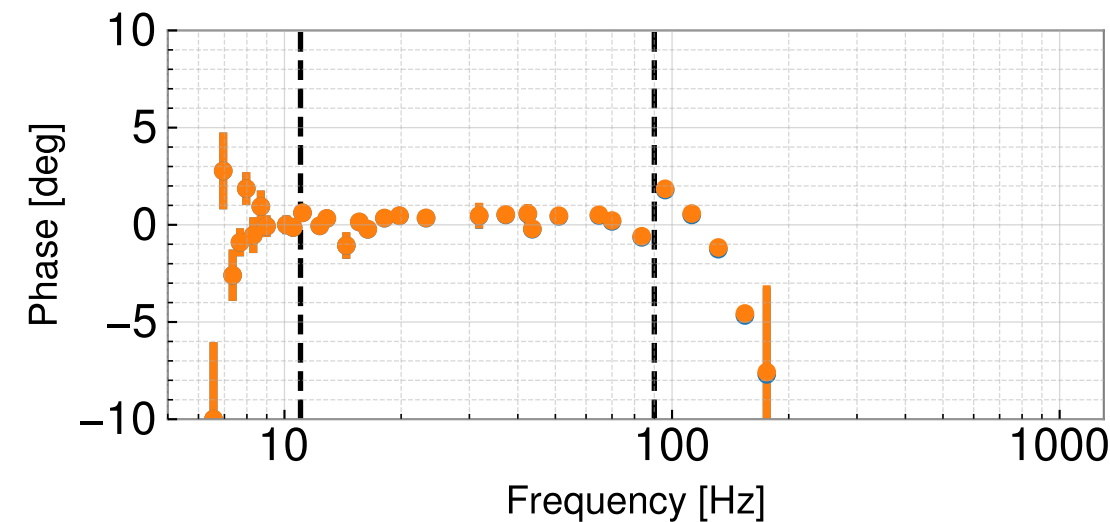
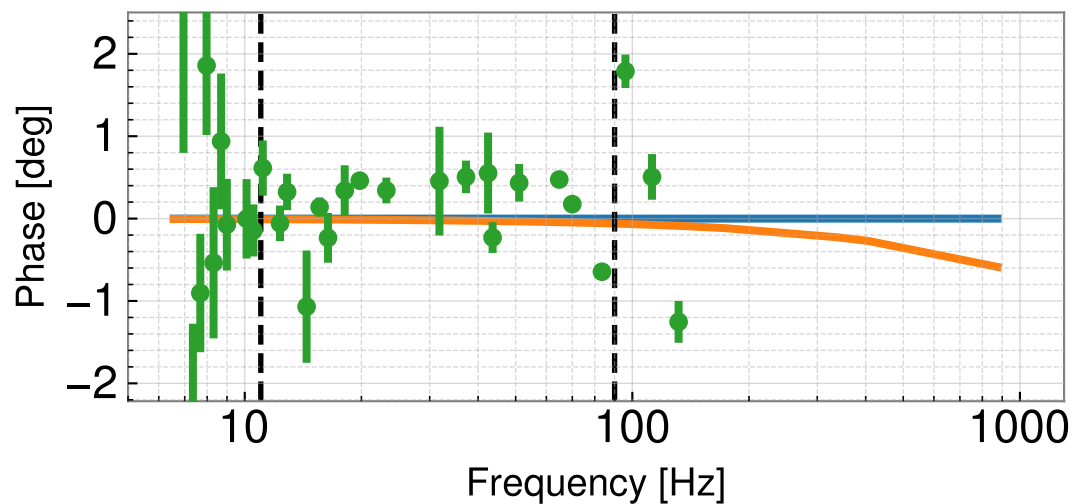
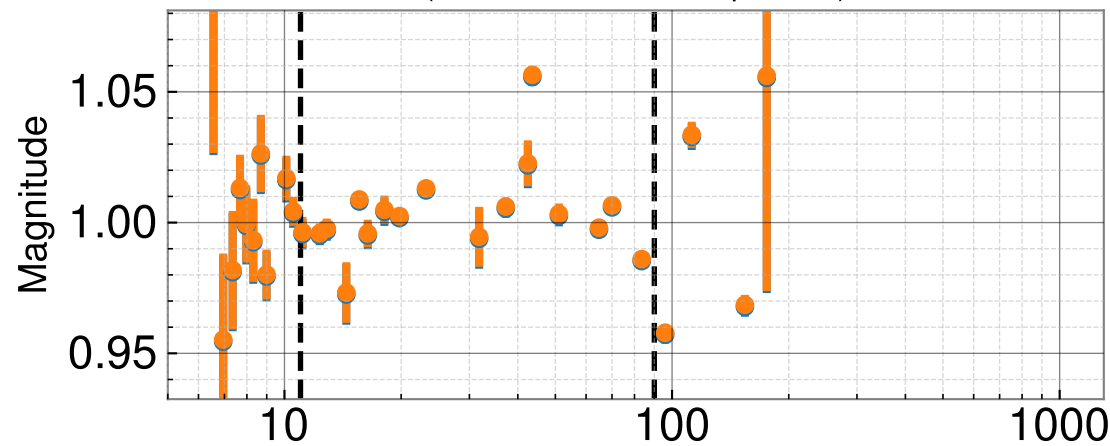
■ 20250628T190710Z measurement

— Fit range 11.0 to 90.0 Hz

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

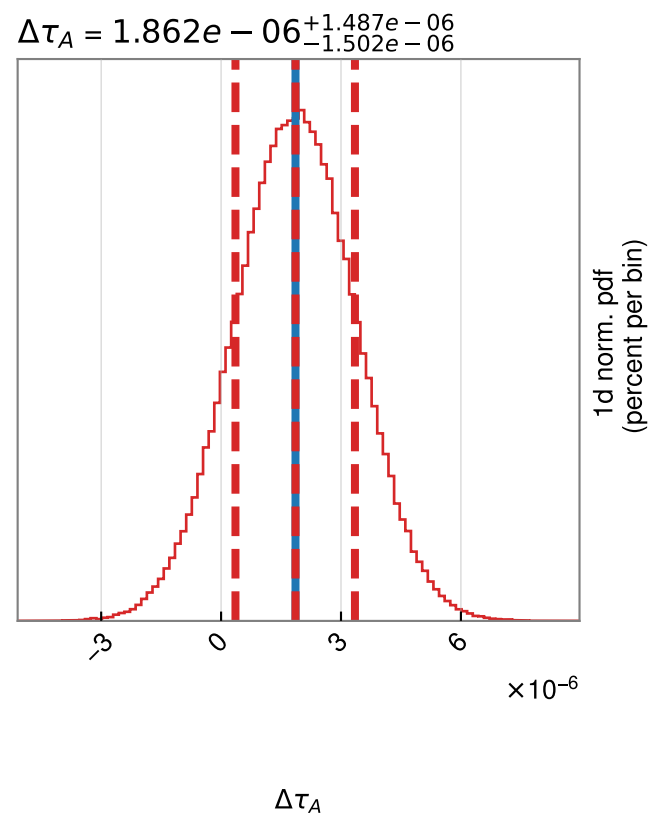
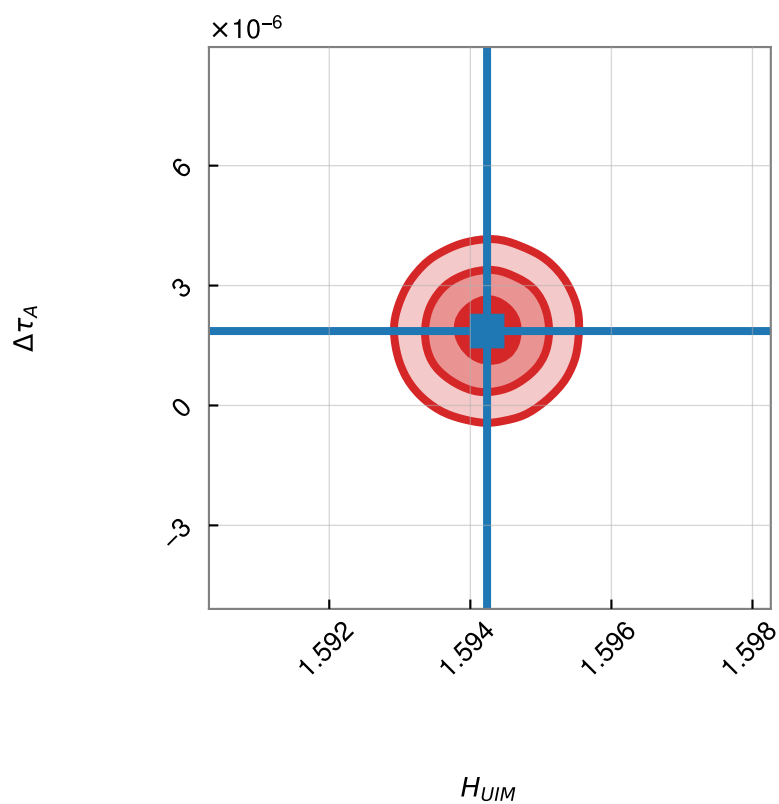
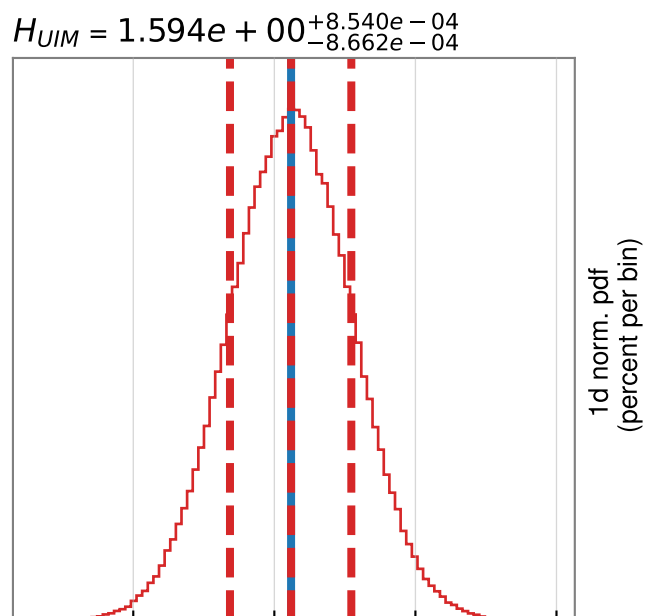
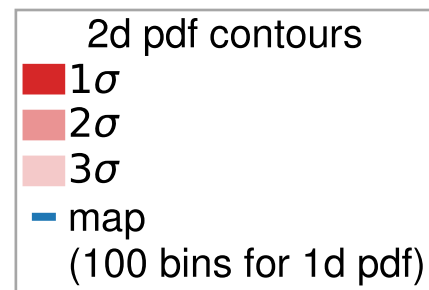


Actuation strength residuals
(meas./model w. free params)



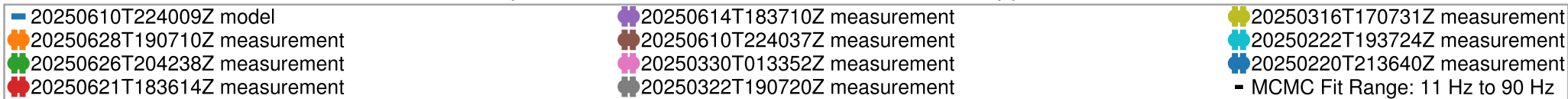
Parameter	(value +/-) value	+	-
Actuation Gain, Hau (N/A)	1.594	0.000854 (0.05%)	0.000862 (0.05%)
Residual time delay, tau_A (s)	1.862e-06	1.487e-06 (79.89%)	1.502e-06 (80.68%)

20250628T190710Z EX L1 actuation MCMC corner plot

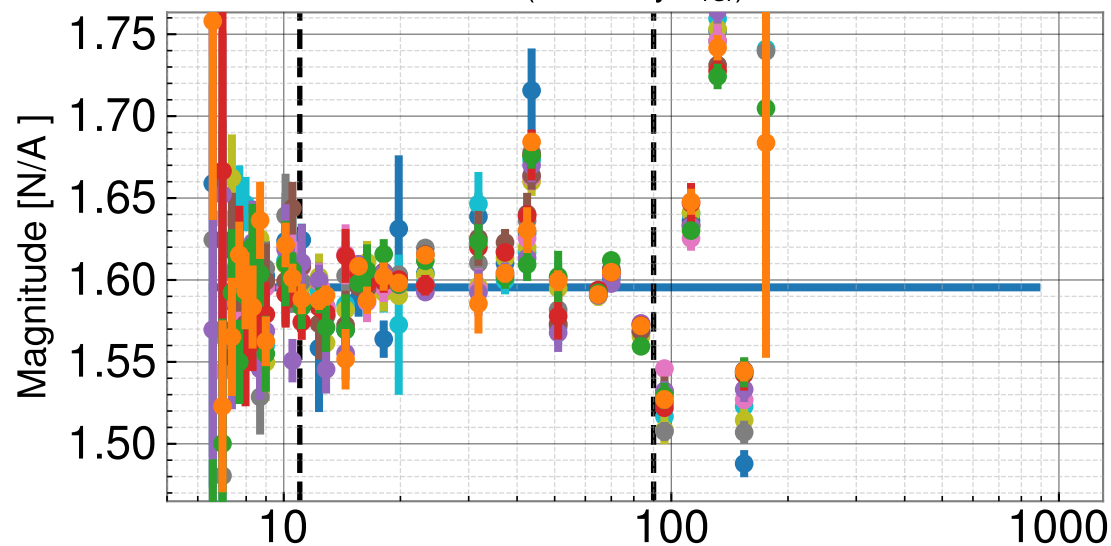


H1SUSEX L1 actuation model history (last 9 measurements)

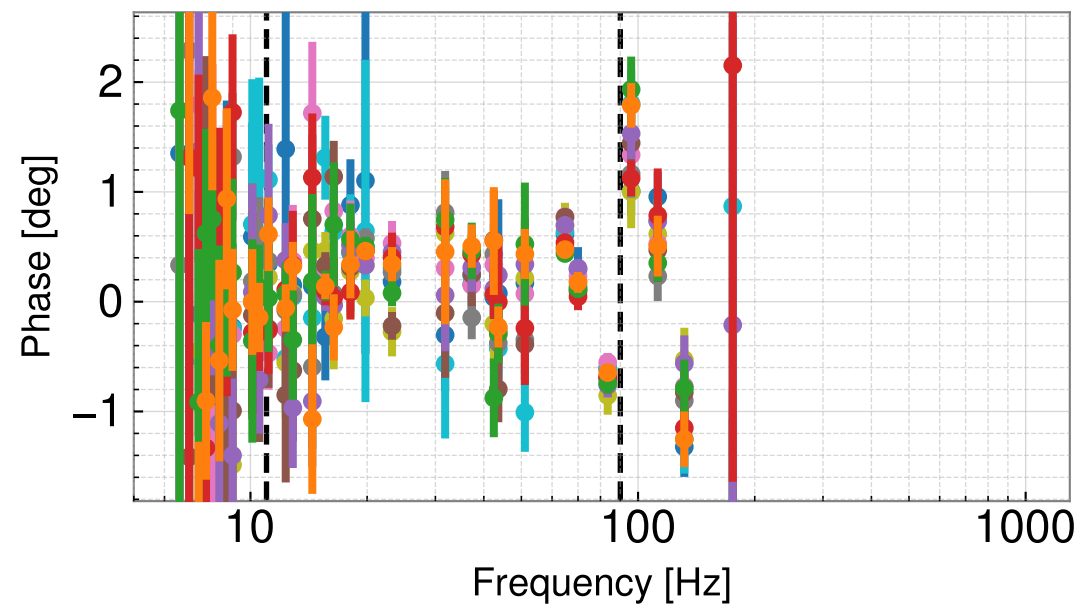
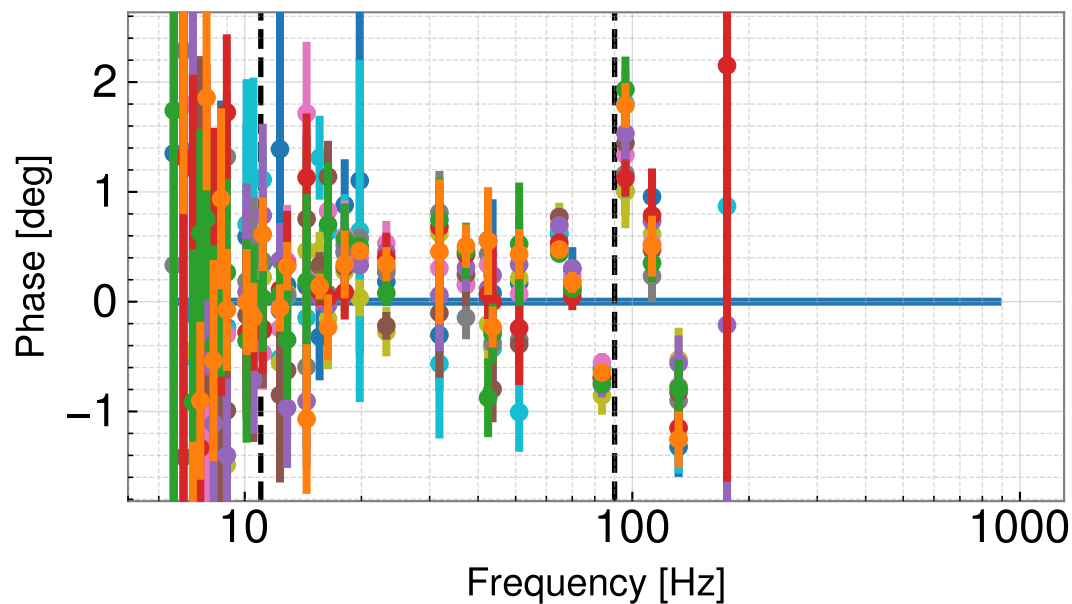
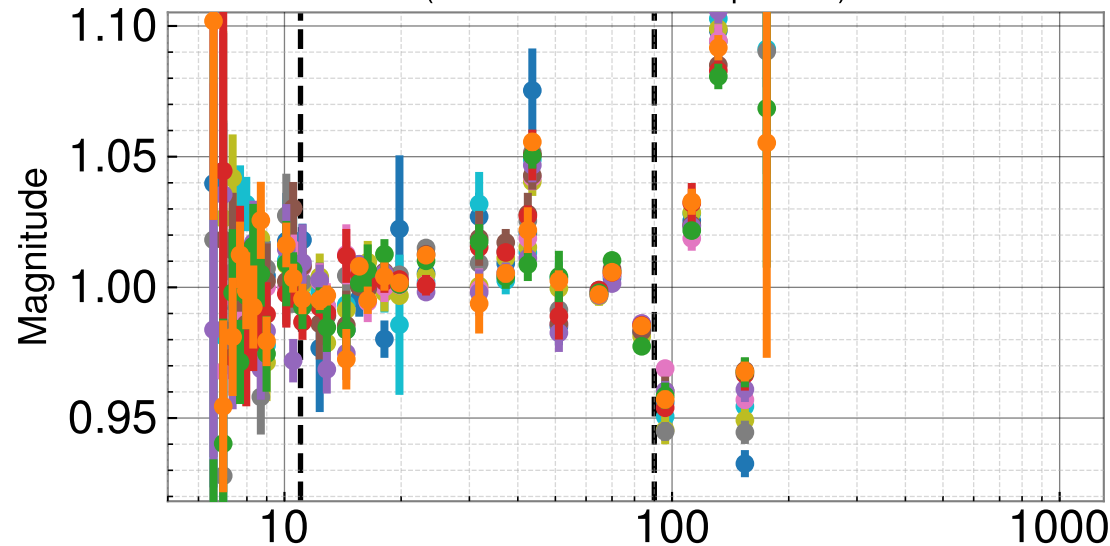
All fixed parameters drawn from 20250628T190643Z/pydarm_H1.ini



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

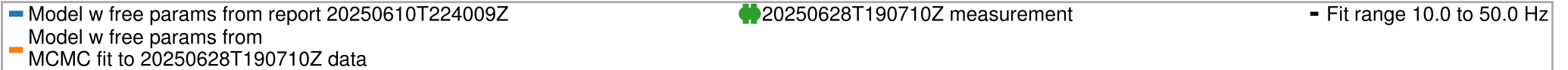


Actuation strength residuals
(meas./model w. free params)

