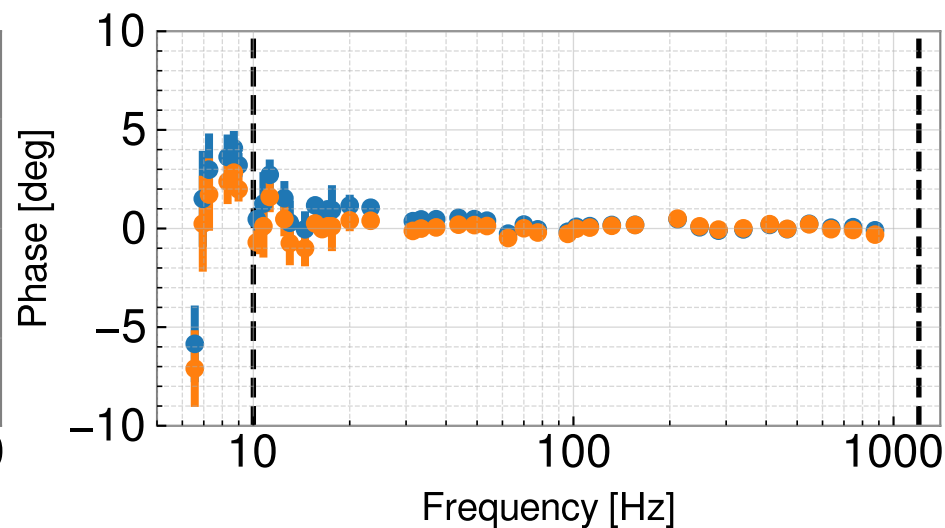
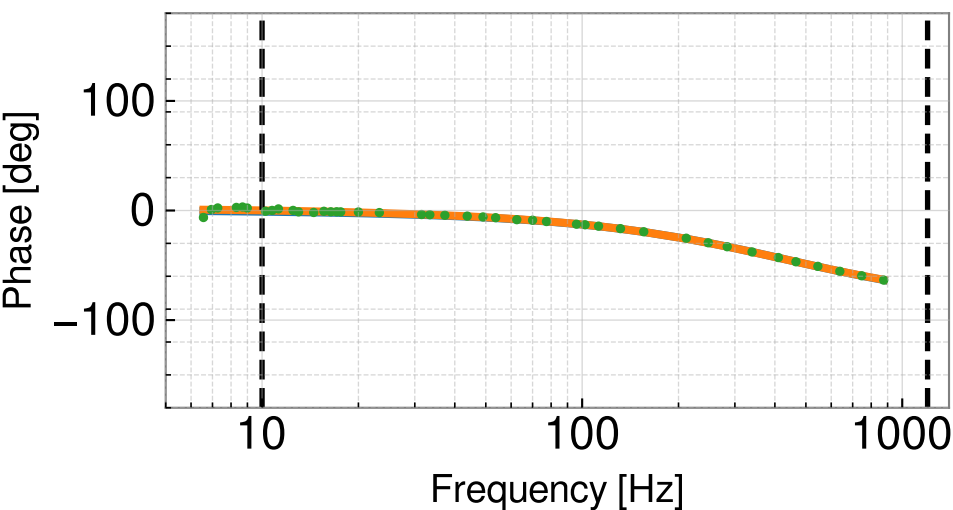
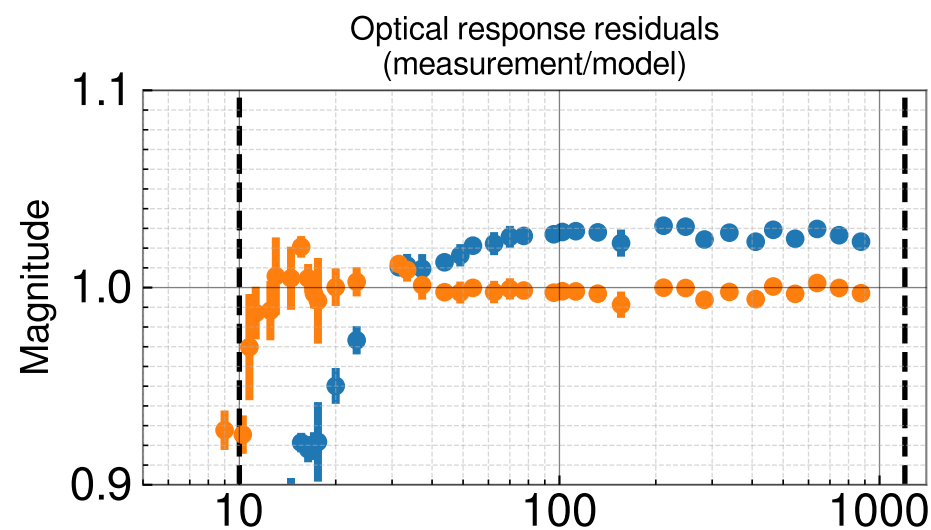
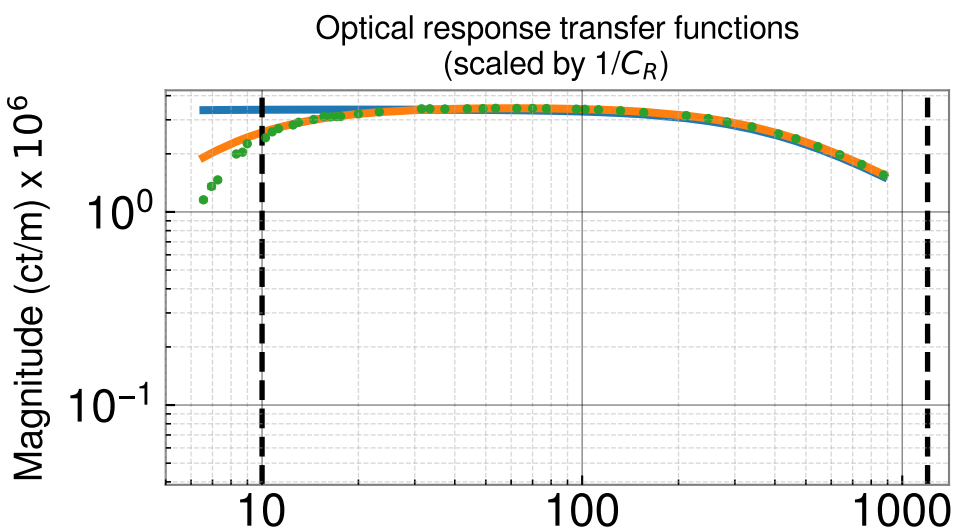
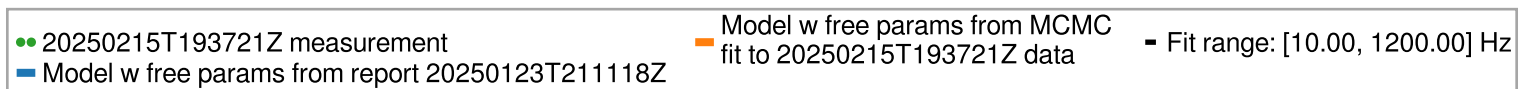


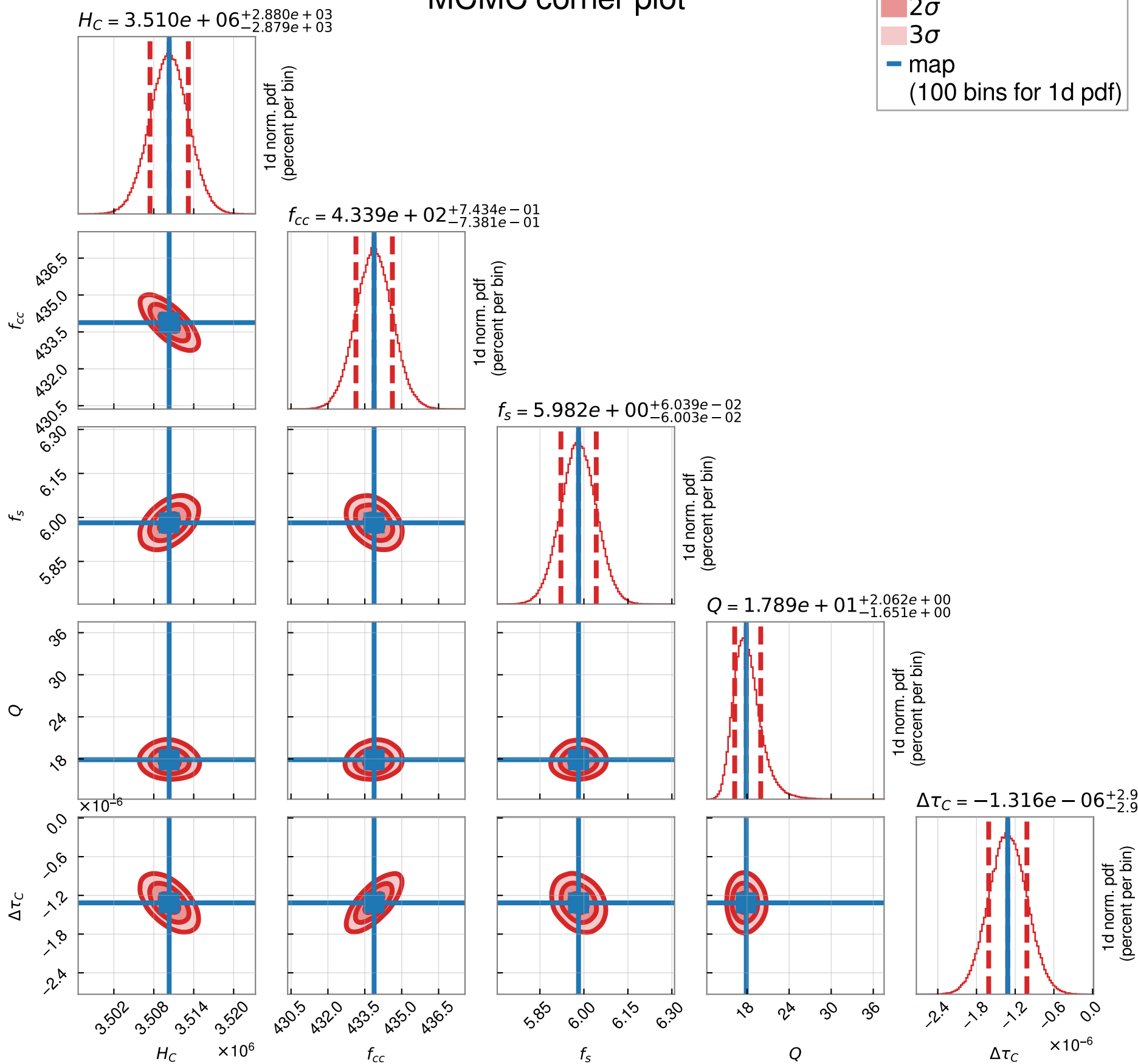
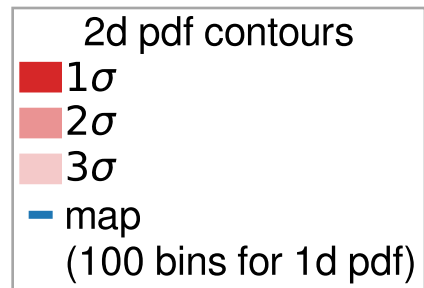
H1 sensing model MCMC summary

All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20250215T193653Z/pydarm_H1.ini`



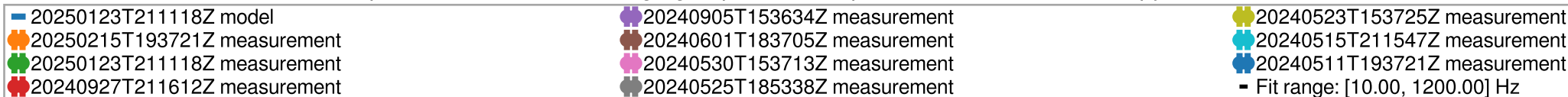
Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.51e+06	2880 (0.08%)	2879 (0.08%)
Cavity_pole, f_{cc} (Hz)	433.9	0.7434 (0.17%)	0.7381 (0.17%)
Detuned SRC spring frequency, f_s (Hz)	5.982	0.06039 (1.01%)	0.06003 (1.00%)
Detuned SRC spring quality factor, Q_s	17.89	2.062 (11.53%)	1.651 (9.23%)
Residual time delay, τ_c (s)	-1.316e-06	2.974e-07 (-22.60%)	2.95e-07 (-22.42%)

20250215T193721Z sensing function MCMC corner plot

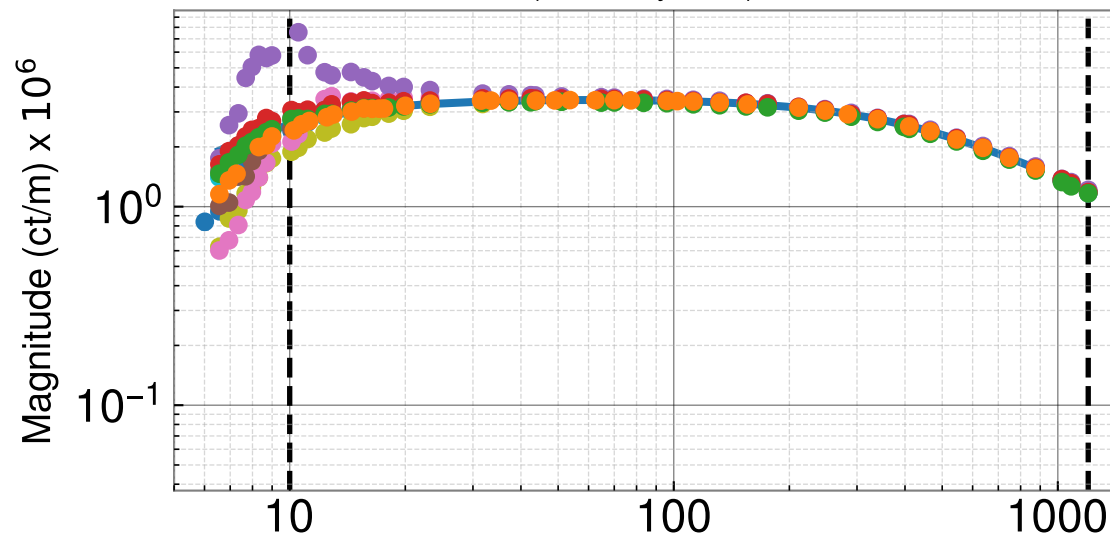


H1 sensing model history (last 9 measurements)

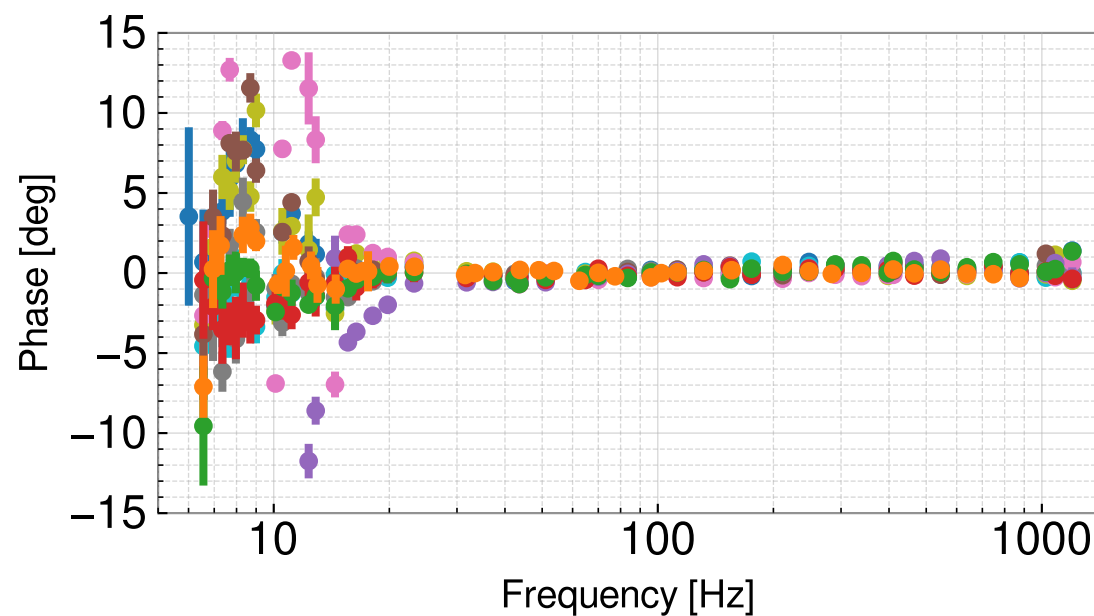
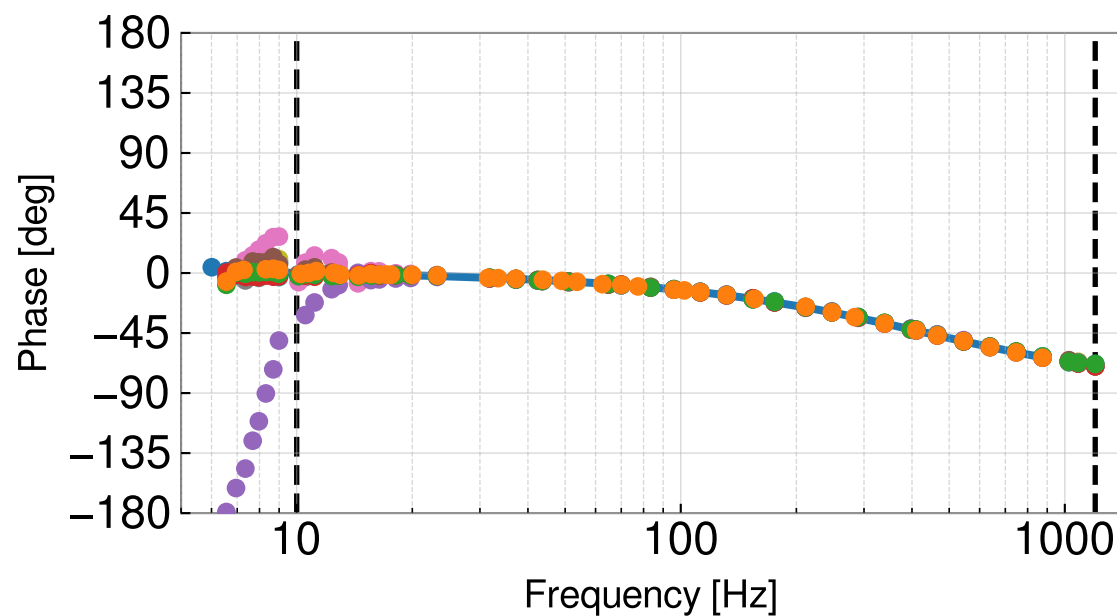
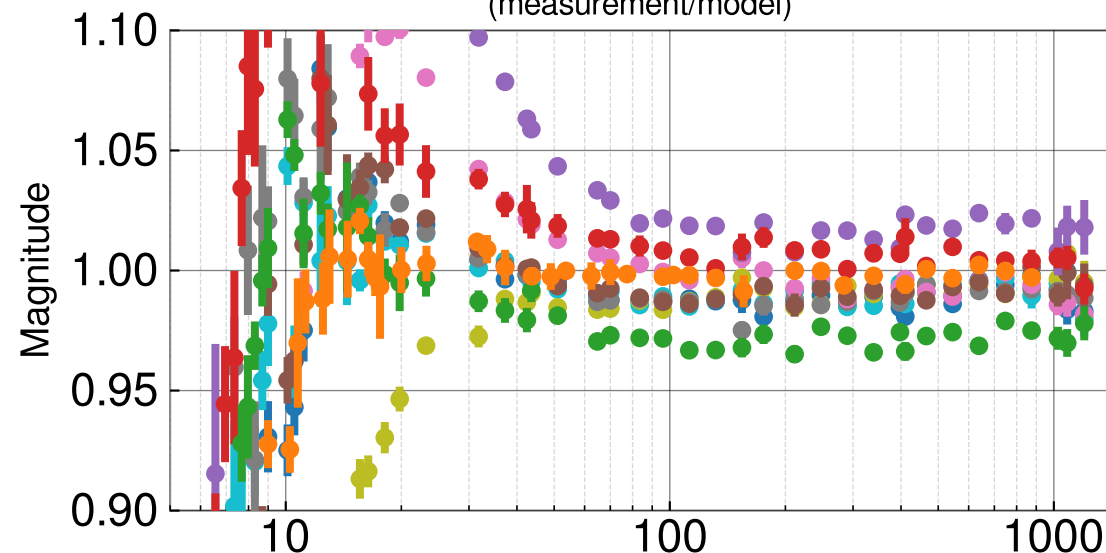
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250215T193653Z/pydarm_H1.ini



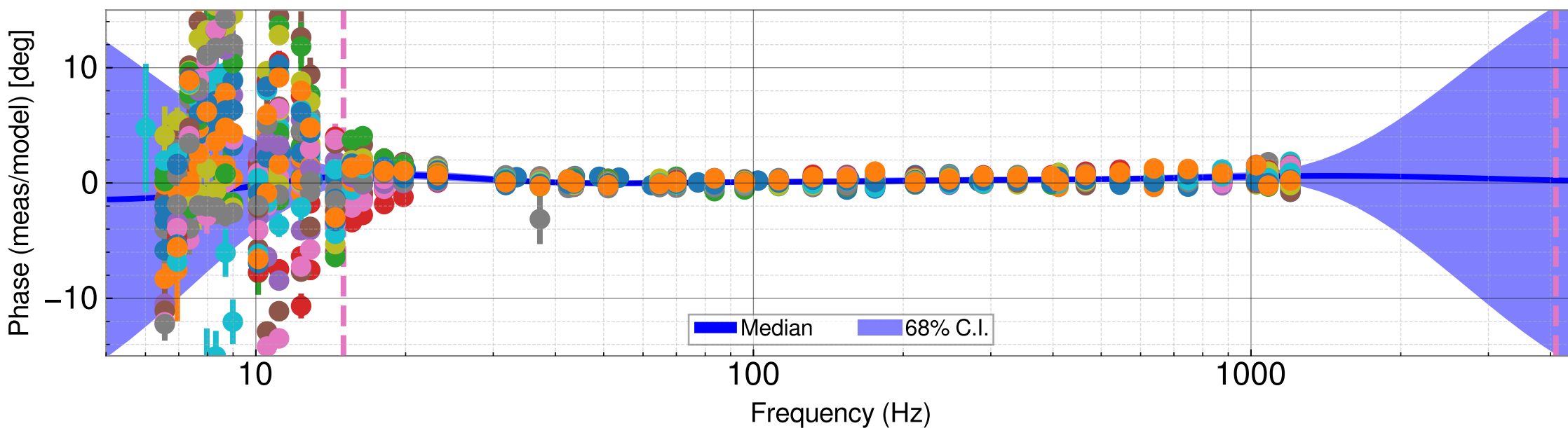
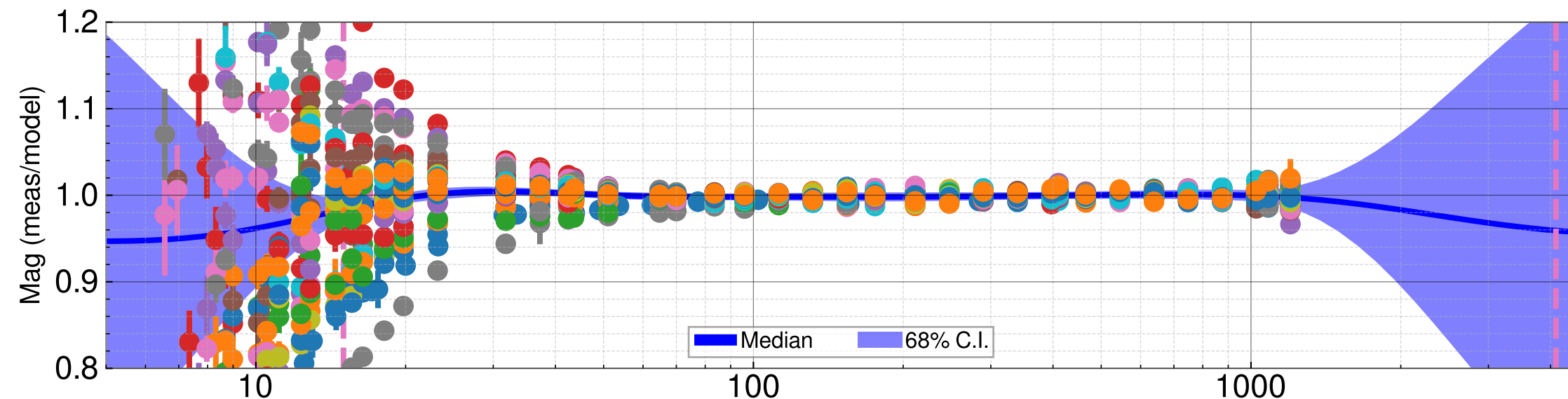
Optical response transfer functions
(scaled by $1/C_R$)



Optical response residuals
(measurement/model)



meas. 20240905T153702Z of report 20240905T153634Z
 meas. 20240601T183725Z of report 20240601T183705Z
 meas. 20240530T153732Z of report 20240530T153713Z
 meas. 20240525T185358Z of report 20240525T185338Z
 meas. 20240523T153745Z of report 20240523T153725Z
 meas. 20240515T211607Z of report 20240515T211547Z
 meas. 20240511T193741Z of report 20240511T193721Z
 meas. 20240508T153742Z of report 20240508T153722Z
 meas. 20240406T183830Z of report 20240406T183810Z
 meas. 20240330T211539Z of report 20240330T211519Z
 meas. 20240324T211301Z of report 20240324T211241Z
 meas. 20240317T234200Z of report 20240317T234141Z
 meas. 20240316T161843Z of report 20240316T161823Z
 meas. 20240315T032806Z of report 20240315T032747Z
 meas. 20240315T012251Z of report 20240315T012231Z
 meas. 20240311T214051Z of report 20240311T214031Z
 meas. 20231018T190749Z of report 20231018T190729Z
 meas. 20231004T191004Z of report 20231004T190945Z
 meas. 20230928T193629Z of report 20230928T193609Z
 meas. 20230913T183710Z of report 20230913T183650Z
 meas. 20230906T220910Z of report 20230906T220850Z
 meas. 20230830T213712Z of report 20230830T213653Z
 meas. 20230830T191450Z of report 20230830T191430Z

