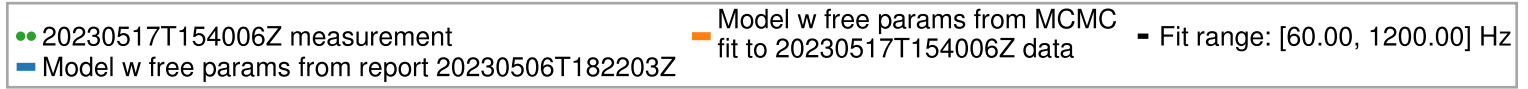
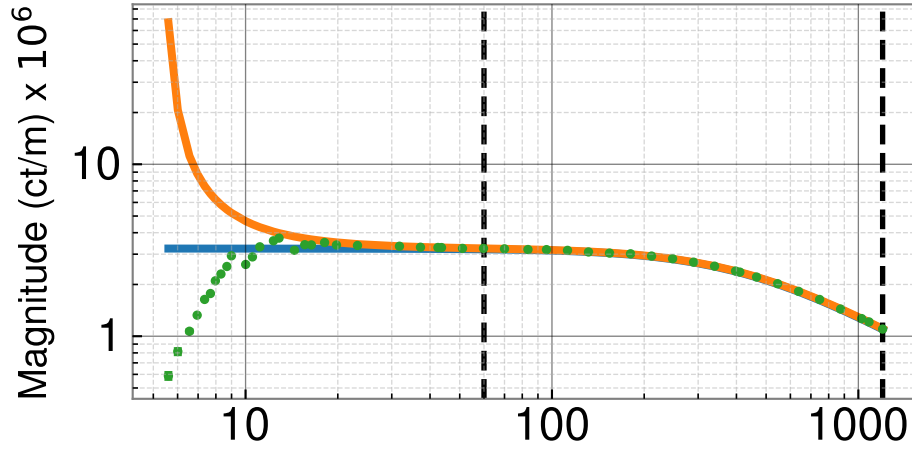


H1 sensing model MCMC summary

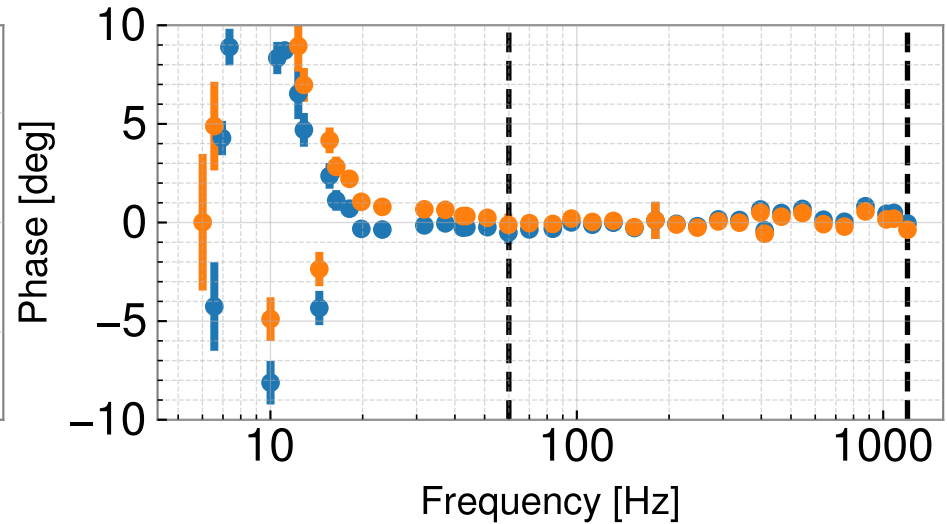
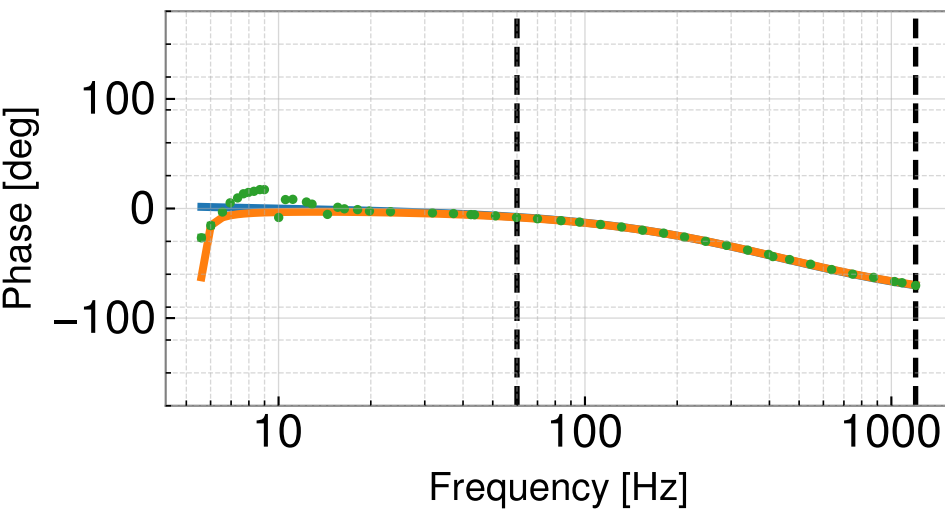
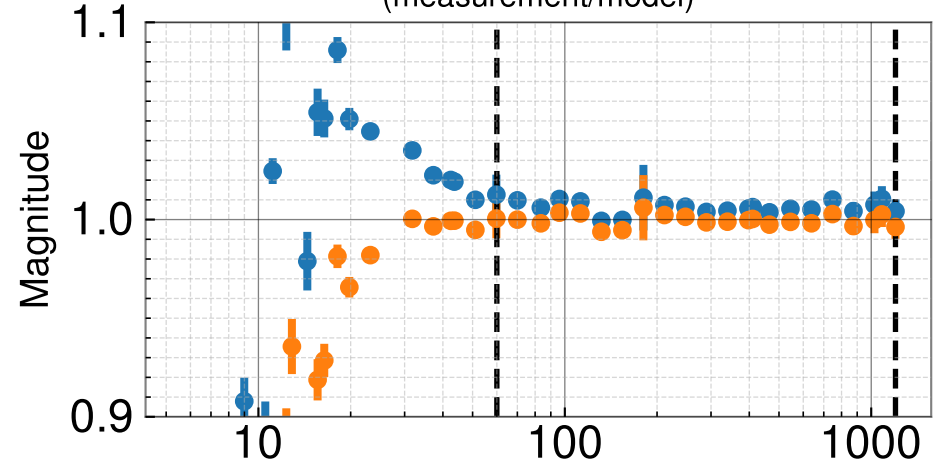
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230517T163625Z/pydarm_H1.ini



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

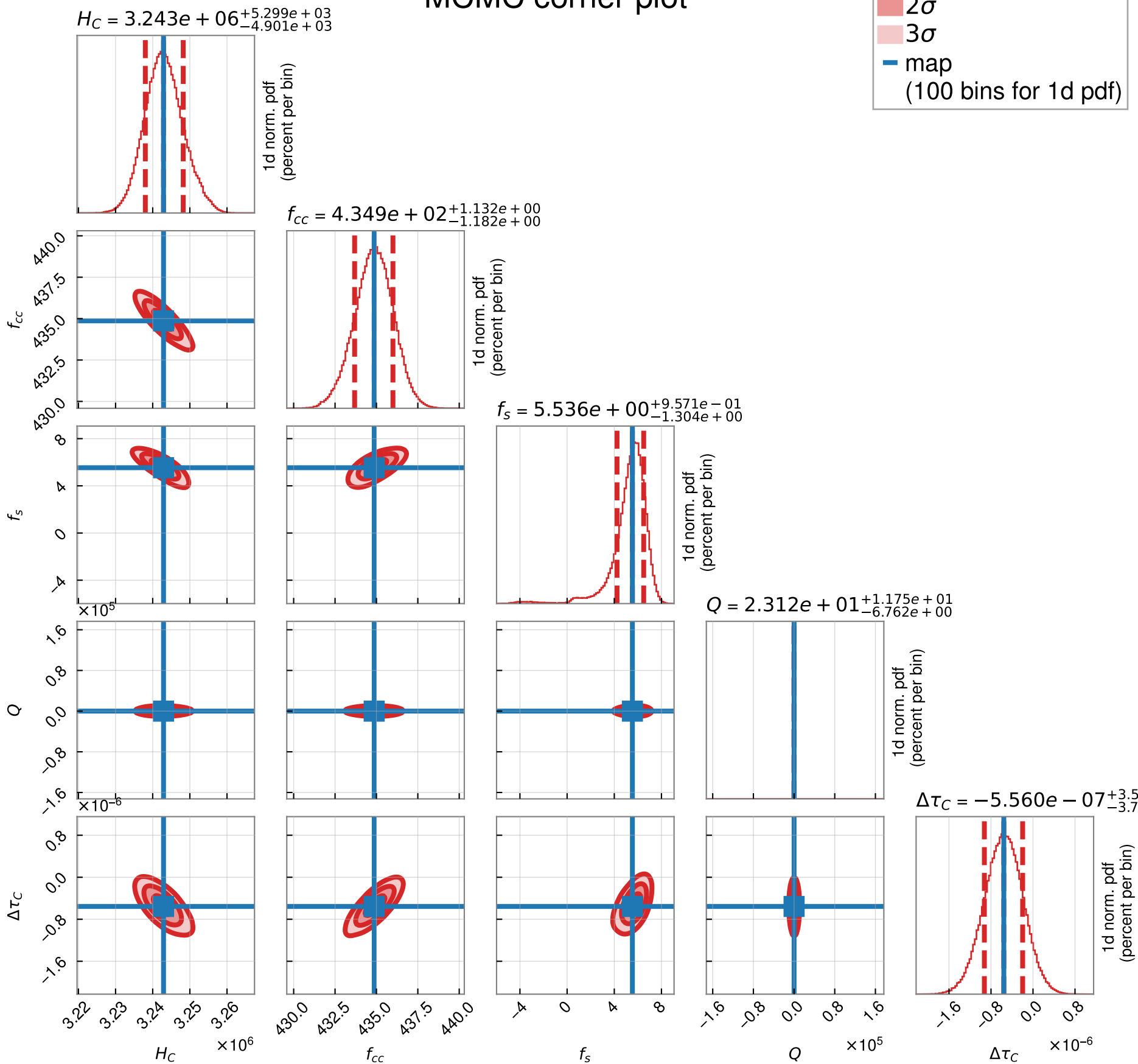
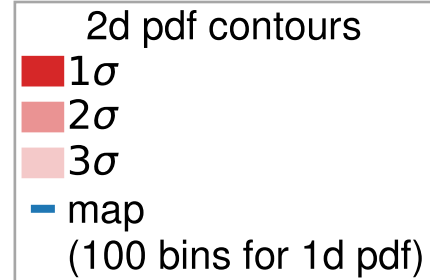