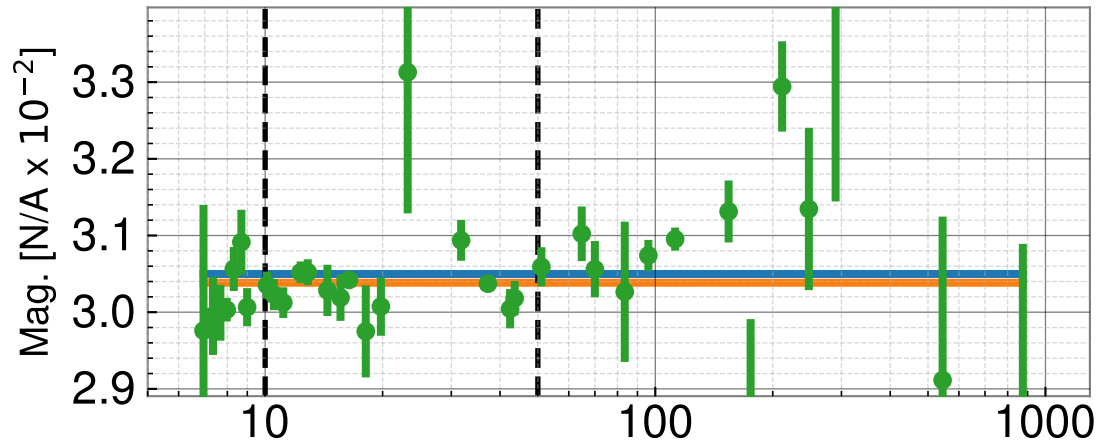


H1SUSEX L2 actuation model MCMC summary

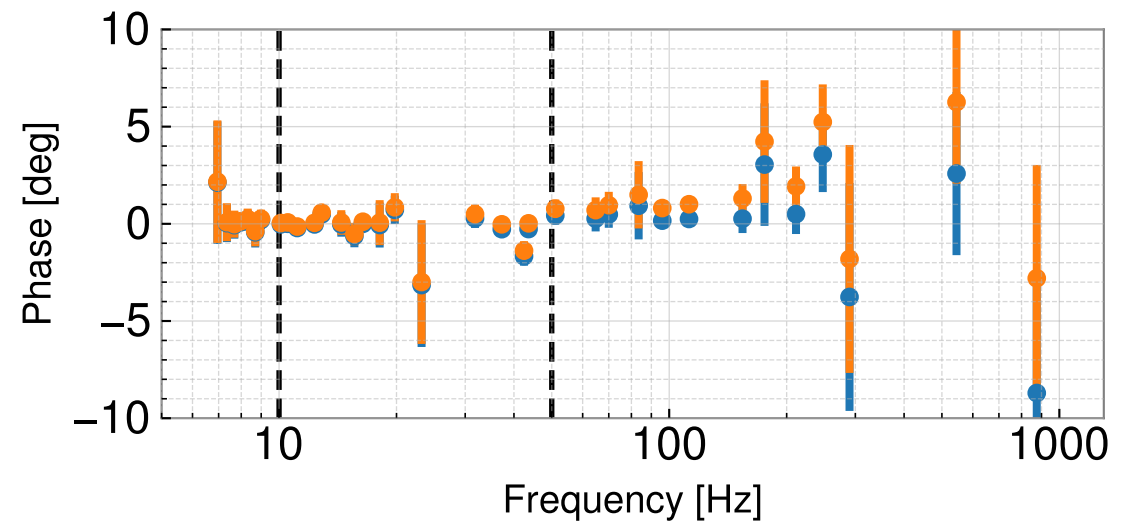
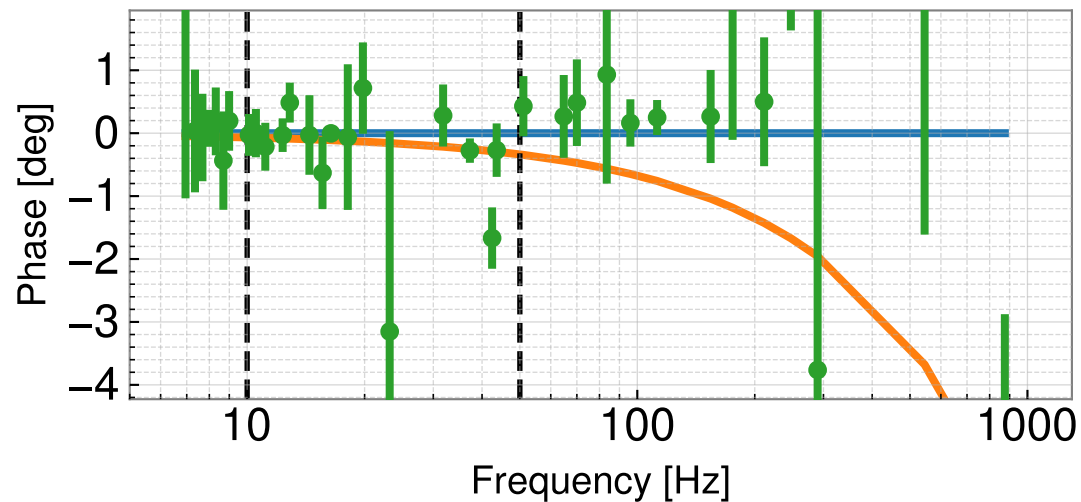
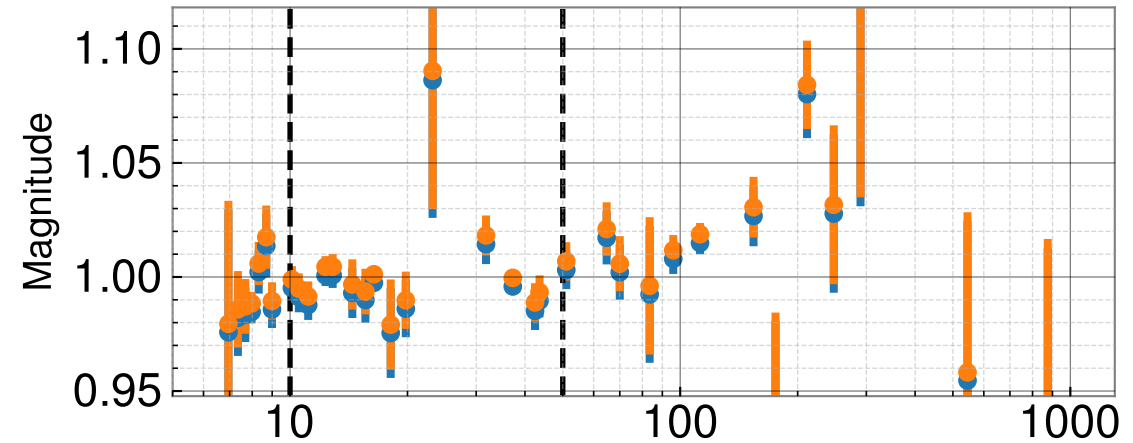
All fixed parameters drawn from 20250628T190643Z/pydarm_H1.ini



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

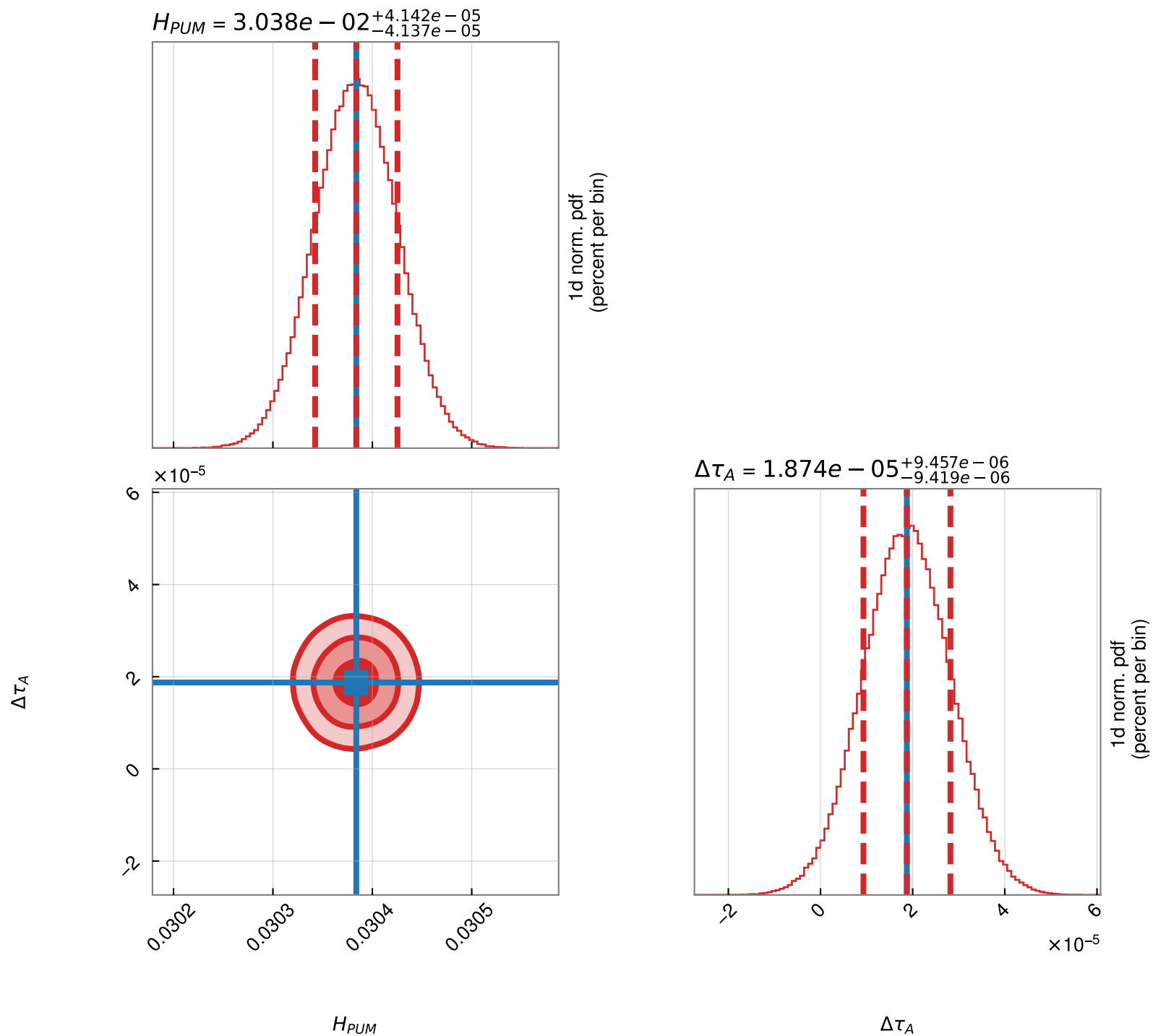
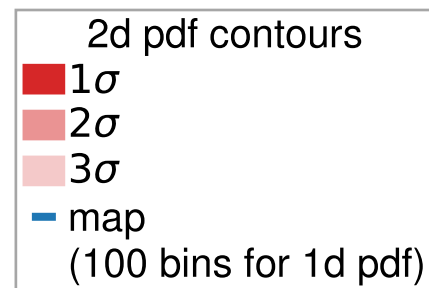


Actuation strength residuals
(meas./model w. free params)



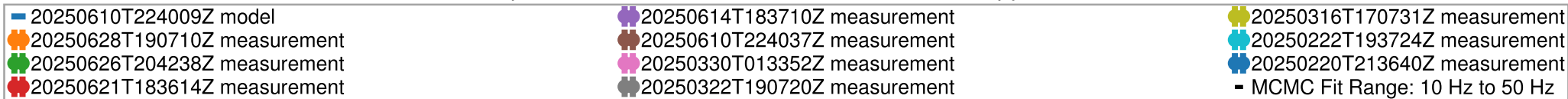
Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.03038	4.142e-05 (0.14%)	4.137e-05 (0.14%)
Residual time delay, tau_A (s)	1.874e-05	9.457e-06 (50.46%)	9.419e-06 (50.26%)

20250628T190710Z EX L2 actuation MCMC corner plot

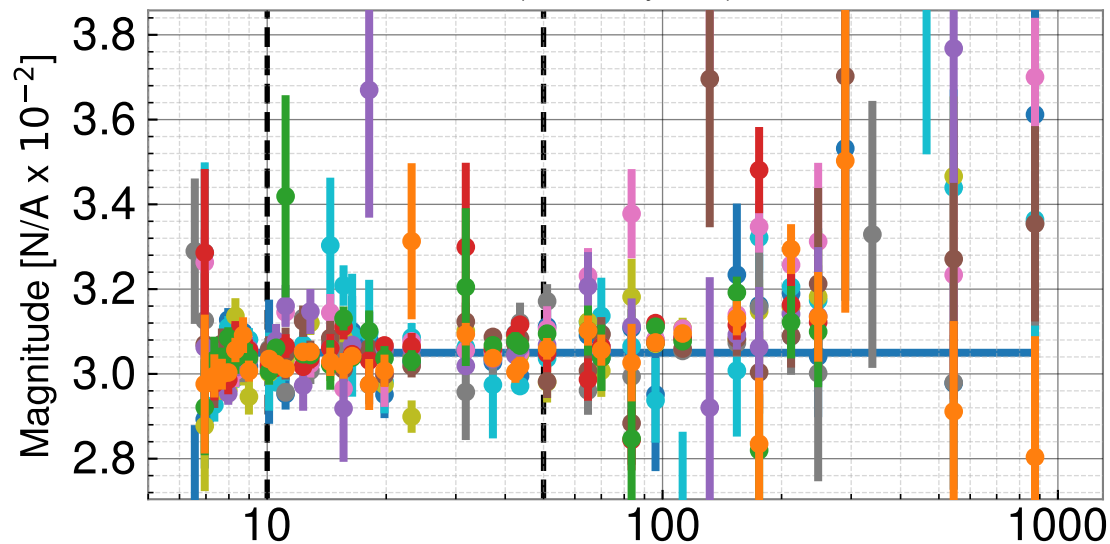


H1SUSEX L2 actuation model history (last 9 measurements)

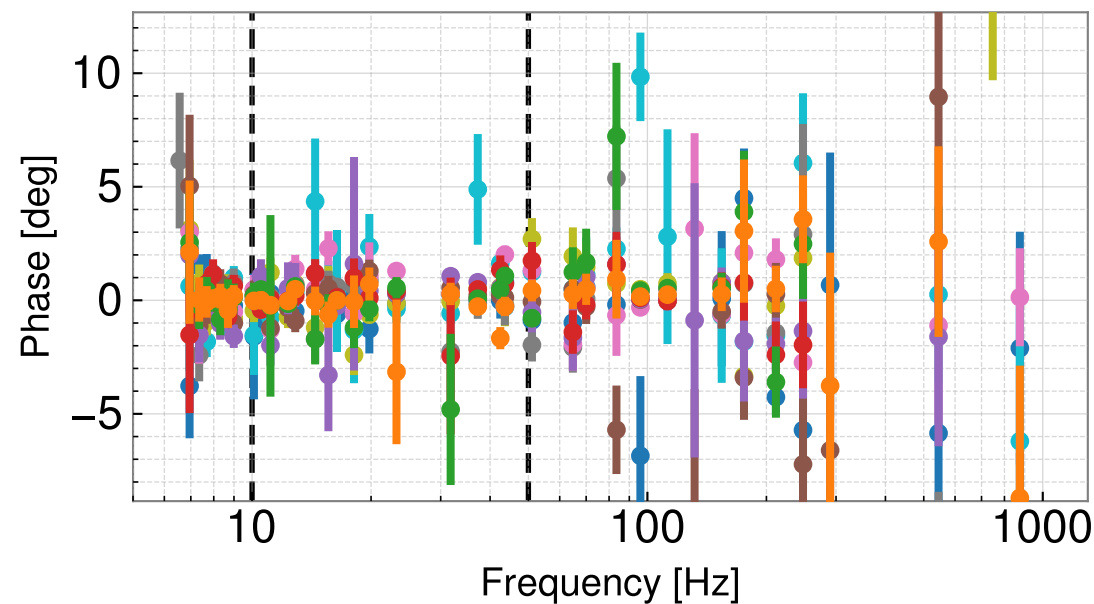
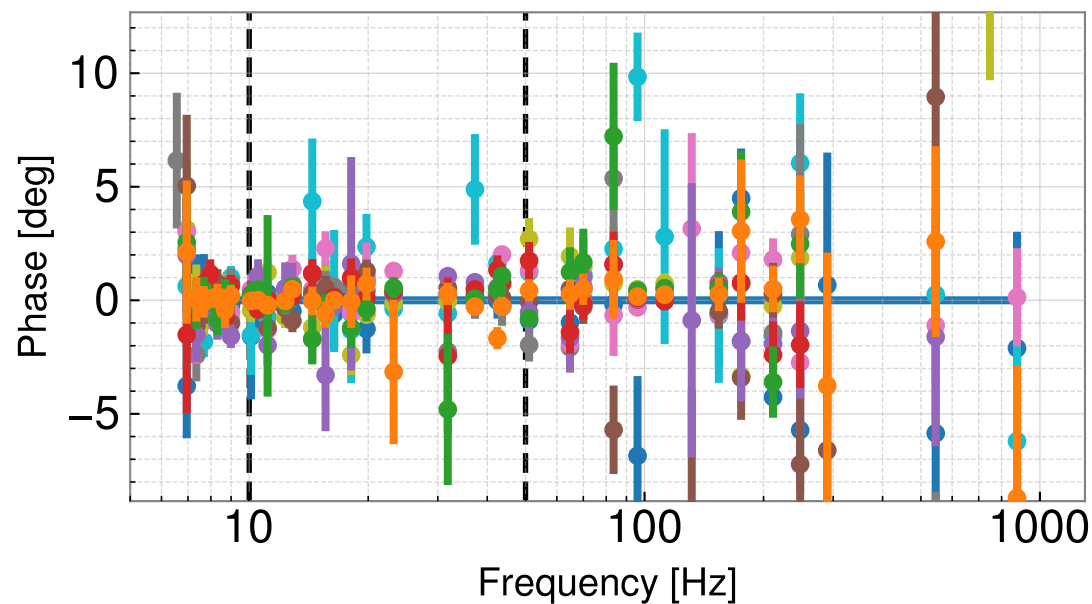
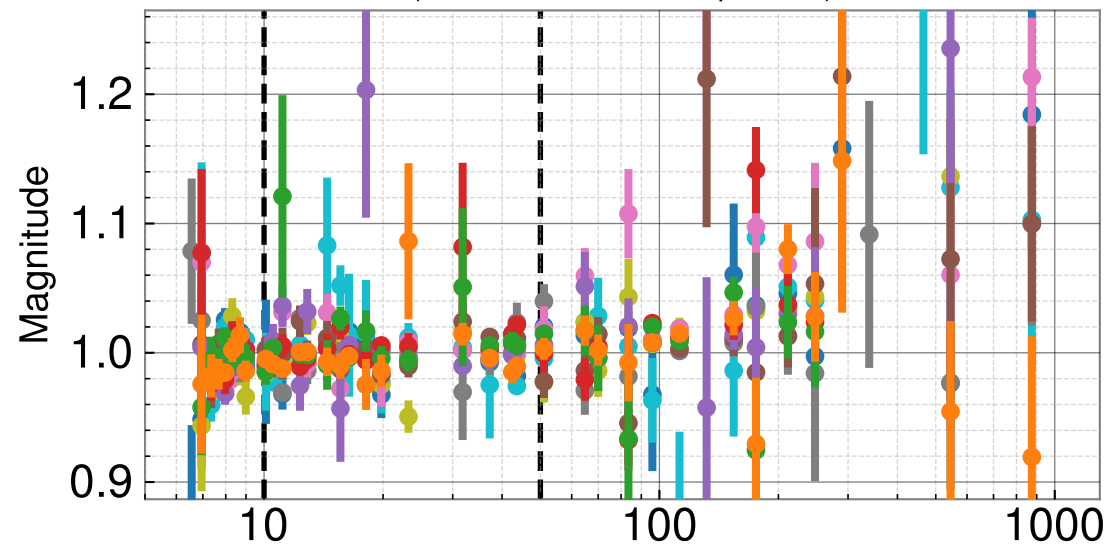
All fixed parameters drawn from 20250628T190643Z/pydarm_H1.ini



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



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

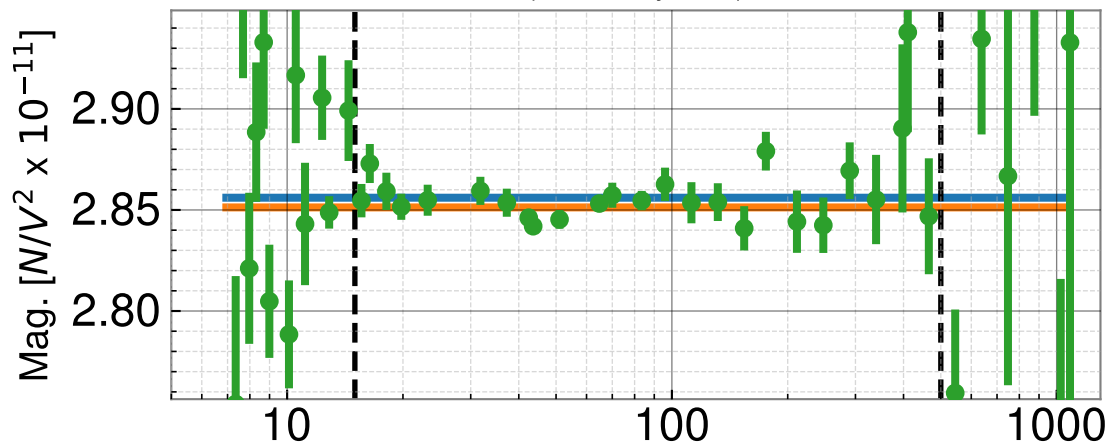


H1SUSEX L3 actuation model MCMC summary

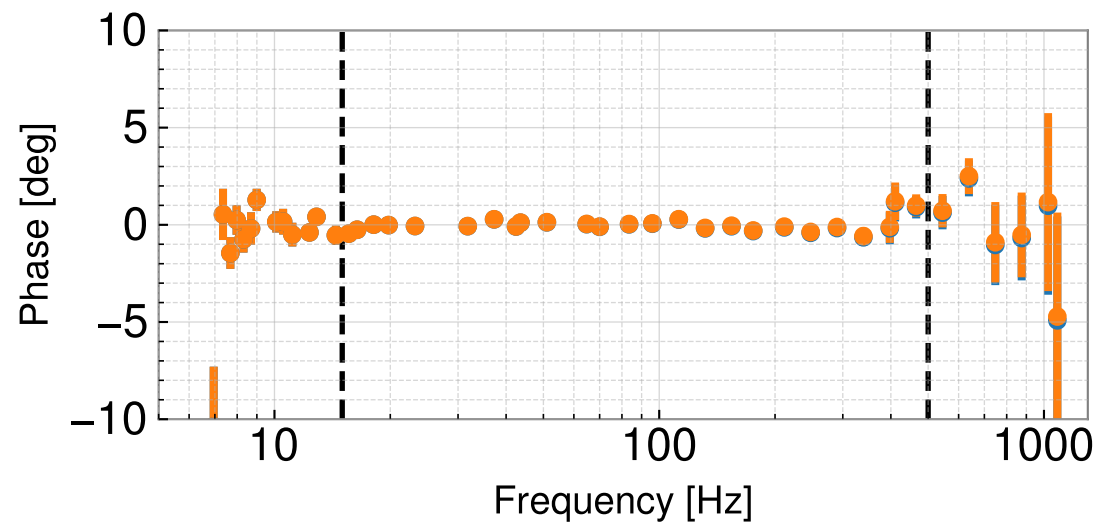
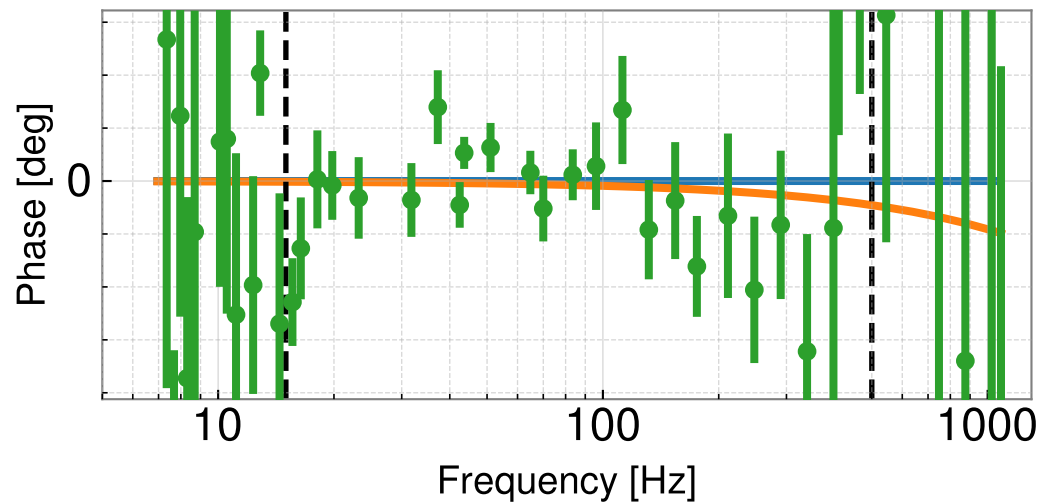
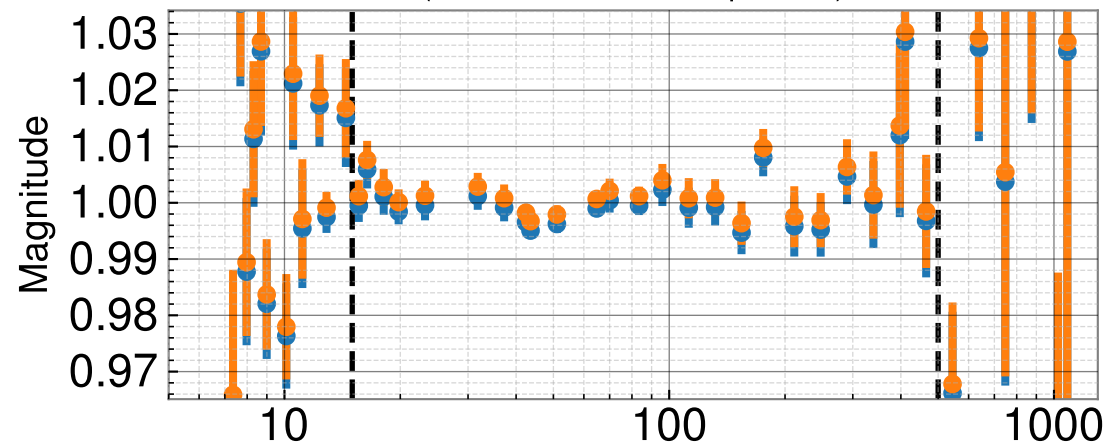
All fixed parameters drawn from 20250628T190643Z/pydarm_H1.ini