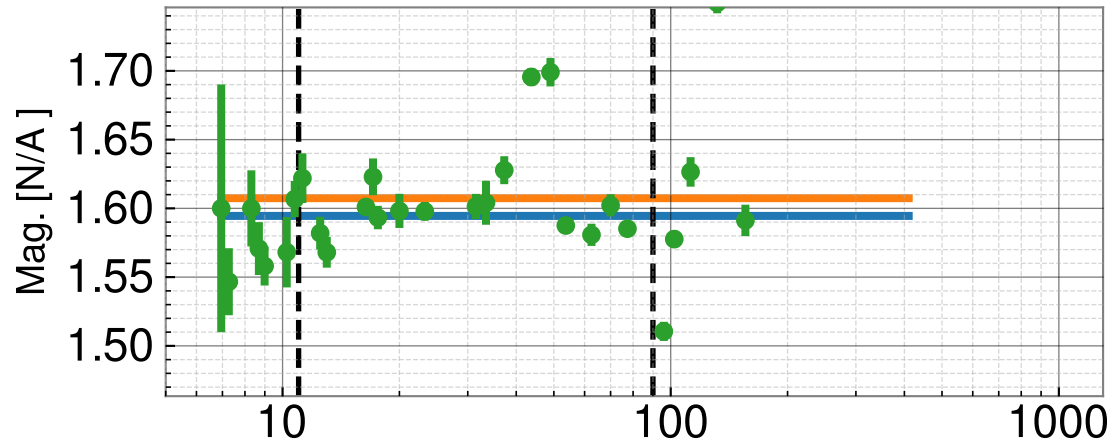


H1SUSEX L1 actuation model MCMC summary

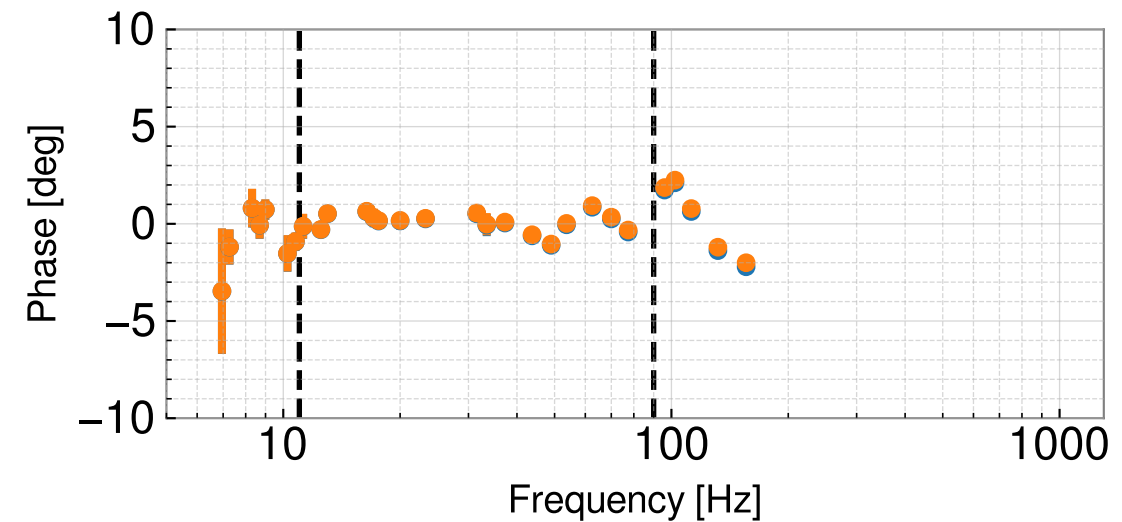
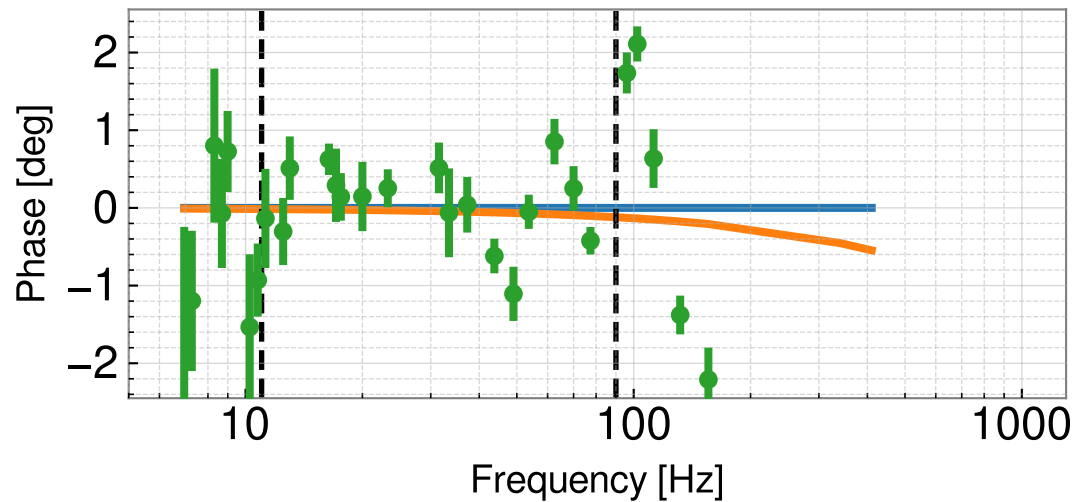
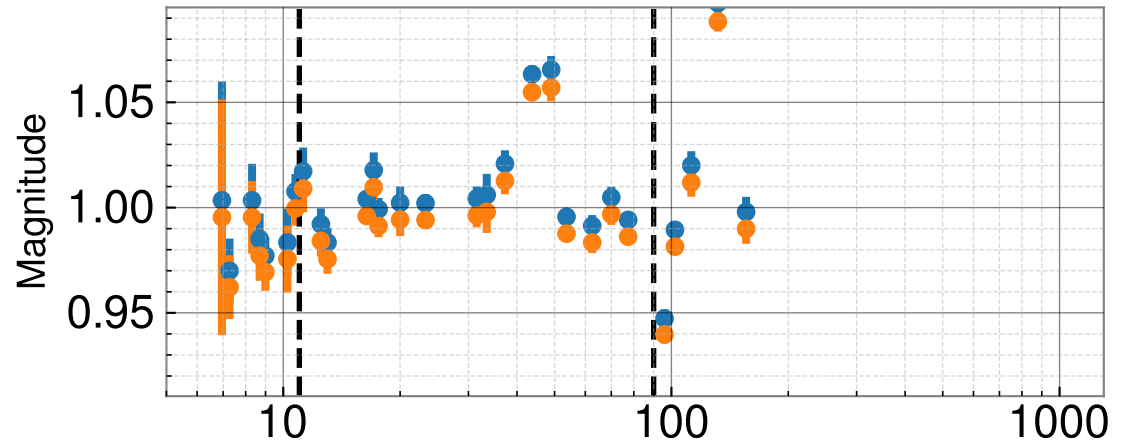
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250215T193653Z/pydarm_H1.ini



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

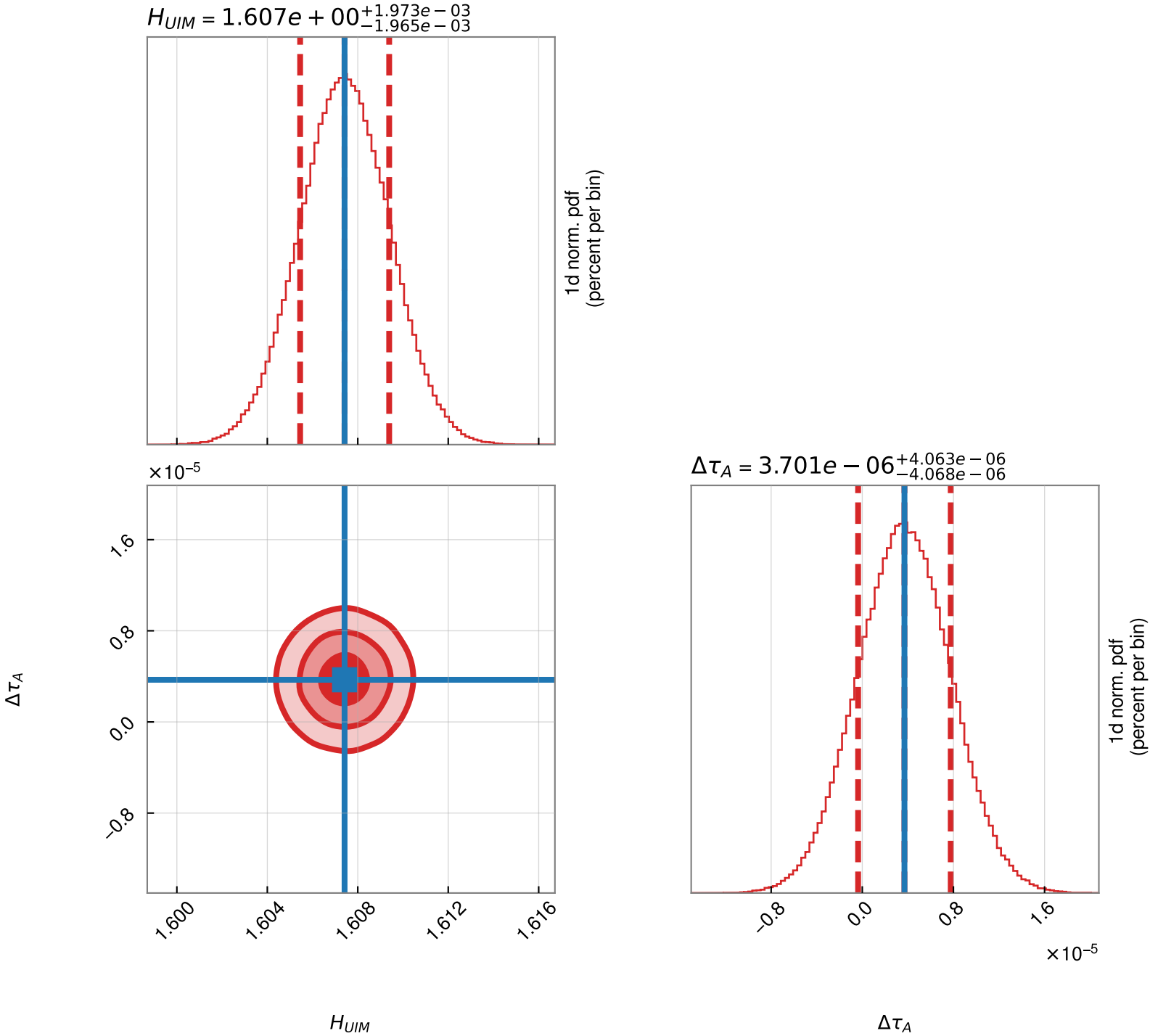
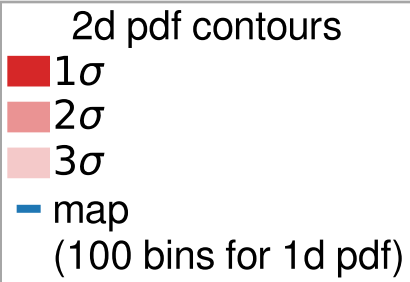


Actuation strength residuals
(meas./model w. free params)



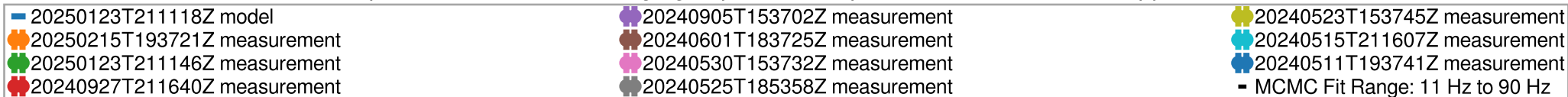
Parameter	(value +/-) value	+	-
Actuation Gain, Hau (N/A)	1.607	0.001973 (0.12%)	0.001965 (0.12%)
Residual time delay, tau_A (s)	3.701e-06	4.063e-06 (109.78%)	4.068e-06 (109.92%)

20250215T193721Z EX L1 actuation
MCMC corner plot

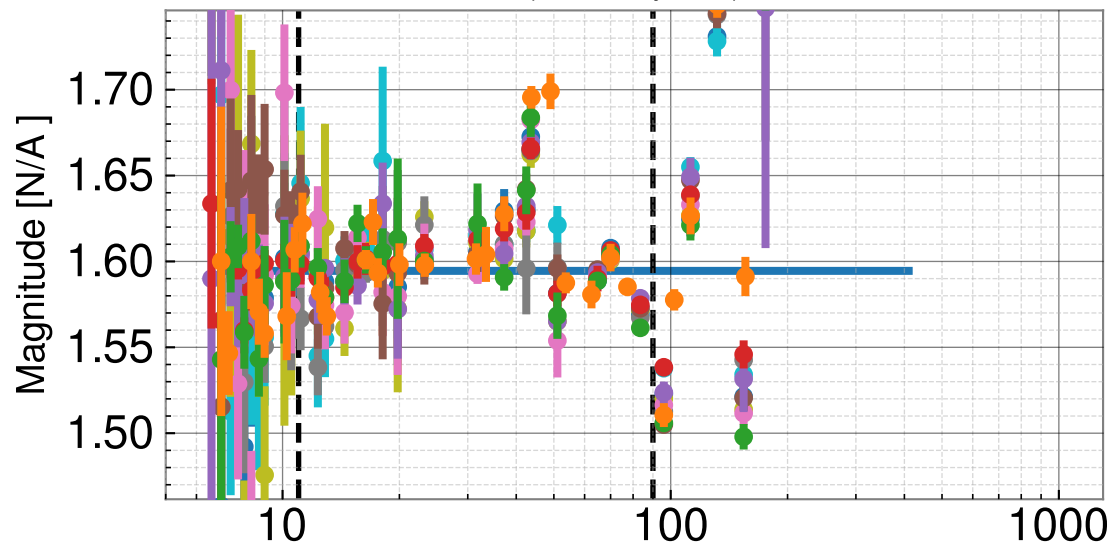


H1SUSEX L1 actuation model history (last 9 measurements)

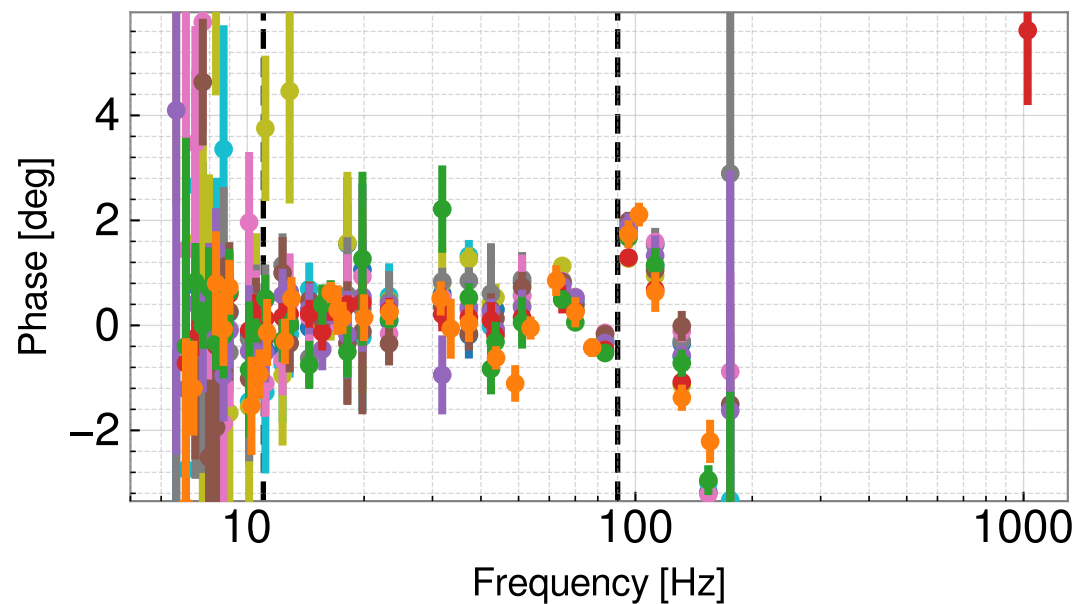
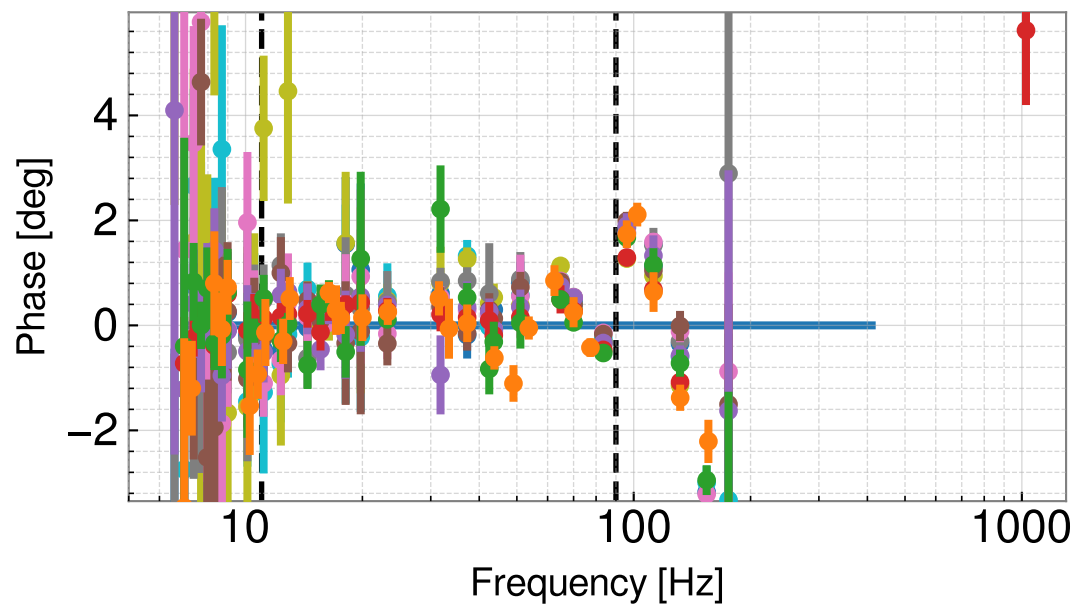
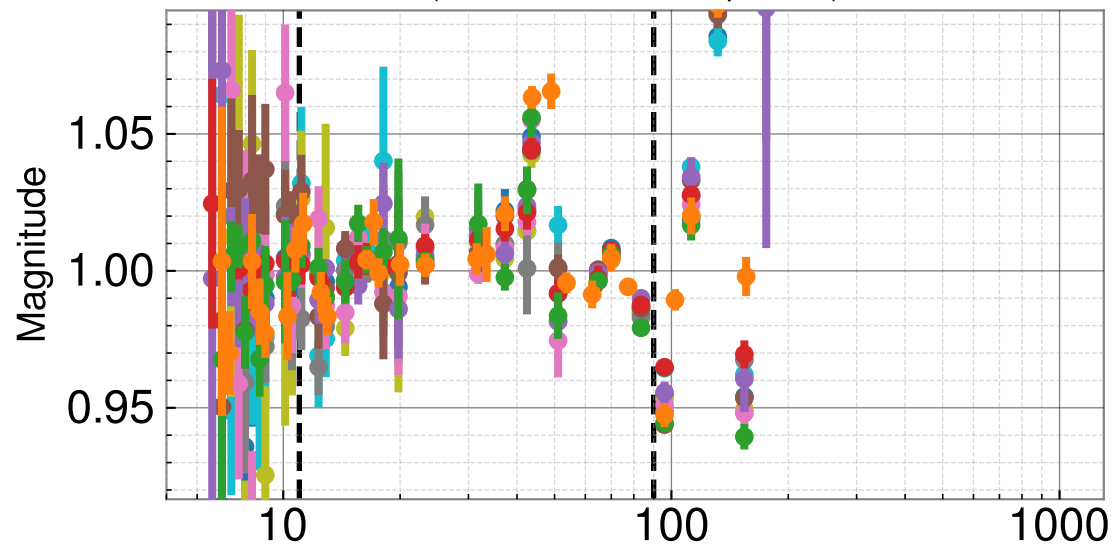
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250215T193653Z/pydarm_H1.ini



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



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

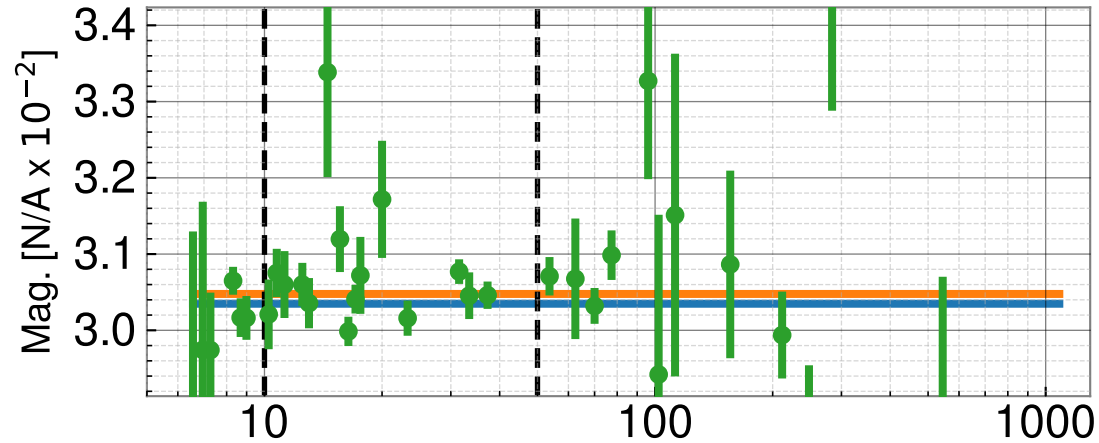


H1SUSEX L2 actuation model MCMC summary

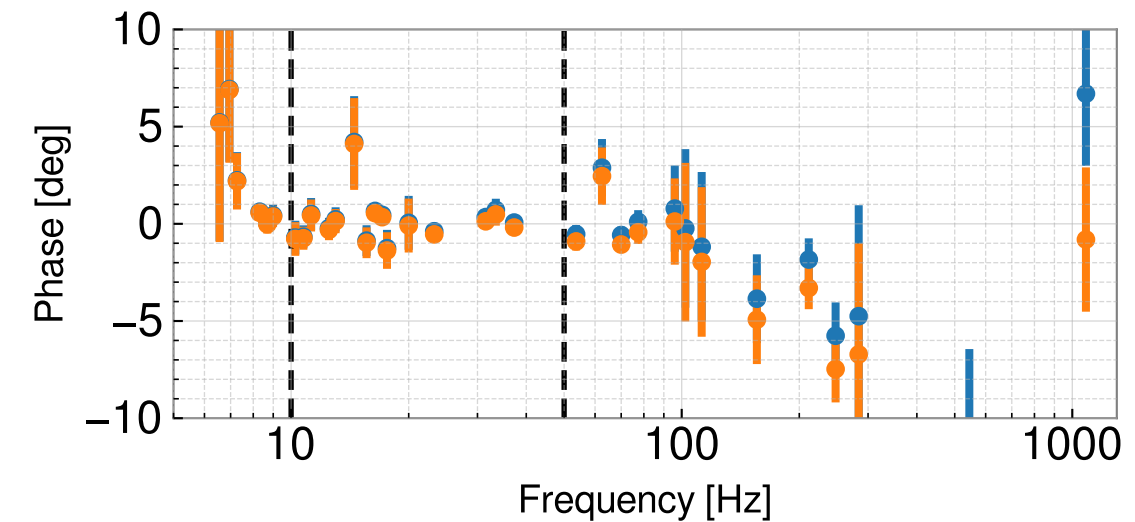
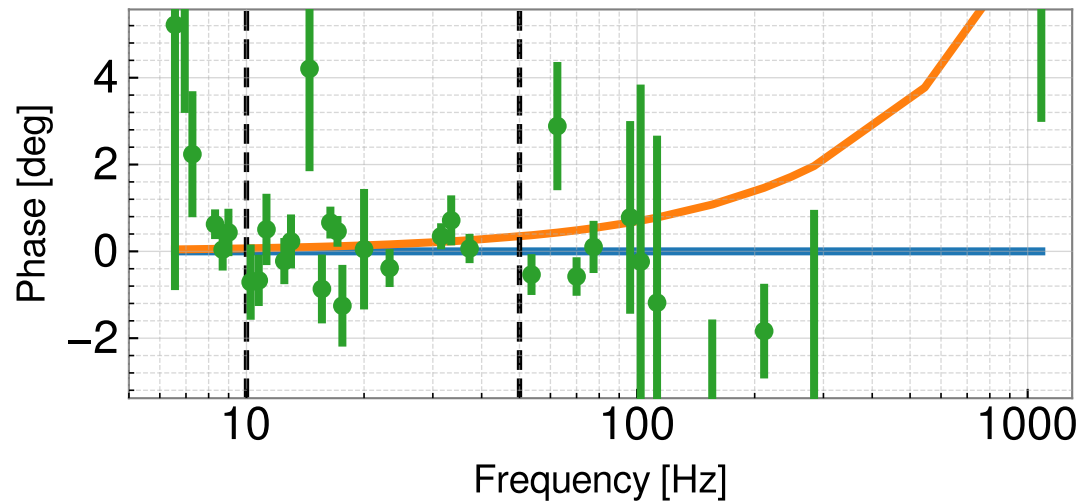
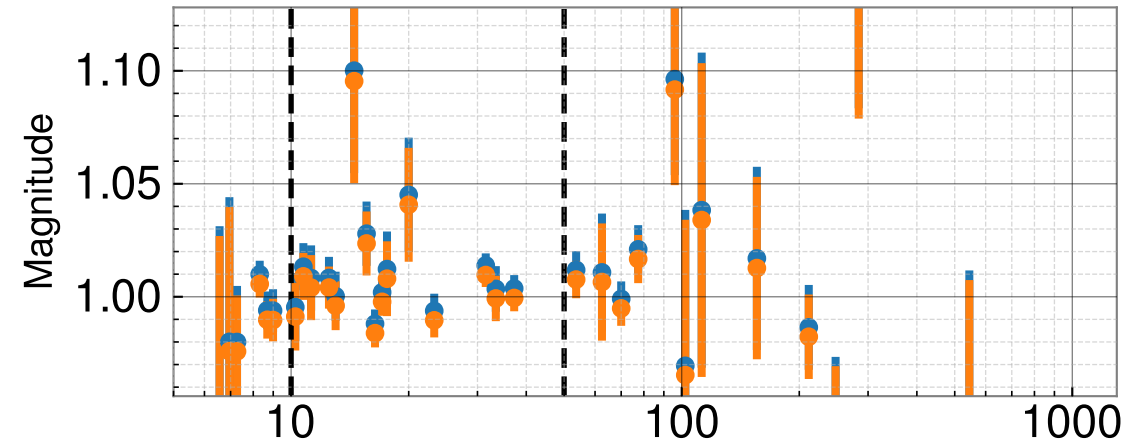
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250215T193653Z/pydarm_H1.ini