Optical response residuals
(measurement/model)



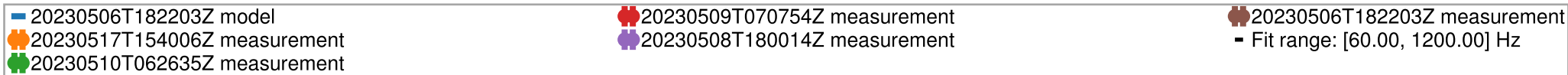
Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.243e+06	5299 (0.16%)	4901 (0.15%)
Cavity_pole, f_cc (Hz)	434.9	1.132 (0.26%)	1.182 (0.27%)
Detuned SRC spring frequency, f_s (Hz)	5.536	0.9571 (17.29%)	1.304 (23.56%)
Detuned SRC spring quality factor, Q_s	23.12	11.75 (50.83%)	6.762 (29.25%)
Residual time delay, tau_c (s)	-5.56e-07	3.588e-07 (-64.53%)	3.703e-07 (-66.61%)

20230517T154006Z sensing function MCMC corner plot

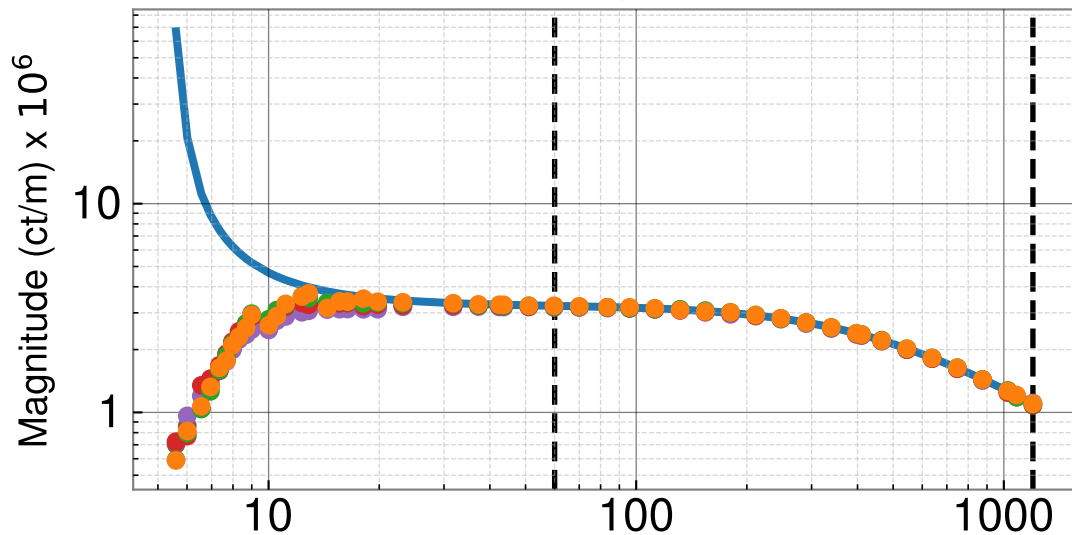


H1 sensing model history

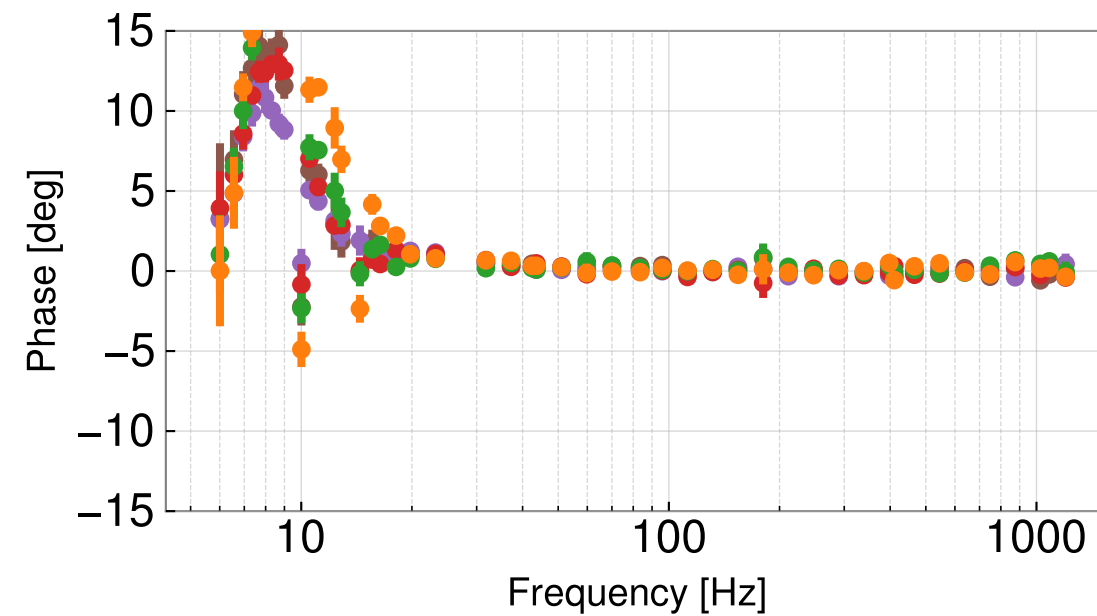
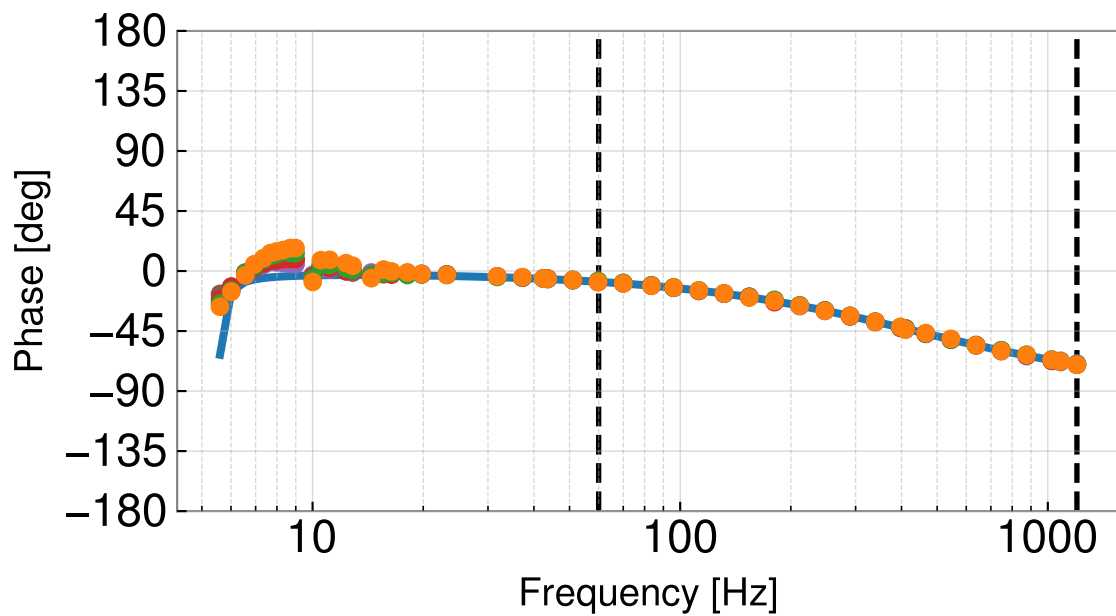
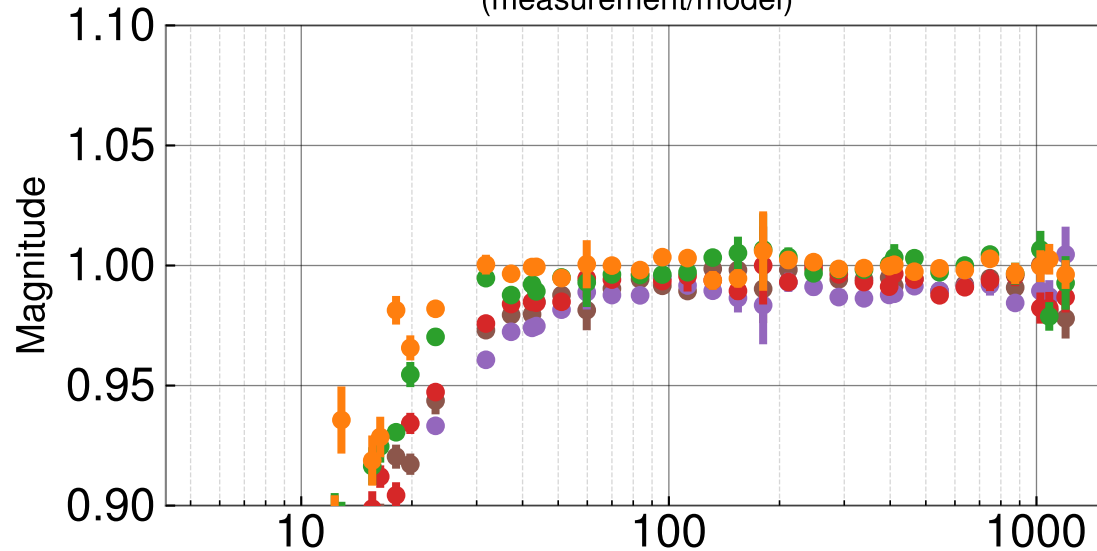
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230517T163625Z/pydarm_H1.ini