— Model w free params from report 20250610T224009Z
— Model w free params from
— MCMC fit to 20250628T190710Z data
■ 20250628T190710Z measurement
— Fit range 15.0 to 500.0 Hz

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

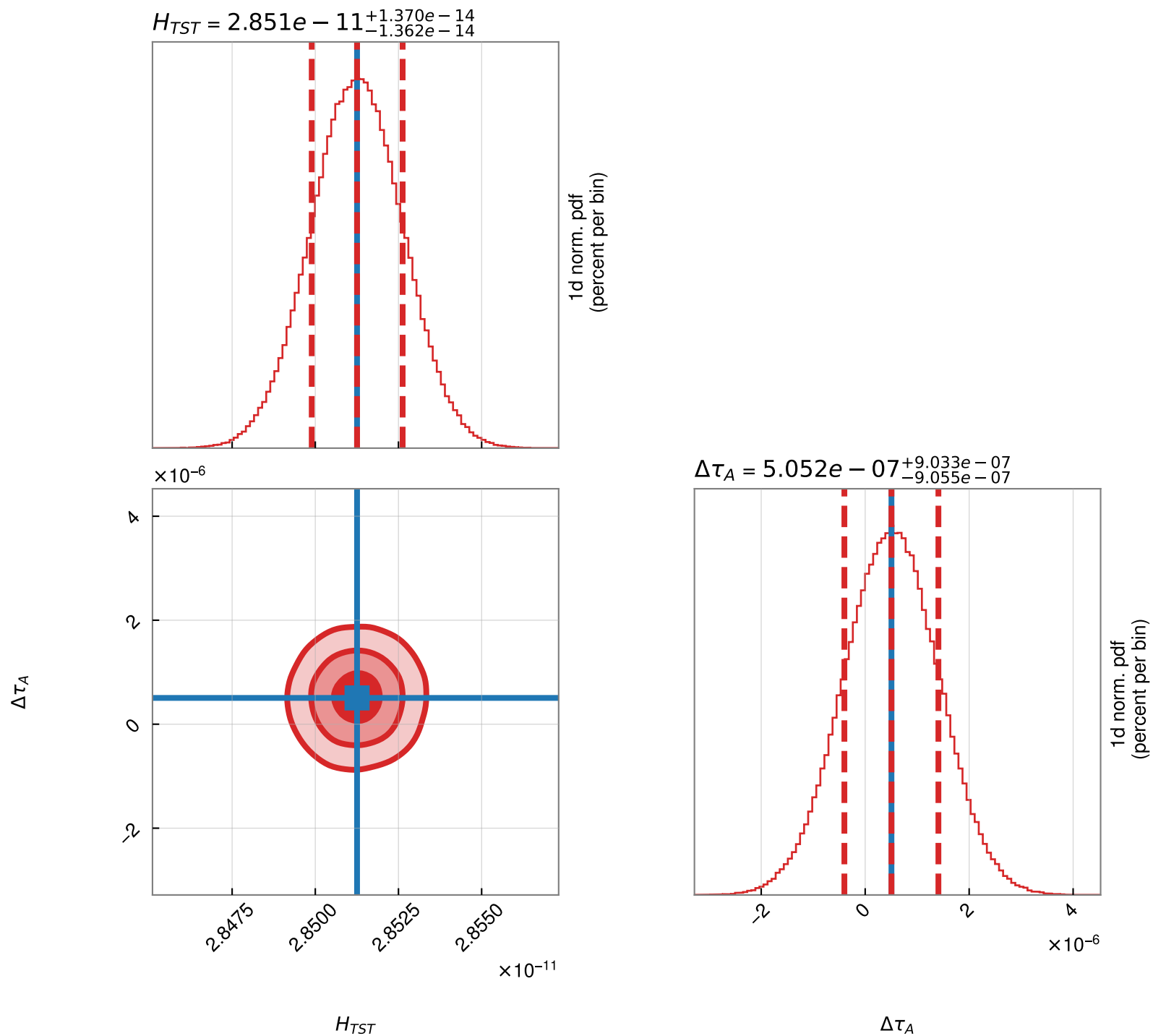
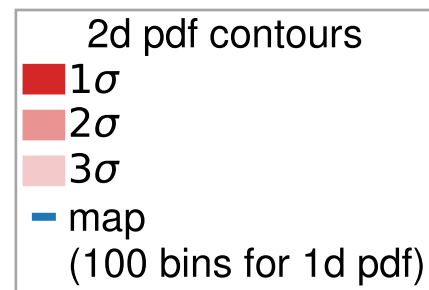


Actuation strength residuals
(meas./model w. free params)



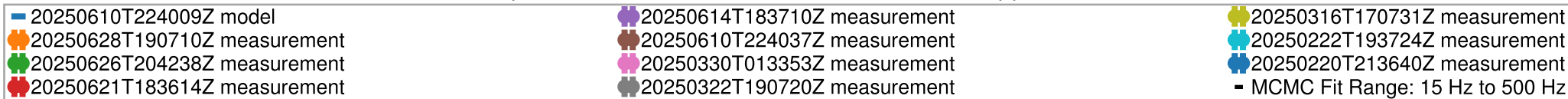
Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V^{**2})	2.851e-11	1.37e-14 (0.05%)	1.362e-14 (0.05%)
Residual time delay, tau_A (s)	5.052e-07	9.033e-07 (178.80%)	9.055e-07 (179.23%)

20250628T190710Z EX L3 actuation MCMC corner plot

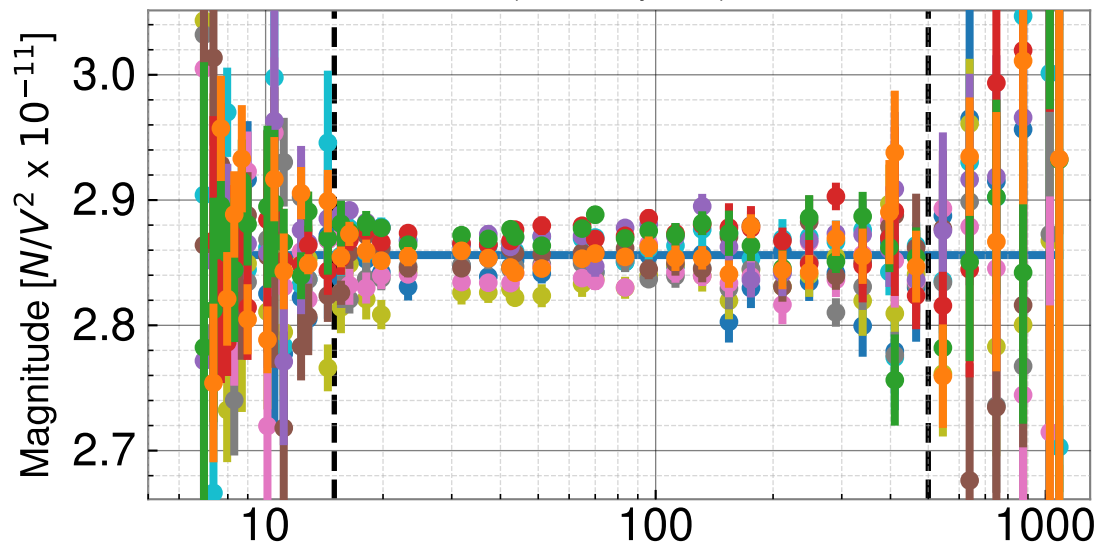


H1SUSEX L3 actuation model history (last 9 measurements)

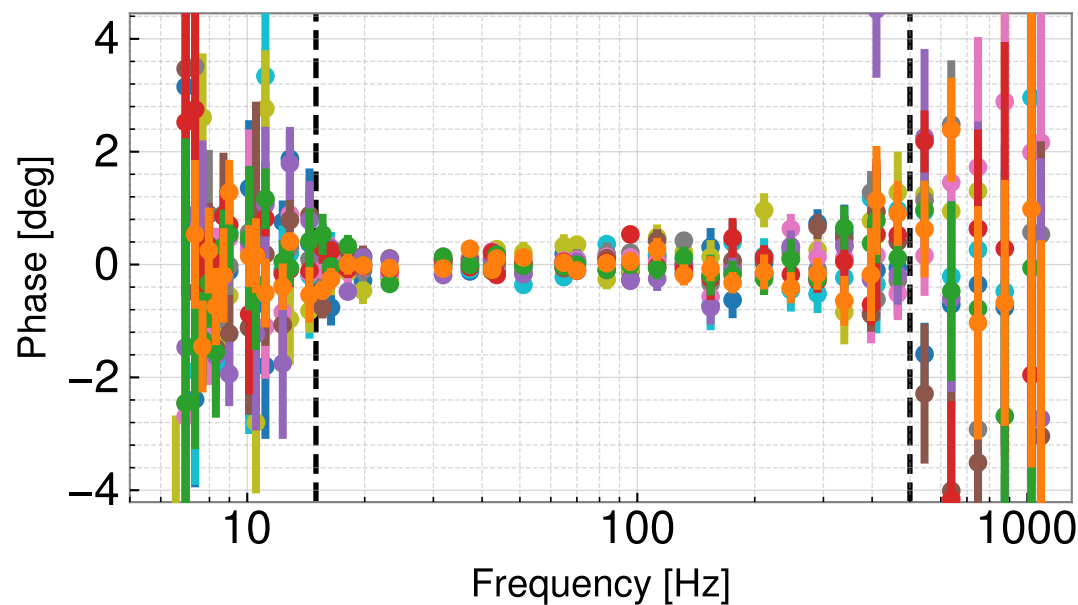
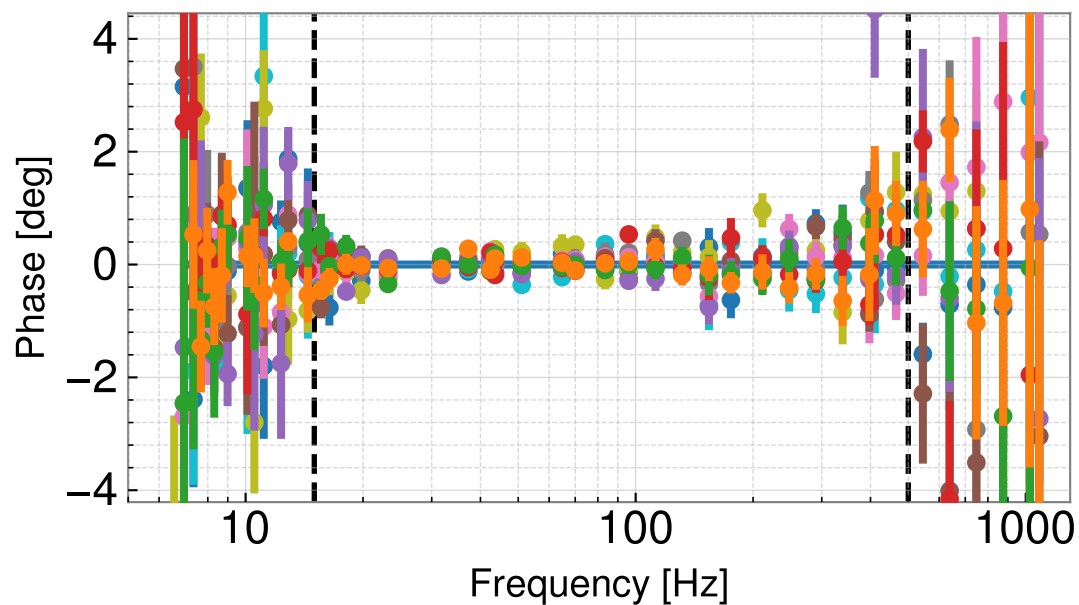
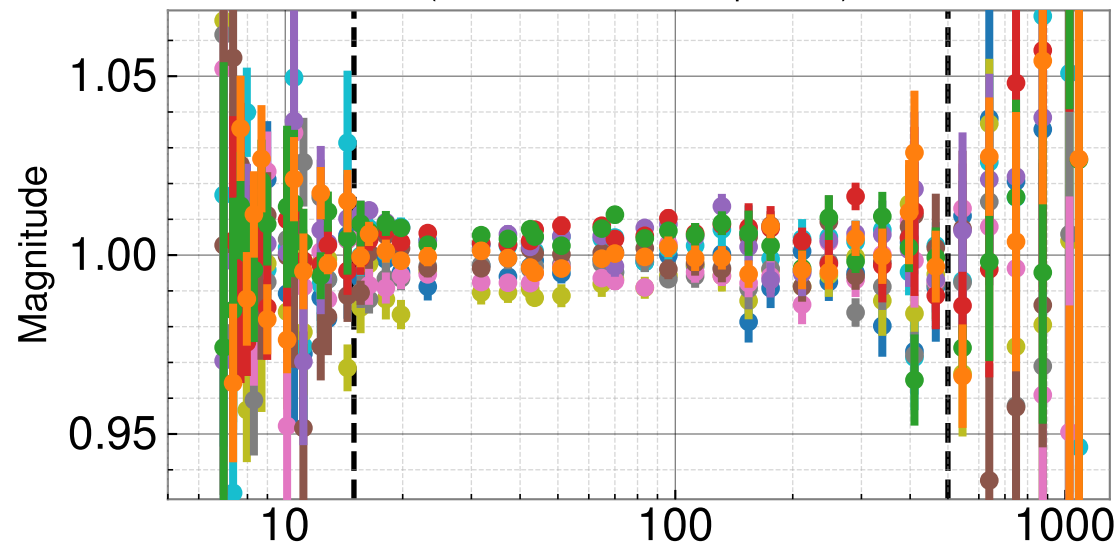
All fixed parameters drawn from 20250628T190643Z/pydarm_H1.ini



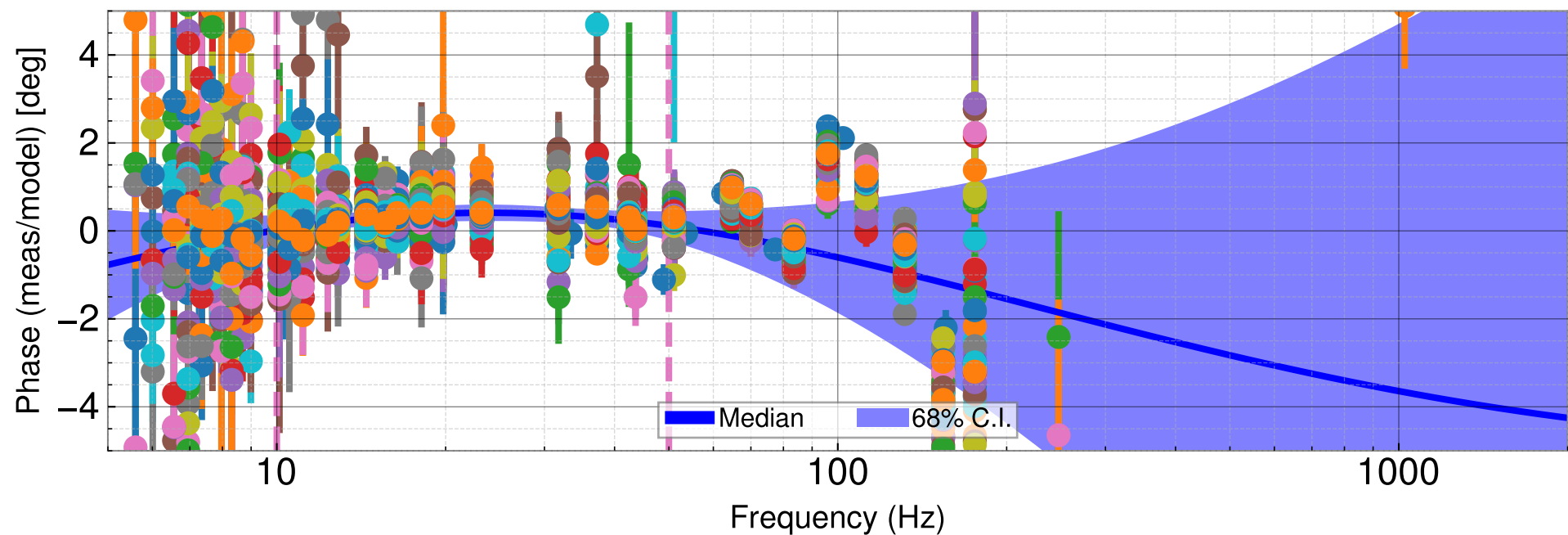
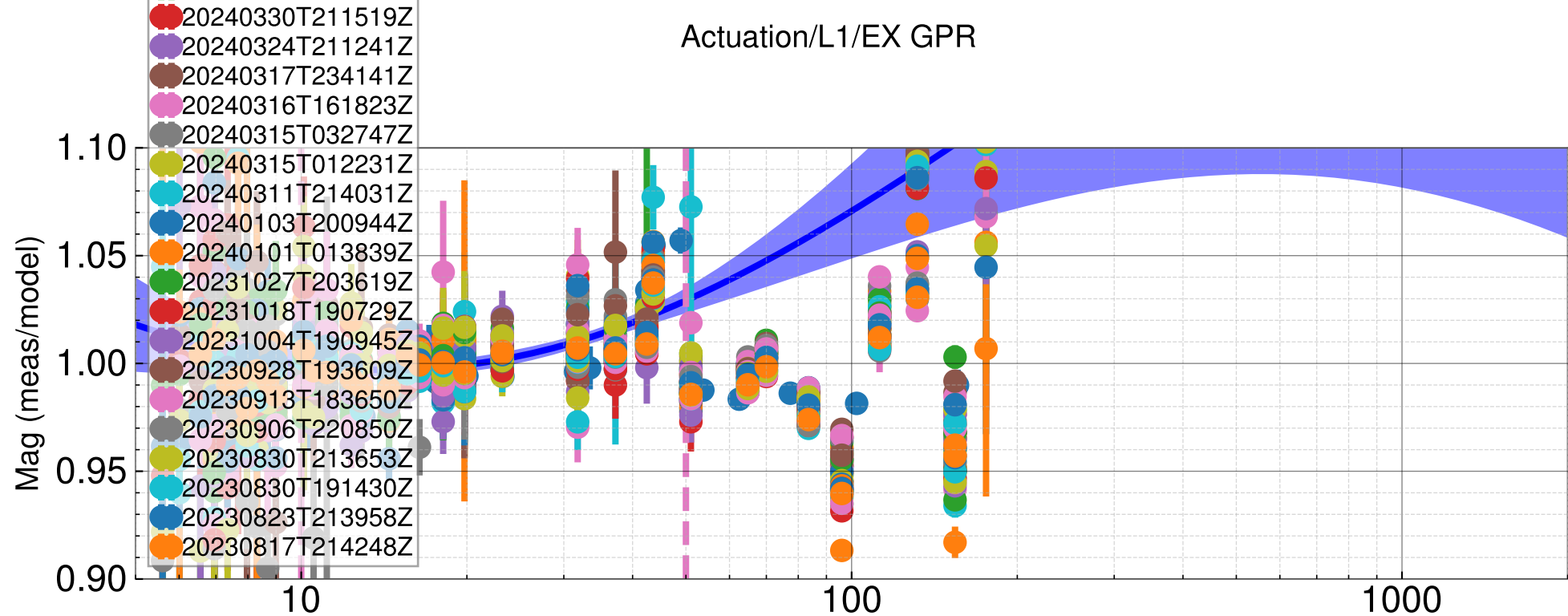
Actuation strength transfer functions
(scaled by H_{ref})