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

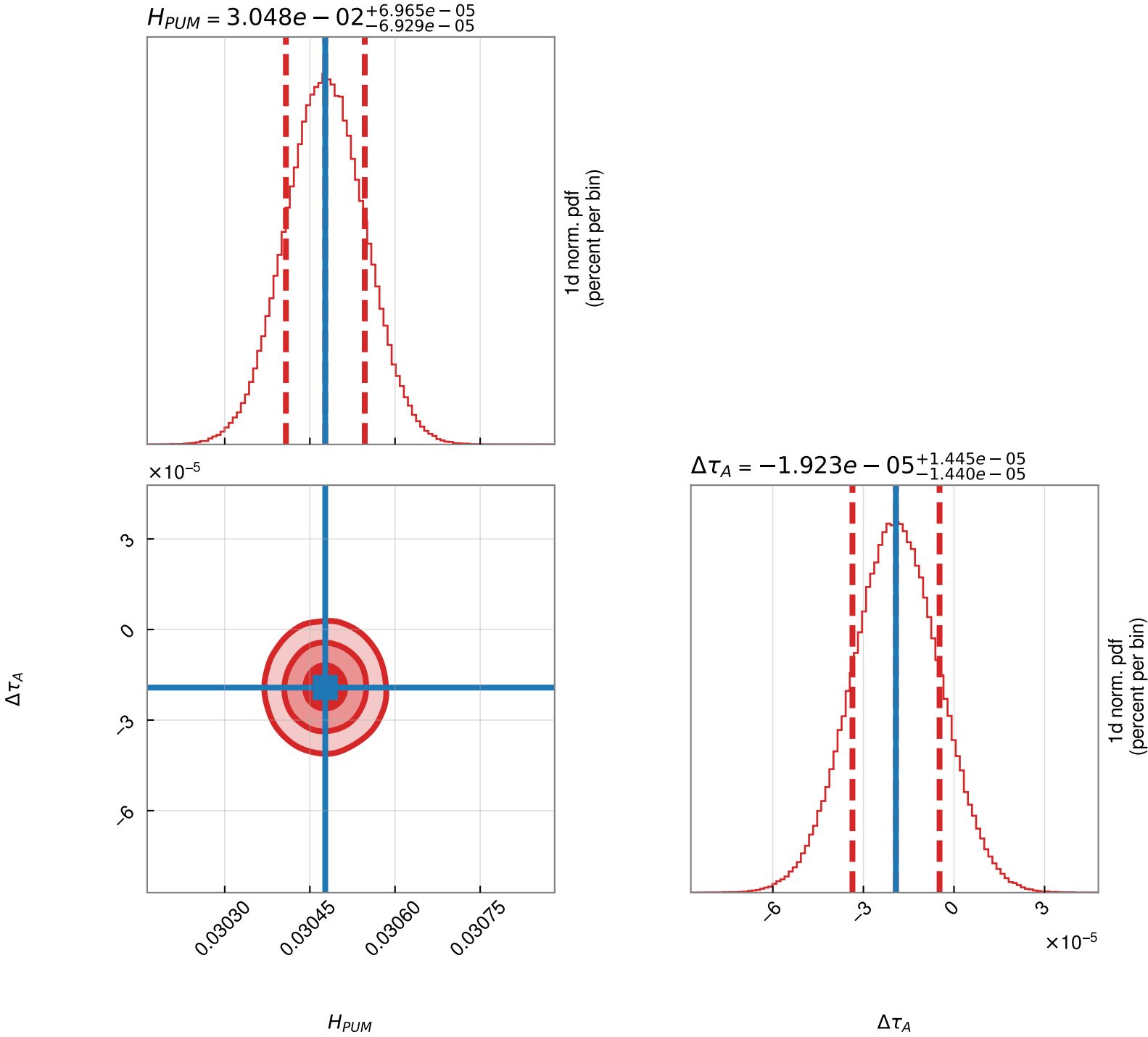
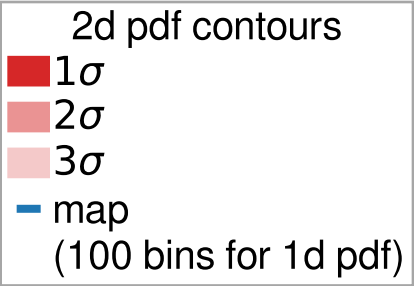


Actuation strength residuals
(meas./model w. free params)



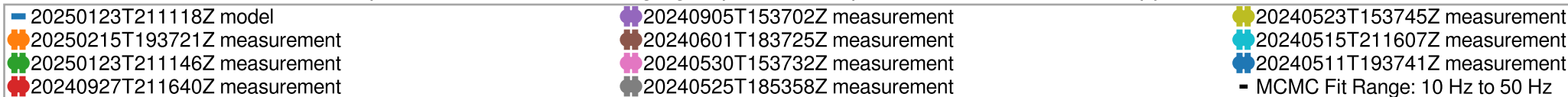
Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.03048	6.965e-05 (0.23%)	6.929e-05 (0.23%)
Residual time delay, tau_A (s)	-1.923e-05	1.445e-05 (-75.12%)	1.44e-05 (-74.85%)

20250215T193721Z EX L2 actuation
MCMC corner plot

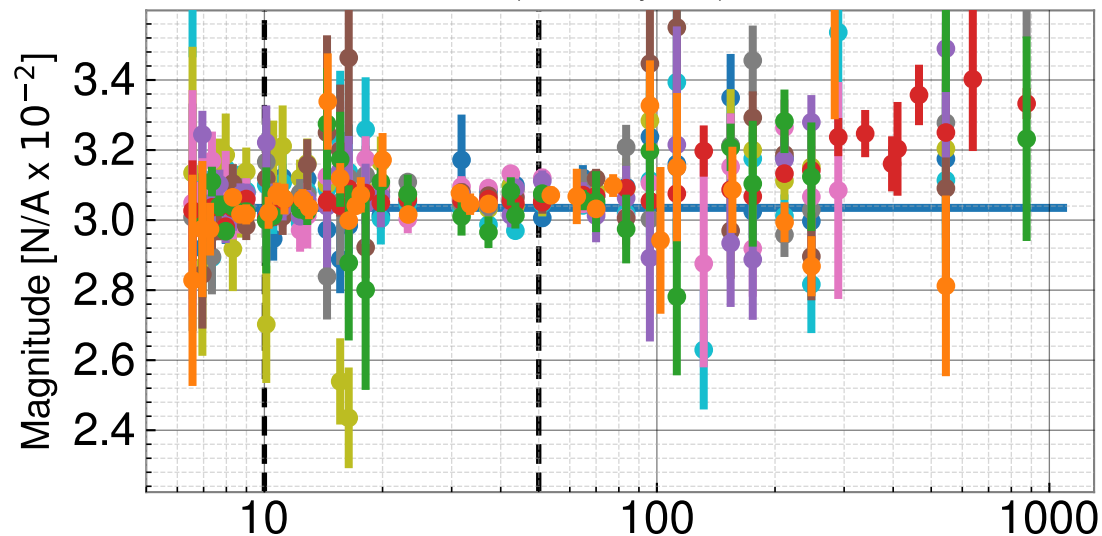


H1SUSEX L2 actuation model history (last 9 measurements)

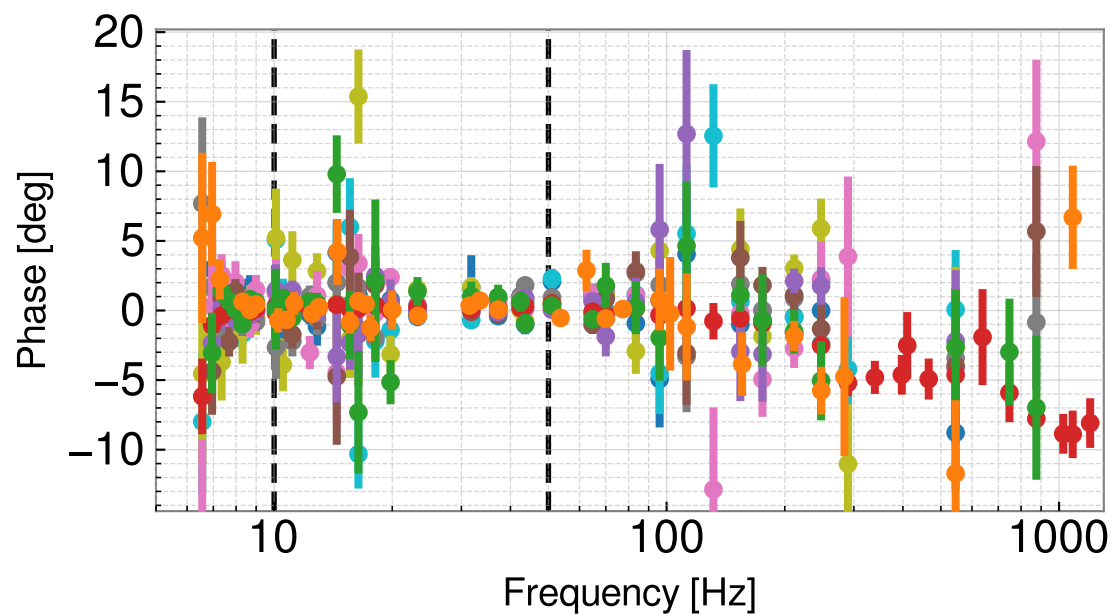
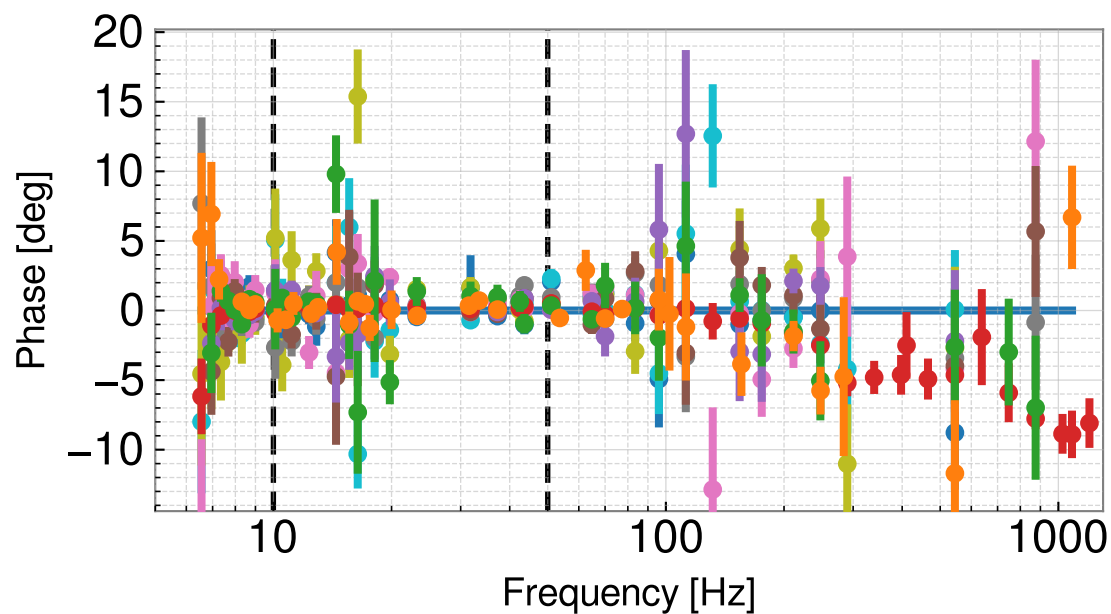
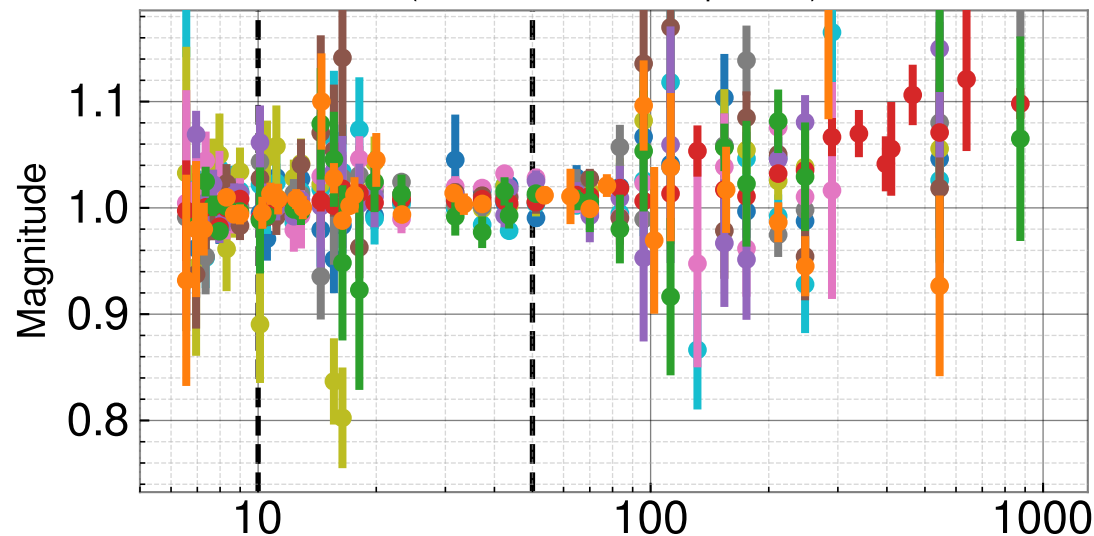
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250215T193653Z/pydarm_H1.ini



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

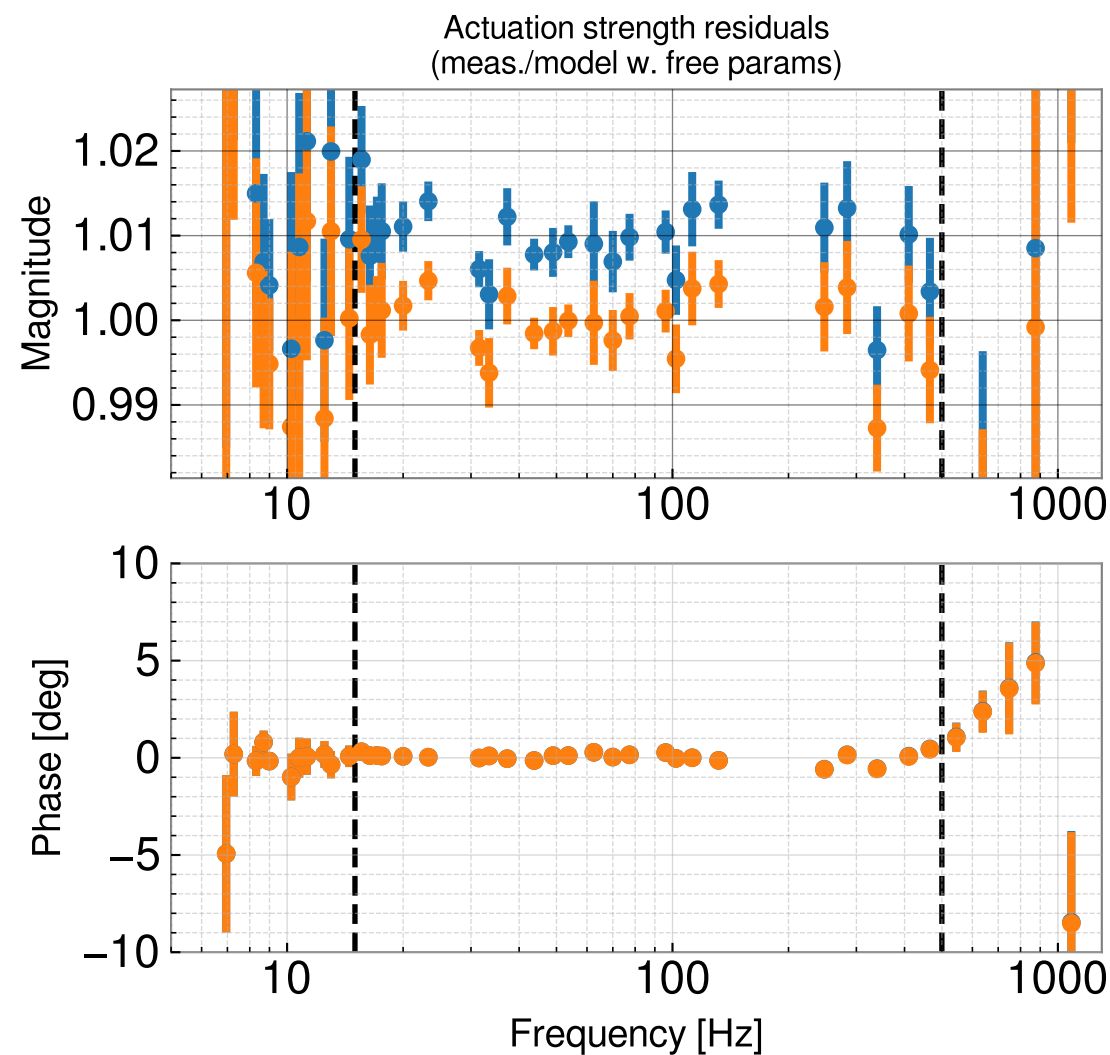
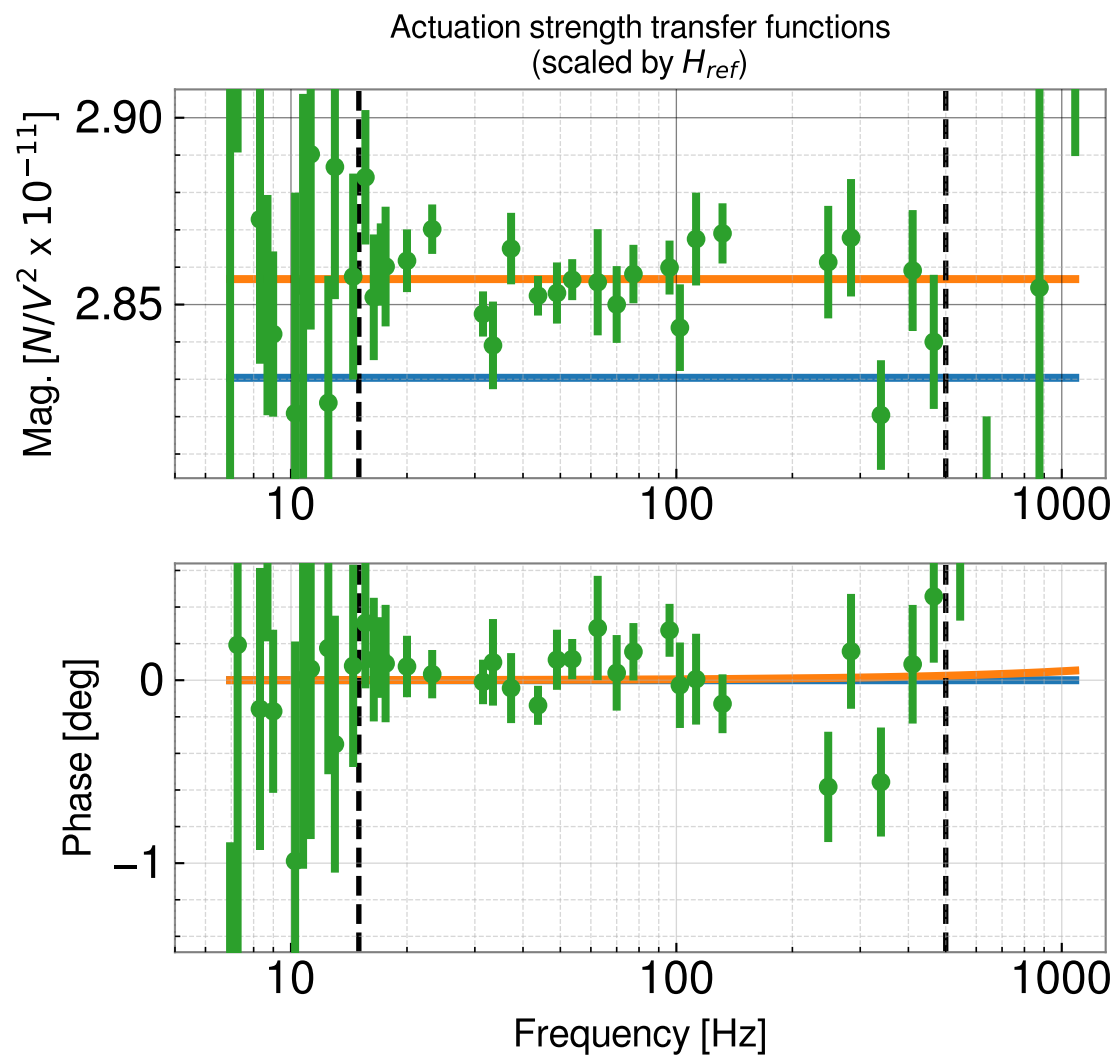


Actuation strength residuals
(meas./model w. free params)



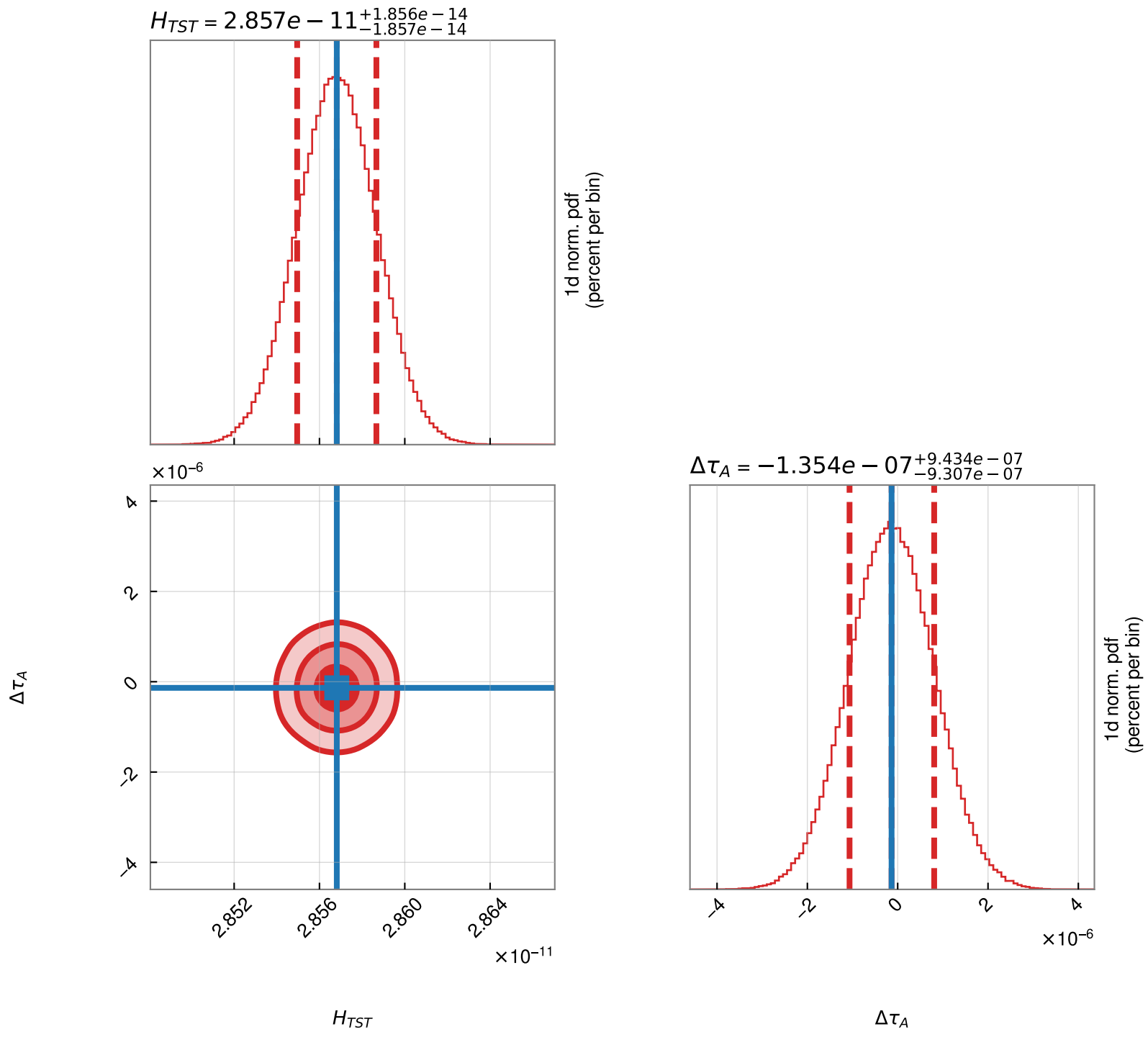
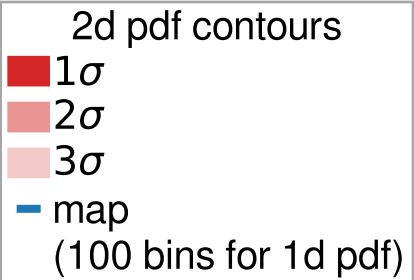
H1SUSEX L3 actuation model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250215T193653Z/pydarm_H1.ini