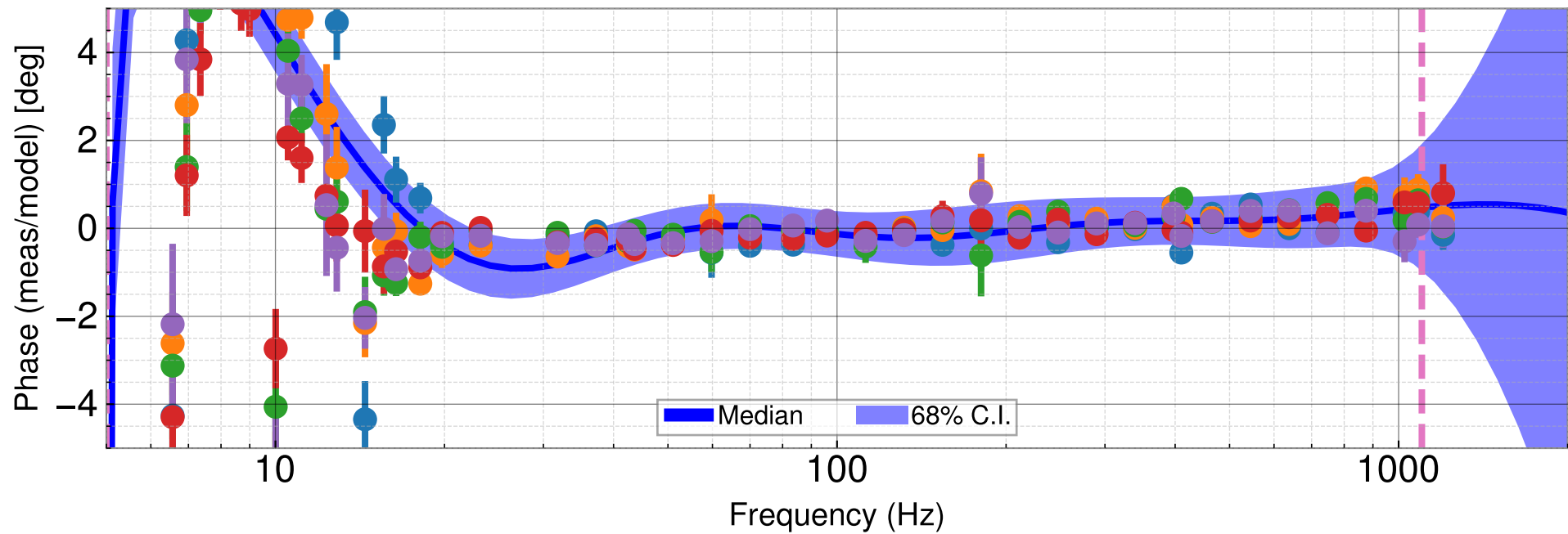
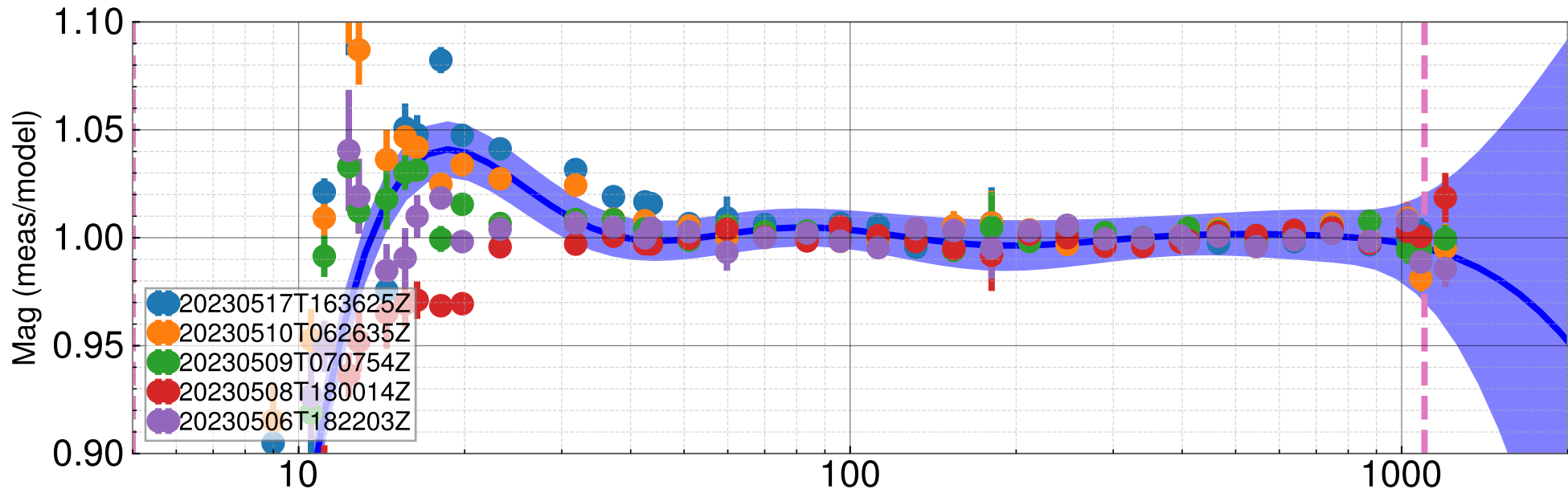
Optical response transfer functions
(scaled by $1/C_R$)



Optical response residuals
(measurement/model)