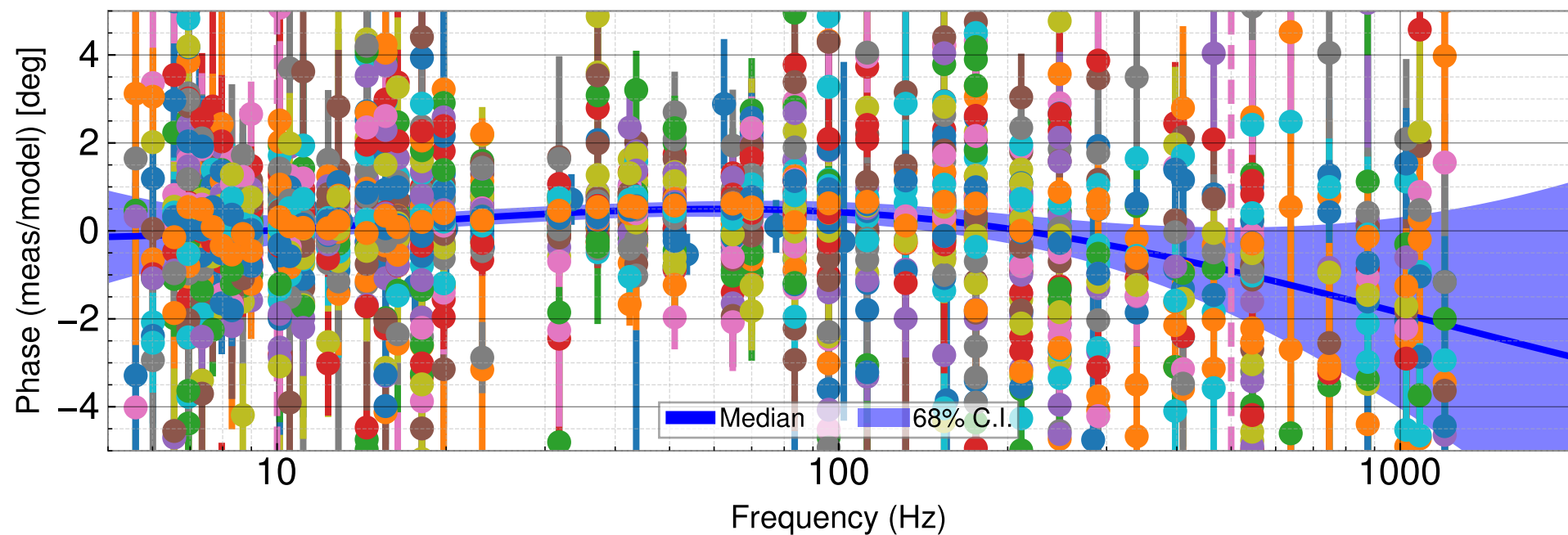
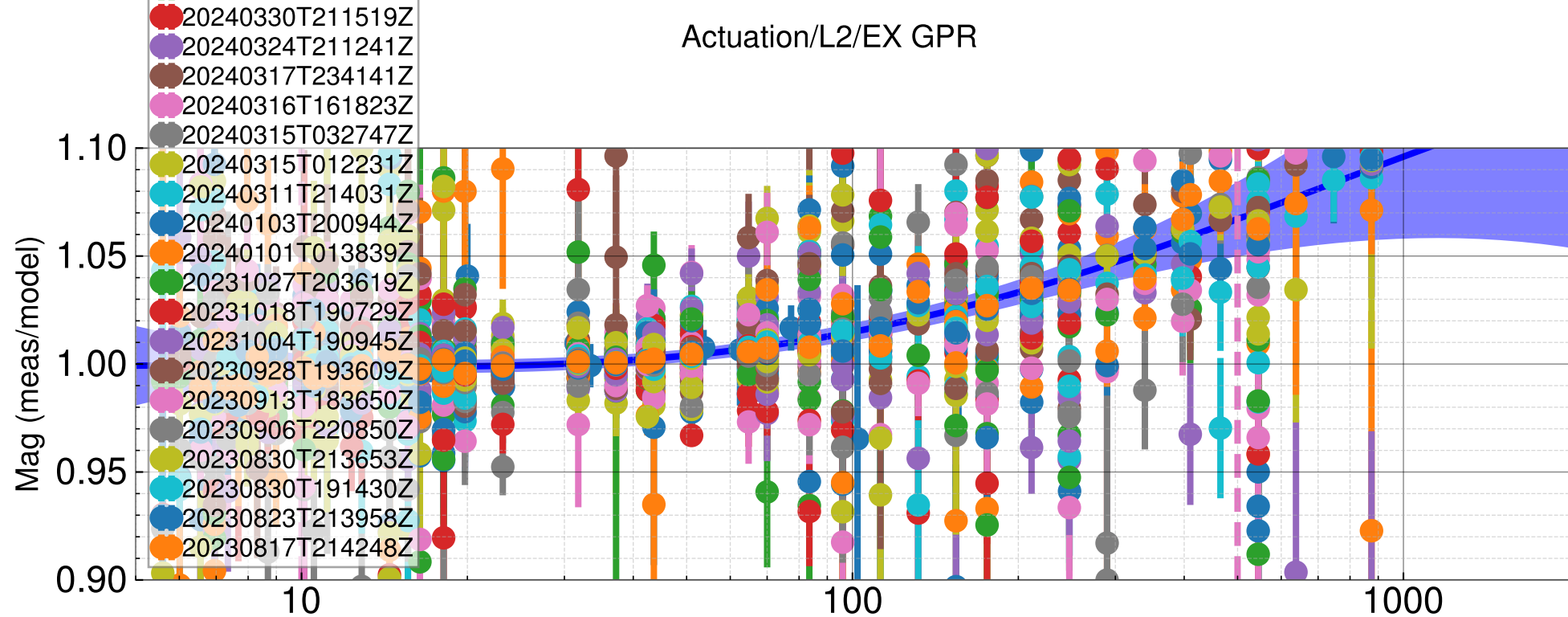
Actuation strength residuals
(meas./model w. free params)



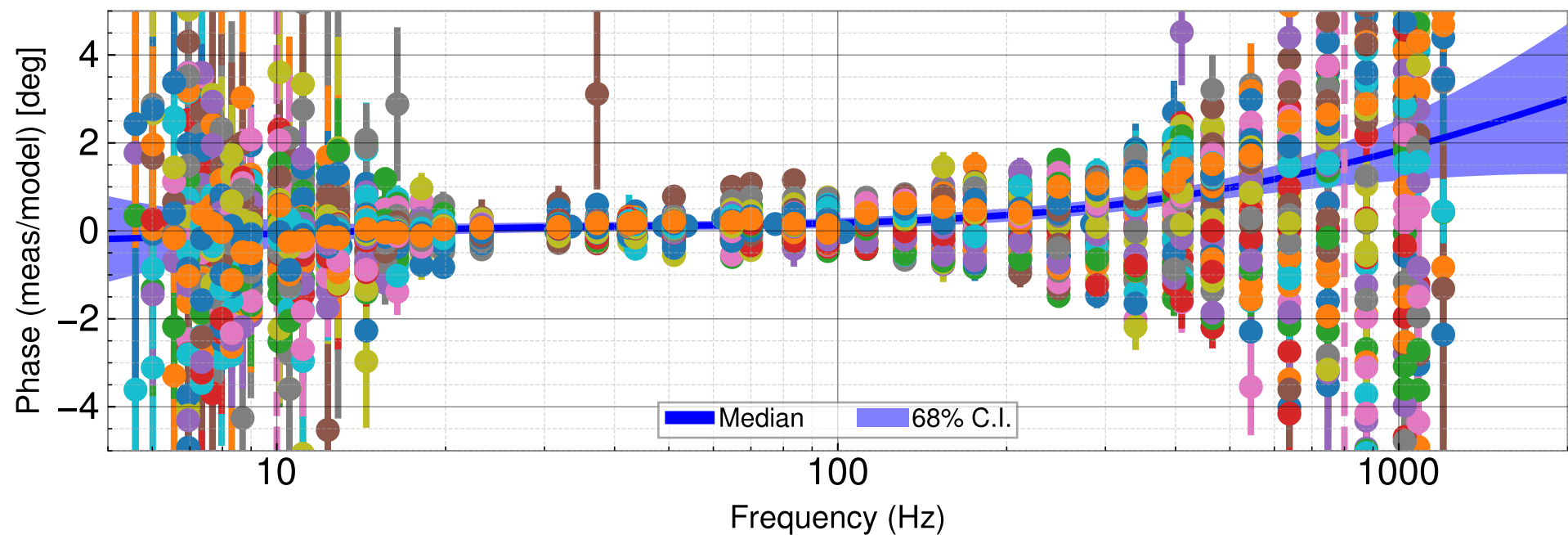
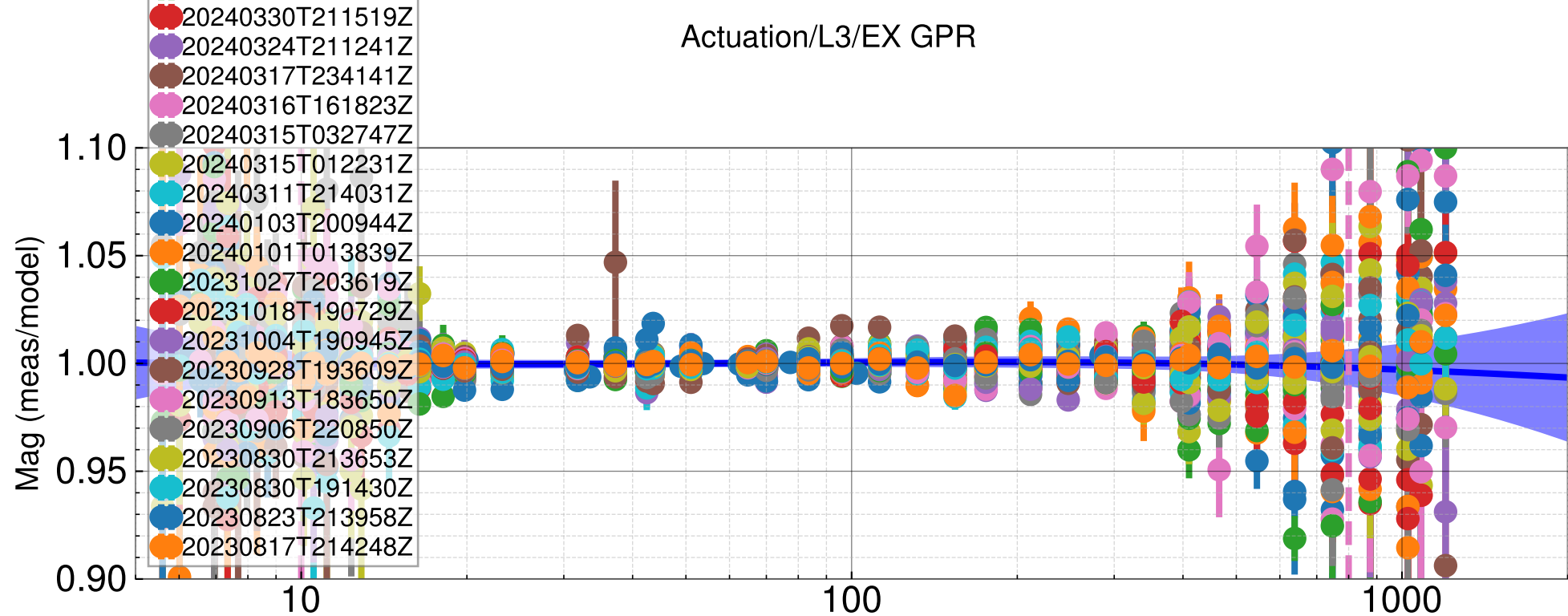
Actuation/L1/EX GPR



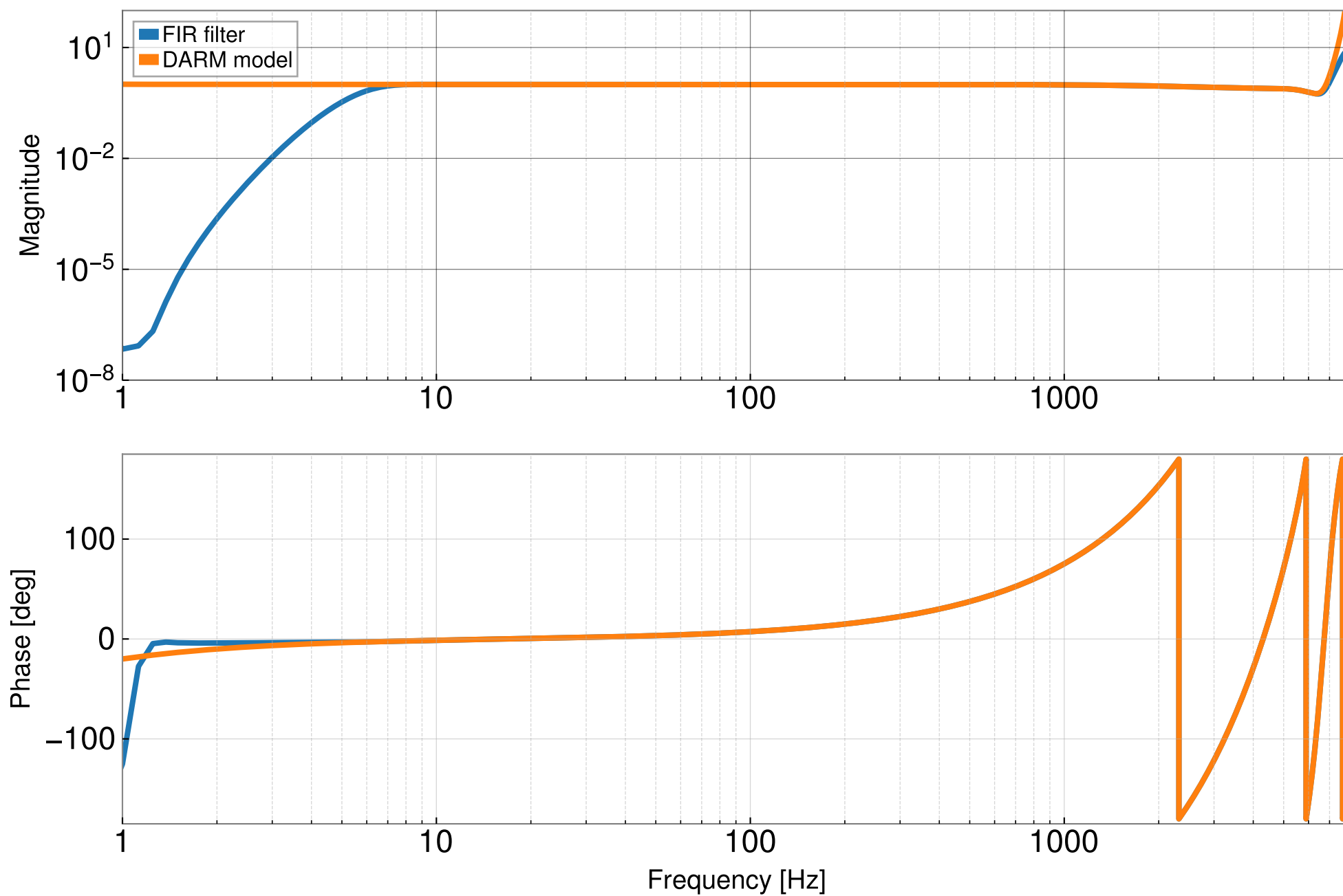
Actuation/L2/EX GPR



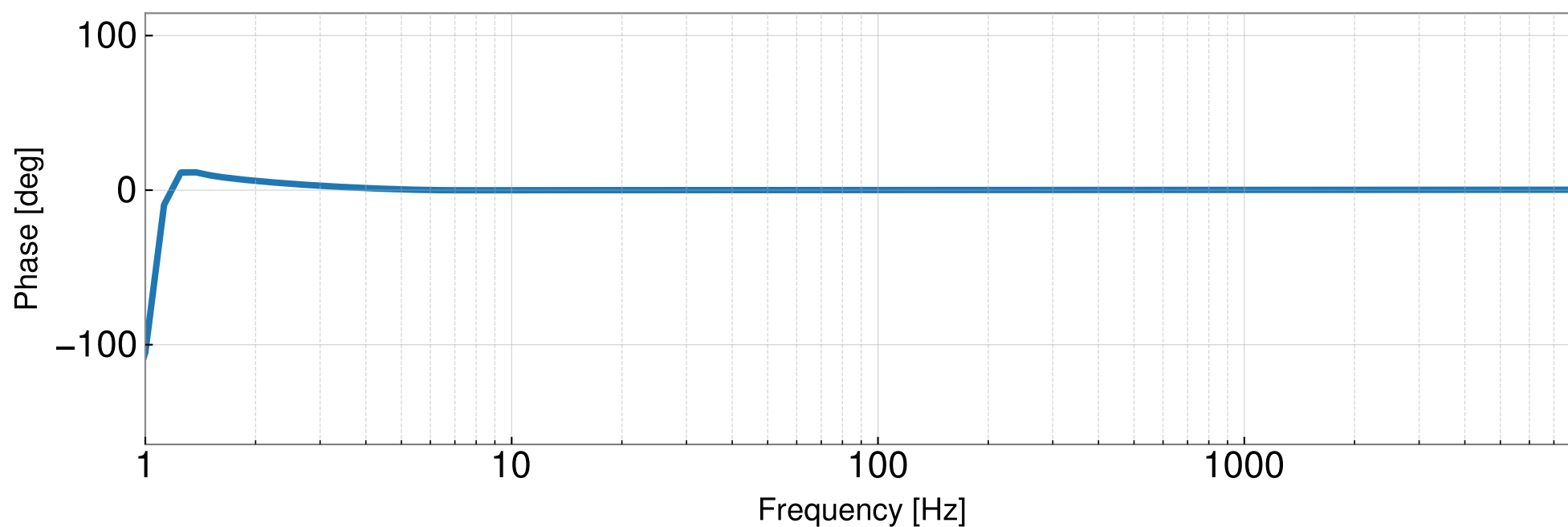
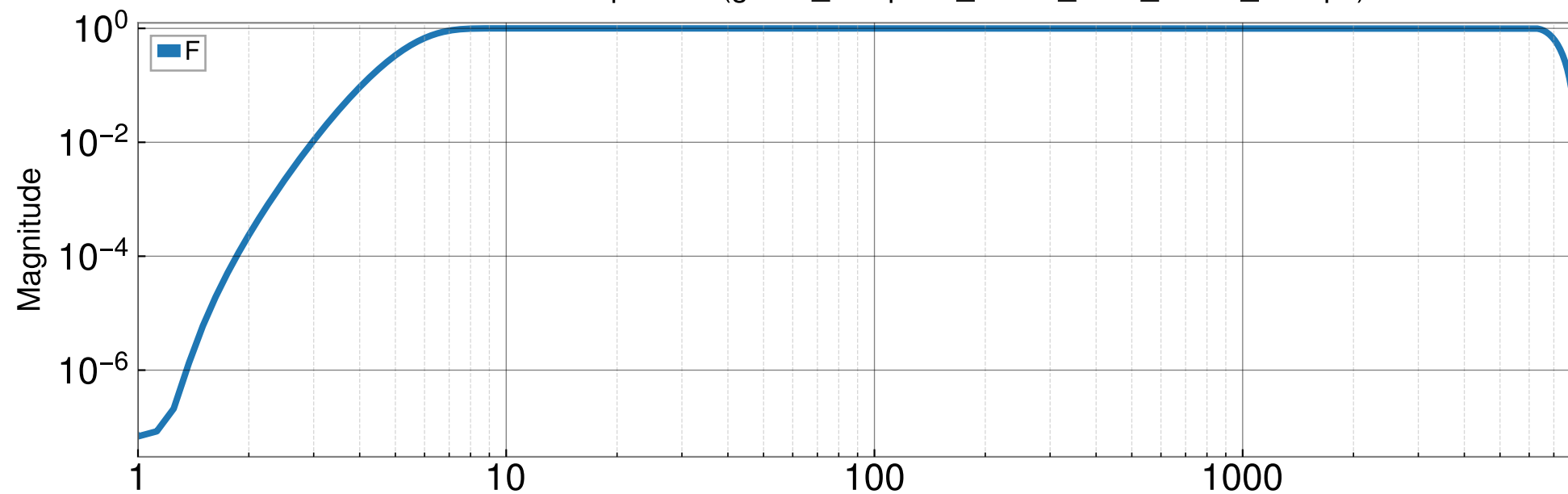
Actuation/L3/EX GPR

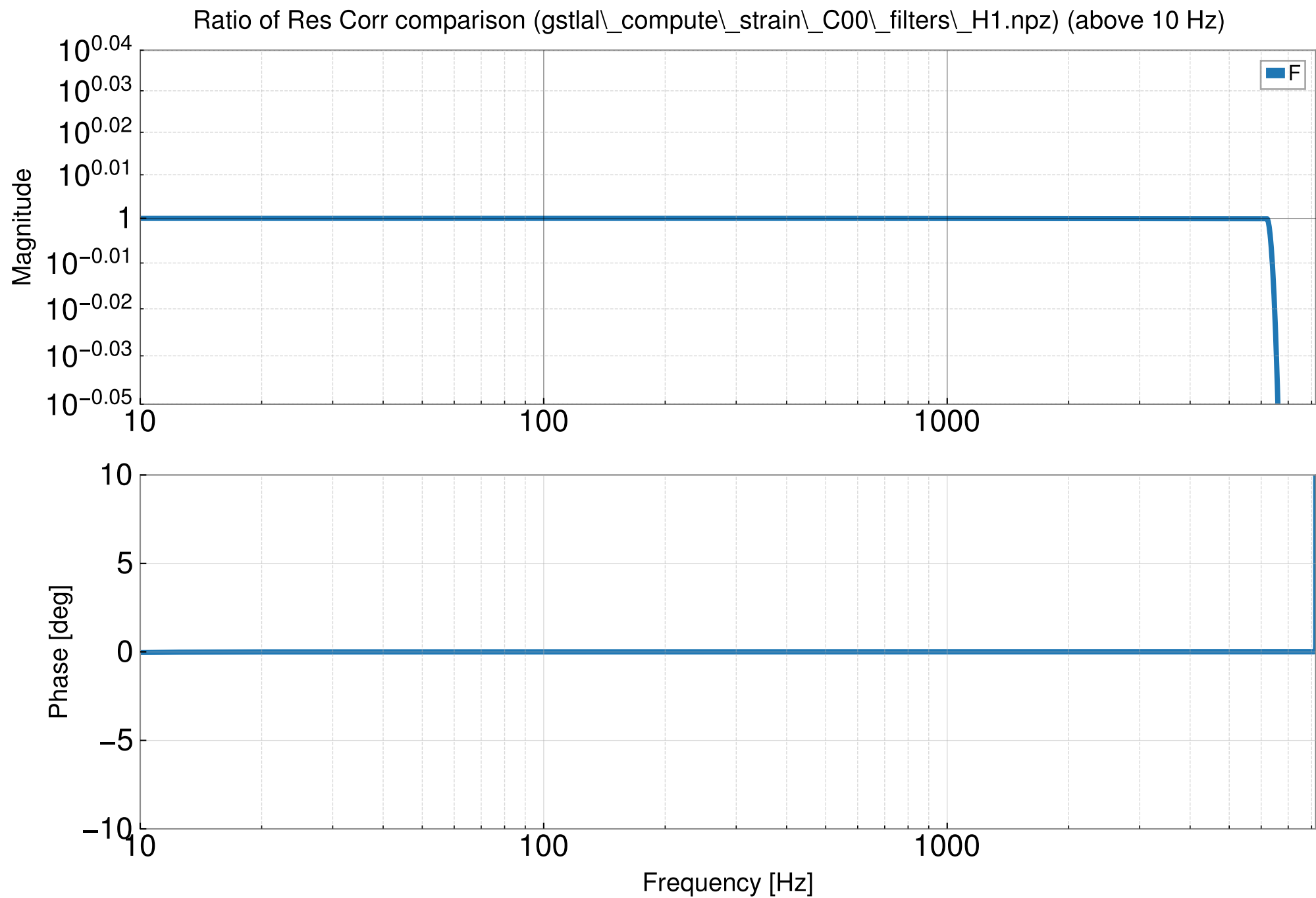


Res Corr comparison (gstlal_compute_strain_C00_filters_H1.npz)