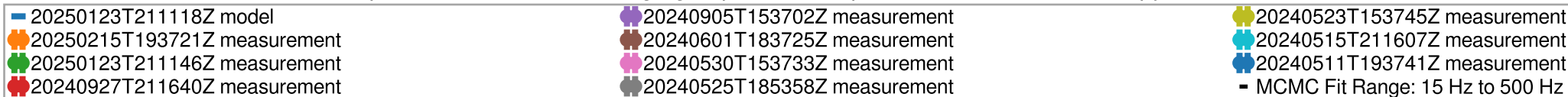
Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V^{**2})	2.857e-11	1.856e-14 (0.06%)	1.857e-14 (0.07%)
Residual time delay, tau_A (s)	-1.354e-07	9.434e-07 (-696.90%)	9.307e-07 (-687.51%)

20250215T193721Z EX L3 actuation
MCMC corner plot

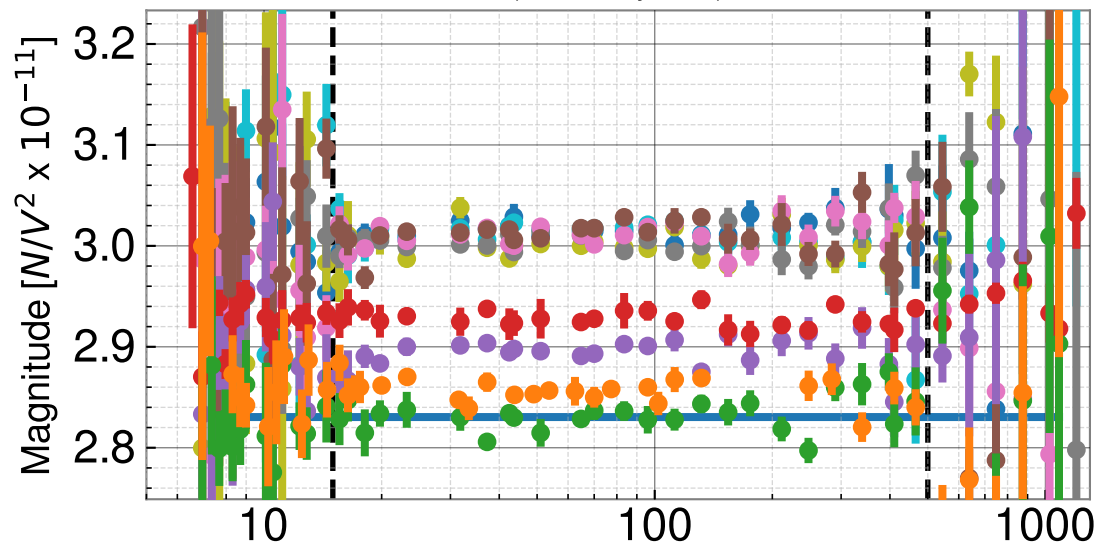


H1SUSEX L3 actuation model history (last 9 measurements)

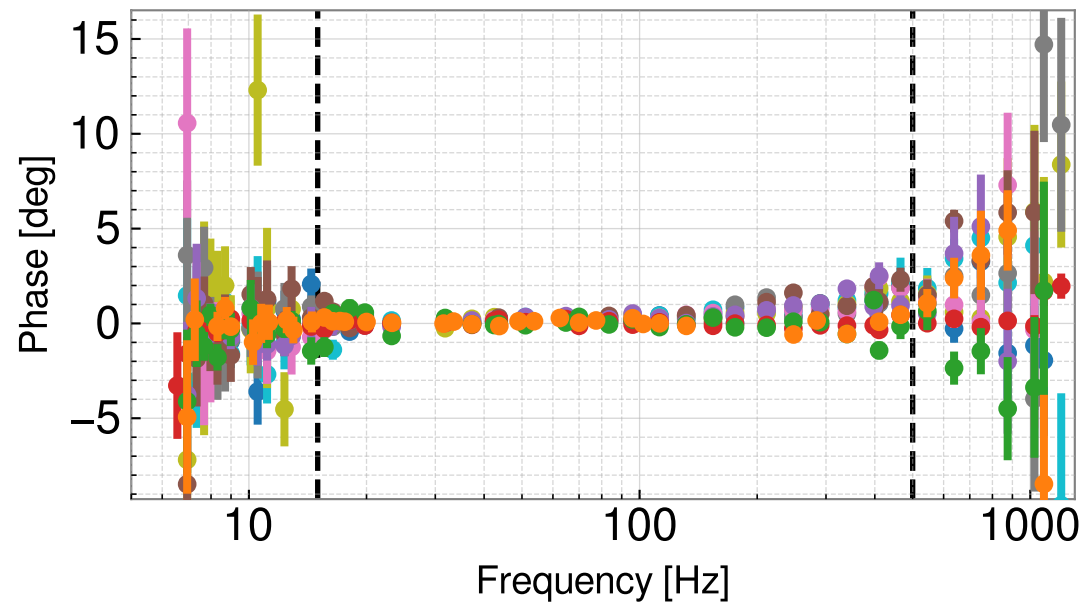
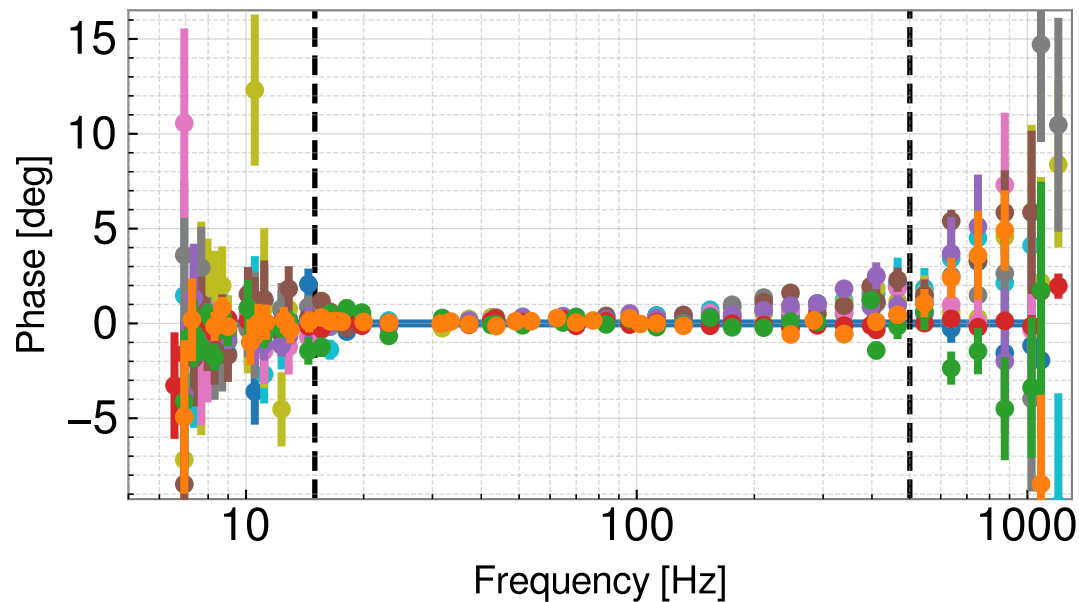
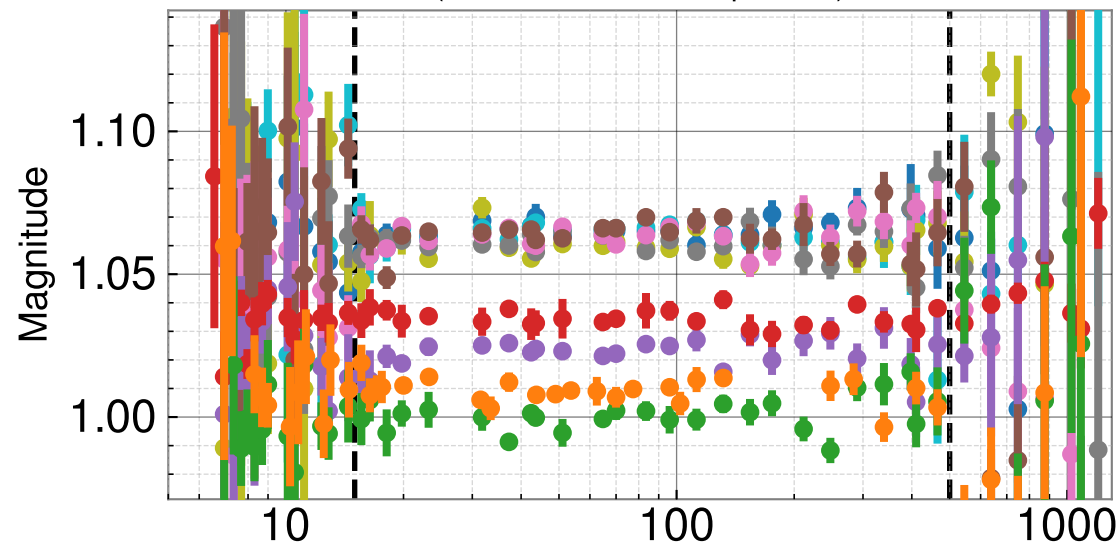
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250215T193653Z/pydarm_H1.ini



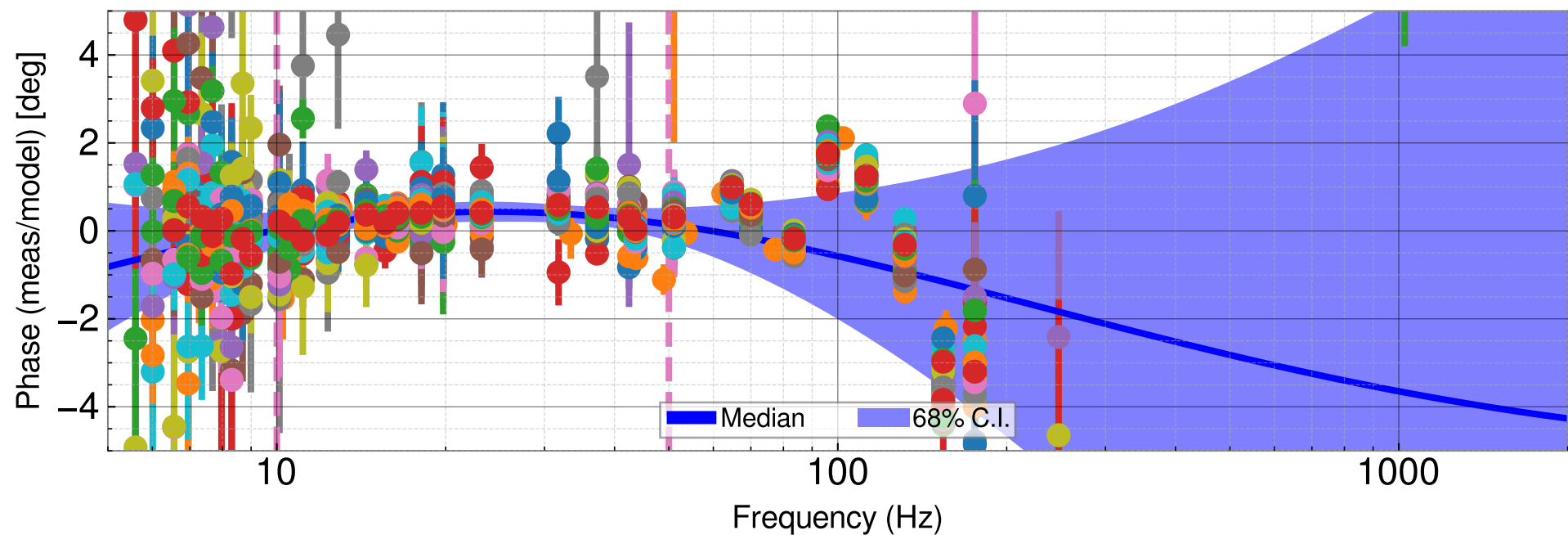
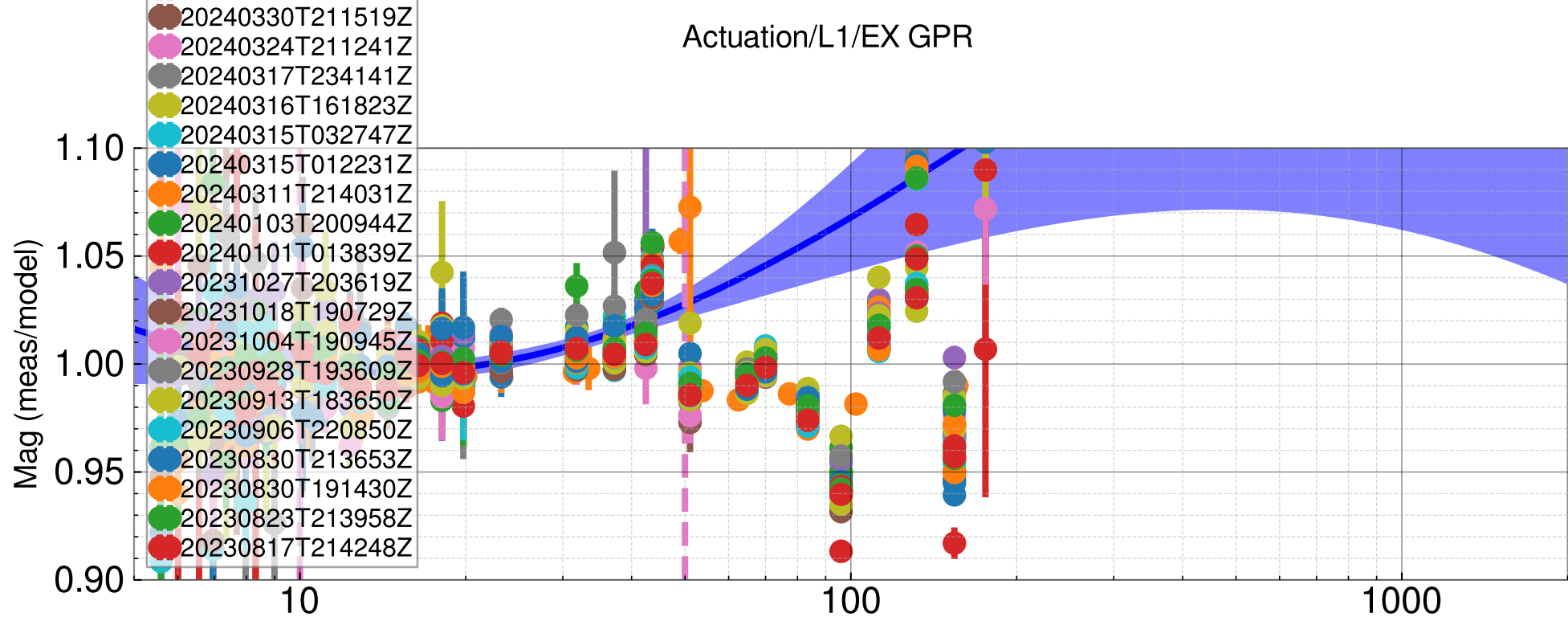
Actuation strength transfer functions
(scaled by H_{ref})



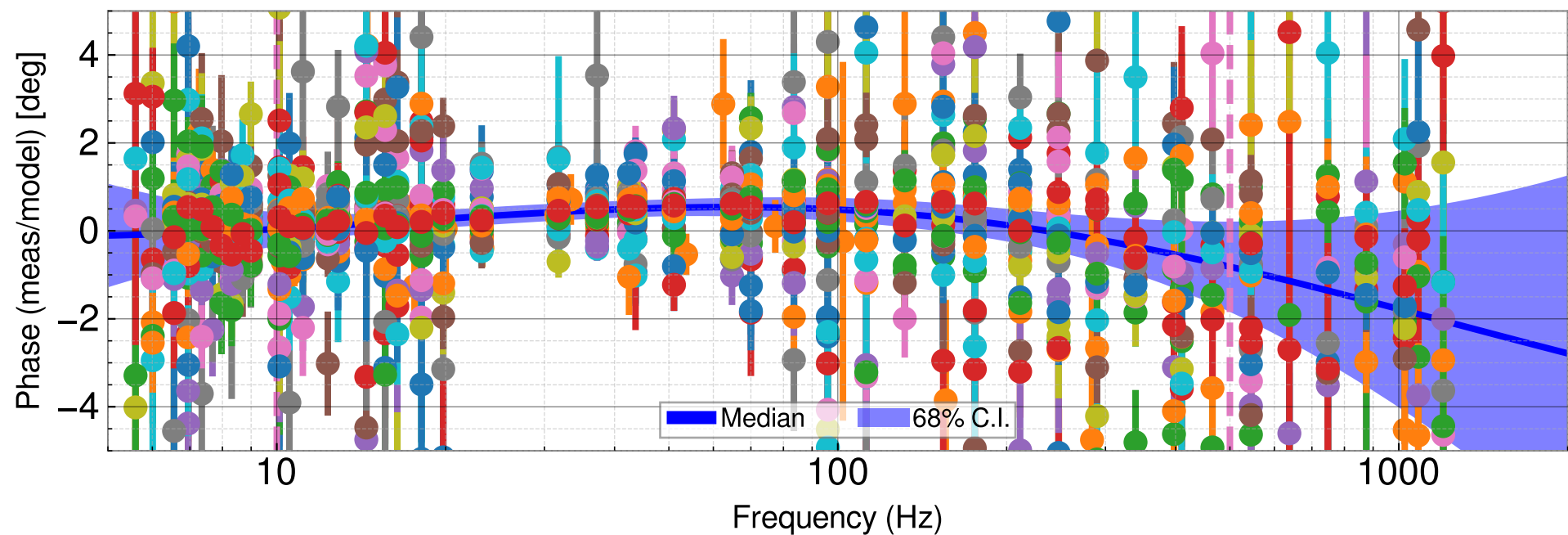
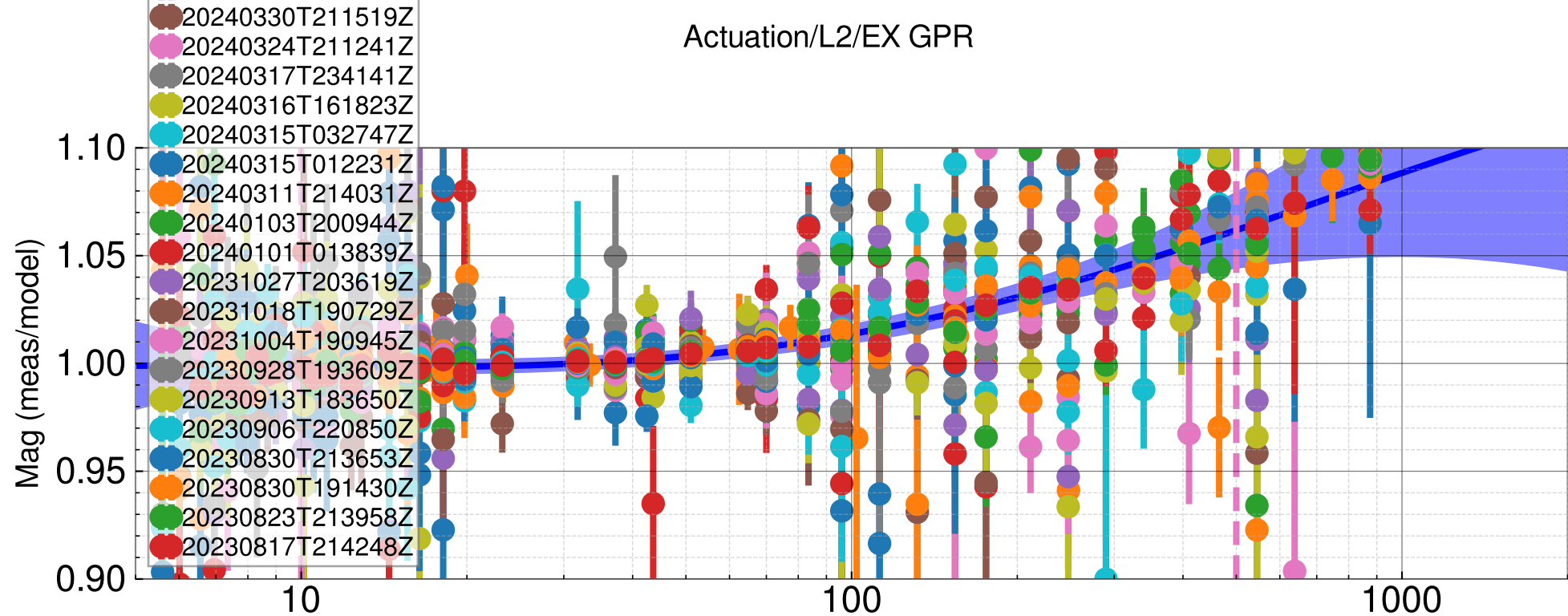
Actuation strength residuals
(meas./model w. free params)



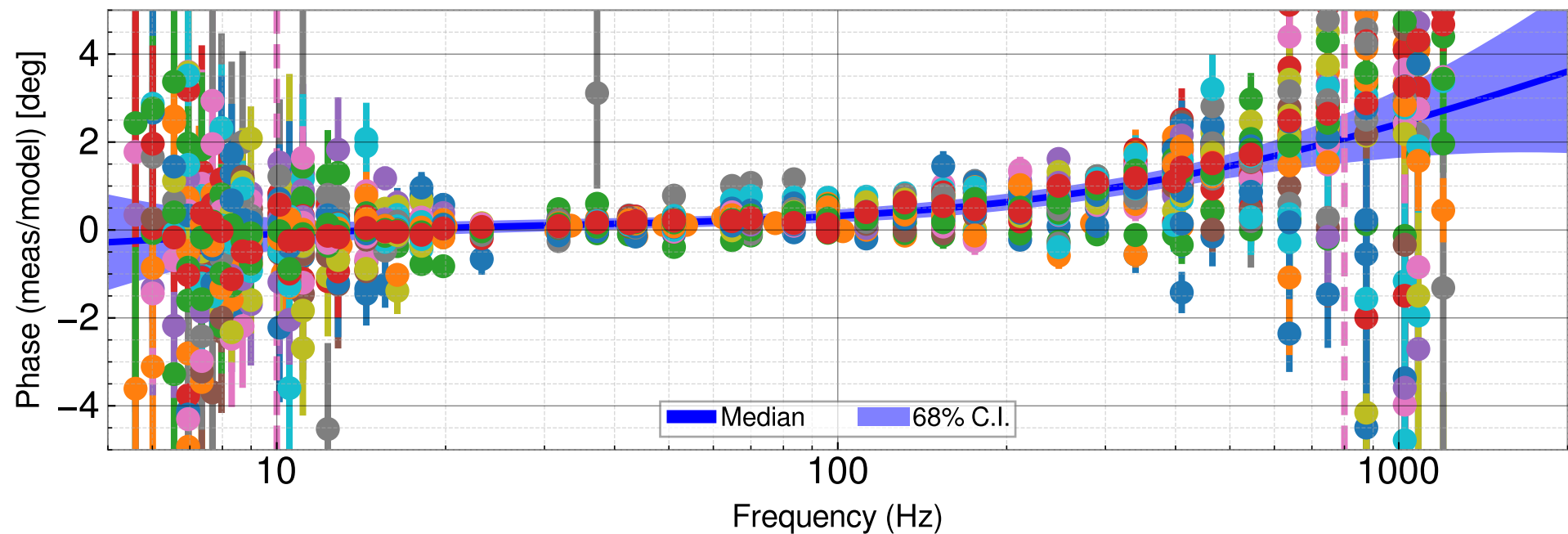
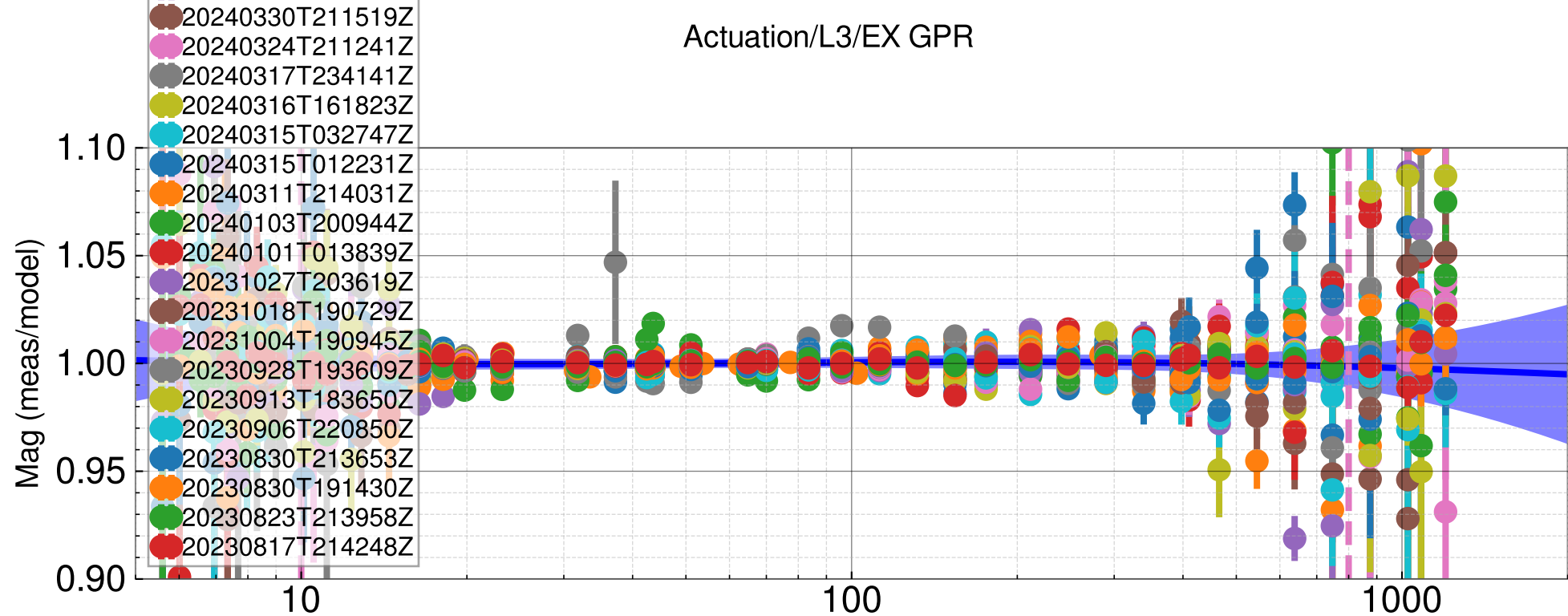
Actuation/L1/EX GPR