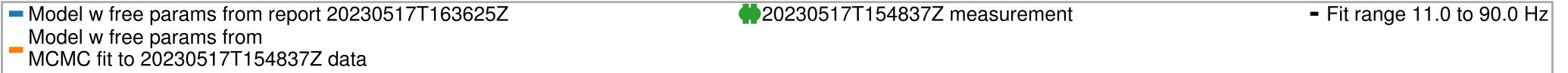


Sensing GPR

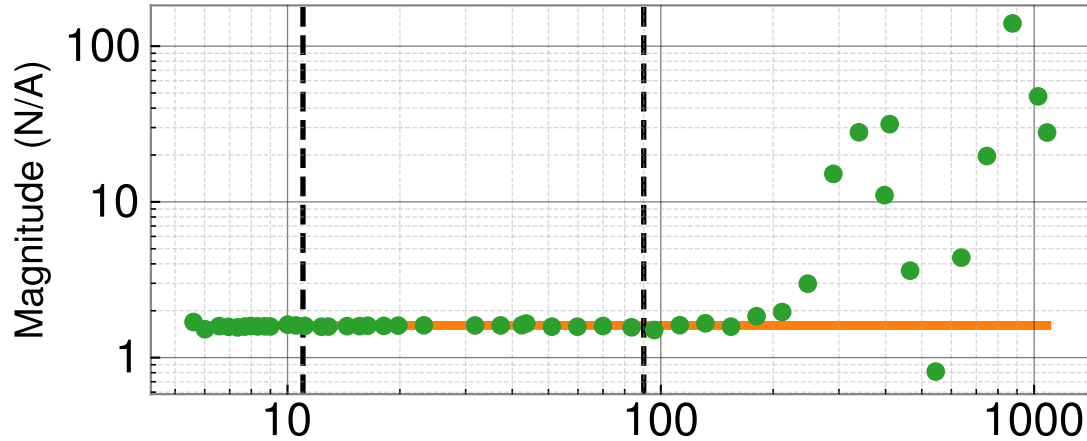


H1SUSEX L1 actuation model MCMC summary

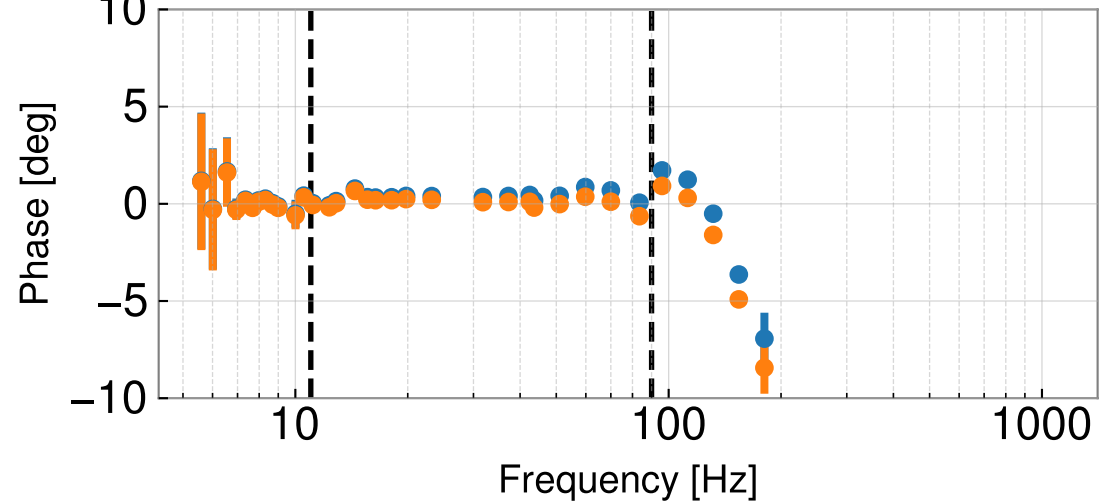
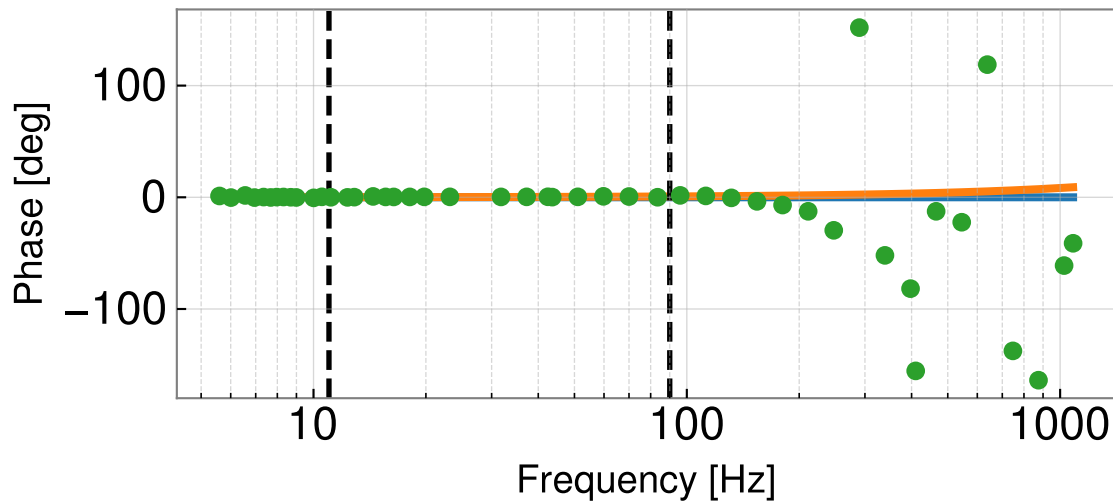
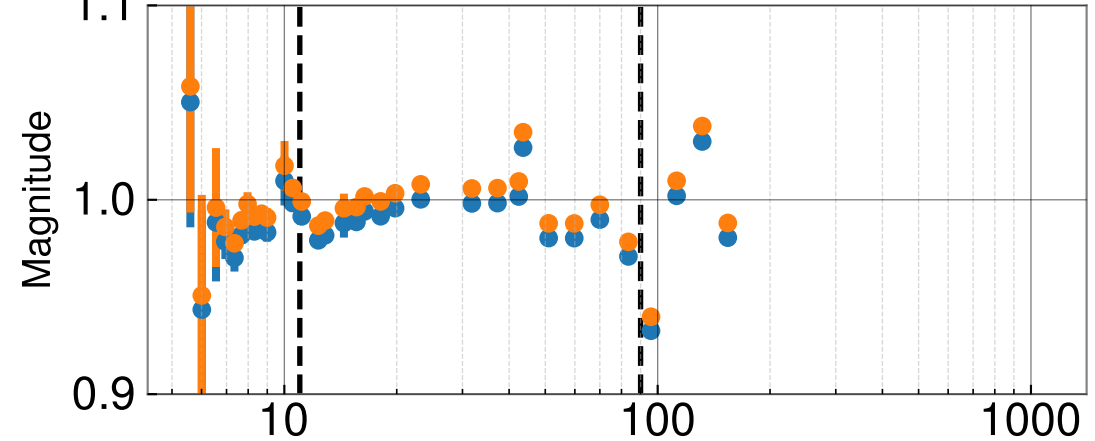
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230517T163625Z/pydarm_H1.ini



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

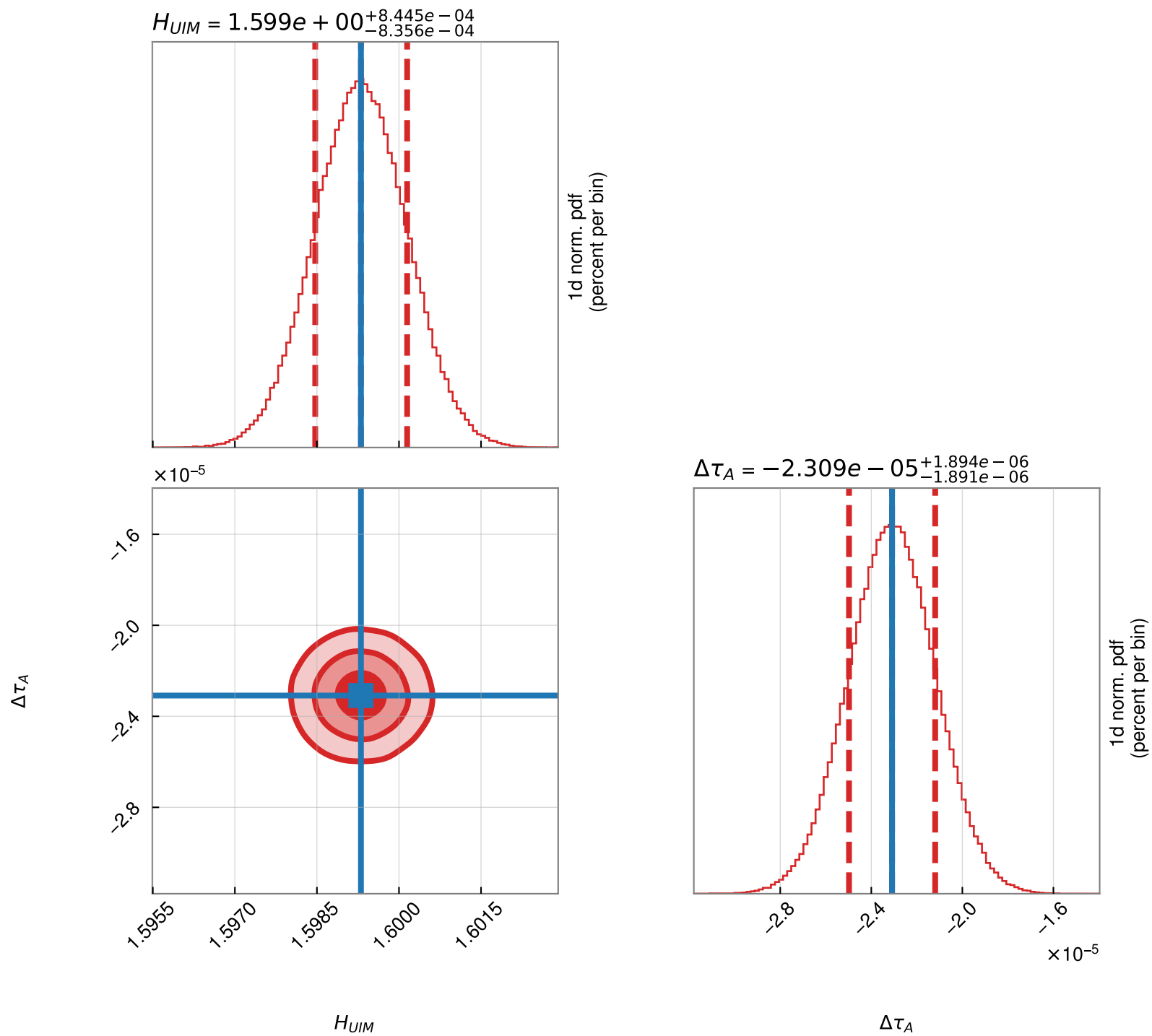
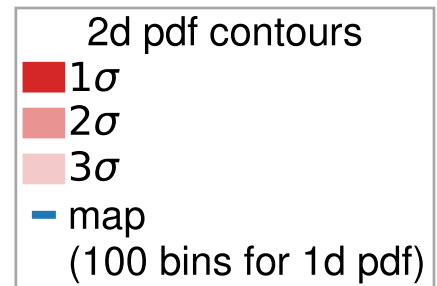