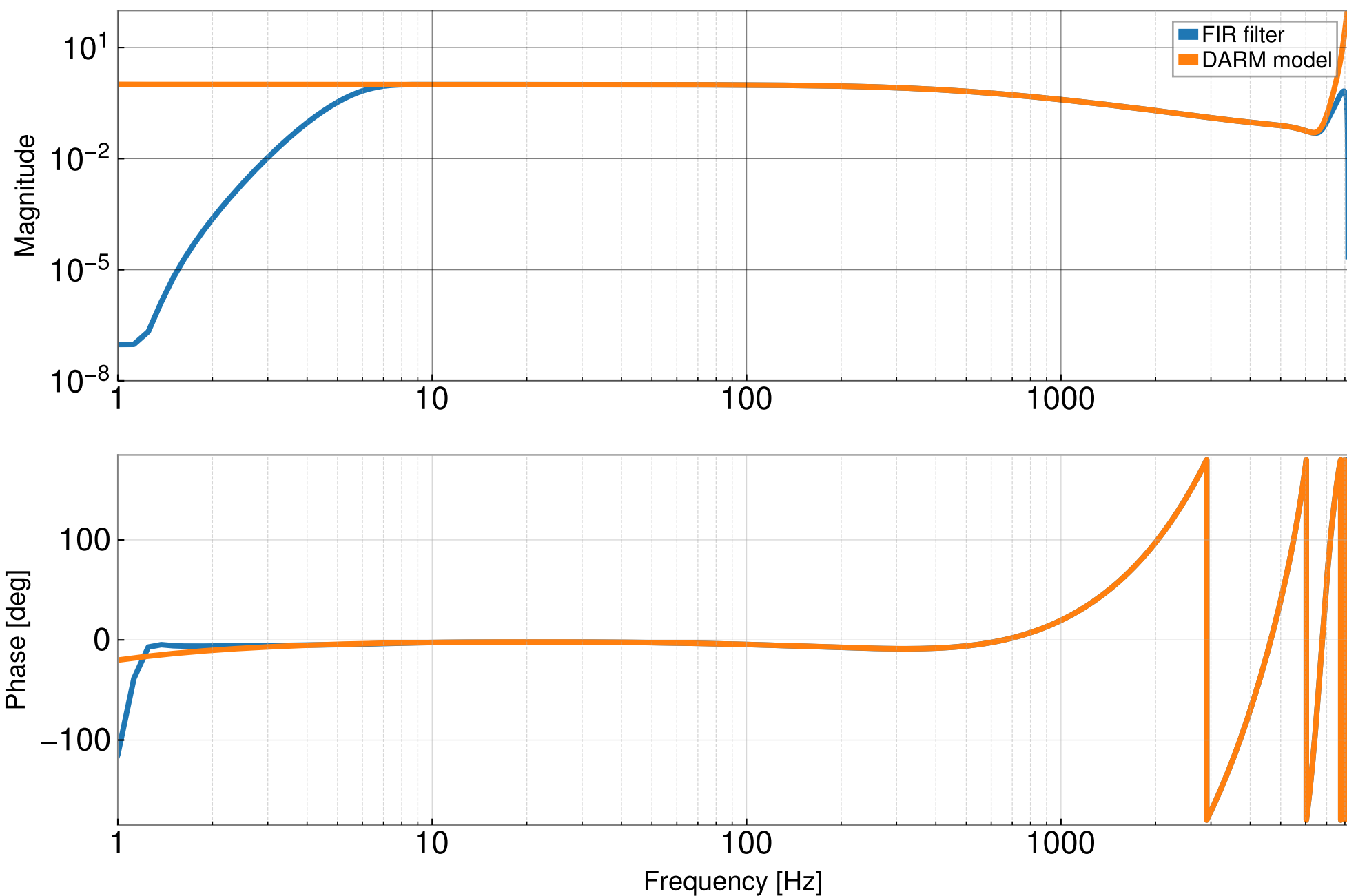
Ratio of Res Corr comparison (gstlal_compute_strain_C00_filters_H1.npz)





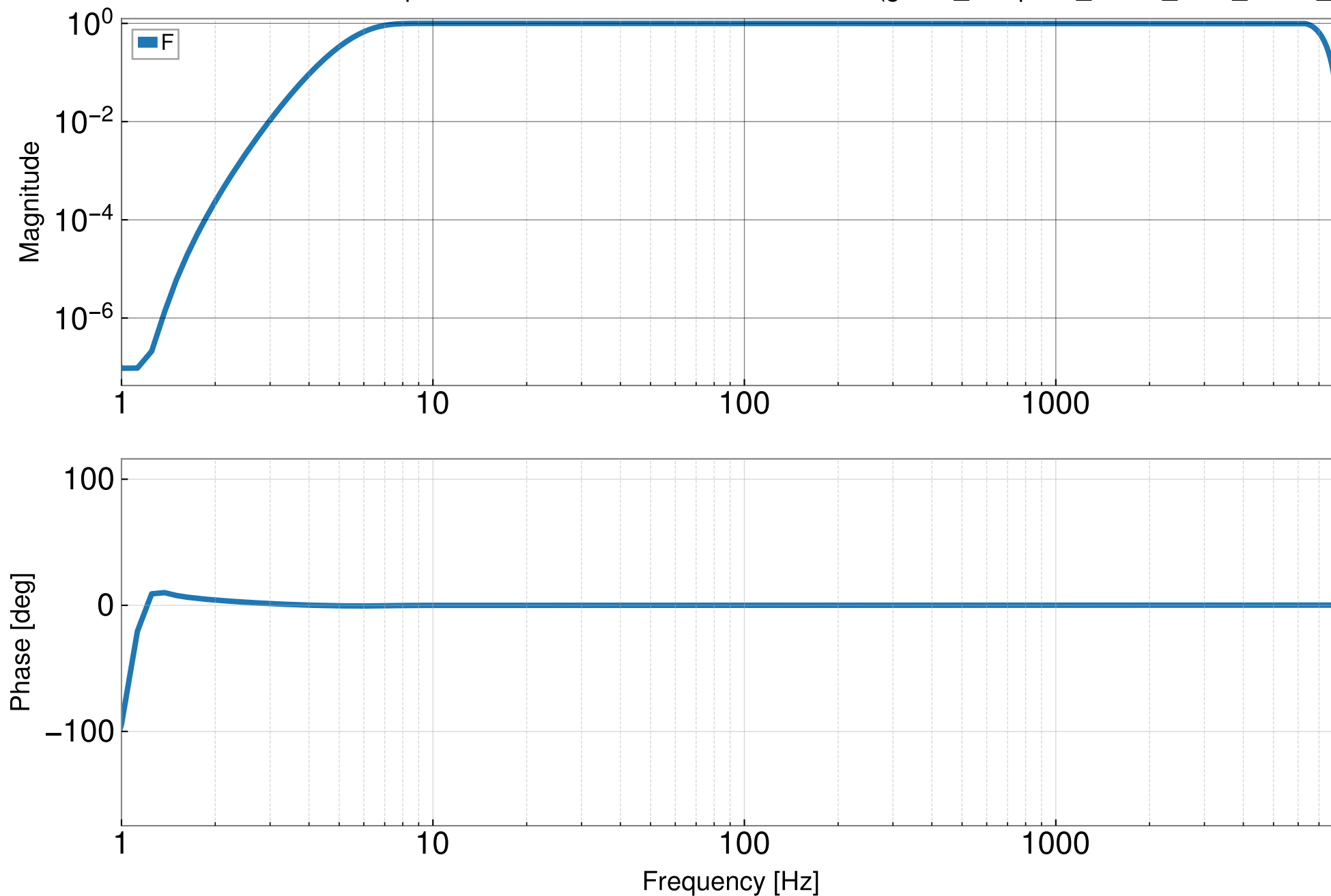
Res Corr No CC Pole comparison

(gstlal_compute_strain_C00_filters_H1.npz)



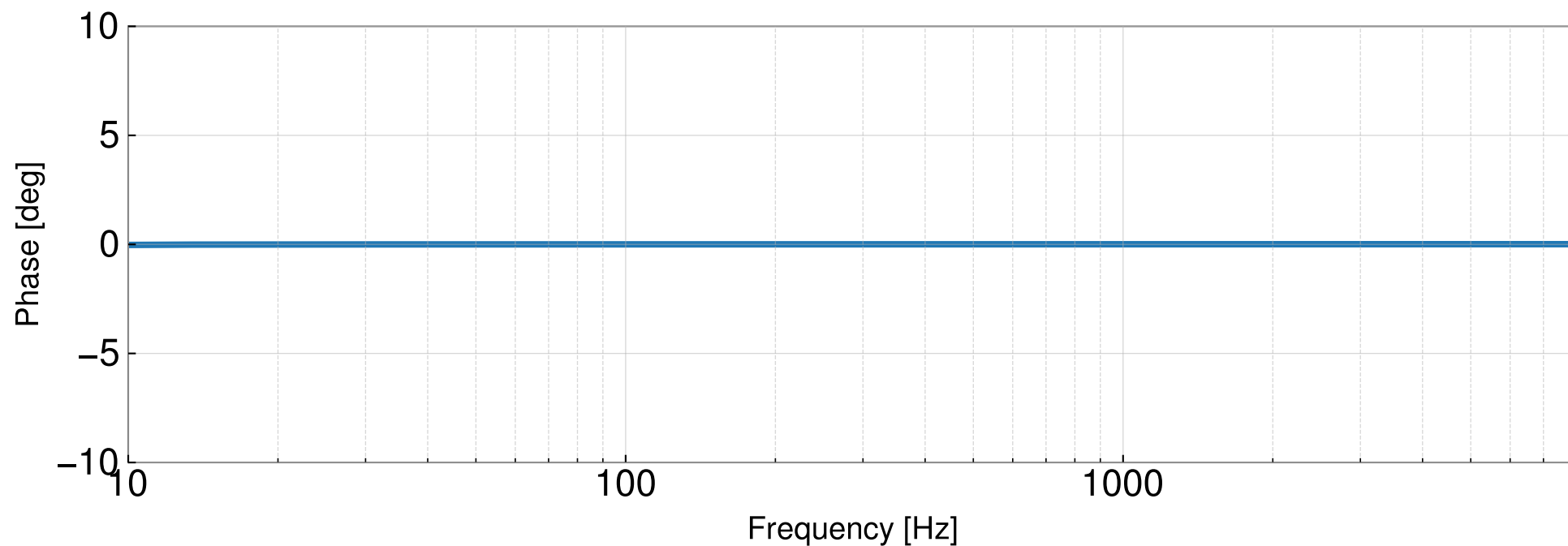
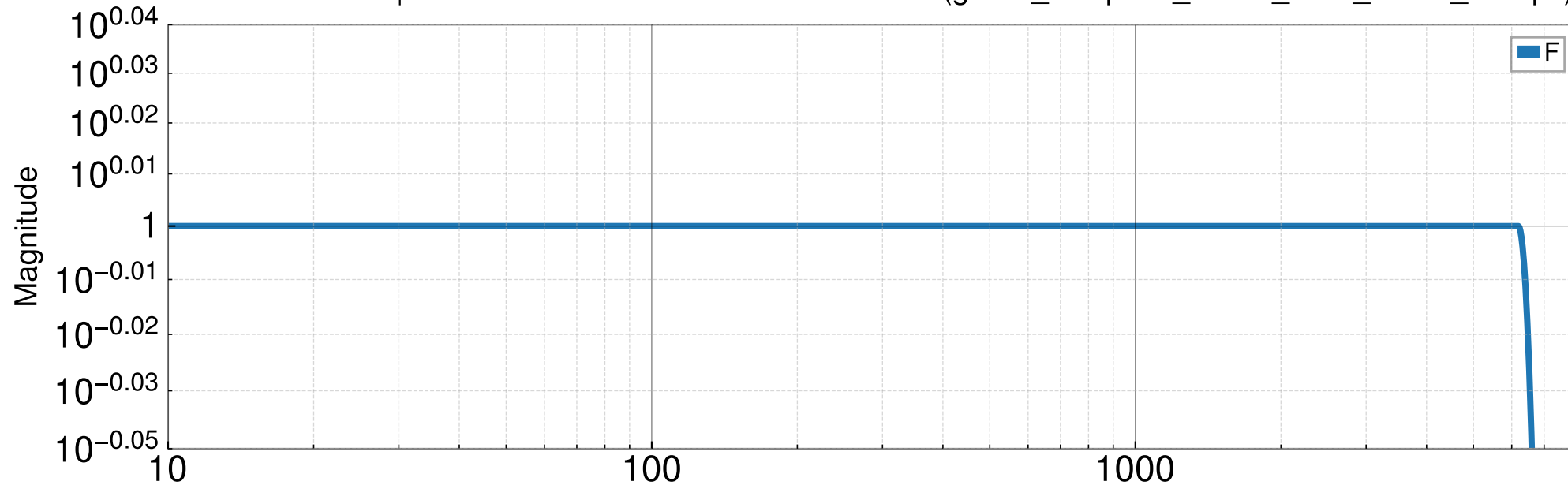
Ratio of Res Corr No CC Pole comparison

(gstlal_compute_strain_C00_filters_H1.npz)



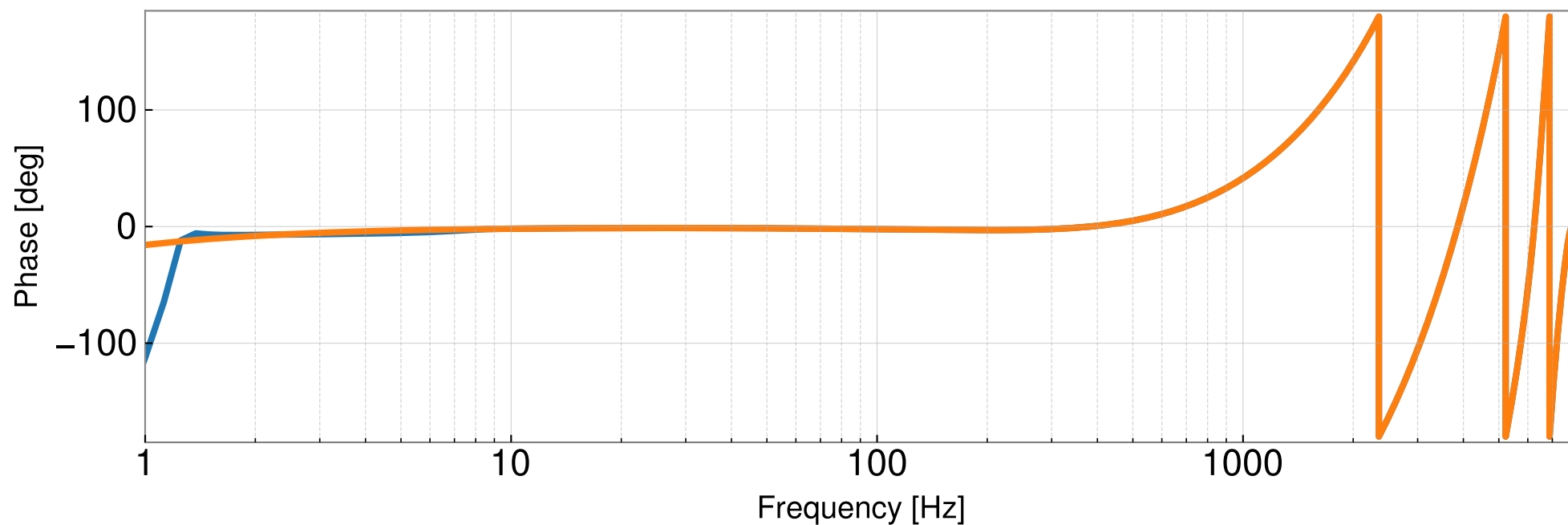
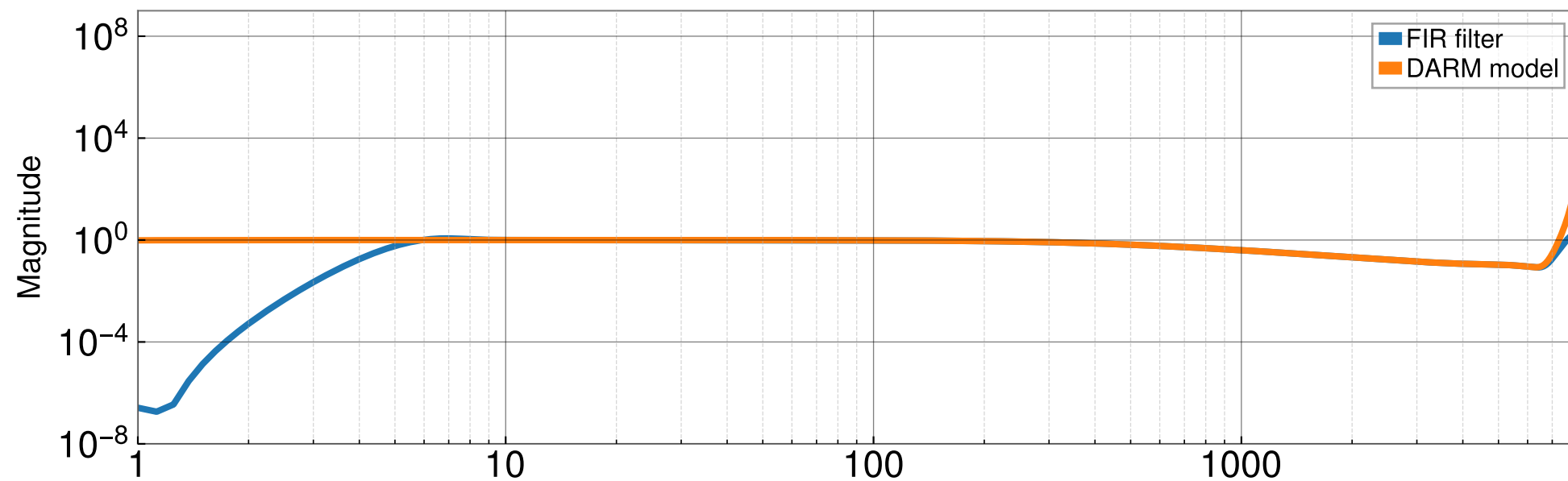
Ratio of Res Corr No CC Pole comparison

(gstlal_compute_strain_C00_filters_H1.npz) (above 10 Hz)



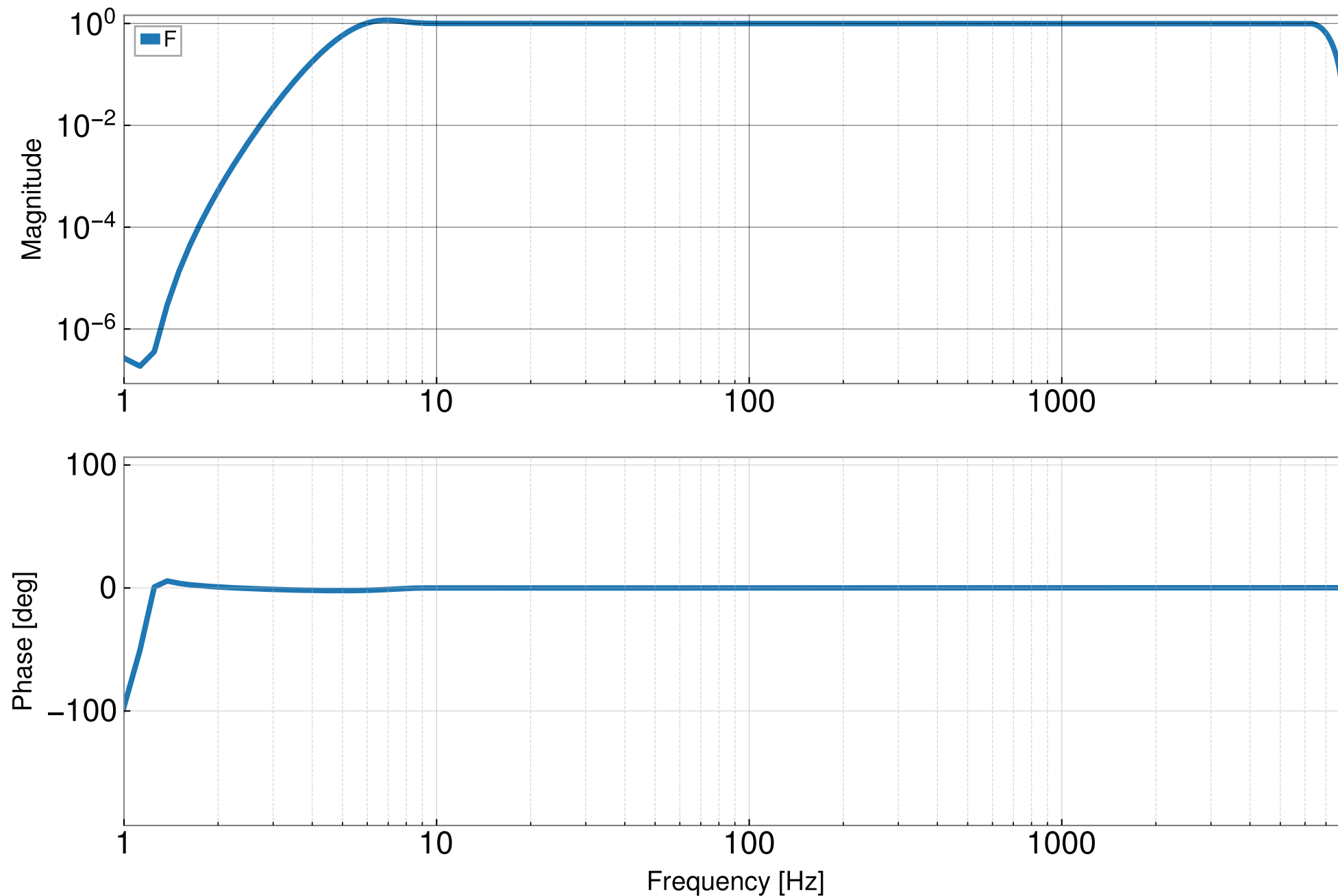
Res Corr No Pole

comparison (gstlal_compute_strain_C00_filters_H1.npz)