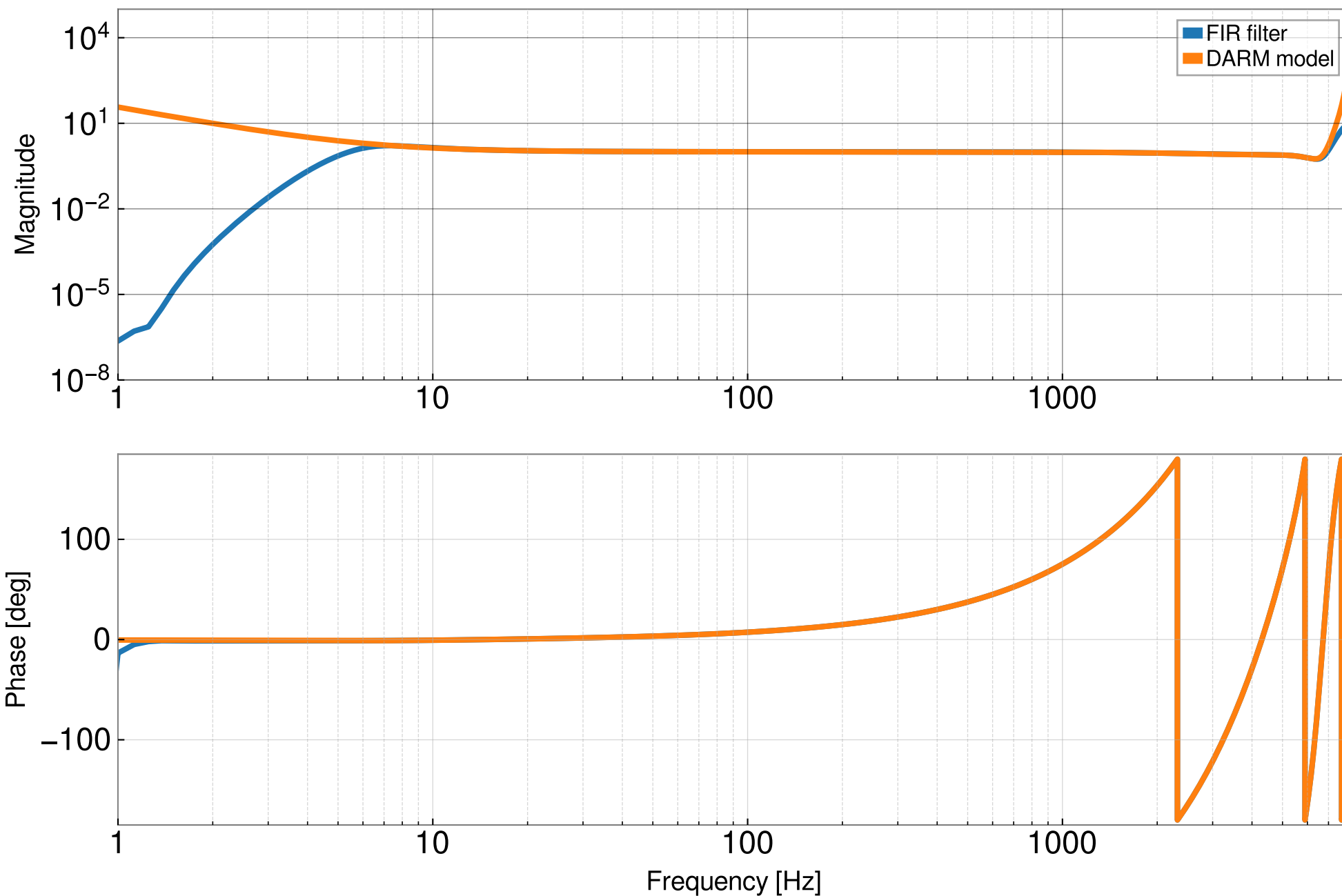
Actuation/L2/EX GPR



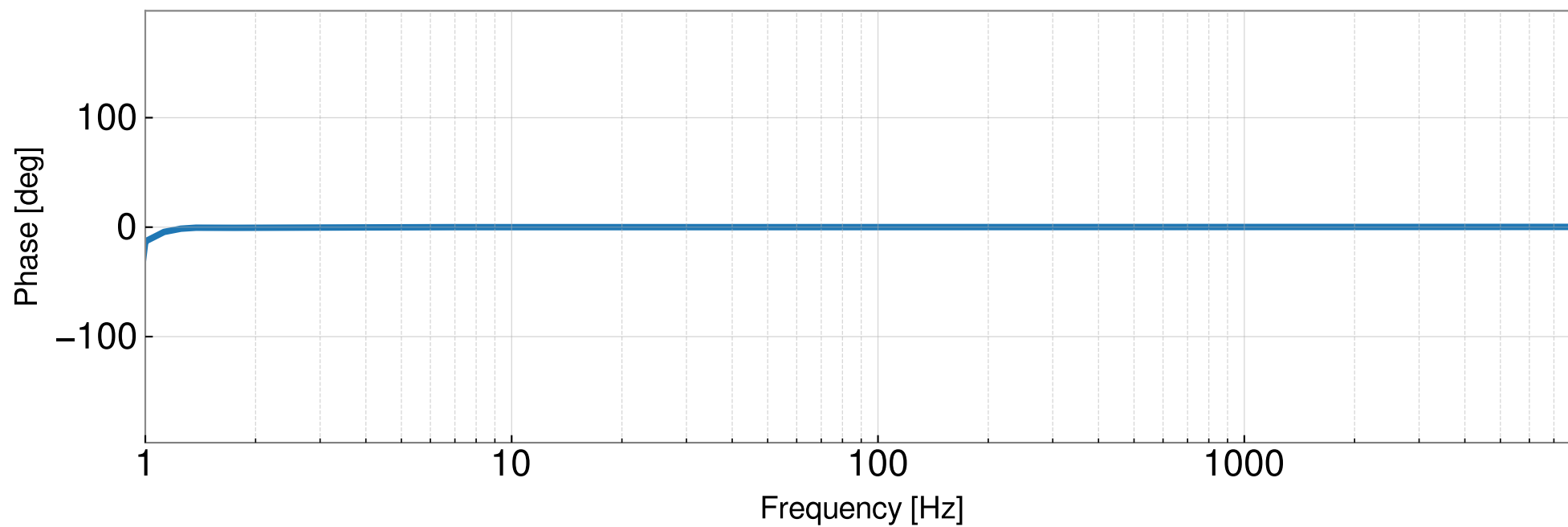
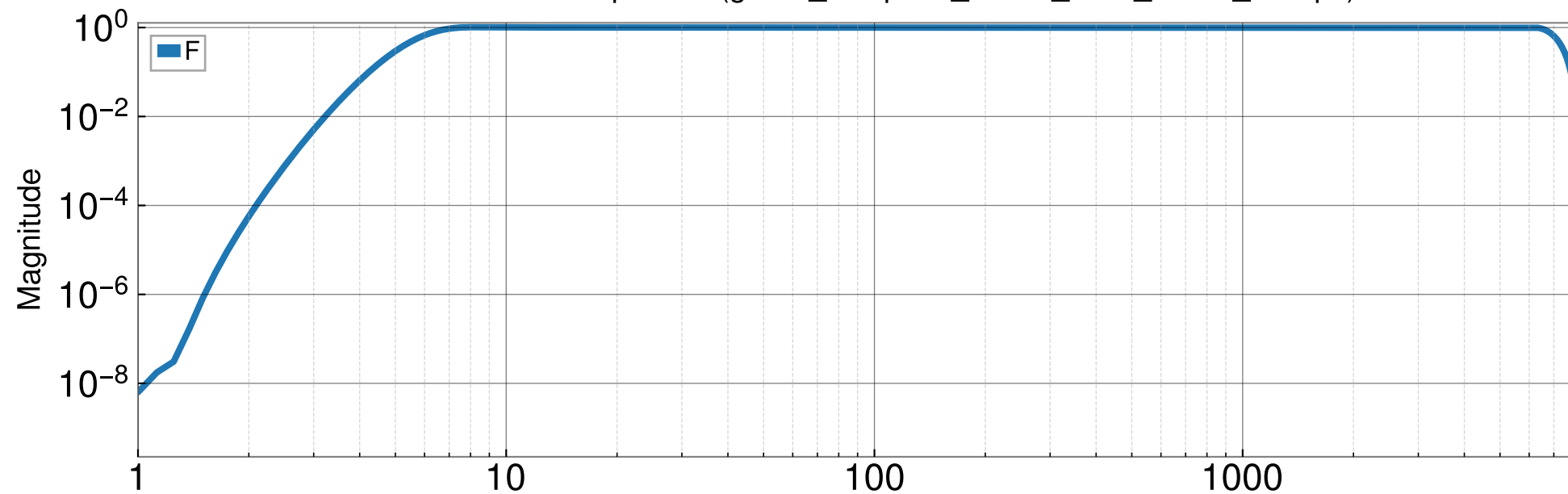
Actuation/L3/EX GPR

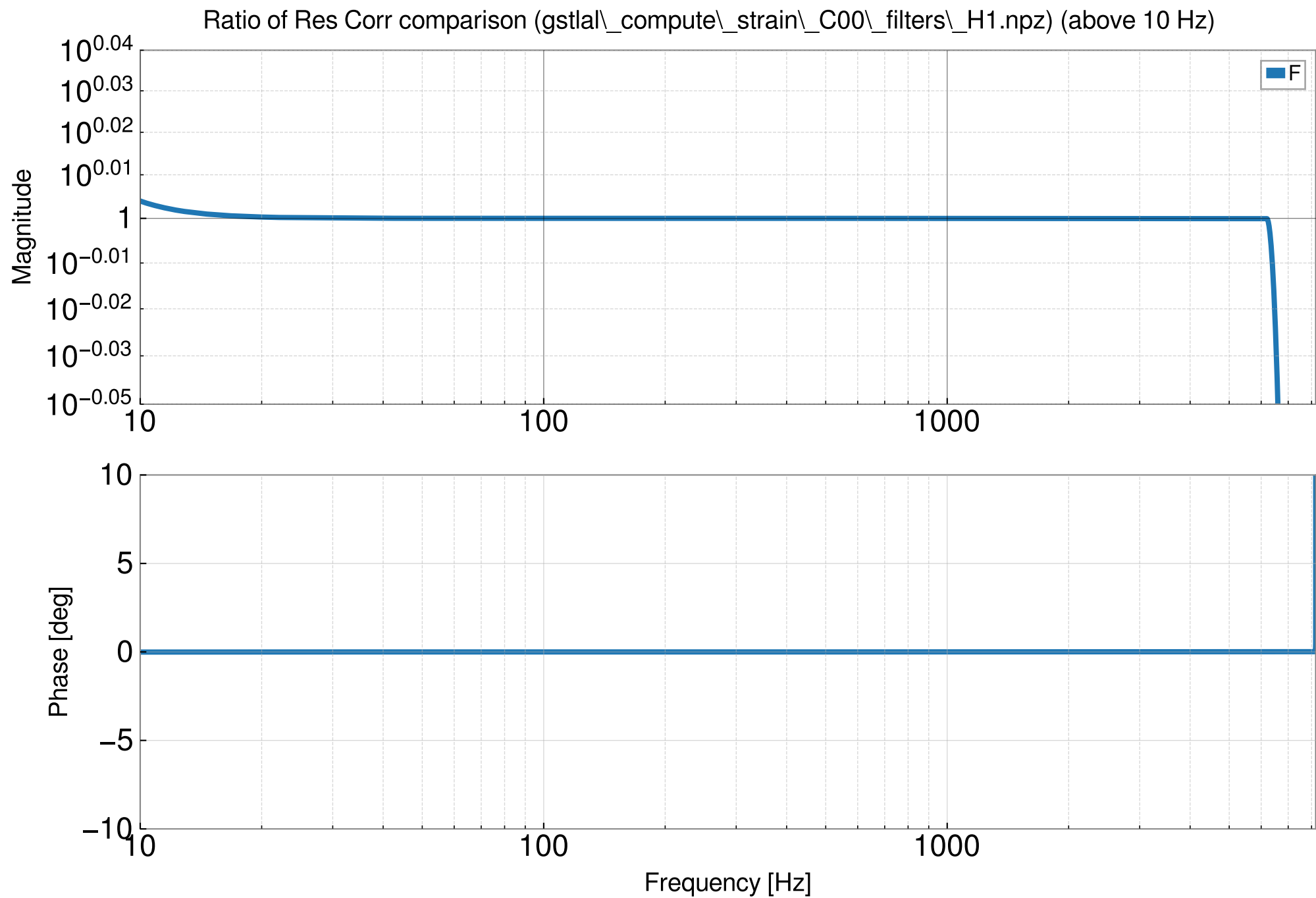


Res Corr comparison (gstlal_compute_strain_C00_filters_H1.npz)



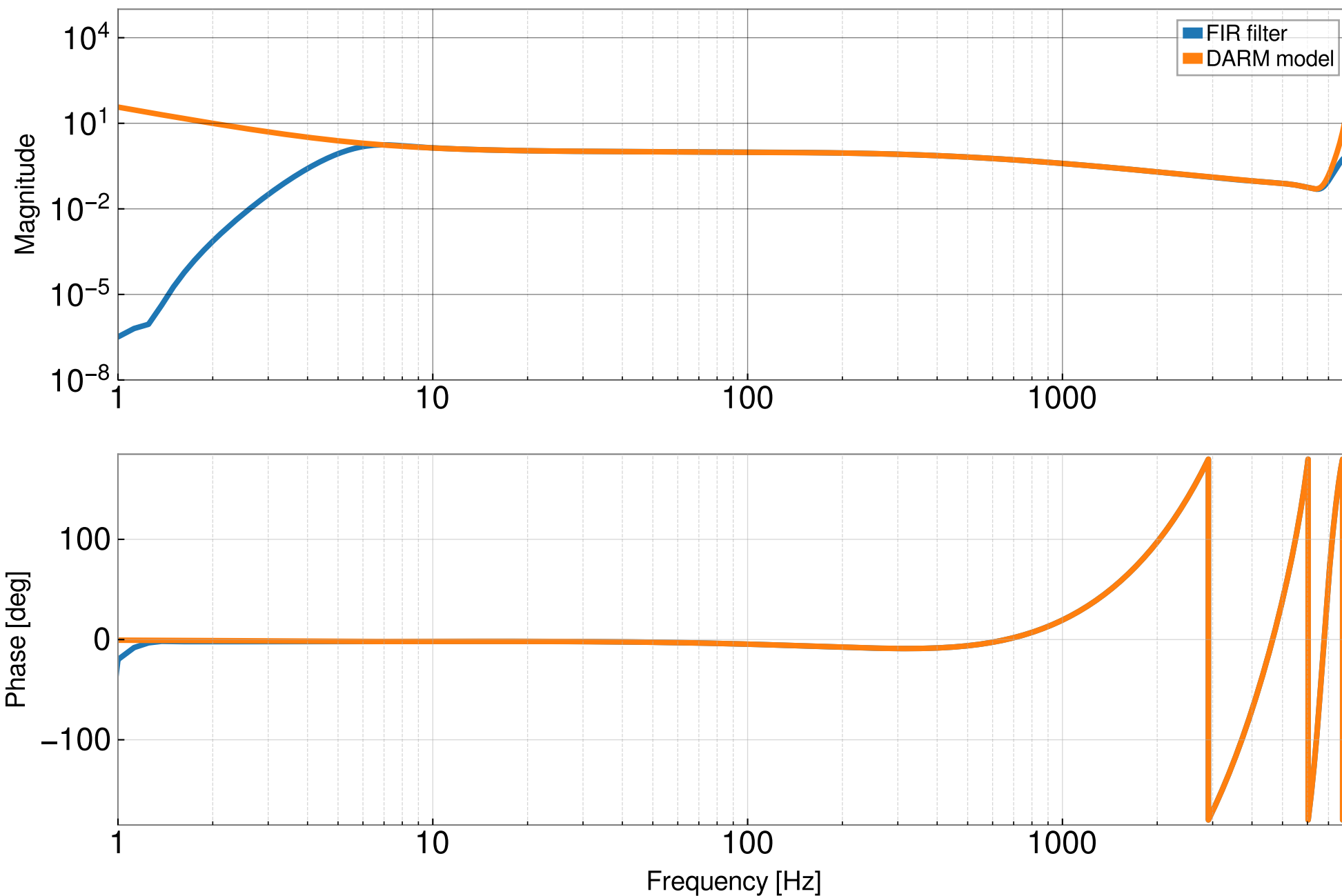
Ratio of Res Corr comparison (gstlal_compute_strain_C00_filters_H1.npz)





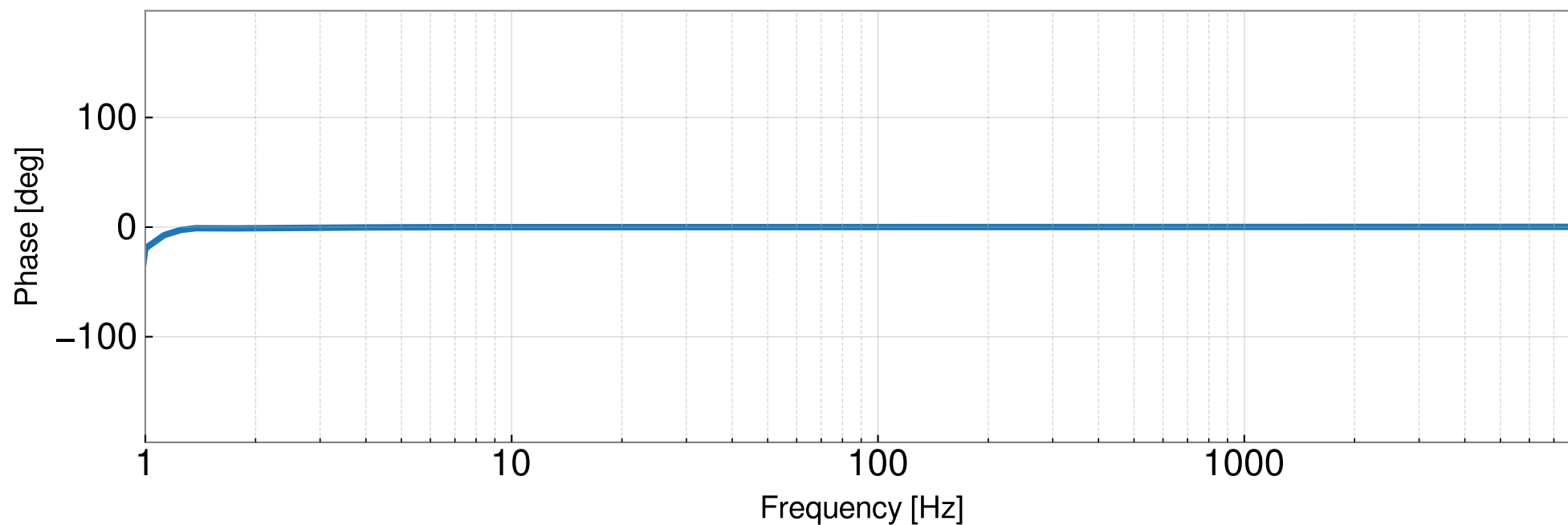
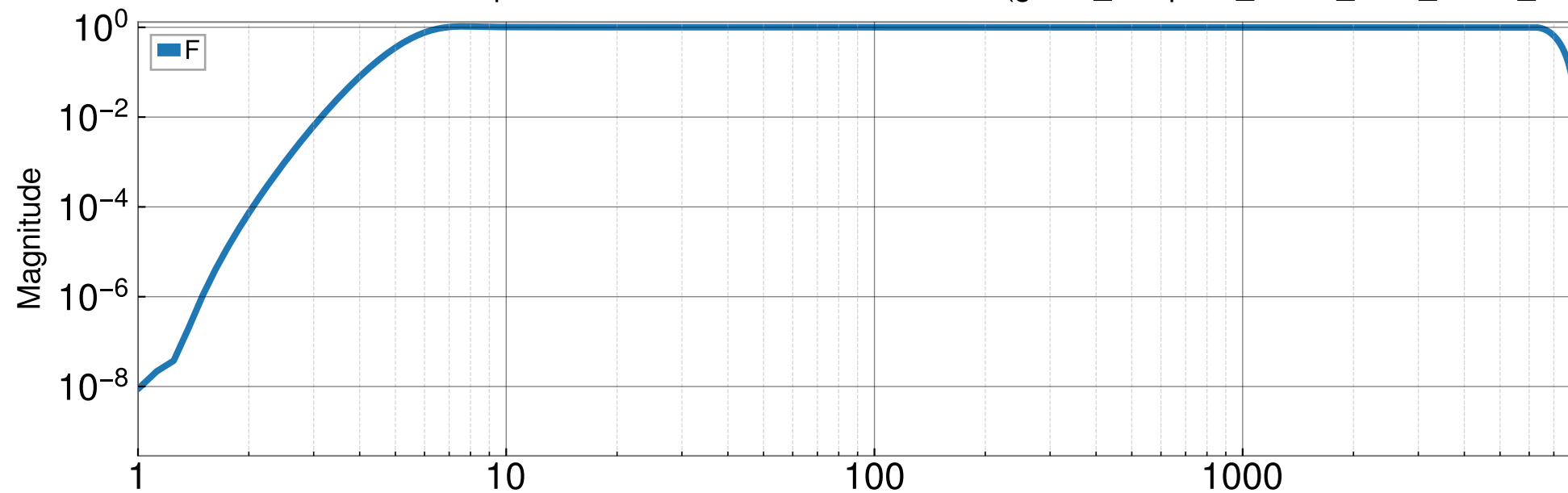
Res Corr No CC Pole comparison

(gstlal_compute_strain_C00_filters_H1.npz)



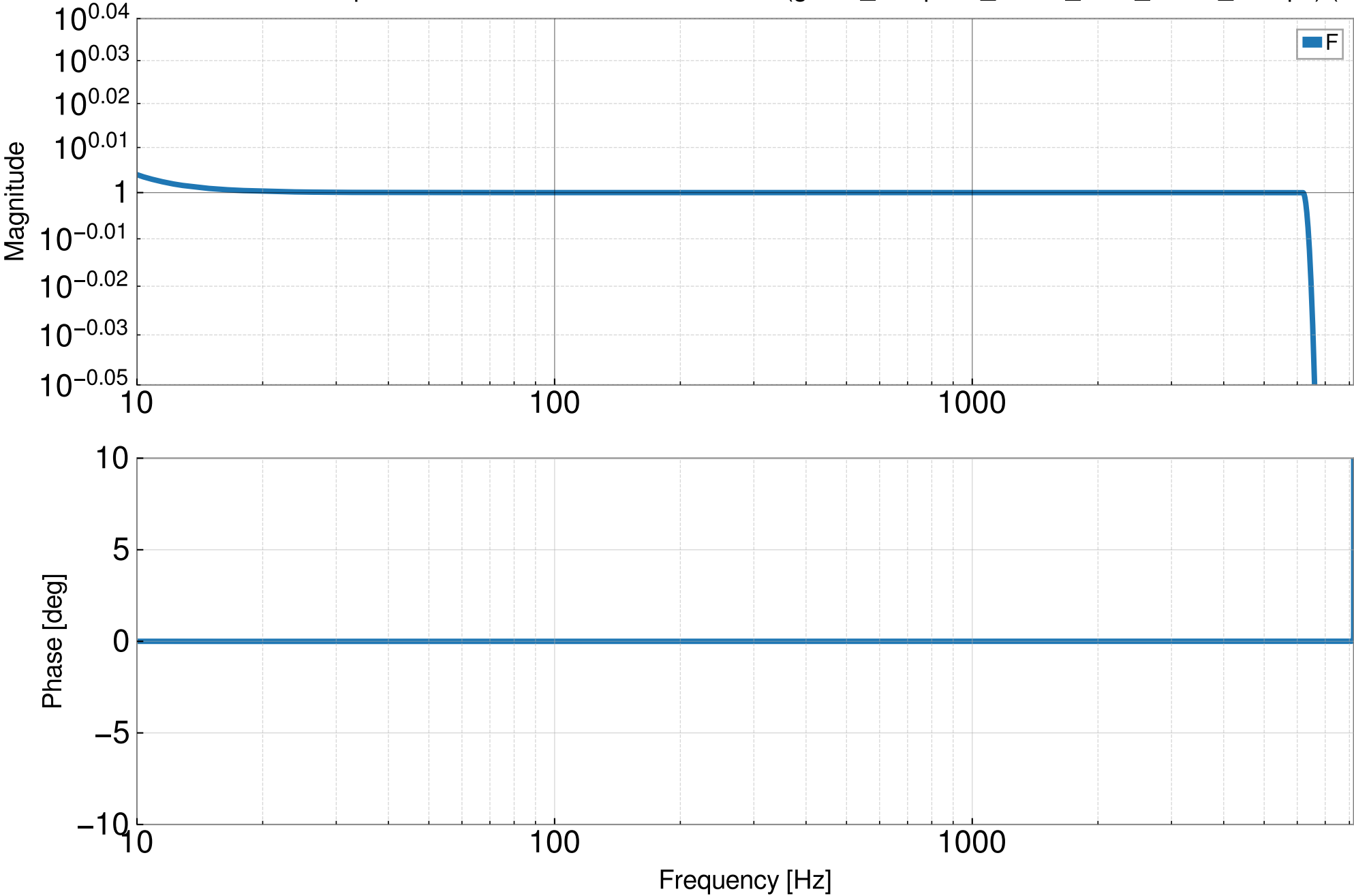
Ratio of Res Corr No CC Pole comparison

(gstla\compute_strain_C00_filters_H1.npz)