Actuation strength residuals
(measurement/model w. free params)



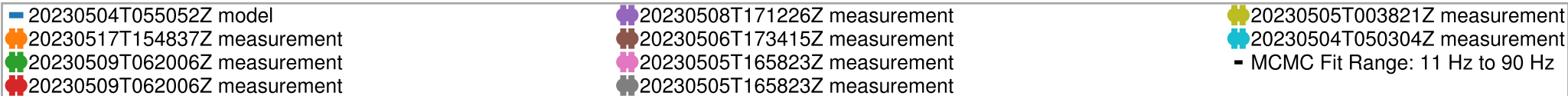
Parameter	(value +/-) value	+	-
Actuation Gain, Hau (N/A)	1.599	0.0008445 (0.05%)	0.0008356 (0.05%)
Residual time delay, tau_A (s)	-2.309e-05	1.894e-06 (-8.21%)	1.891e-06 (-8.19%)

20230517T154837Z EX L1 actuation MCMC corner plot

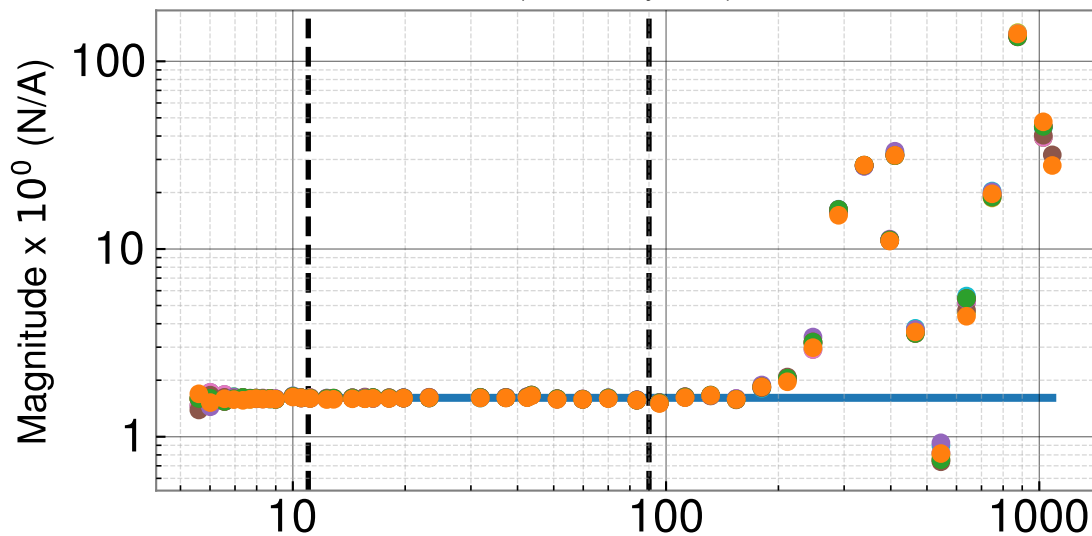


H1SUSEX L1 actuation model history

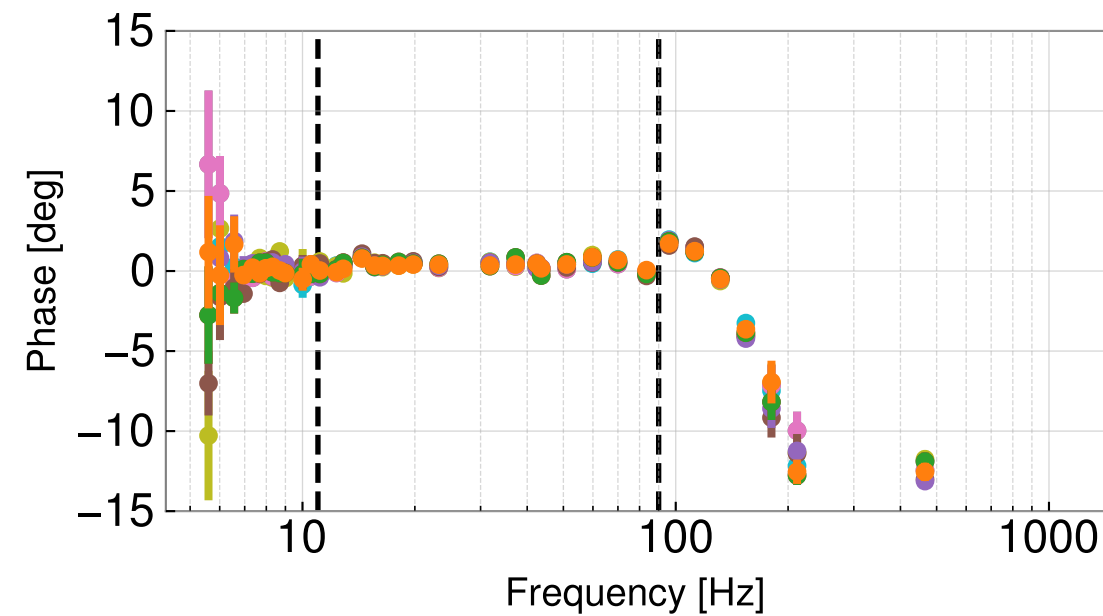
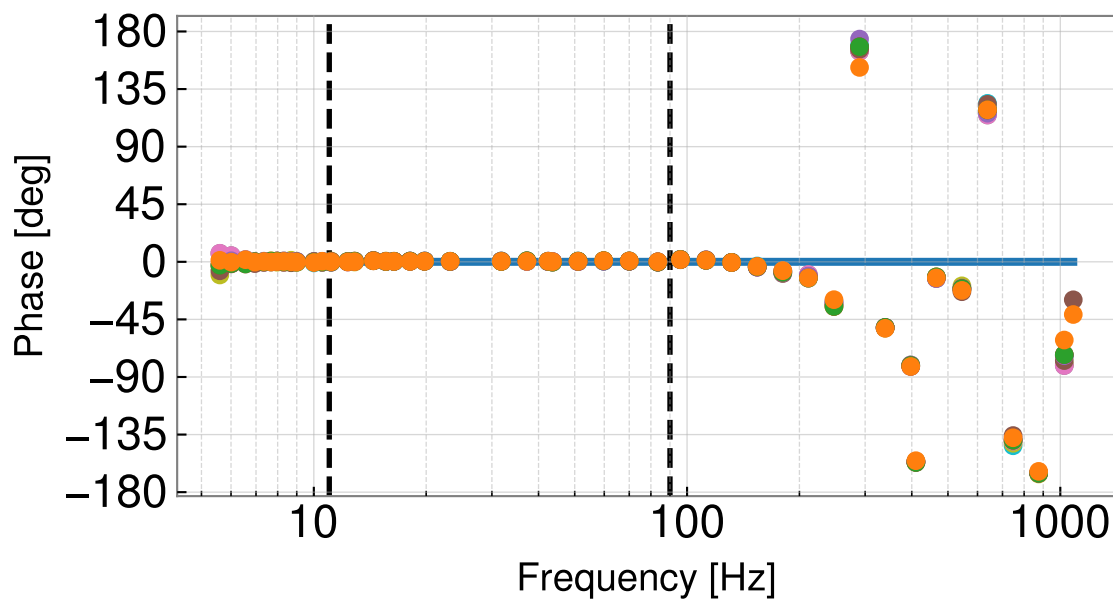
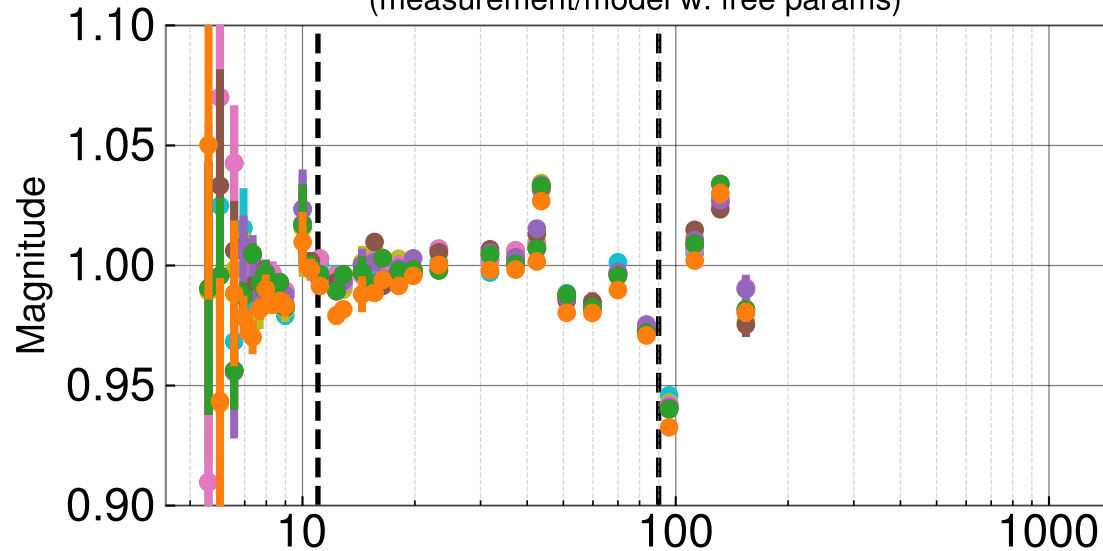
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20230517T163625Z/pydarm_H1.ini`