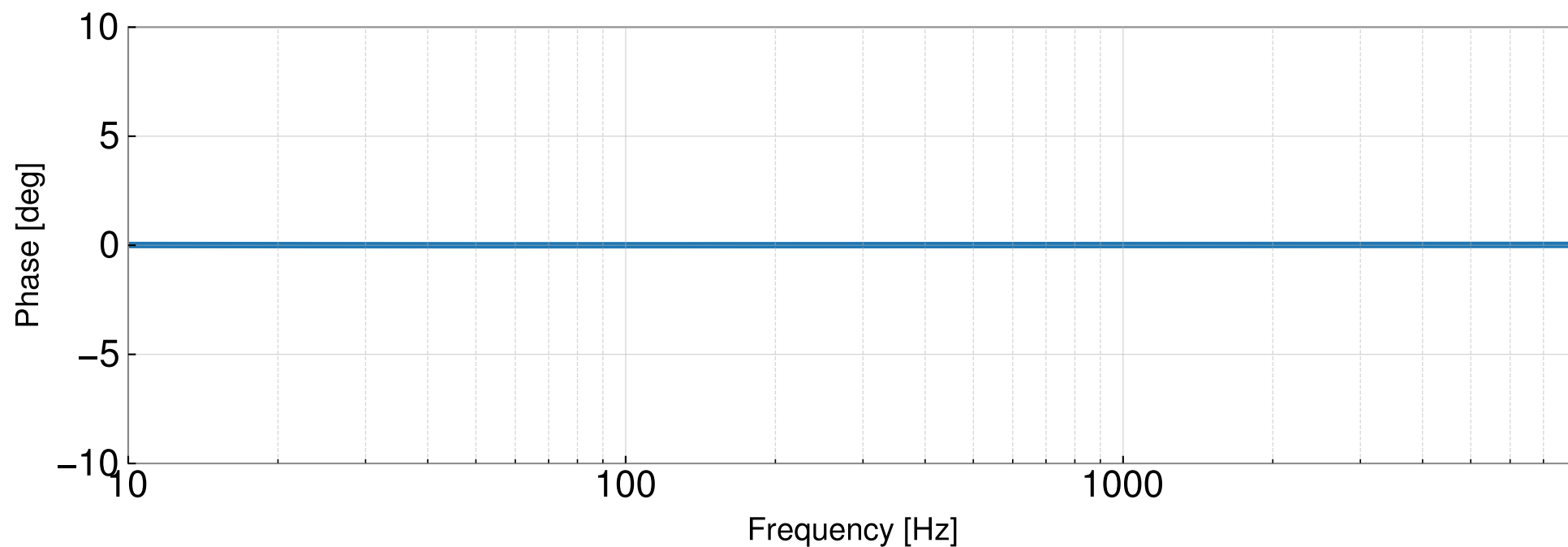
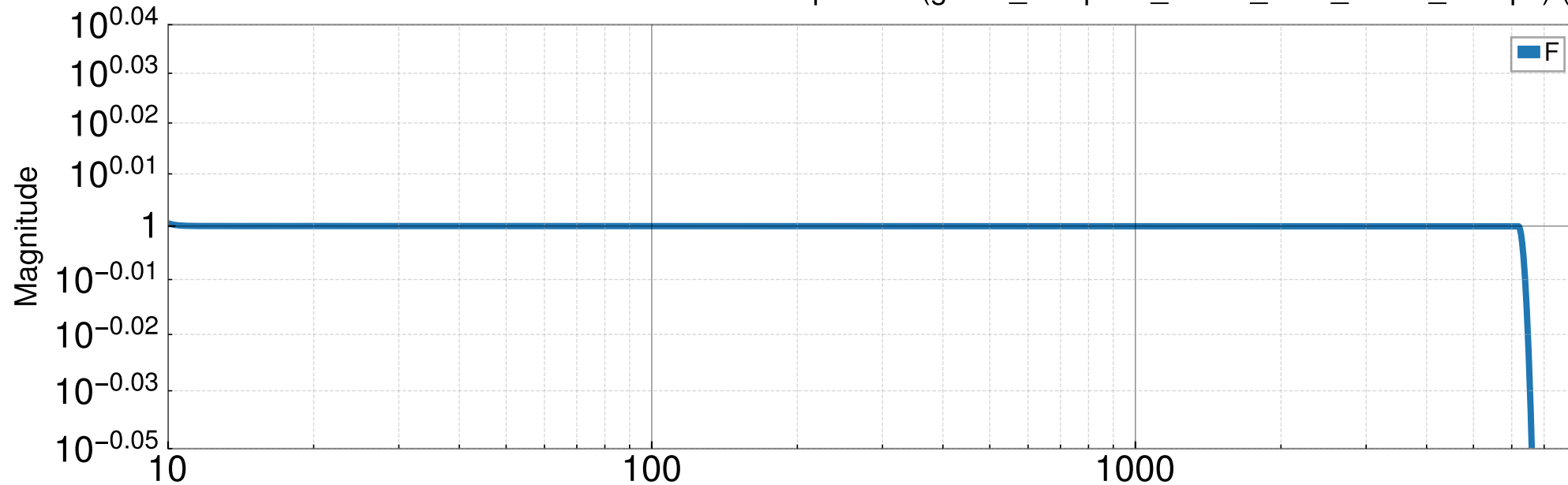
Ratio of Res Corr No Pole

comparison (gstlal_compute_strain_C00_filters_H1.npz)

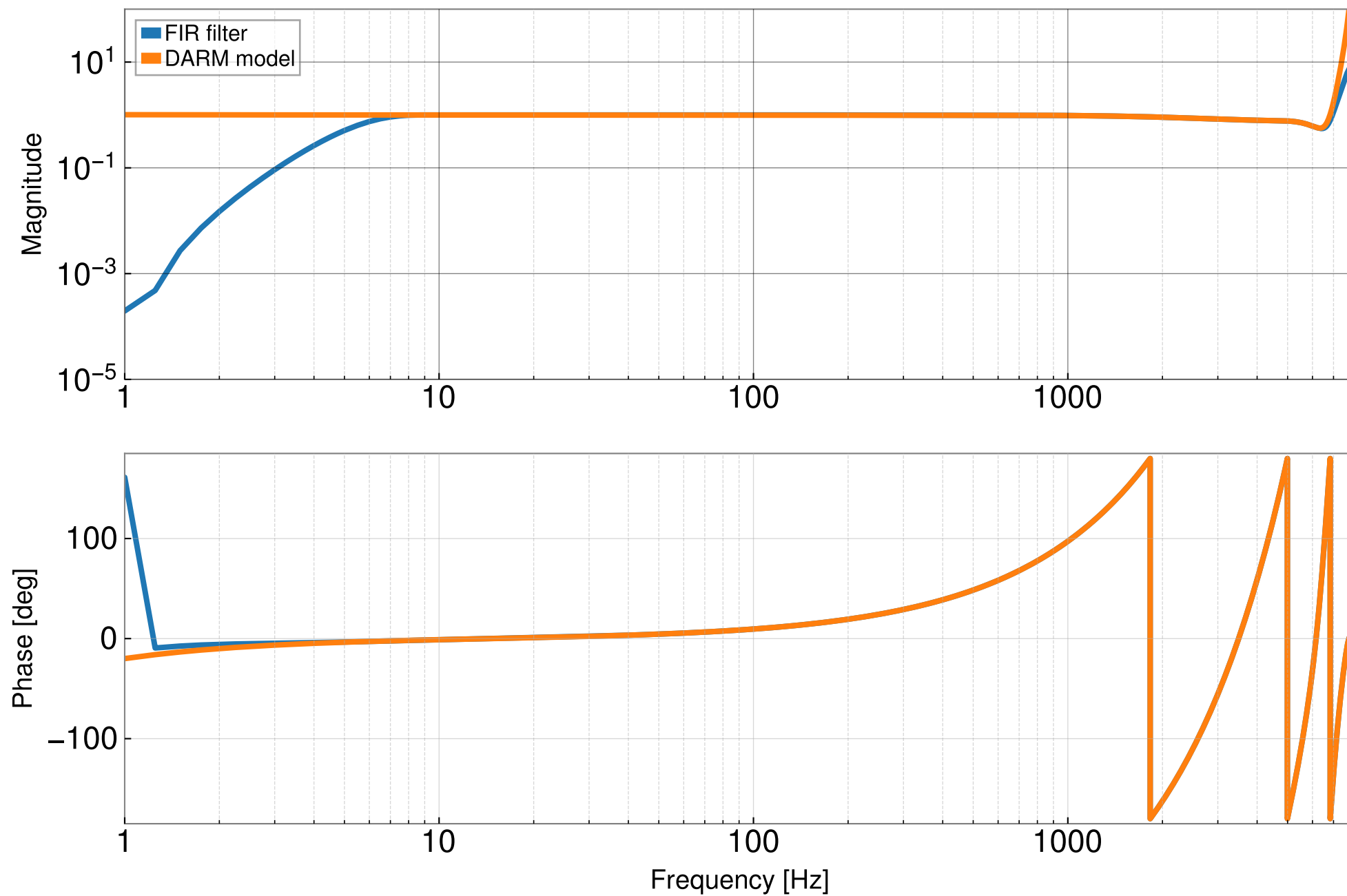


Ratio of Res Corr No Pole

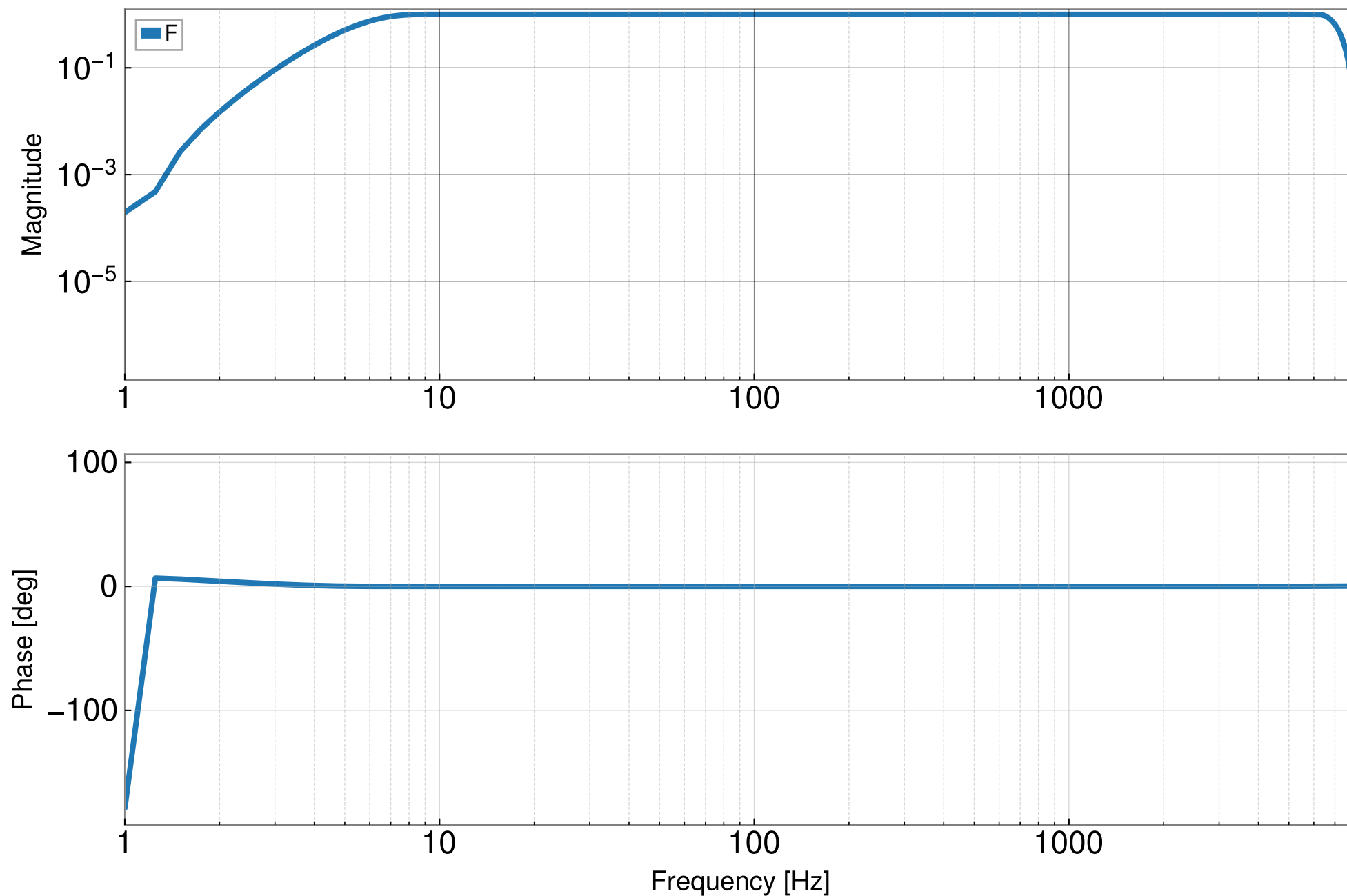
comparison (gstlal_compute_strain_C00_filters_H1.npz) (above 10 Hz)

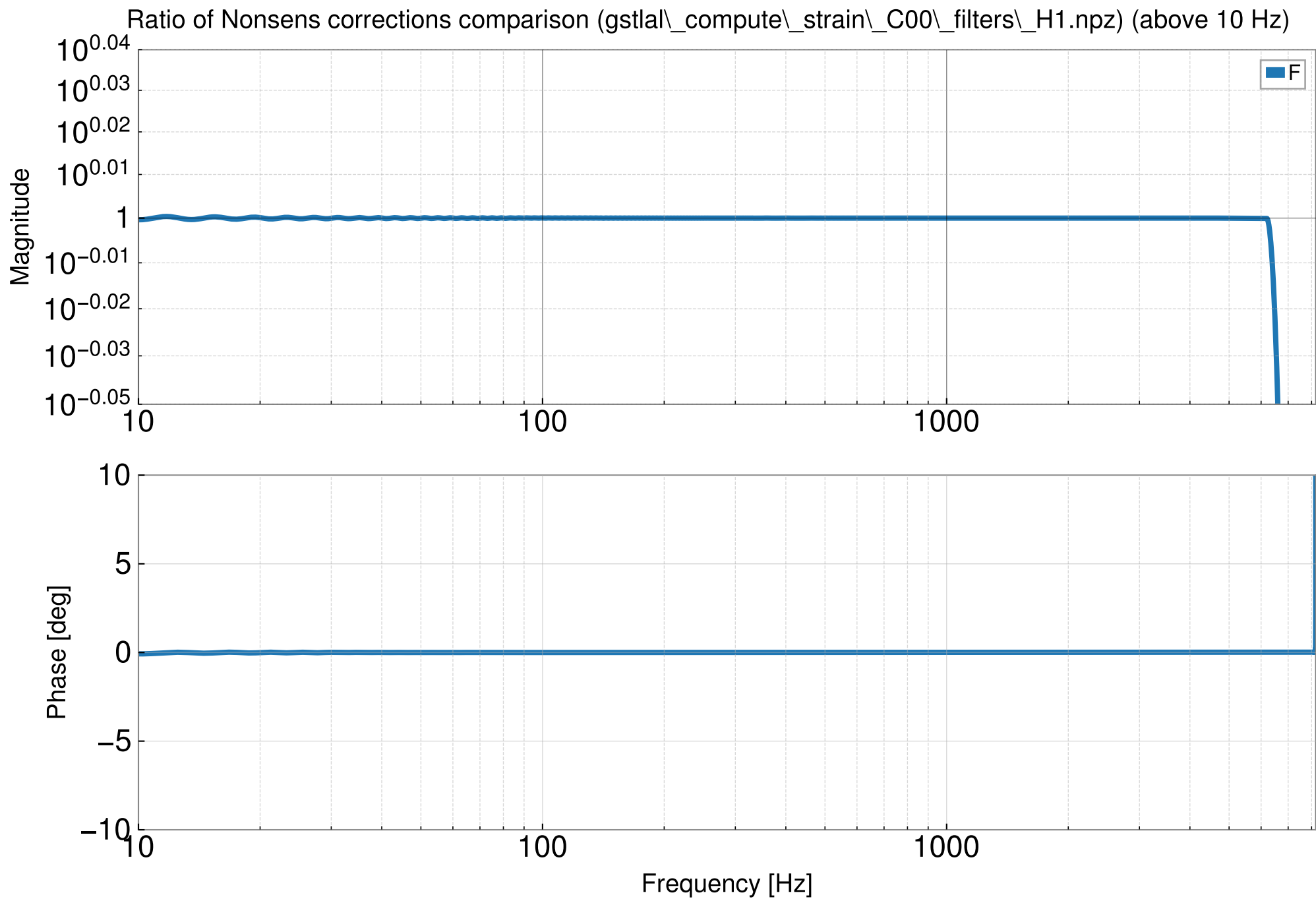


Nonsens corrections comparison (gstlal_compute_strain_C00_filters_H1.npz)

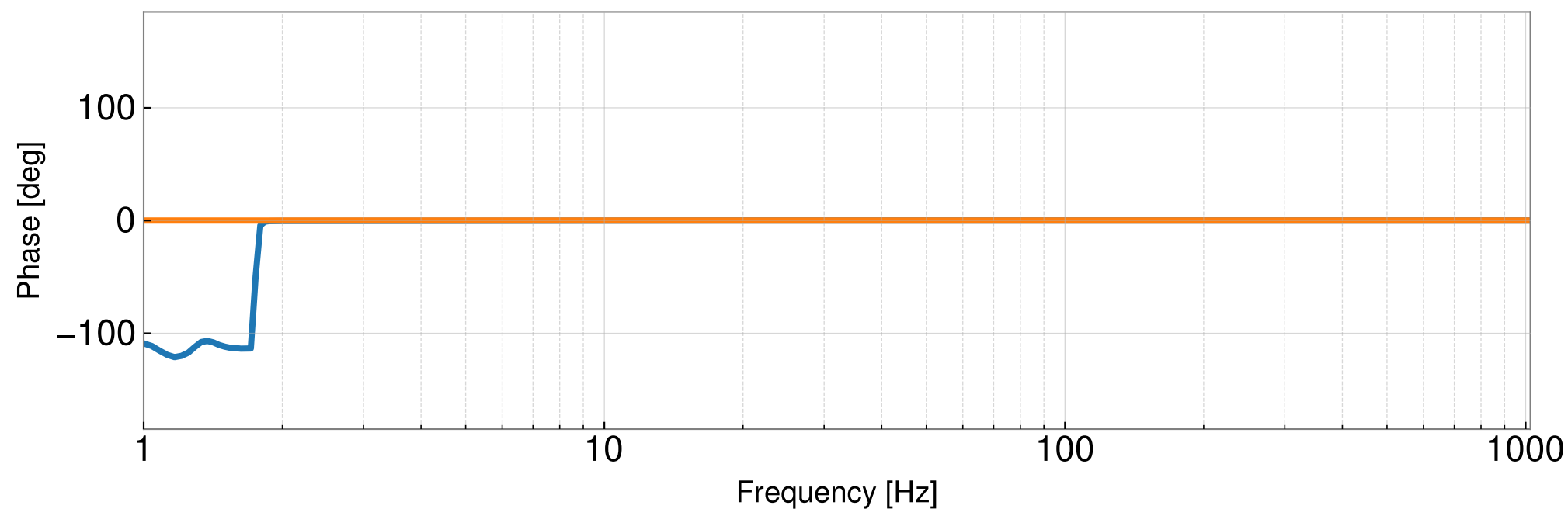
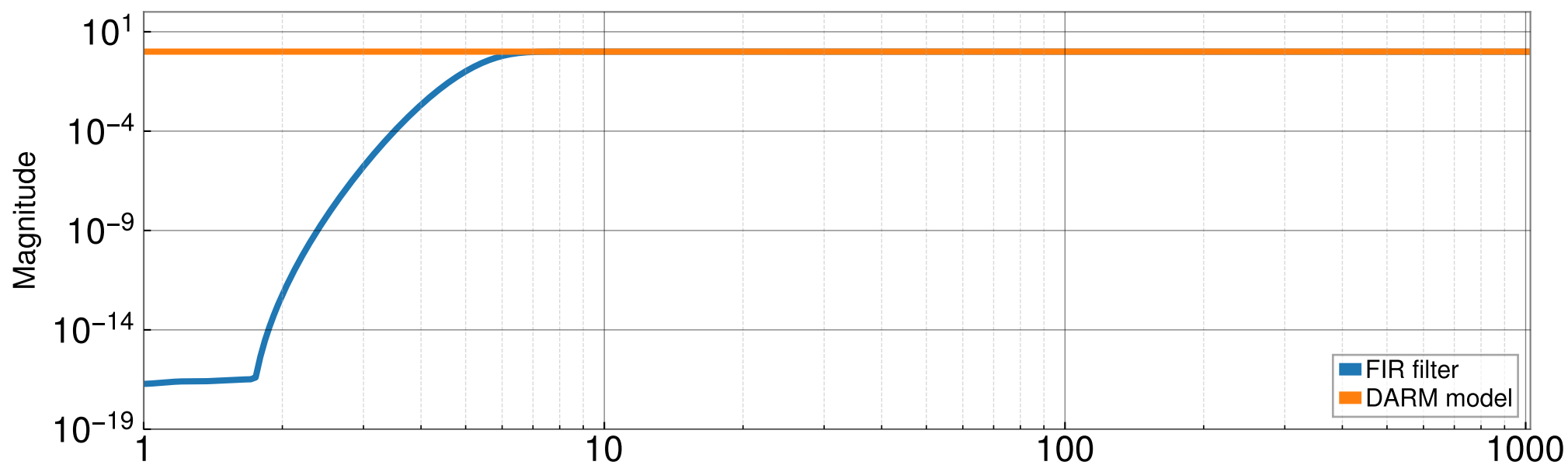