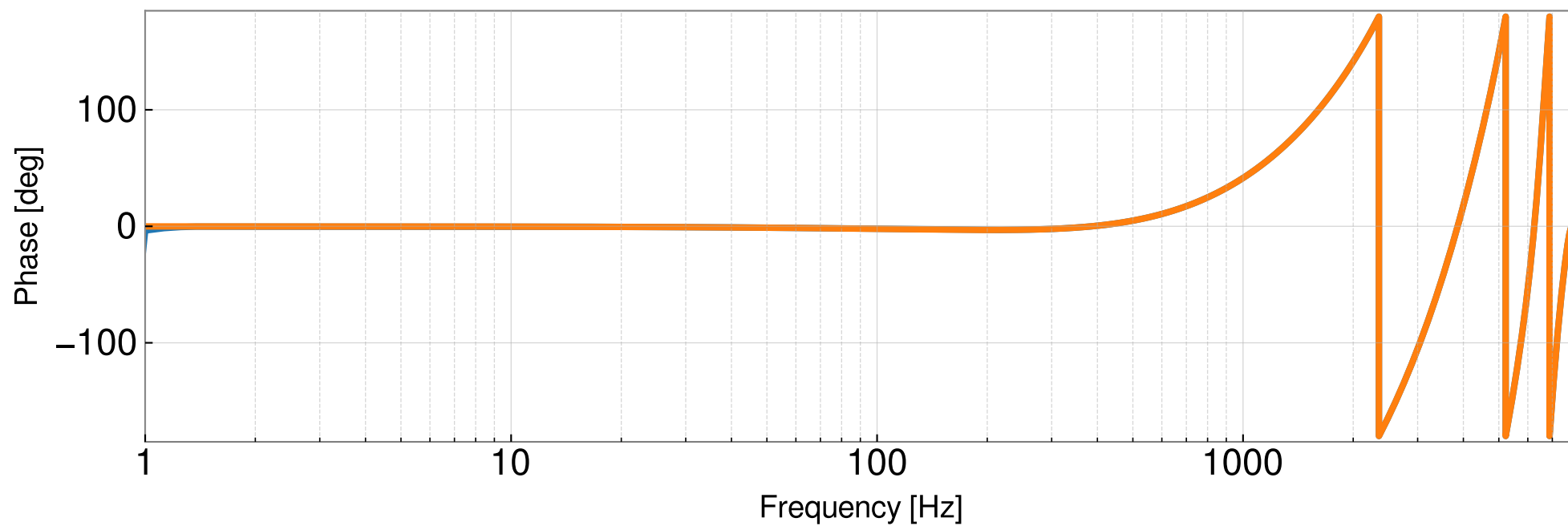
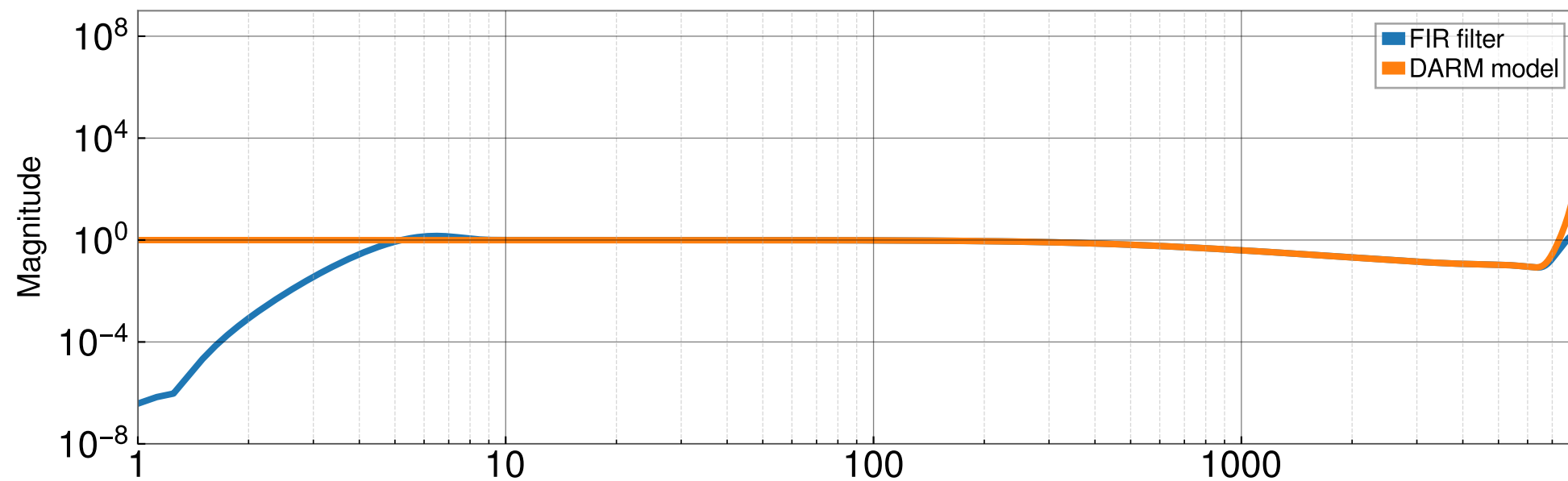
Ratio of Res Corr No CC Pole comparison

(gstlal_compute_strain_C00_filters_H1.npz) (above 10 Hz)



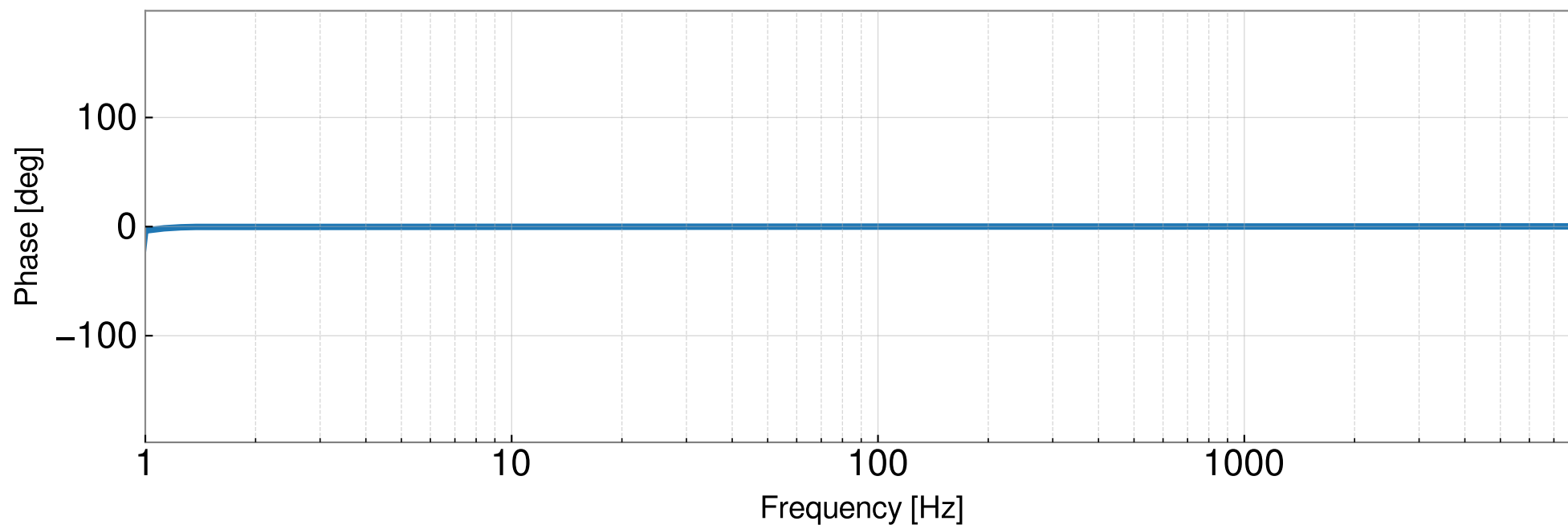
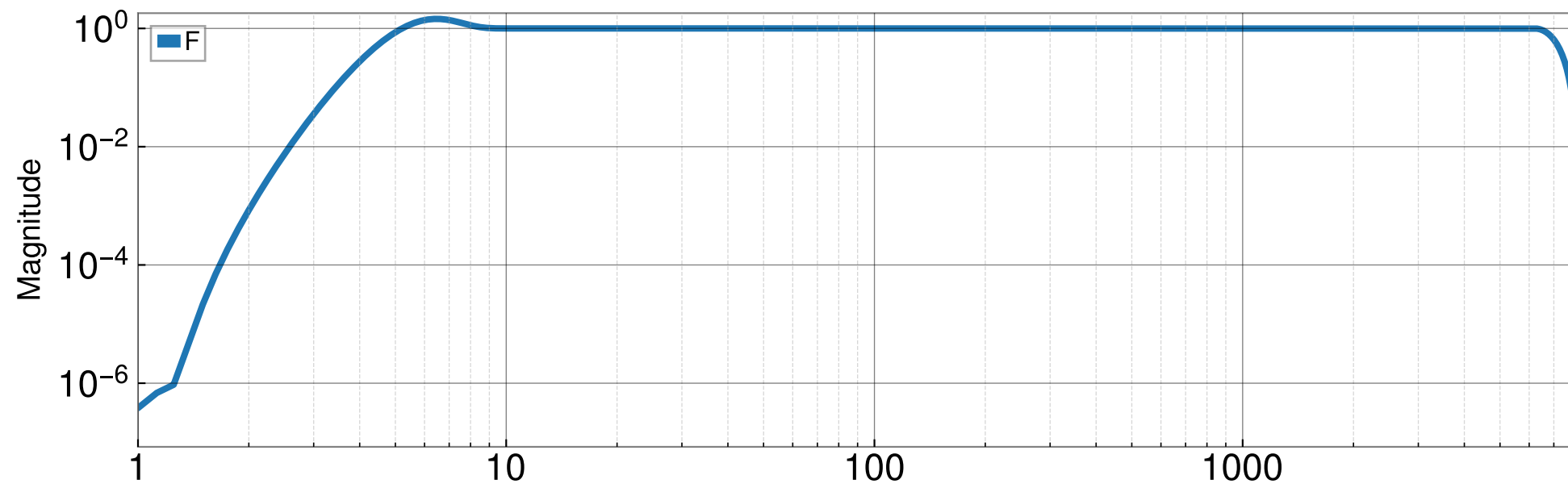
Res Corr No Pole

comparison (gstlal_compute_strain_C00_filters_H1.npz)

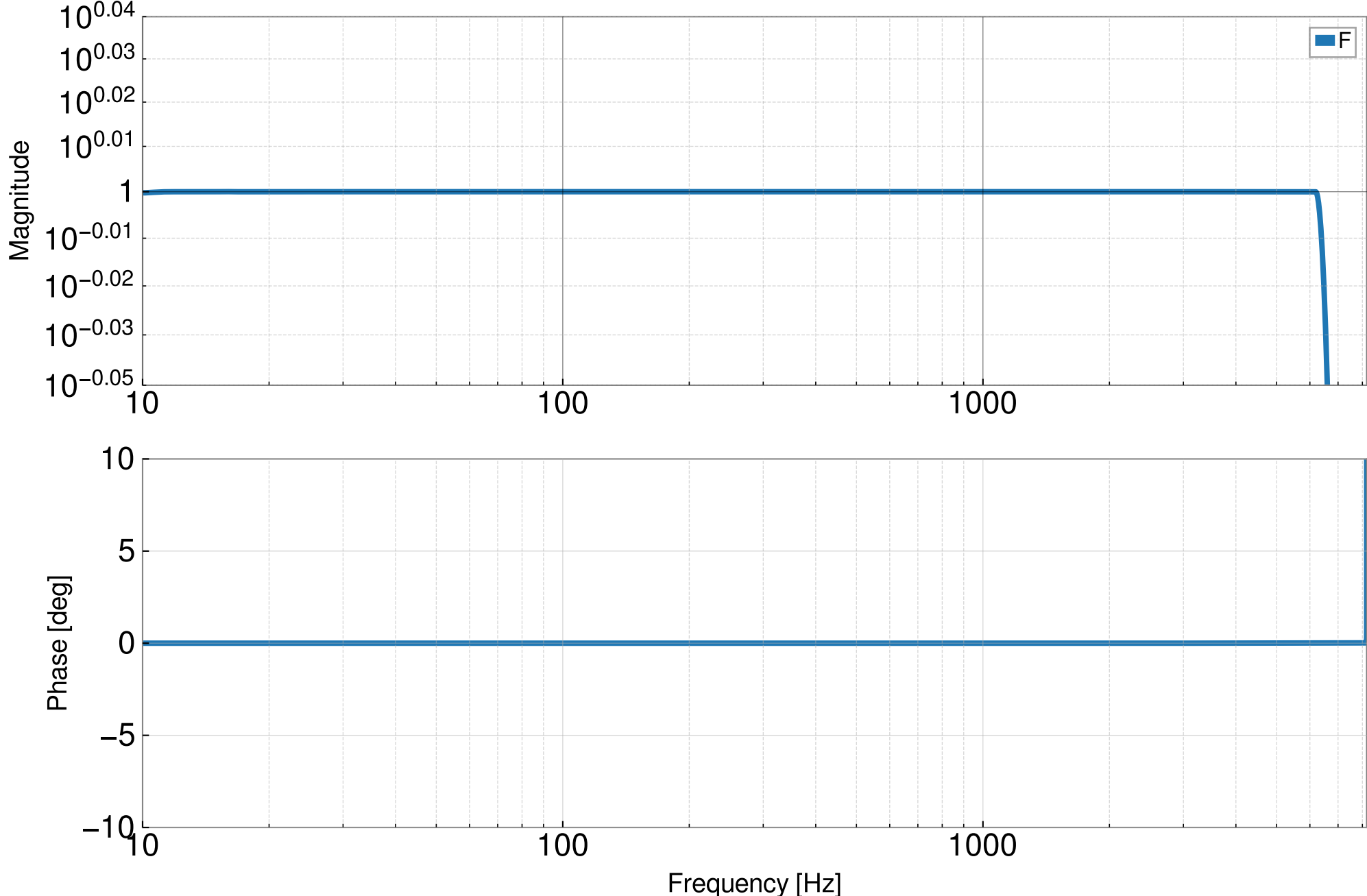


Ratio of Res Corr No Pole

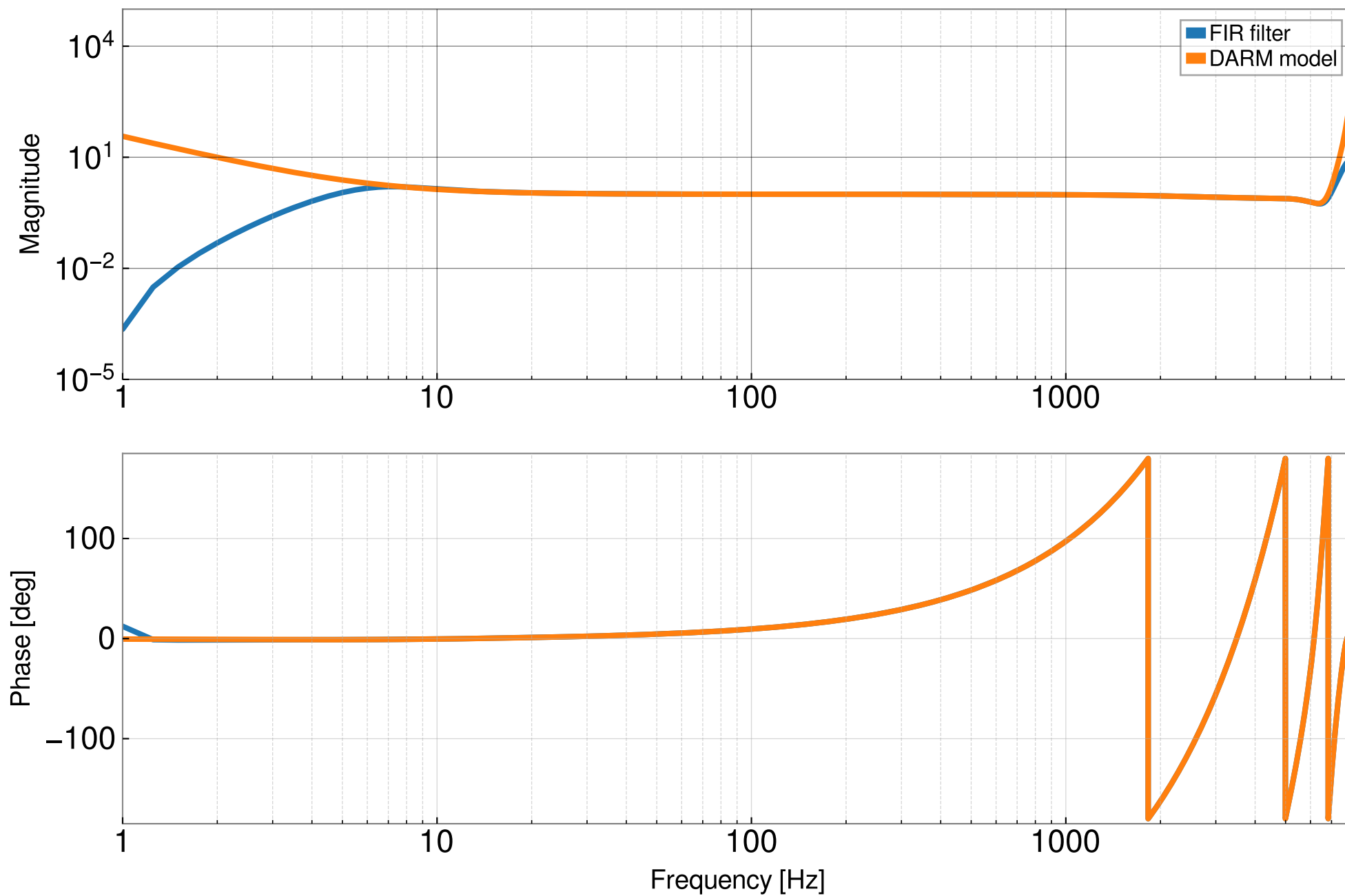
comparison (gstlal_compute_strain_C00_filters_H1.npz)



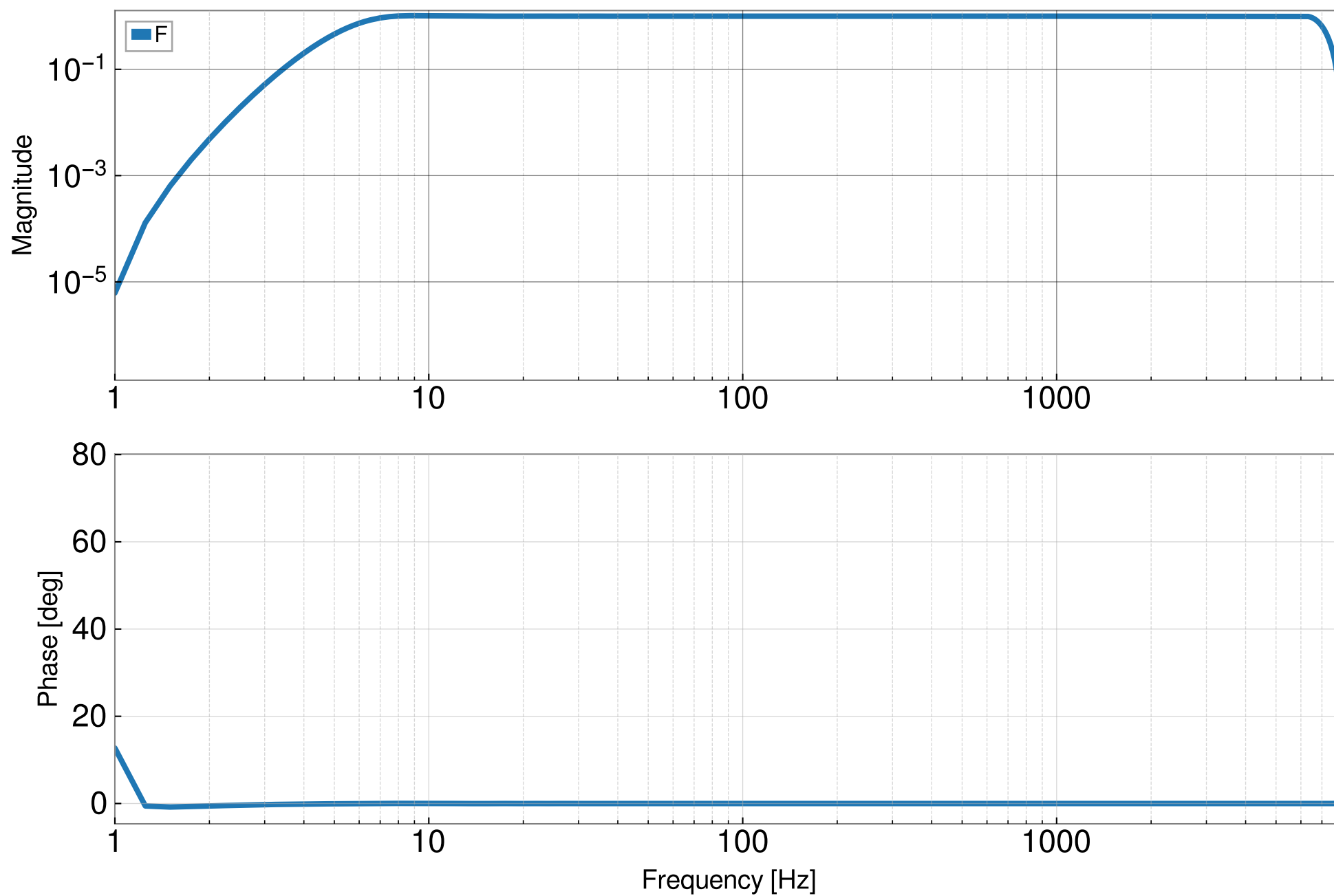
Ratio of Res Corr No Pole comparison (gstlal_compute_strain_C00_filters_H1.npz) (above 10 Hz)

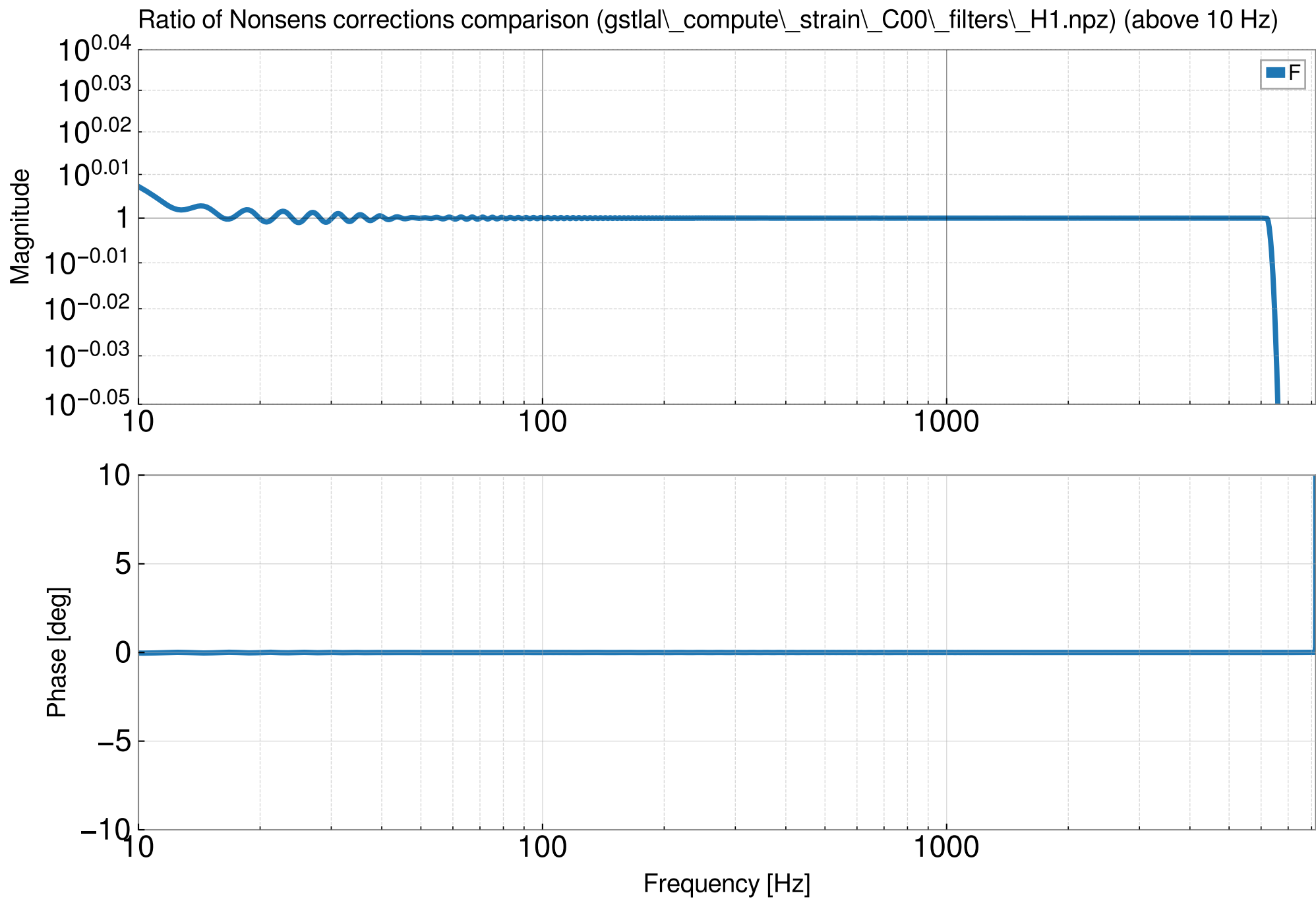


Nonsens corrections comparison (gstlal_compute_strain_C00_filters_H1.npz)