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



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

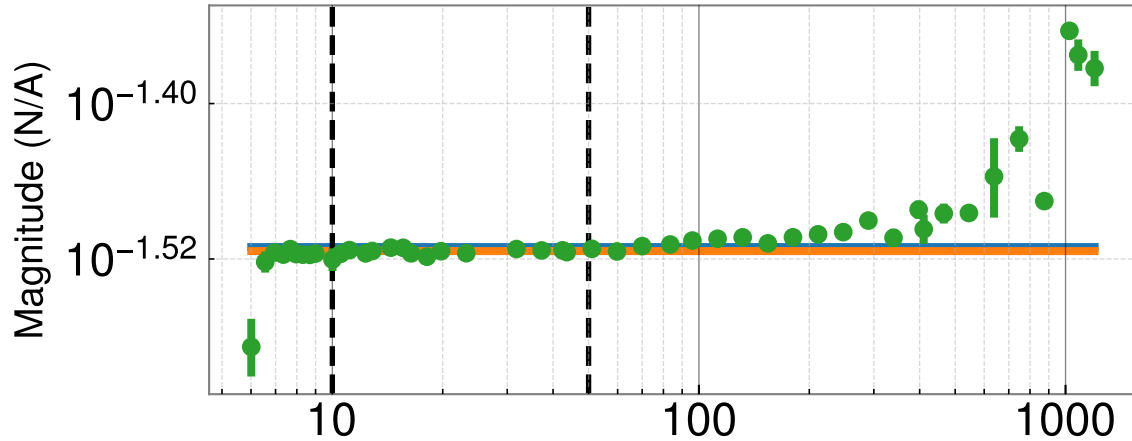


H1 SUSEX L2 actuation model MCMC summary

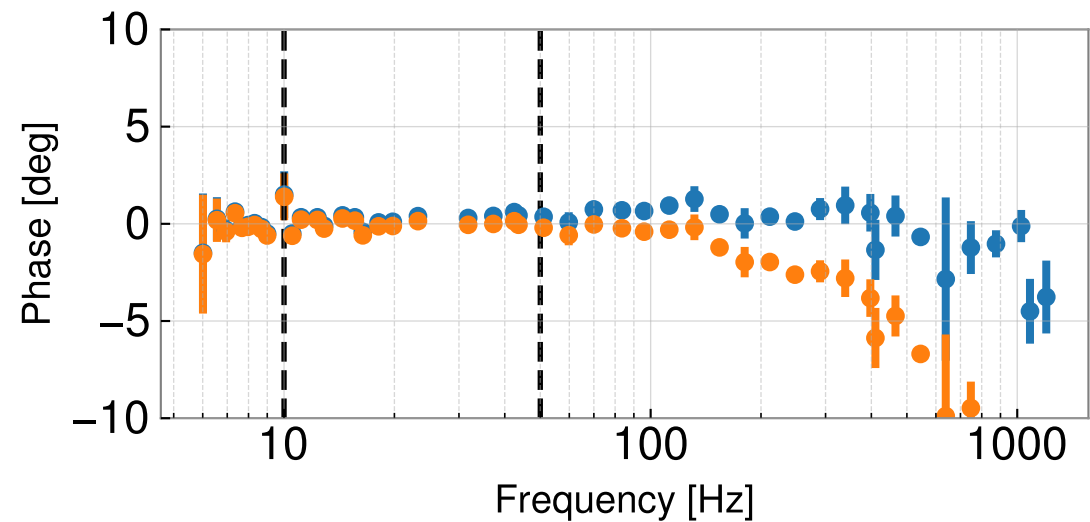
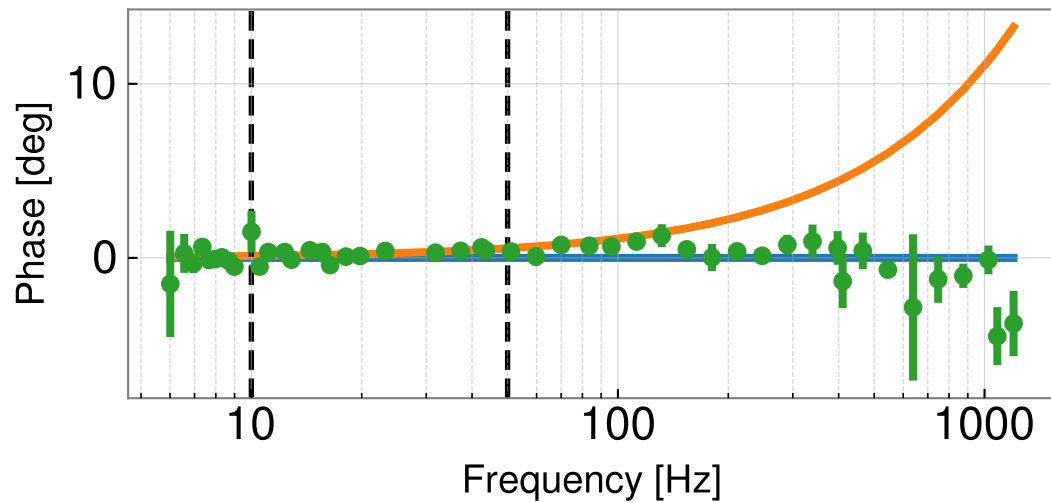
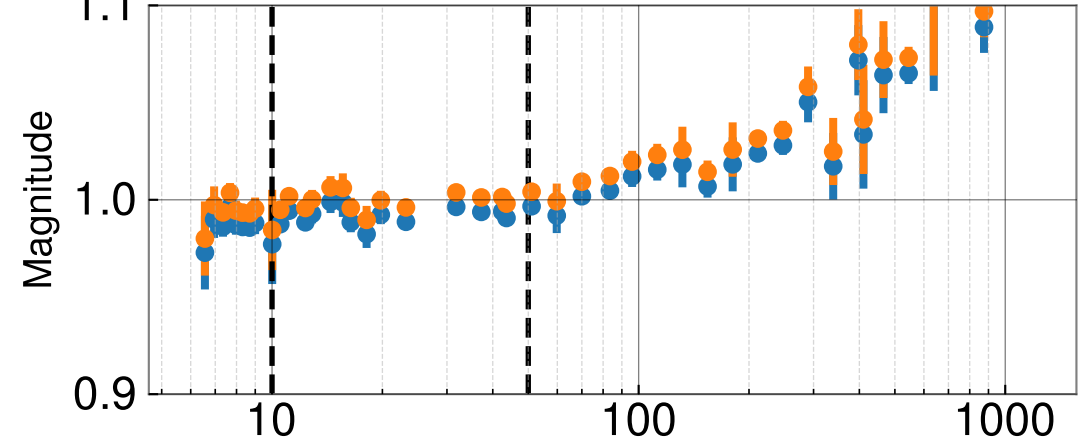
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230517T163625Z/pydarm_H1.ini