Ratio of Nonsens corrections comparison (gstlal_compute_strain_C00_filters_H1.npz)

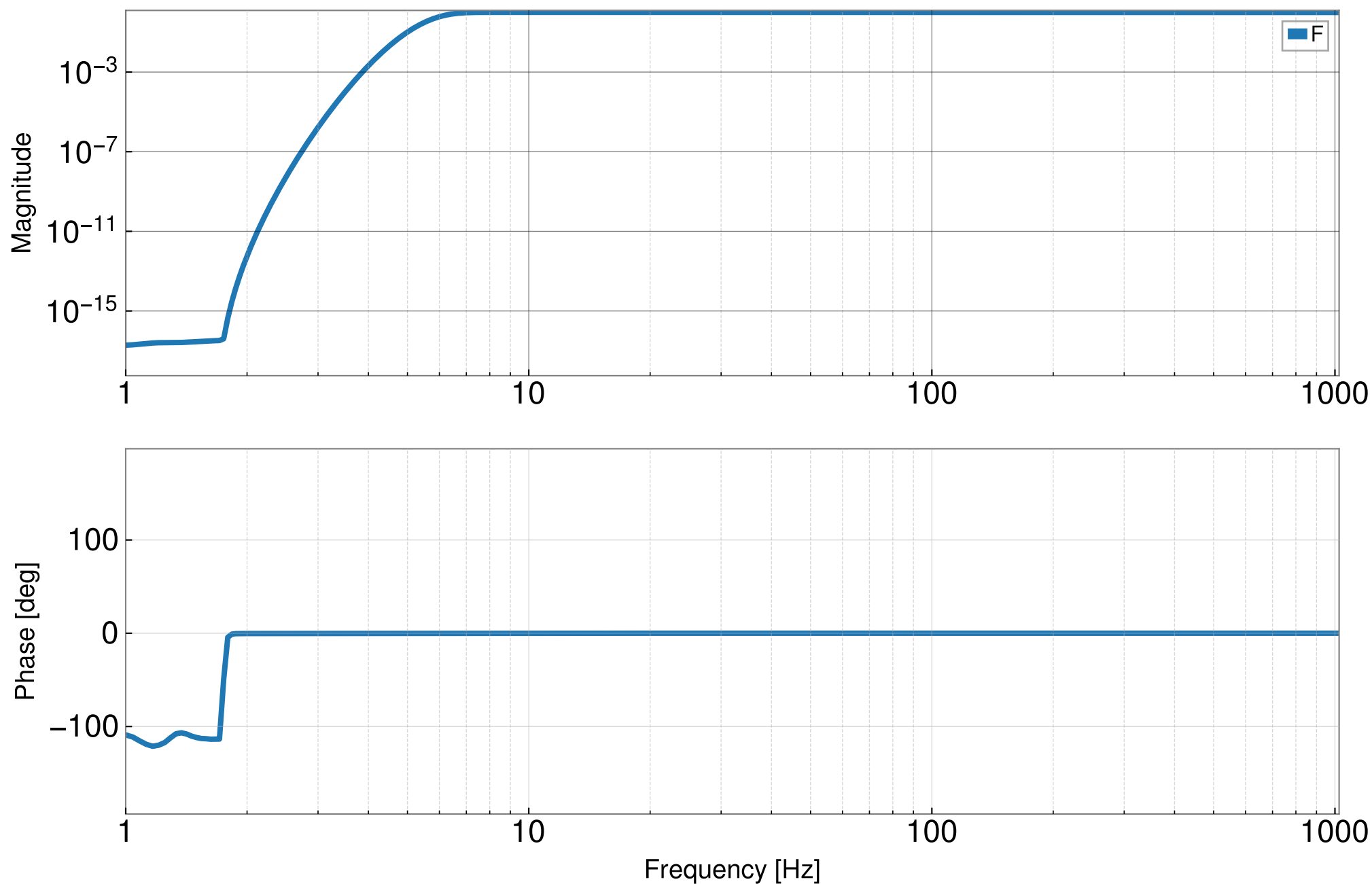


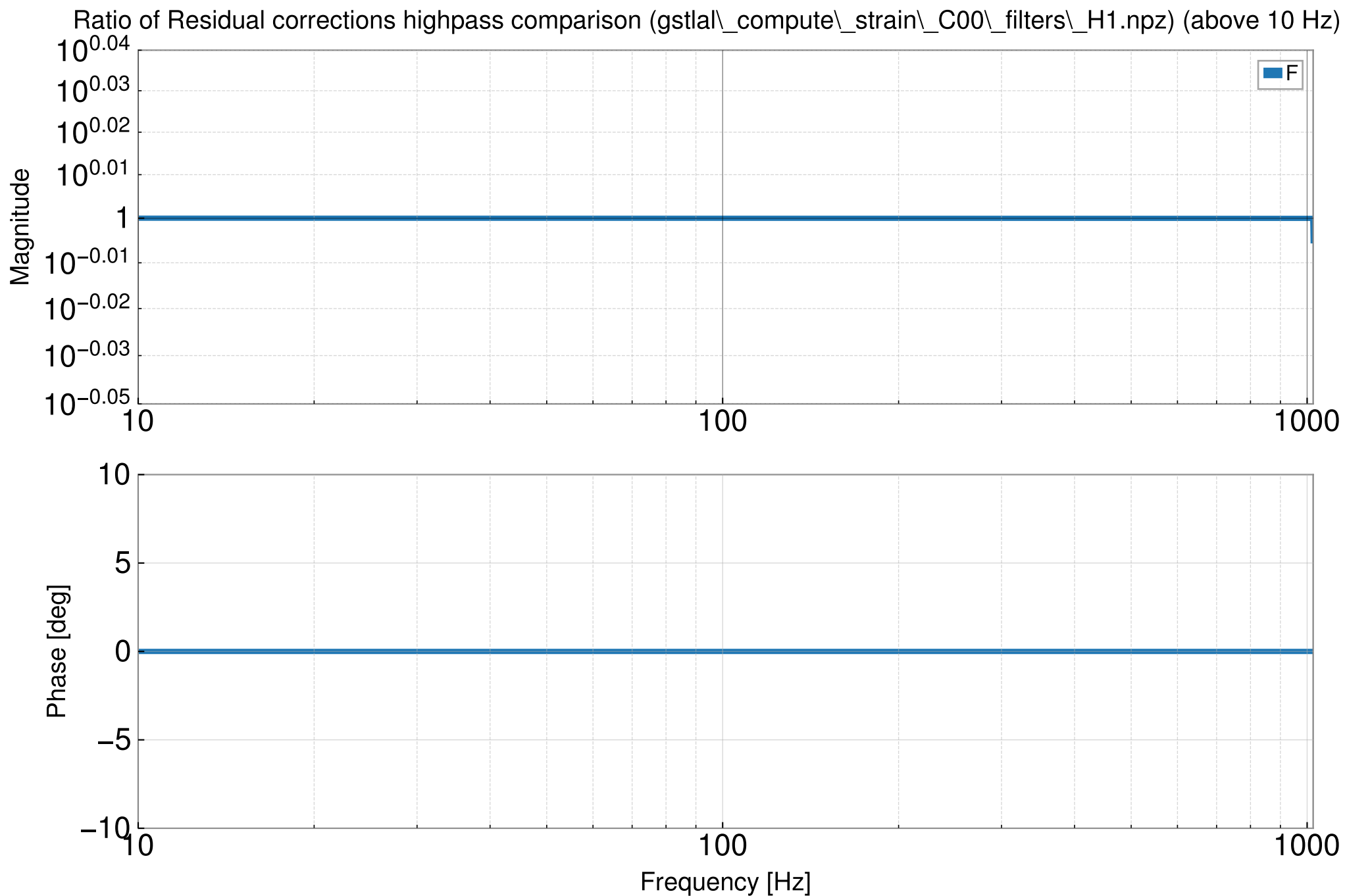


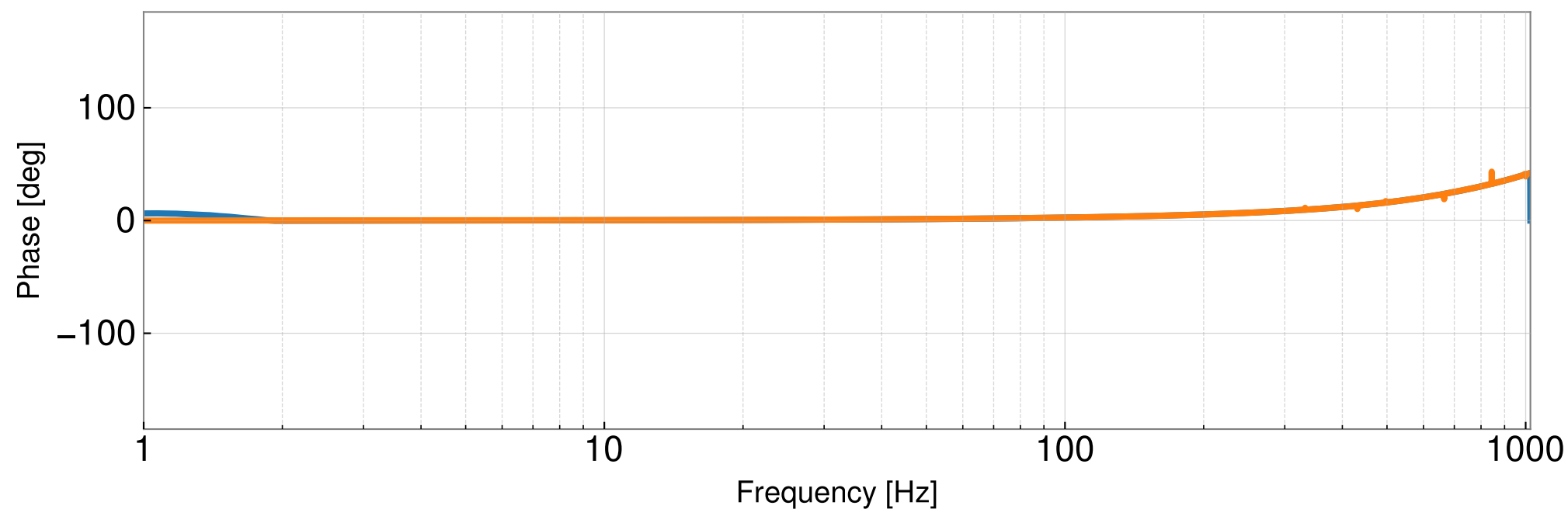
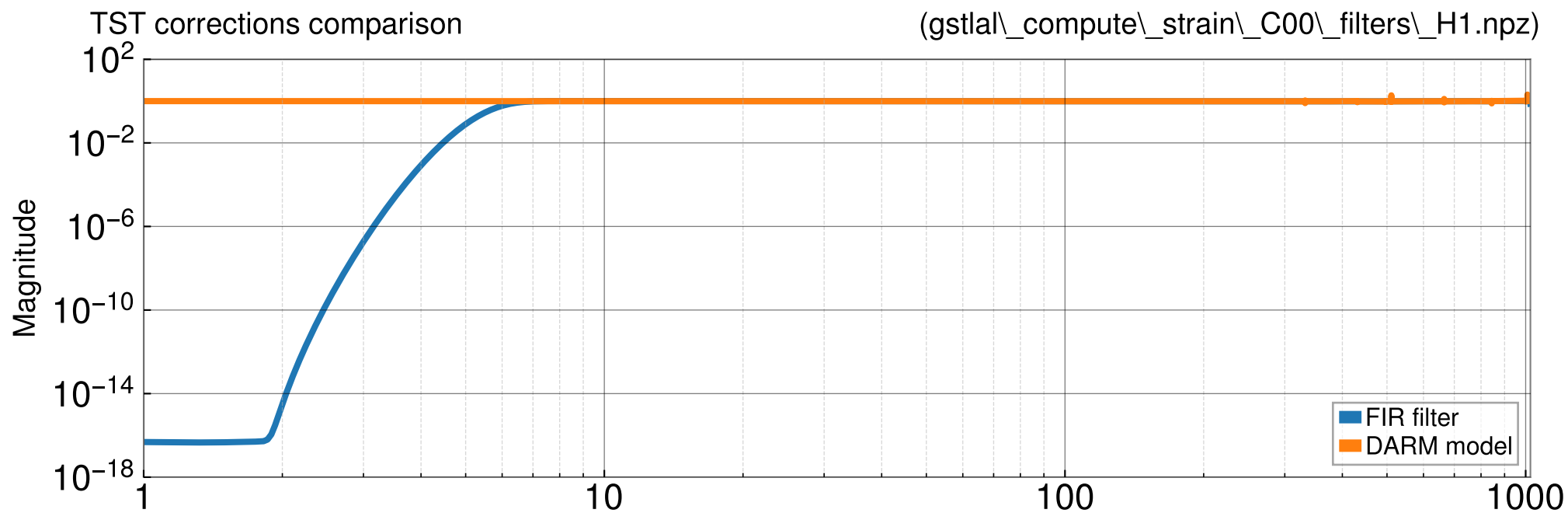
Residual corrections highpass comparison (gstlal_compute_strain_C00_filters_H1.npz)



Ratio of Residual corrections highpass comparison (gstlal_compute_strain_C00_filters_H1.npz)

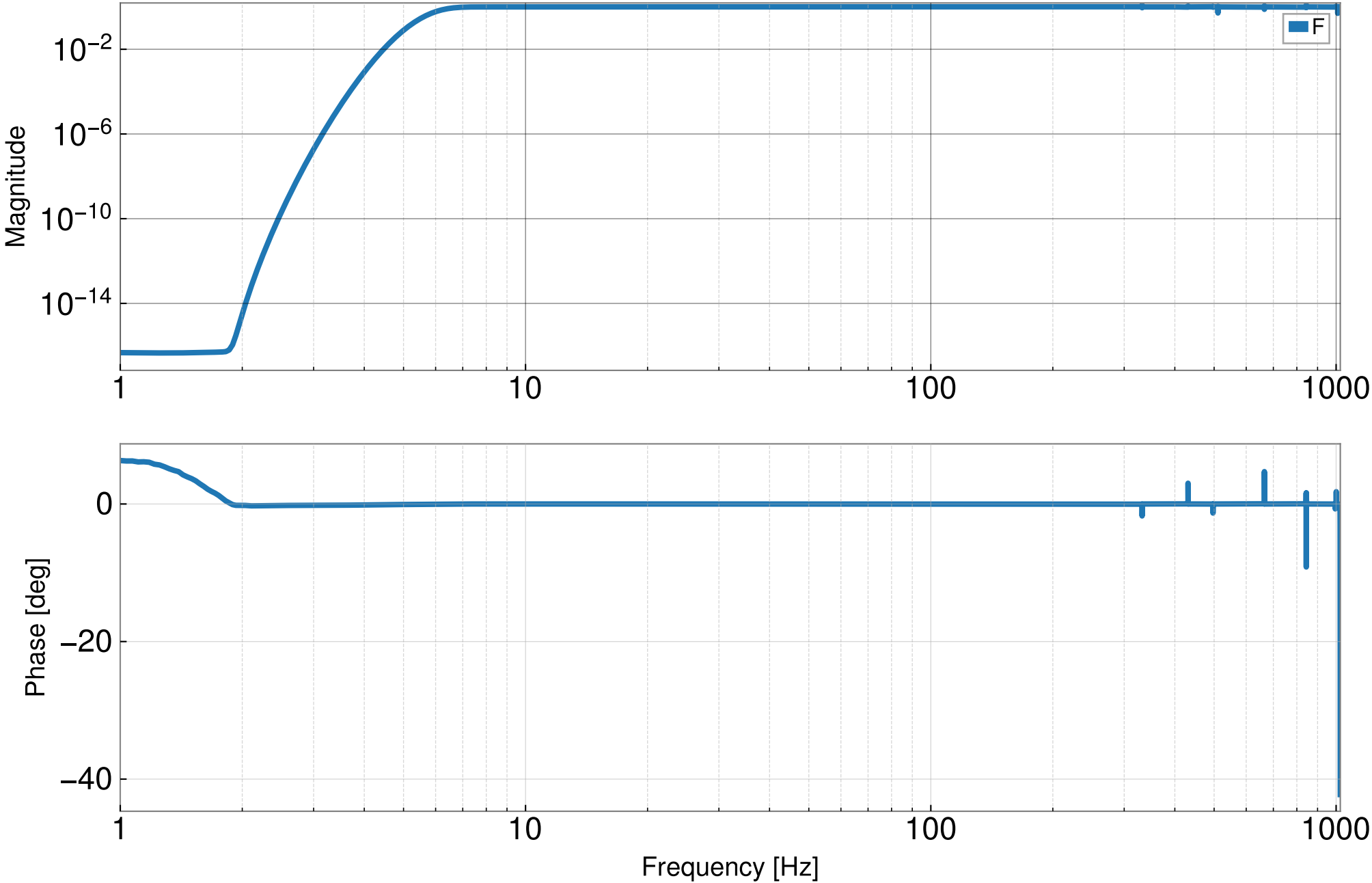






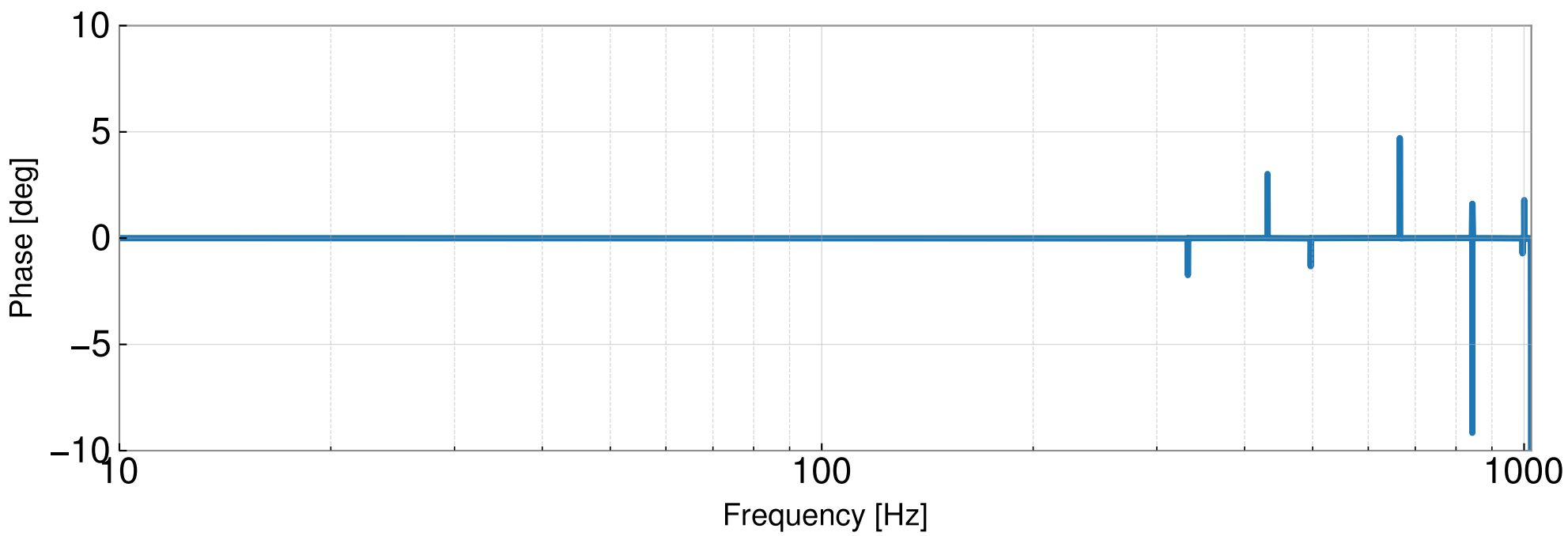
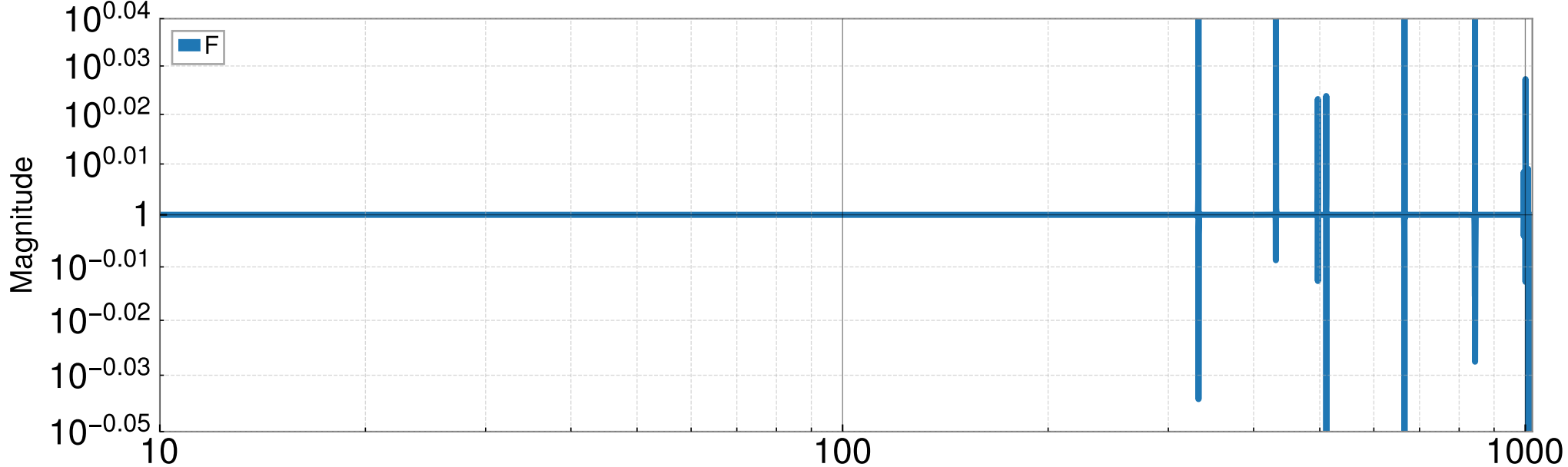
Ratio of TST corrections comparison