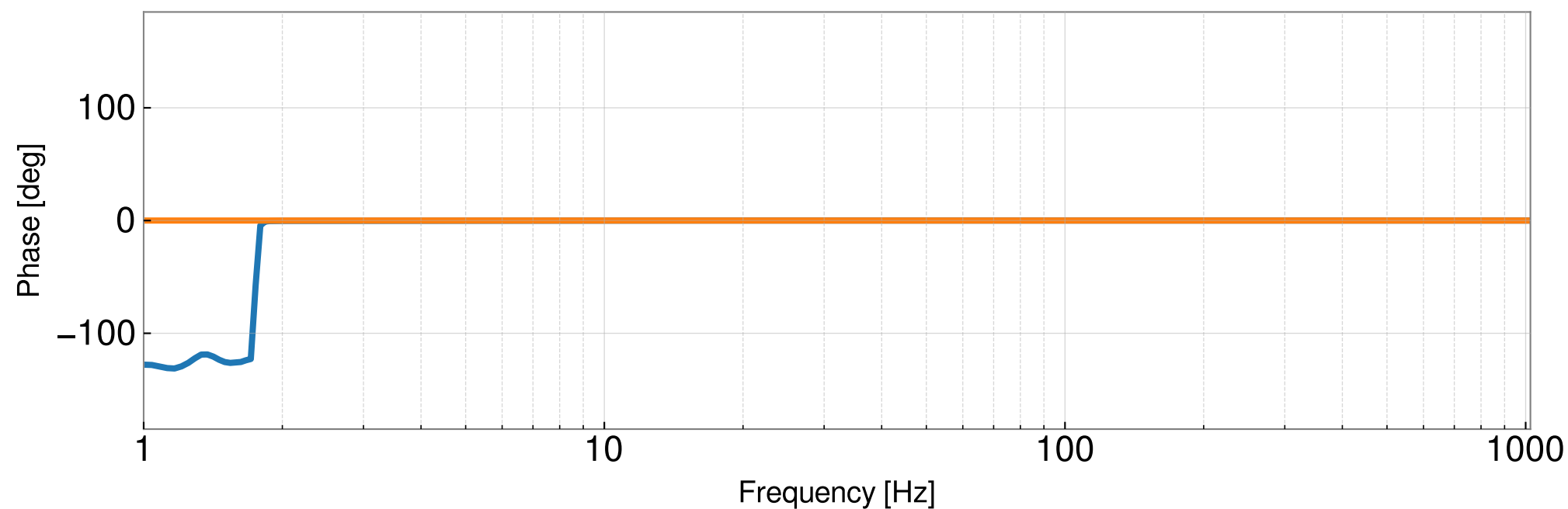
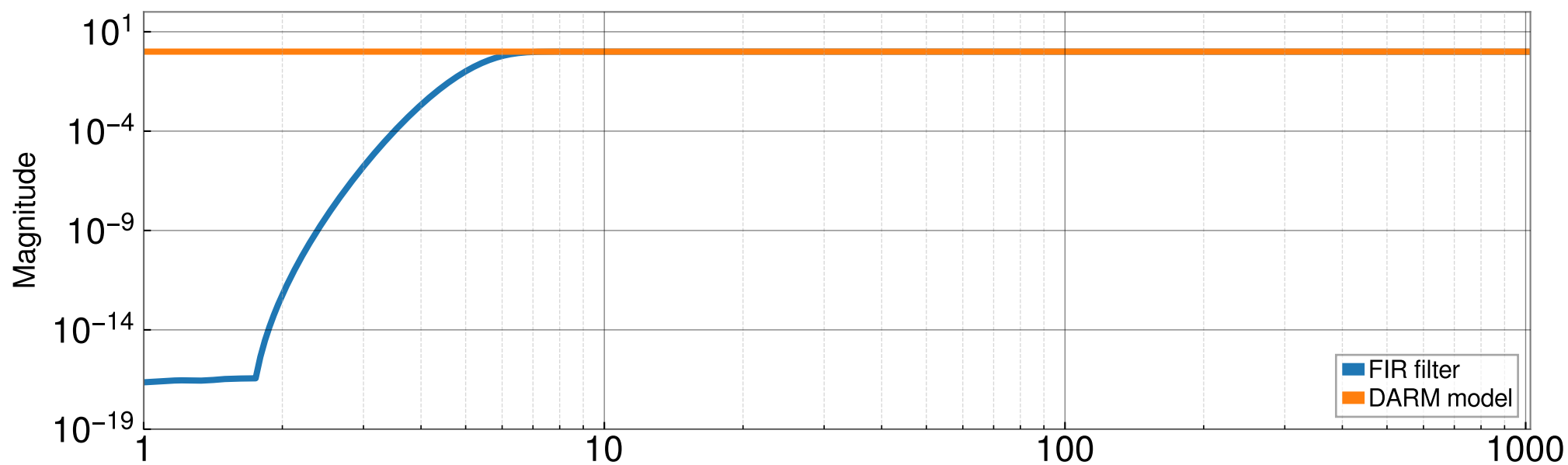


Ratio of Nonsens corrections comparison (gstlal_compute_strain_C00_filters_H1.npz)

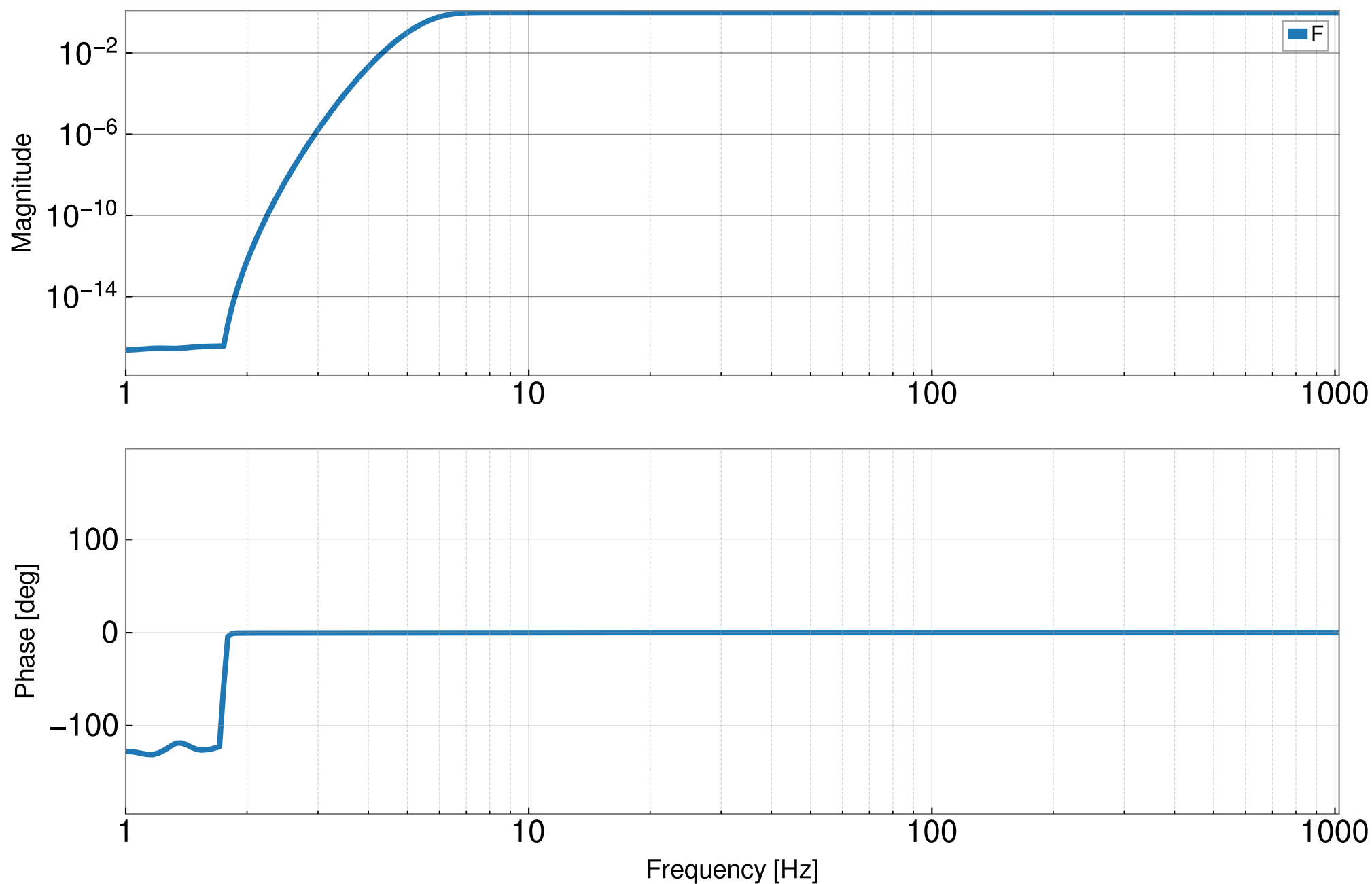


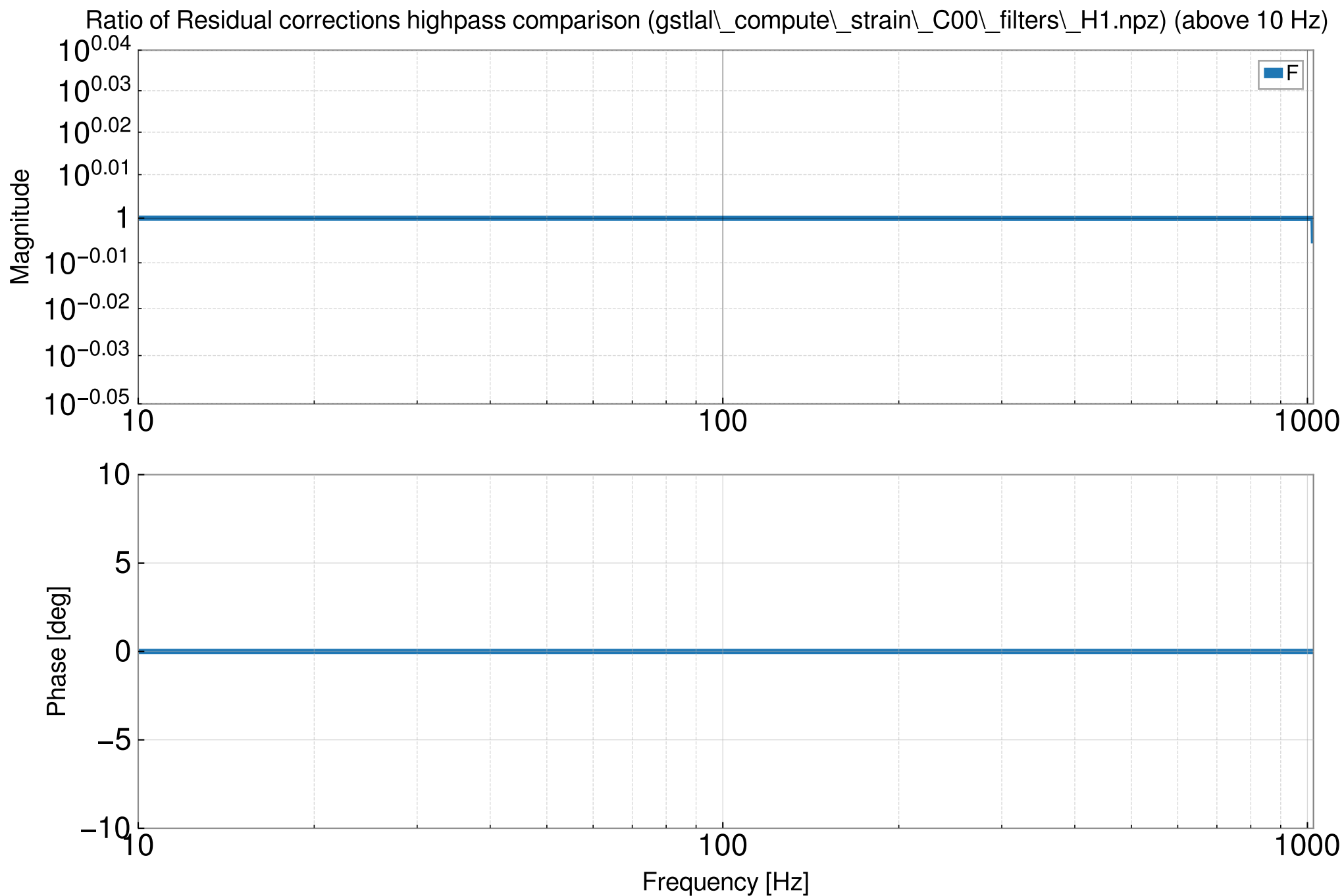


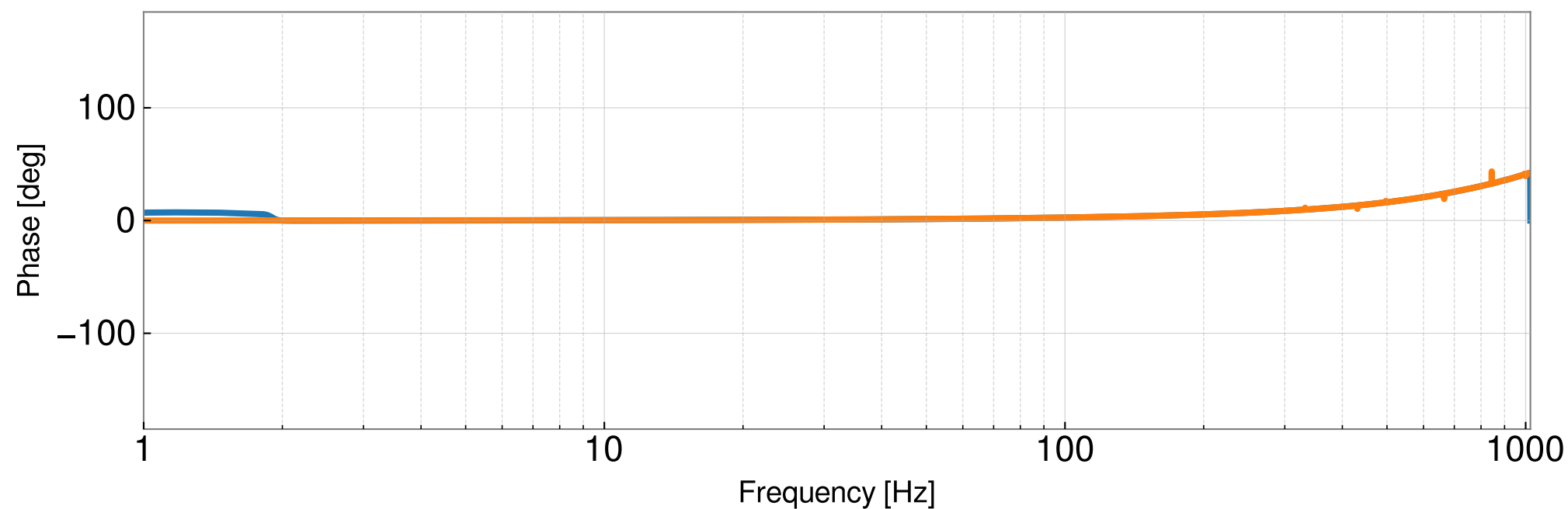
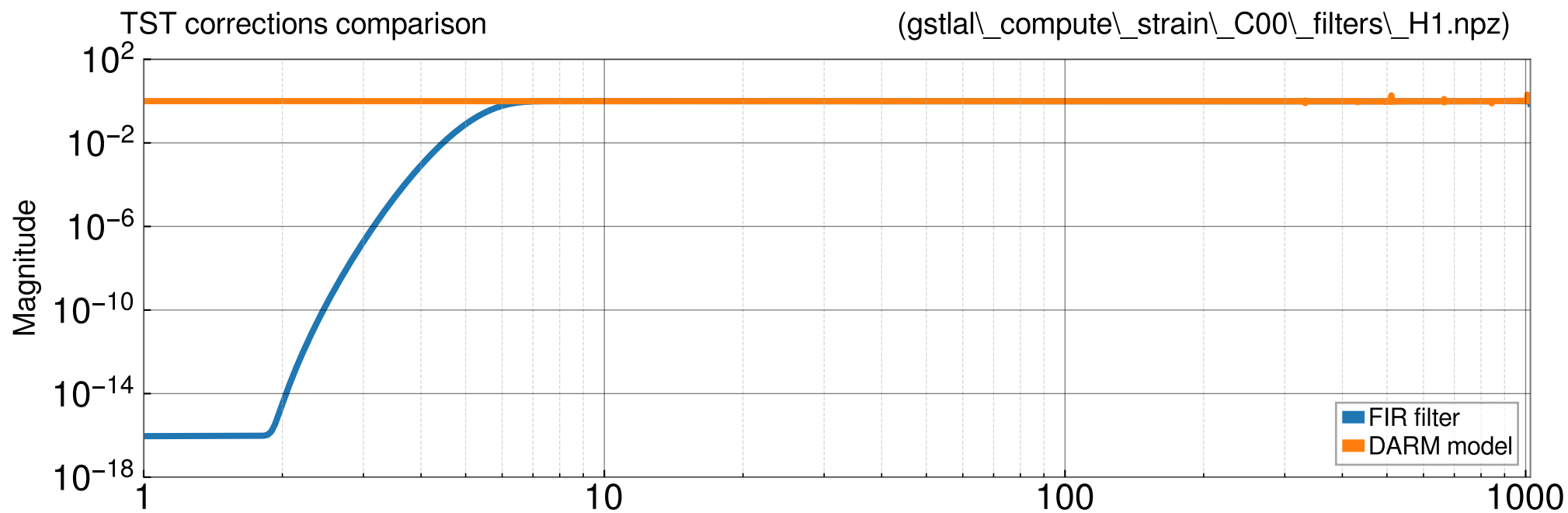
Residual corrections highpass comparison (gstlal_compute_strain_C00_filters_H1.npz)



Ratio of Residual corrections highpass comparison (gstlal_compute_strain_C00_filters_H1.npz)

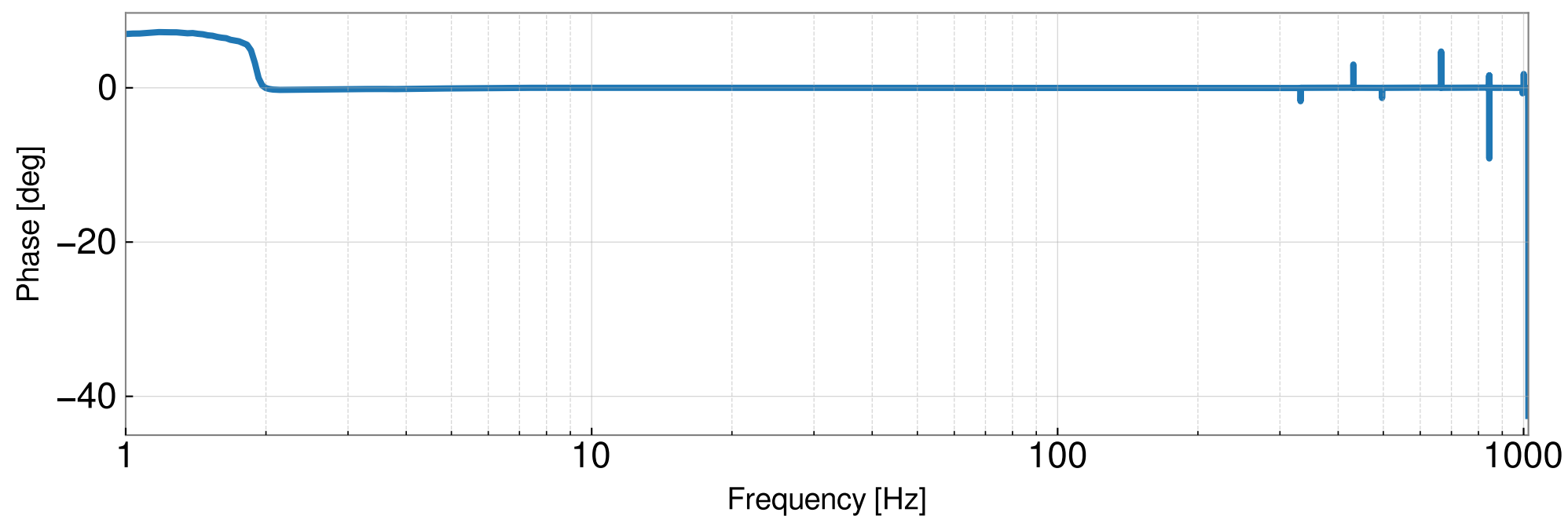
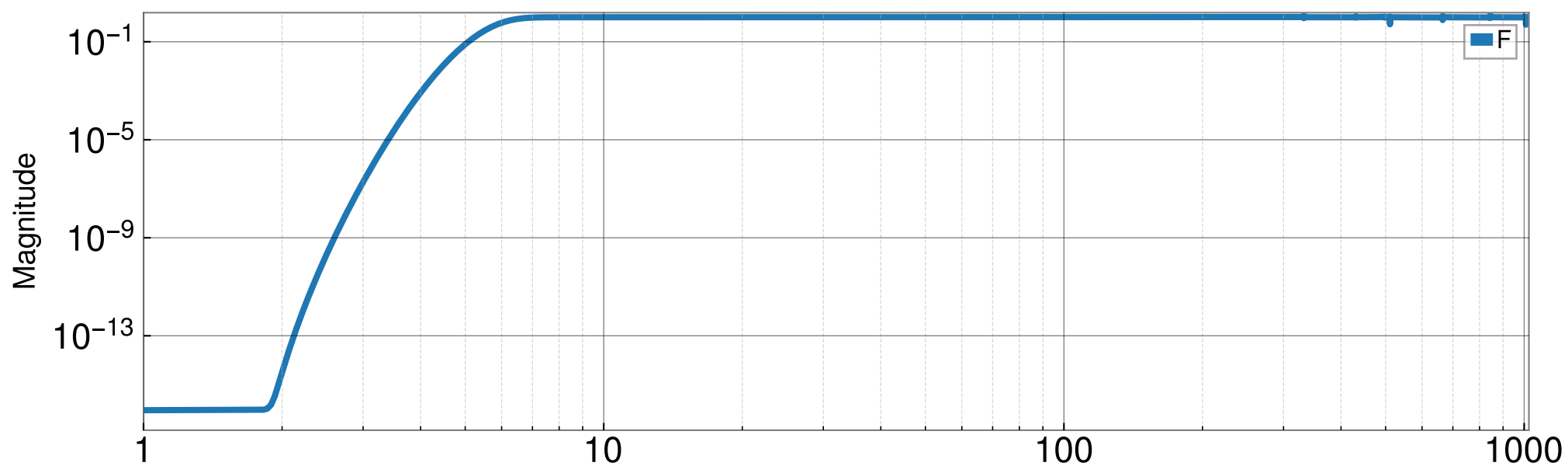






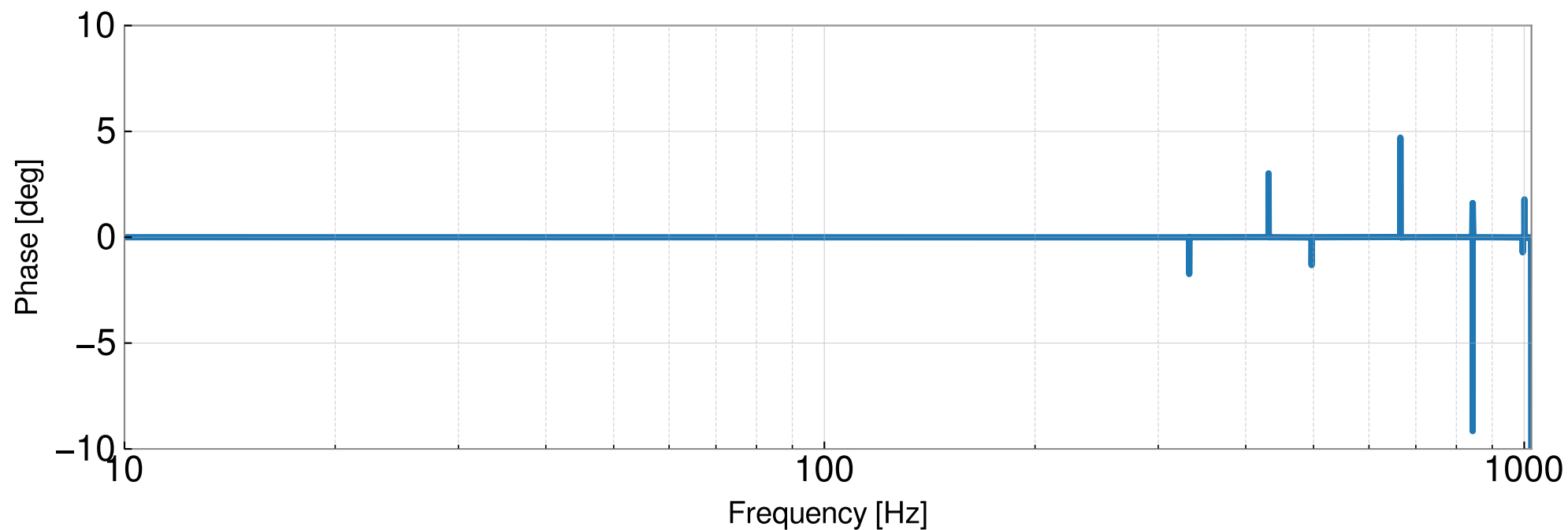
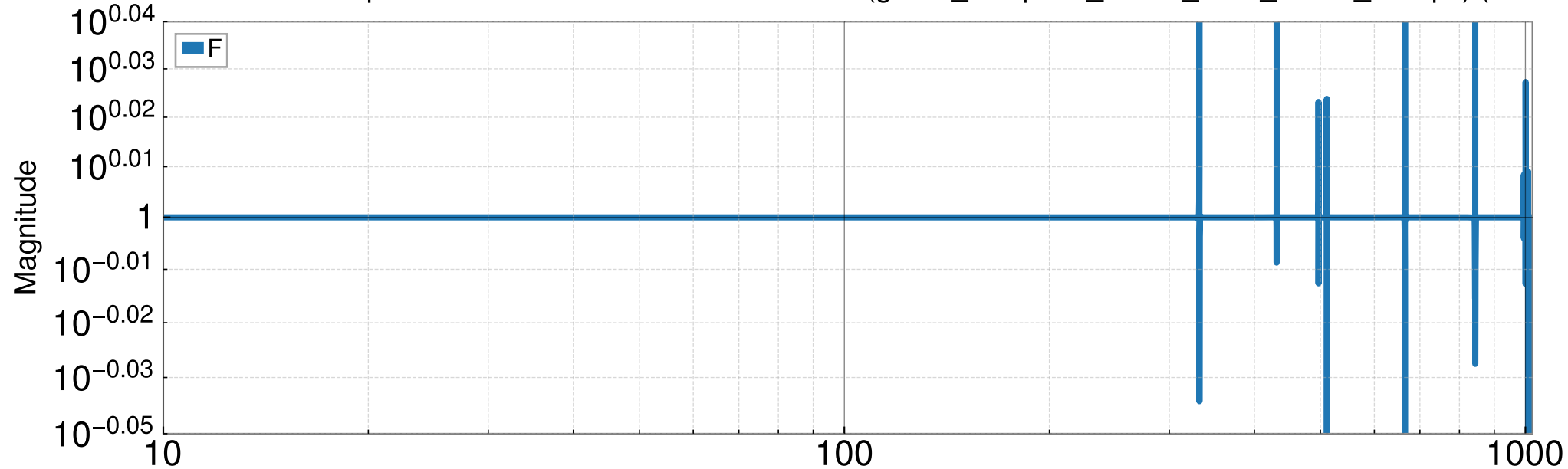
Ratio of TST corrections comparison