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

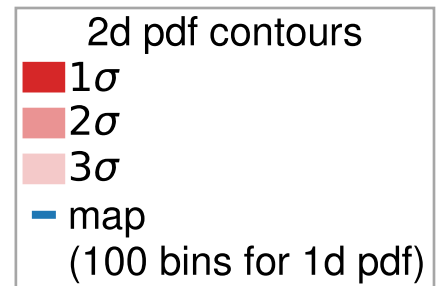


Actuation strength residuals
(measurement/model w. free params)

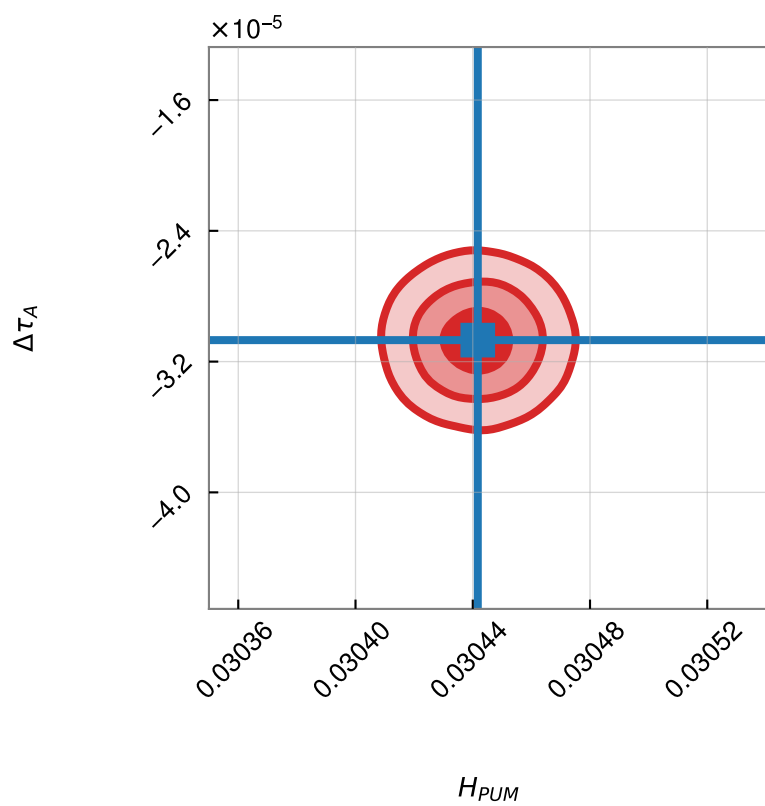
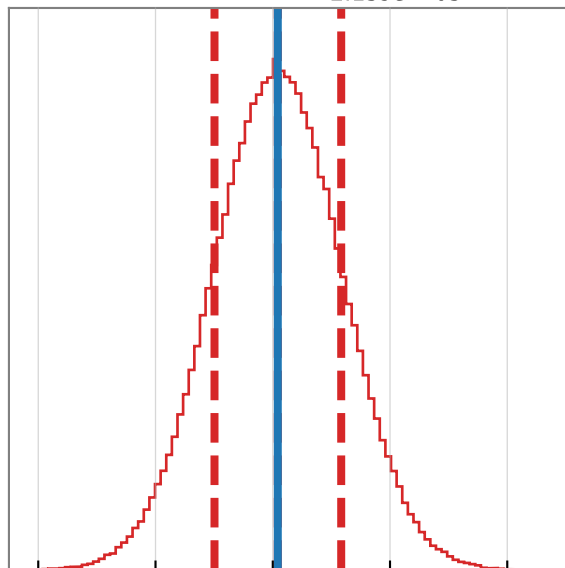


Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.03044	2.164e-05 (0.07%)	2.159e-05 (0.07%)
Residual time delay, tau_A (s)	-3.069e-05	3.564e-06 (-11.61%)	3.561e-06 (-11.60%)

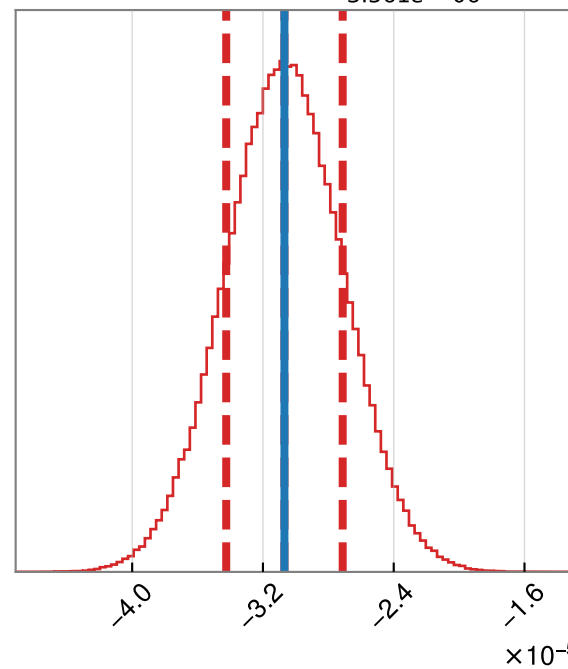
20230517T161131Z EX L2 actuation MCMC corner plot