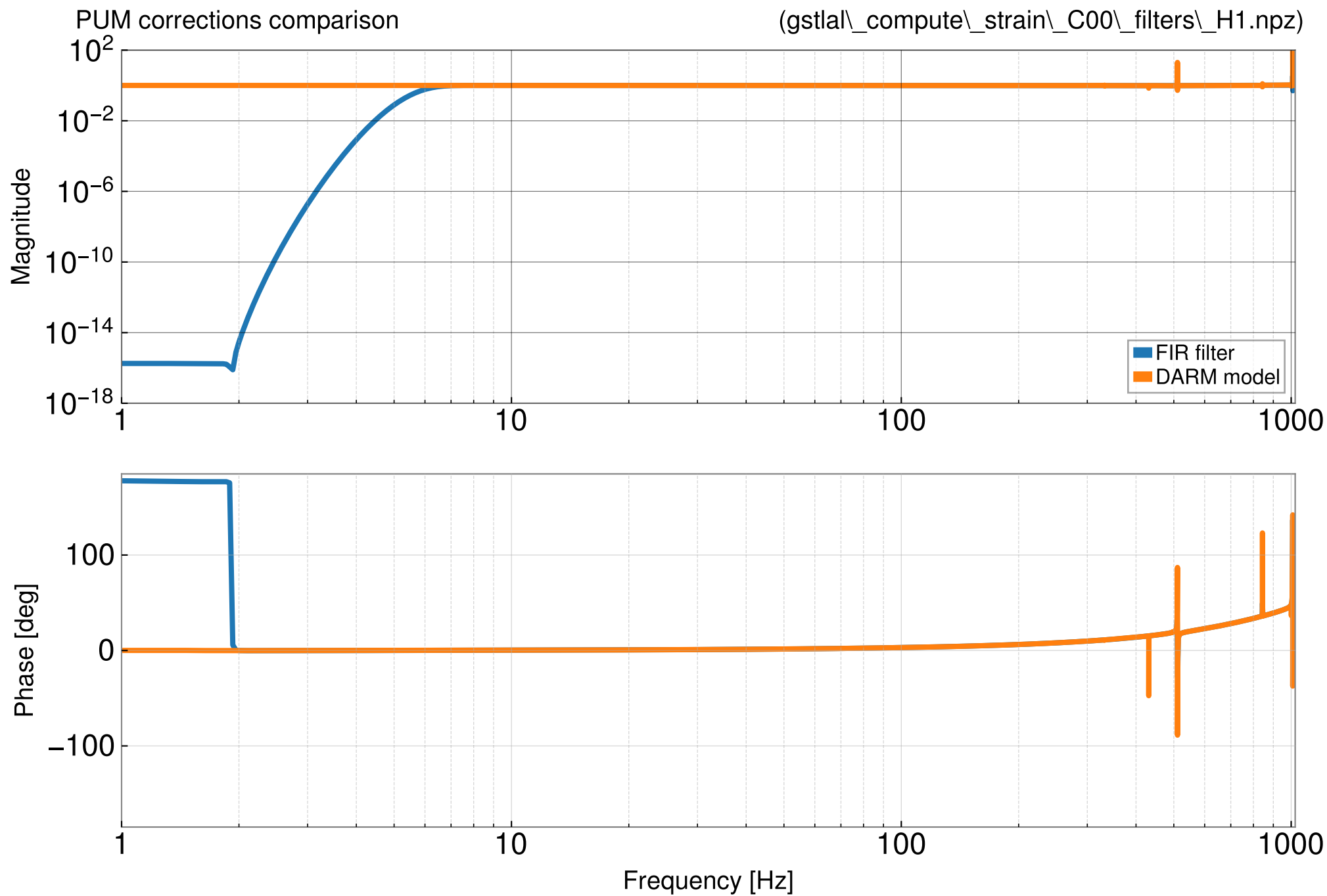
(gstlal_compute_strain_C00_filters_H1.npz)



Ratio of TST corrections comparison

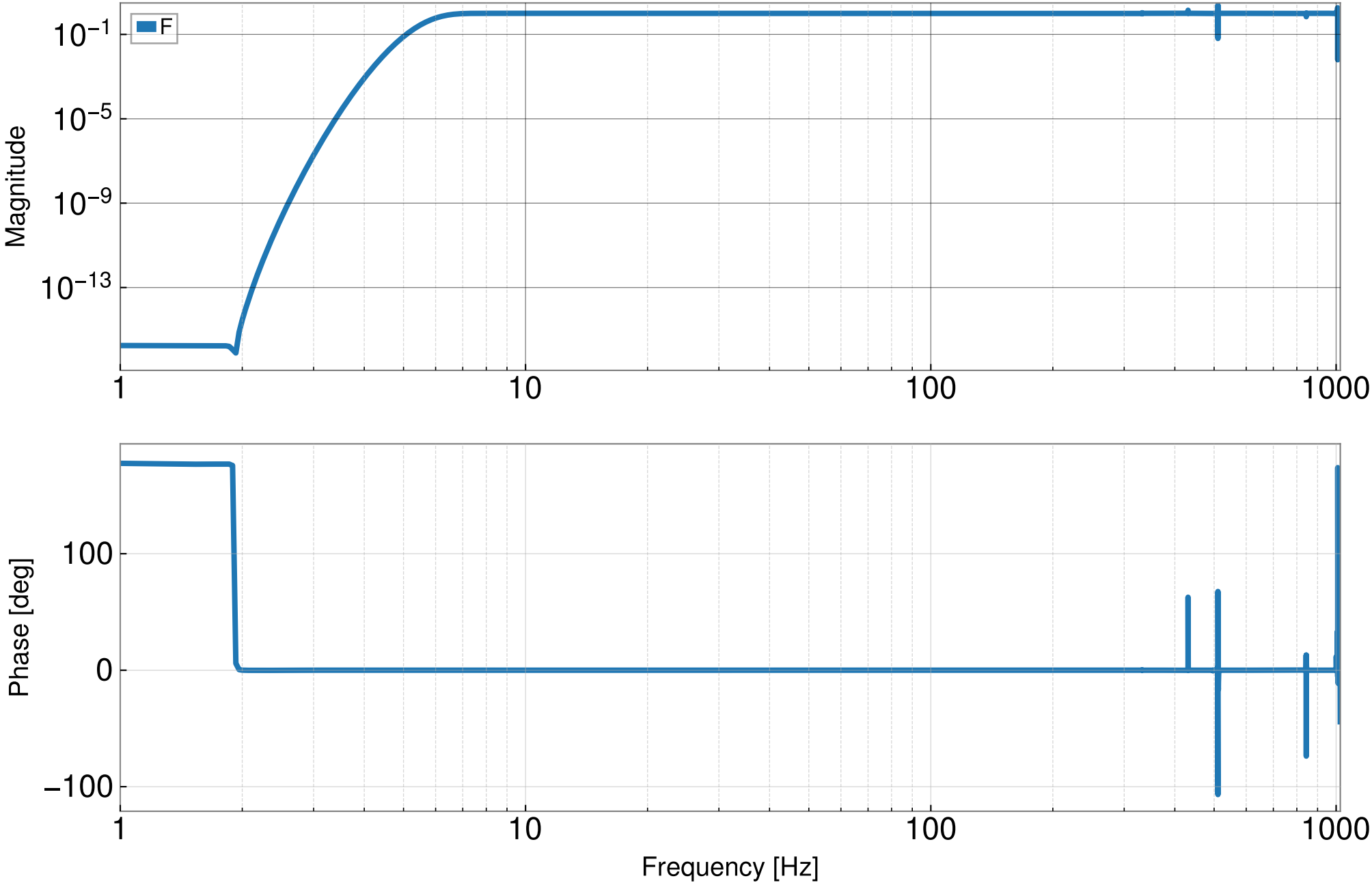
(gstlal_compute_strain_C00_filters_H1.npz) (above 10 Hz)



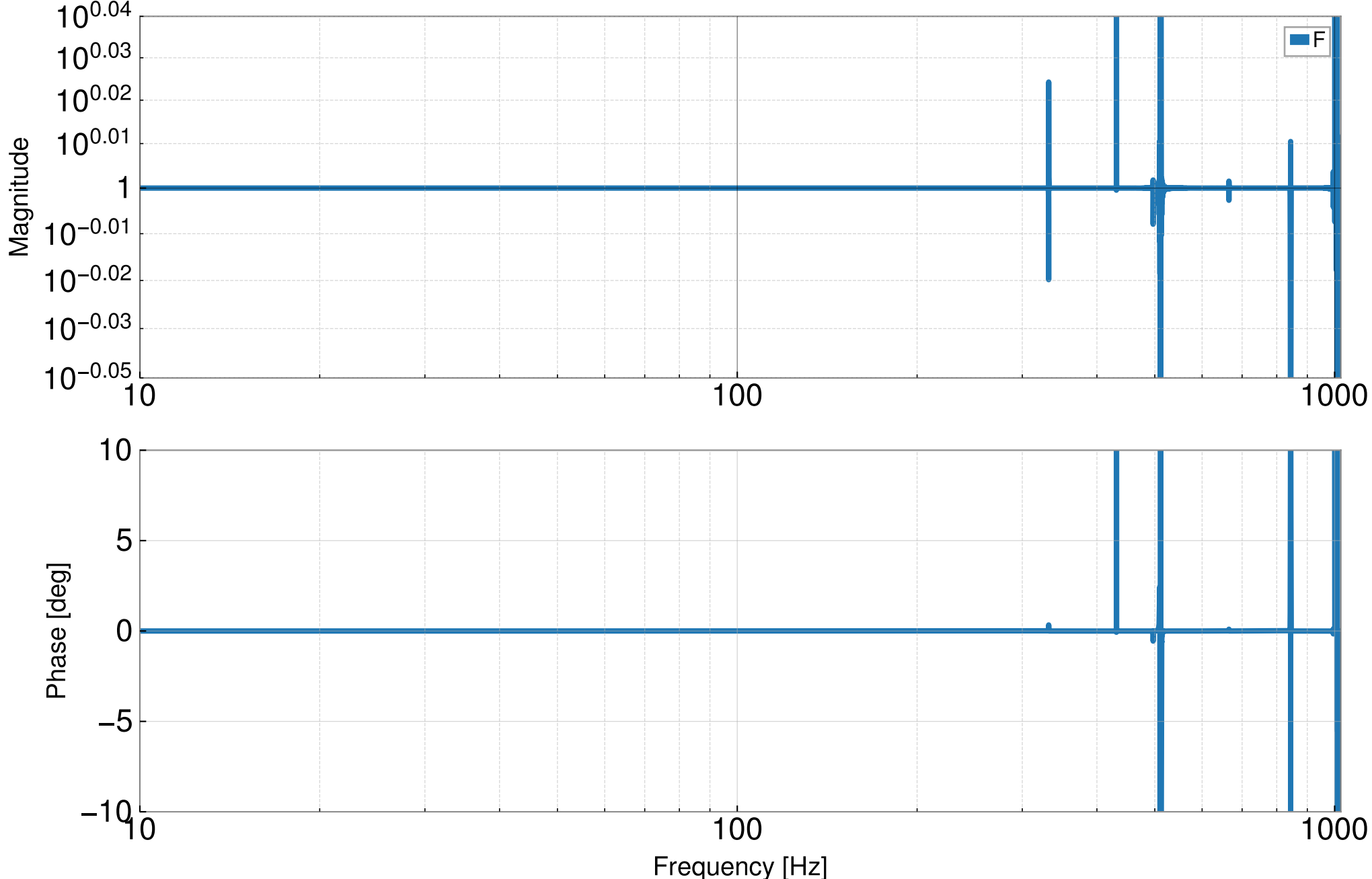


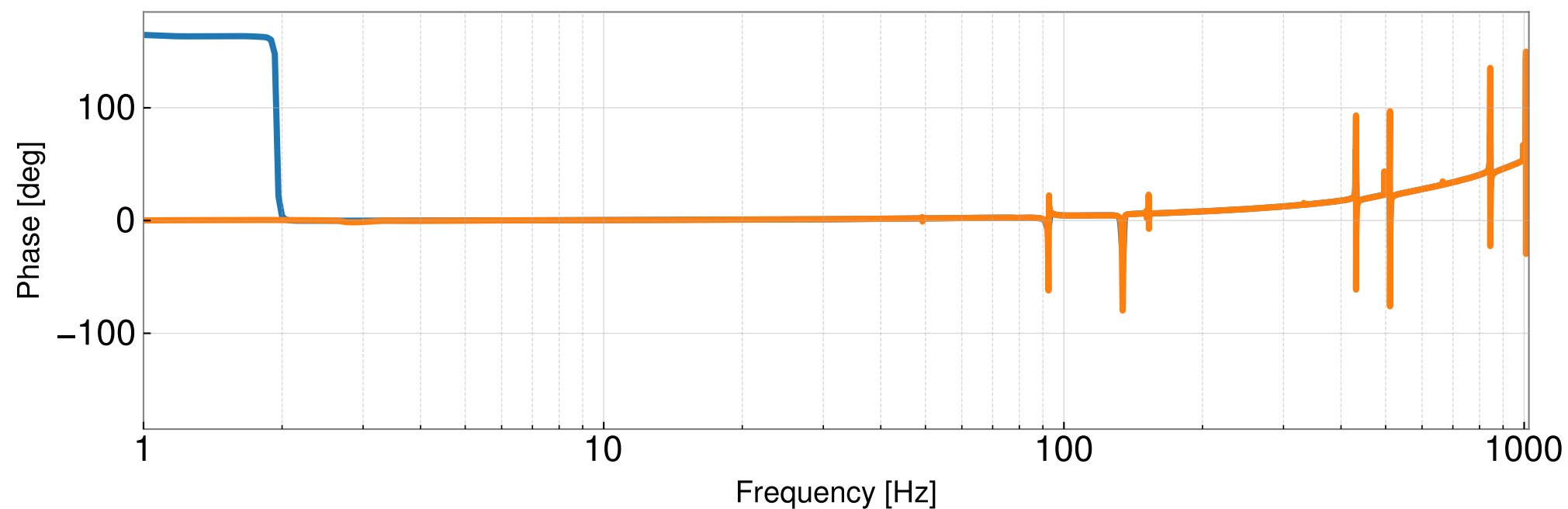
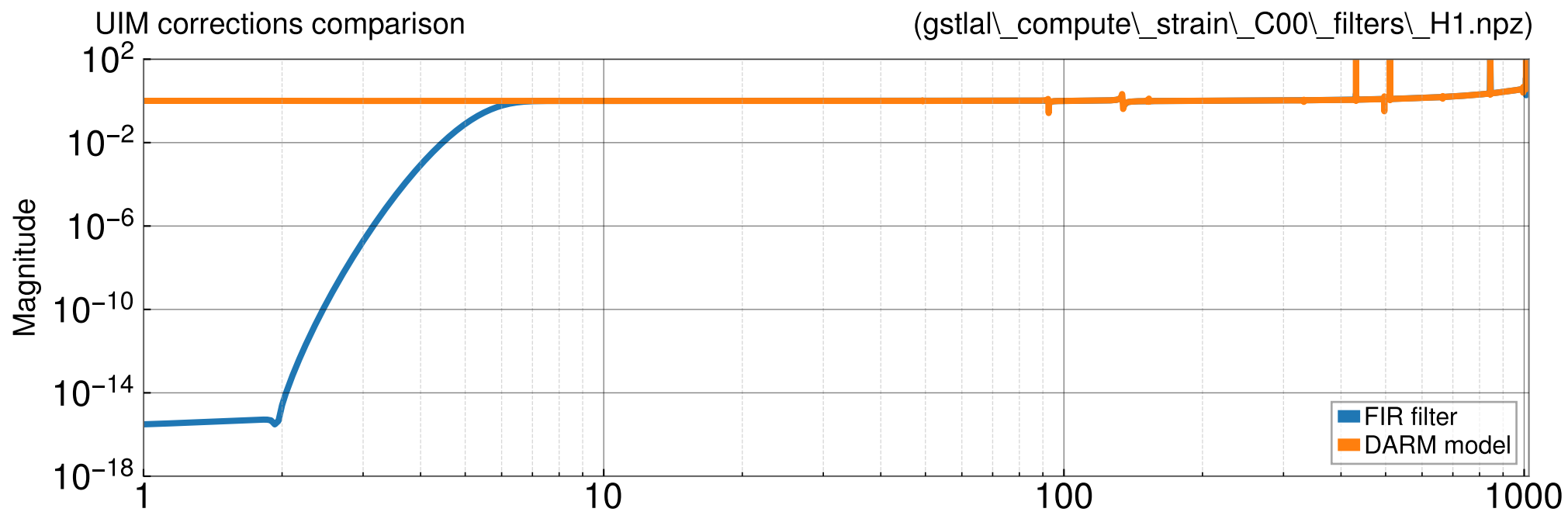
Ratio of PUM corrections comparison

(gstlal_compute_strain_C00_filters_H1.npz)



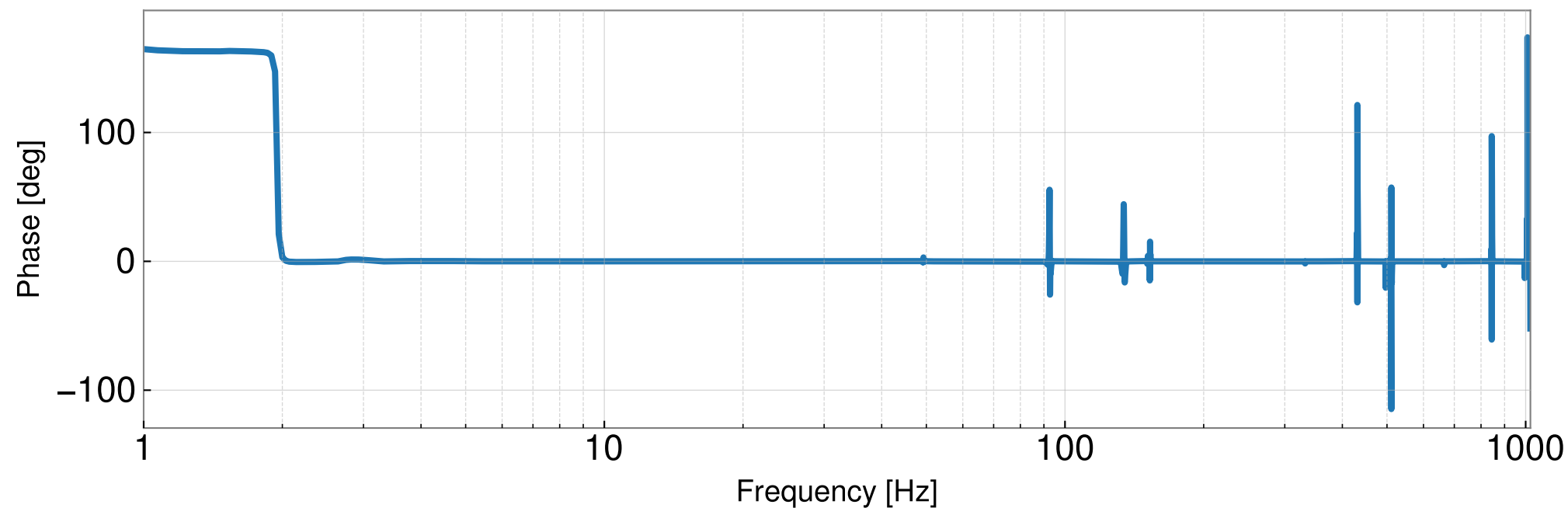
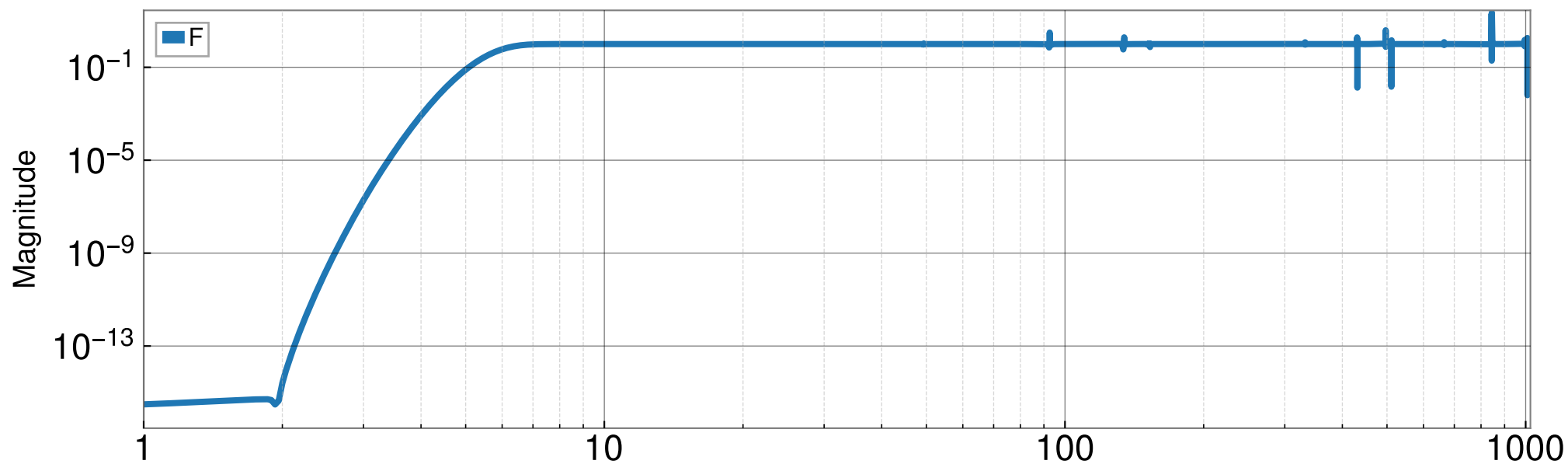
Ratio of PUM corrections comparison (gstla_compute_strain_C00_filters_H1.npz) (above 10 Hz)





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)