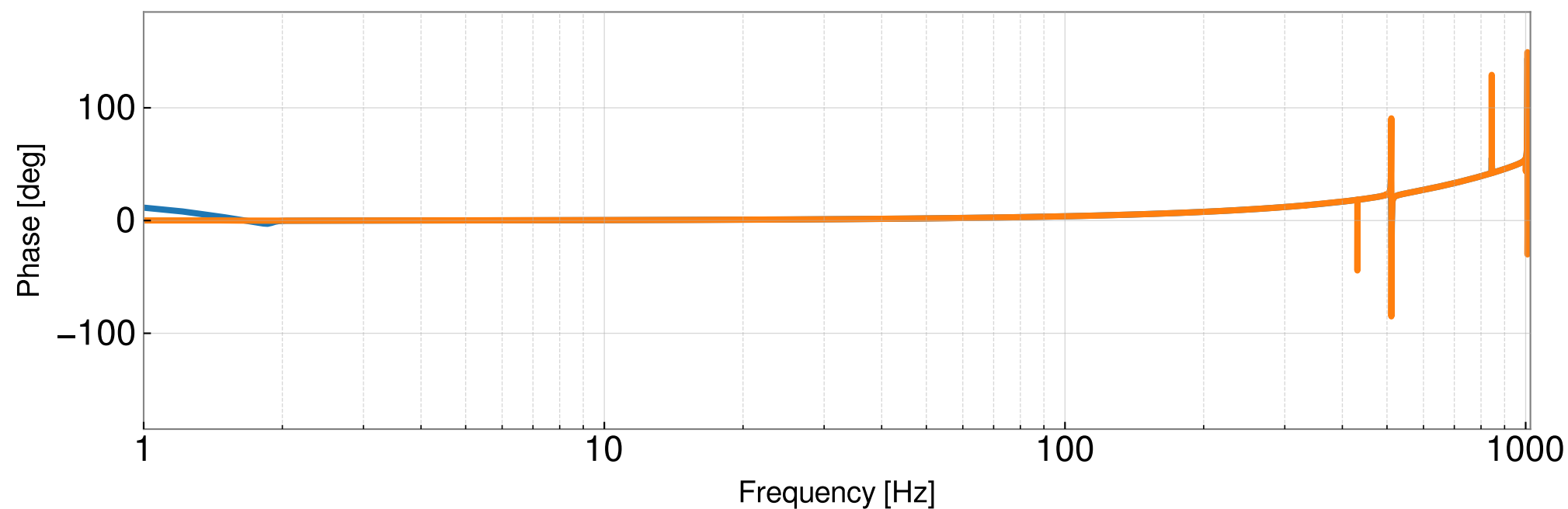
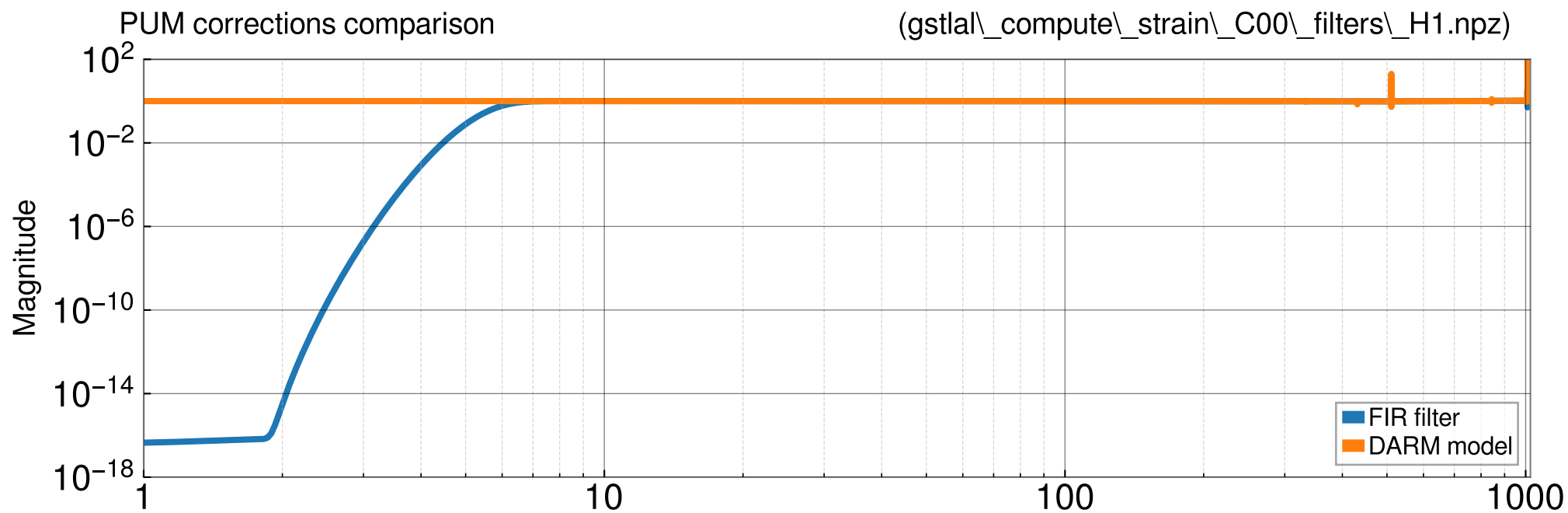
(gstlal_compute_strain_C00_filters_H1.npz)



Ratio of TST corrections comparison

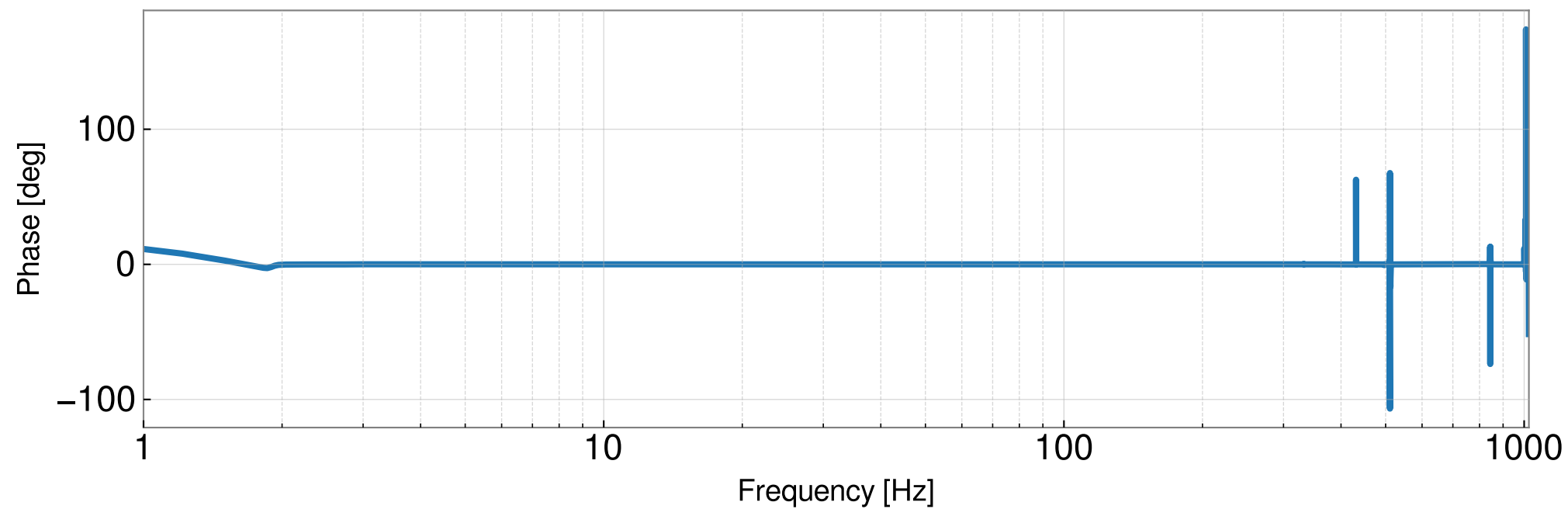
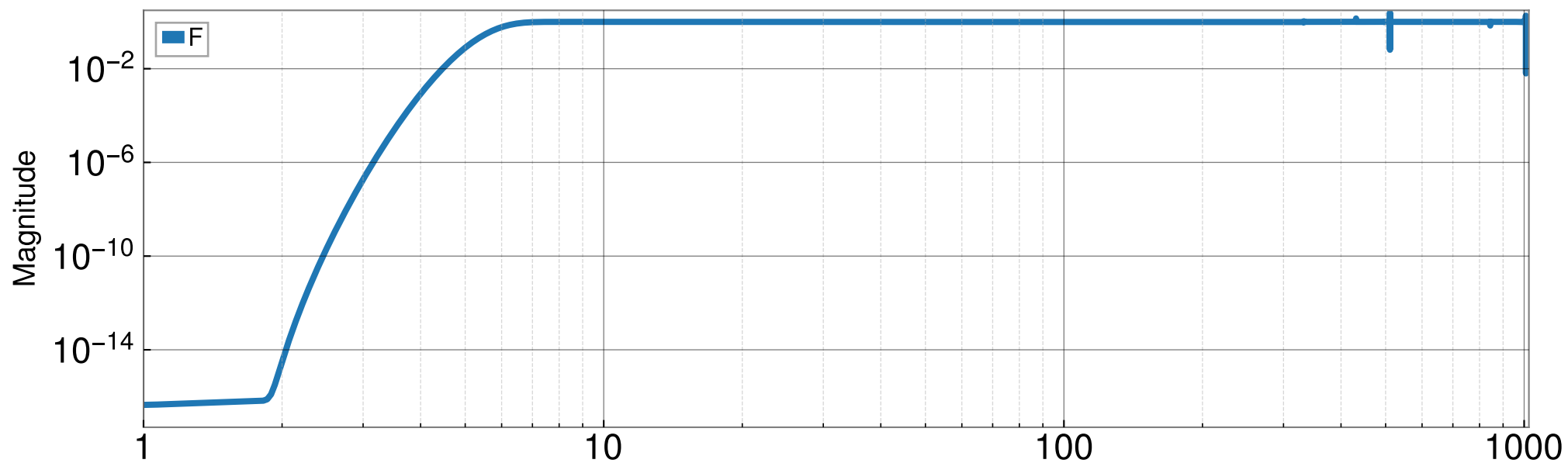
(gstlal_compute_strain_C00_filters_H1.npz) (above 10 Hz)





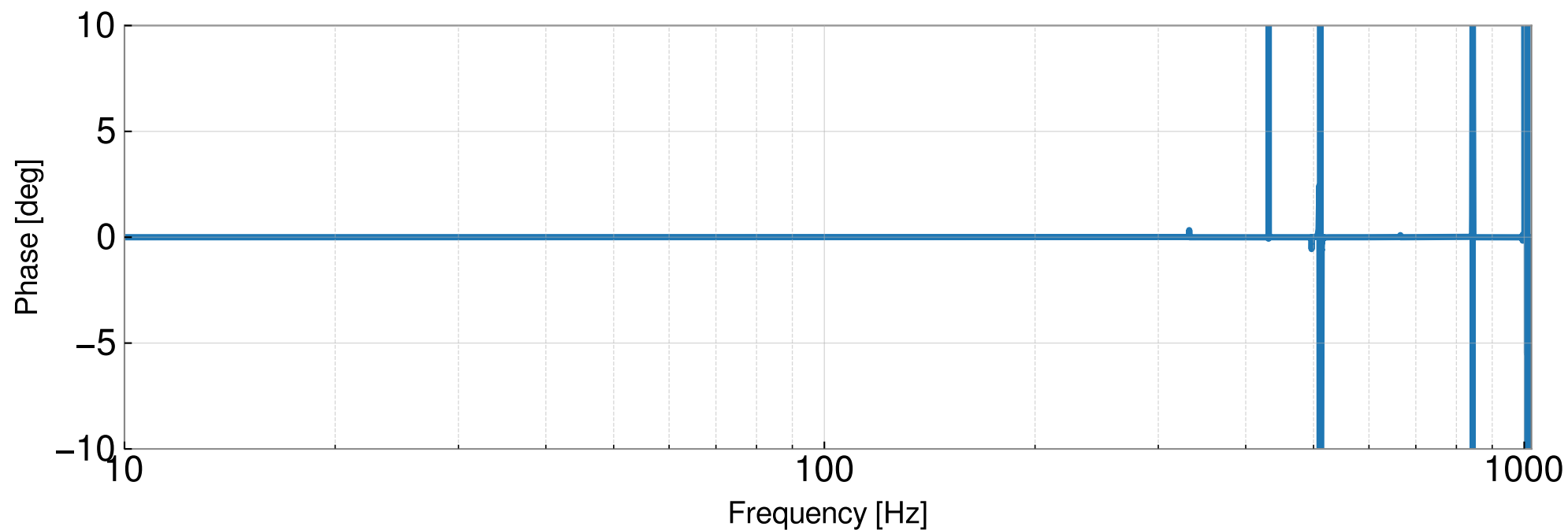
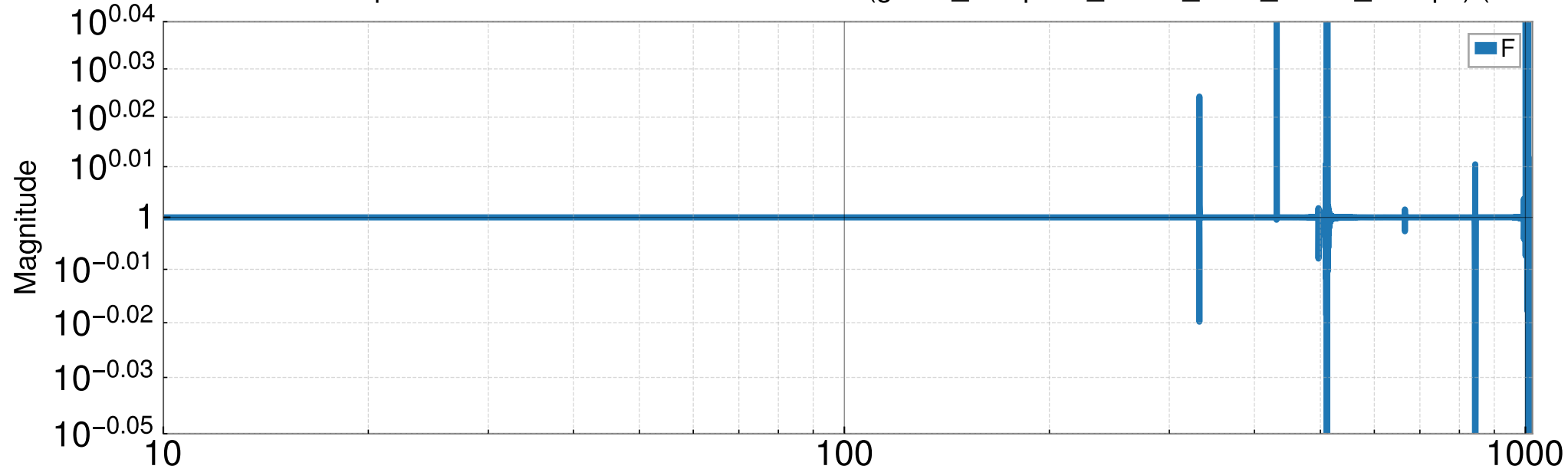
Ratio of PUM corrections comparison

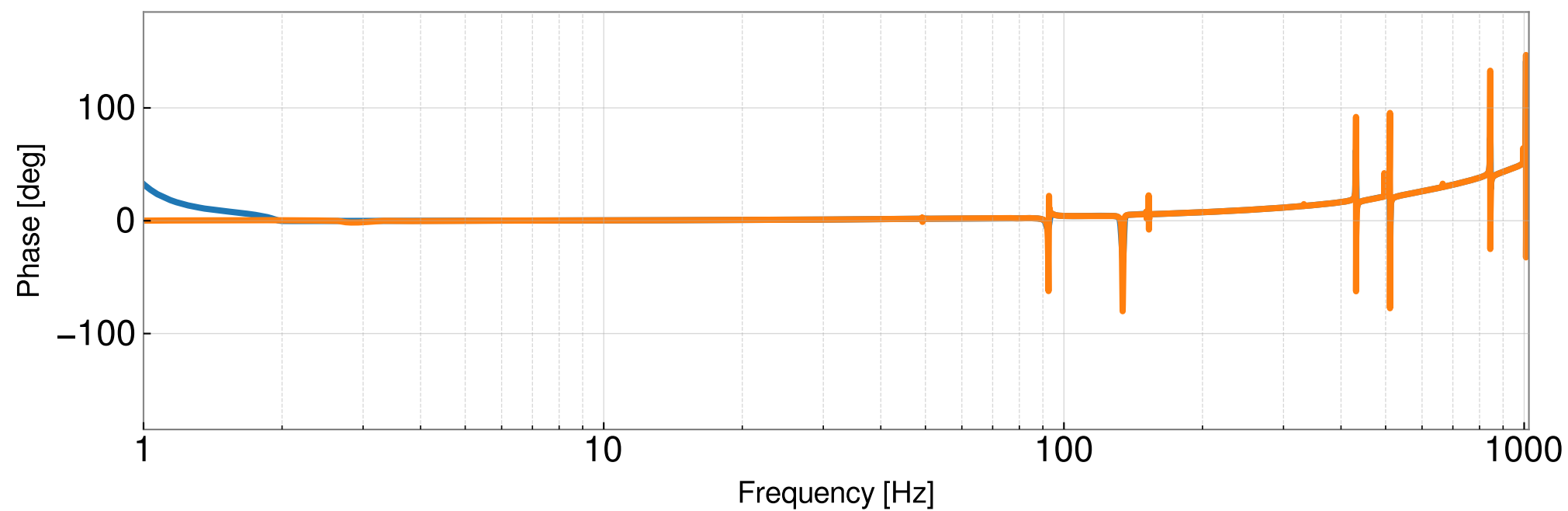
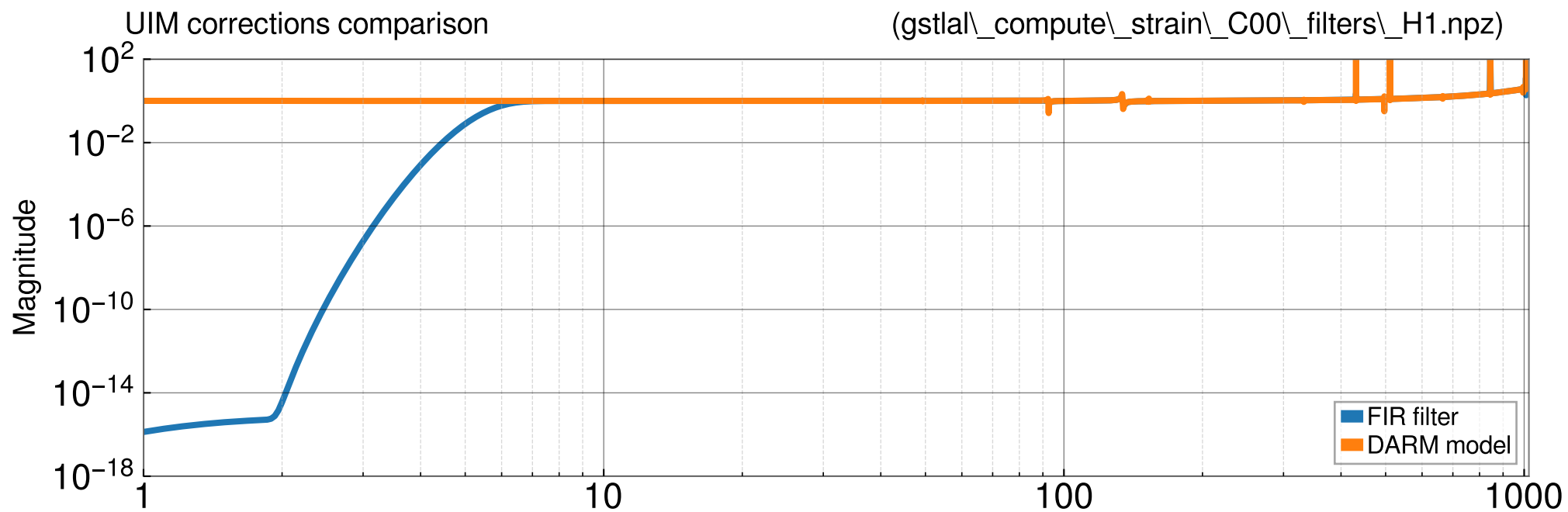
(gstlal_compute_strain_C00_filters_H1.npz)



Ratio of PUM corrections comparison

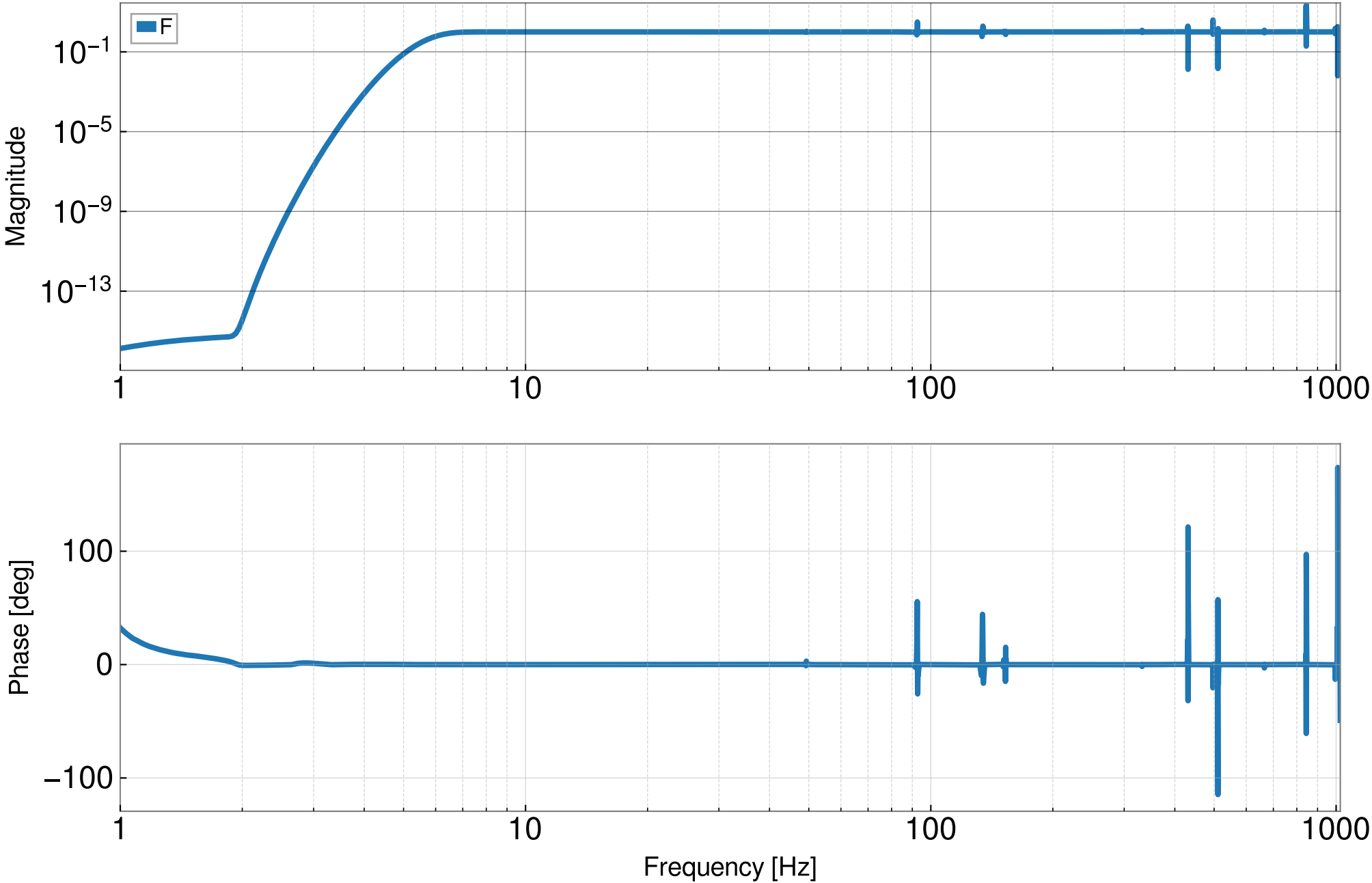
(gstlal_compute_strain_C00_filters_H1.npz) (above 10 Hz)





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)