$$H_{PUM} = 3.044e - 02^{+2.164e - 05}_{-2.159e - 05}$$

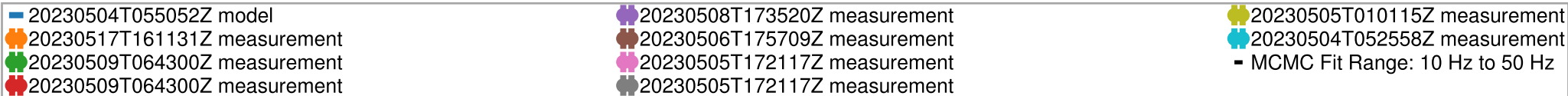


$$\Delta\tau_A = -3.069e - 05^{+3.564e - 06}_{-3.561e - 06}$$

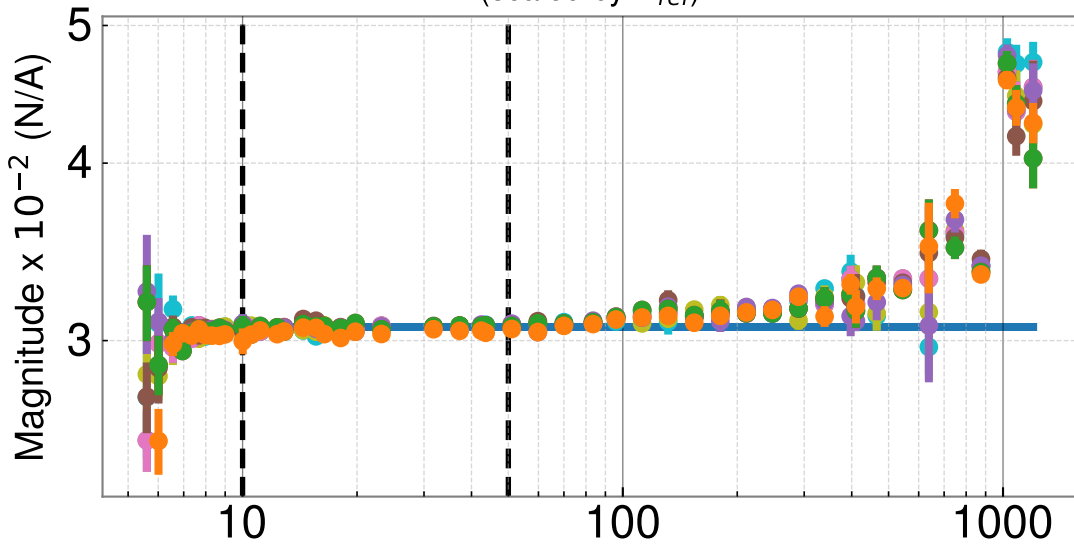


H1SUSEX L2 actuation model history

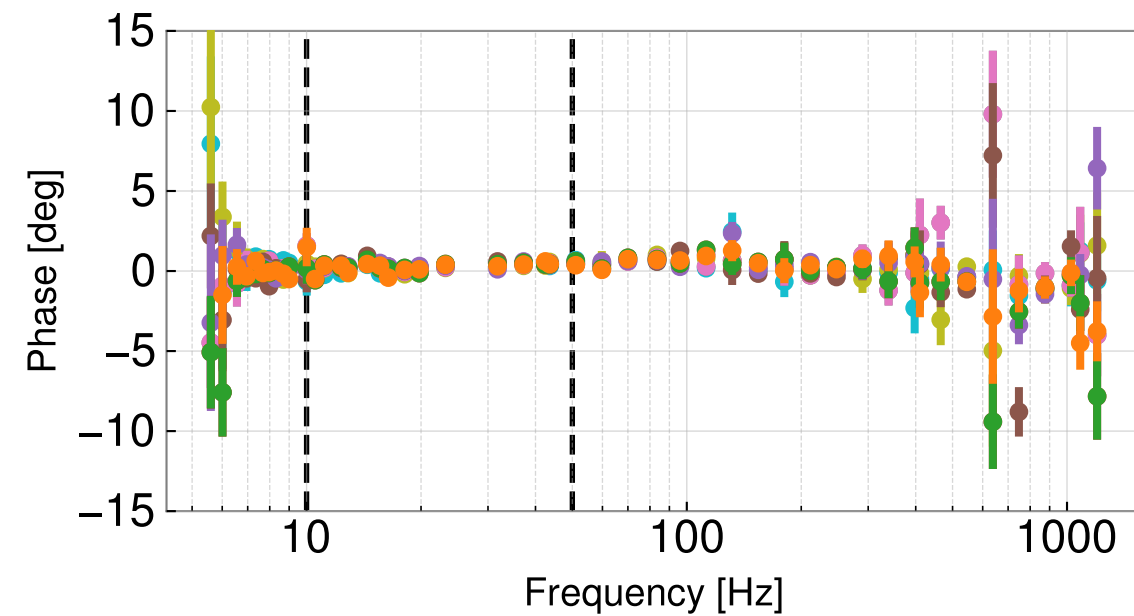
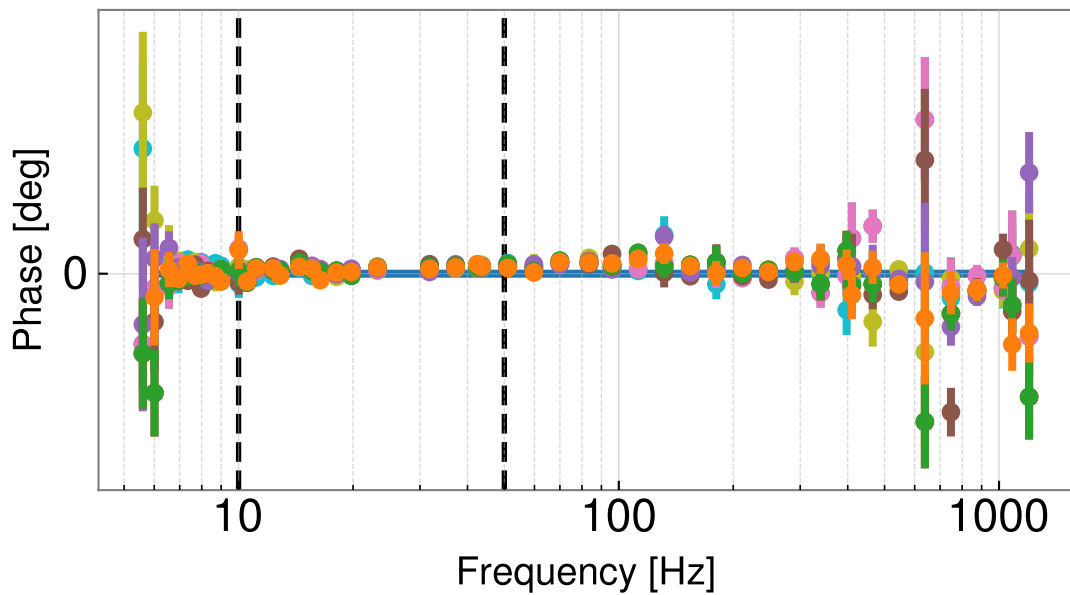
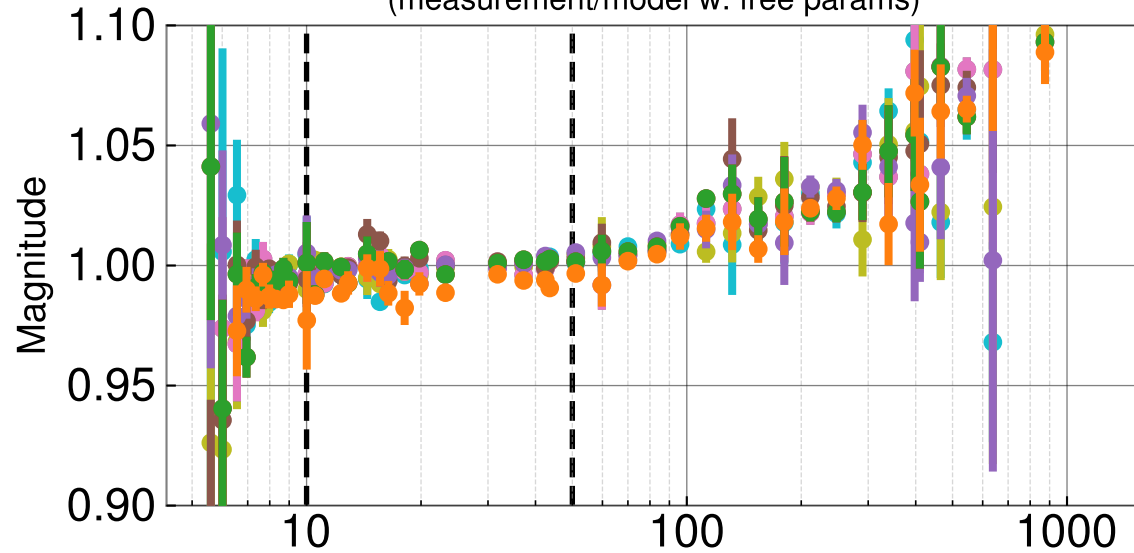
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20230517T163625Z/pydarm_H1.ini`



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



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

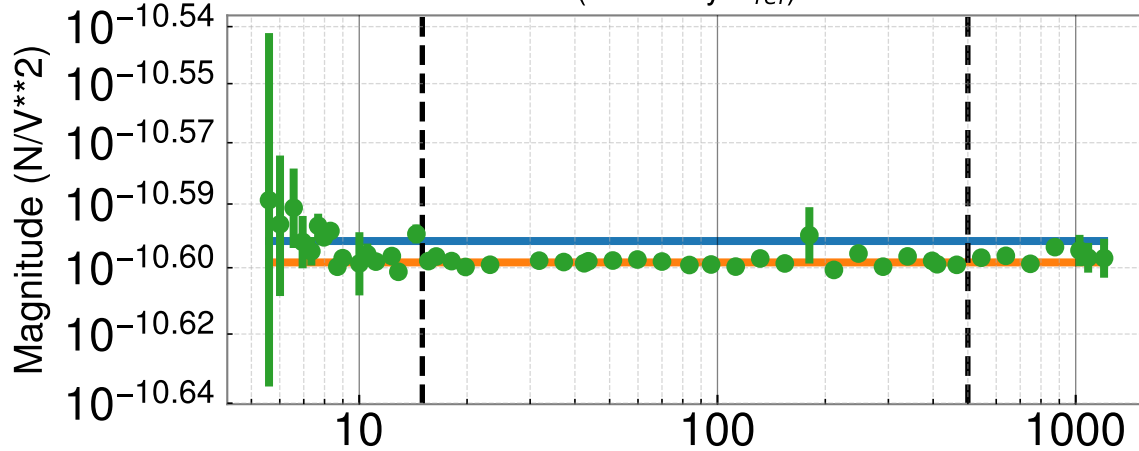


H1 SUSEX L3 actuation model MCMC summary

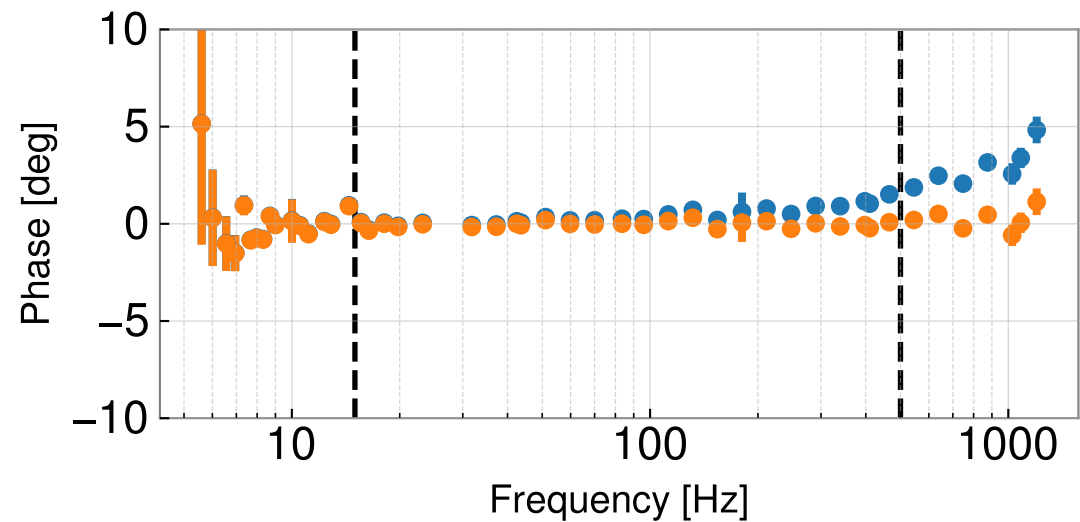
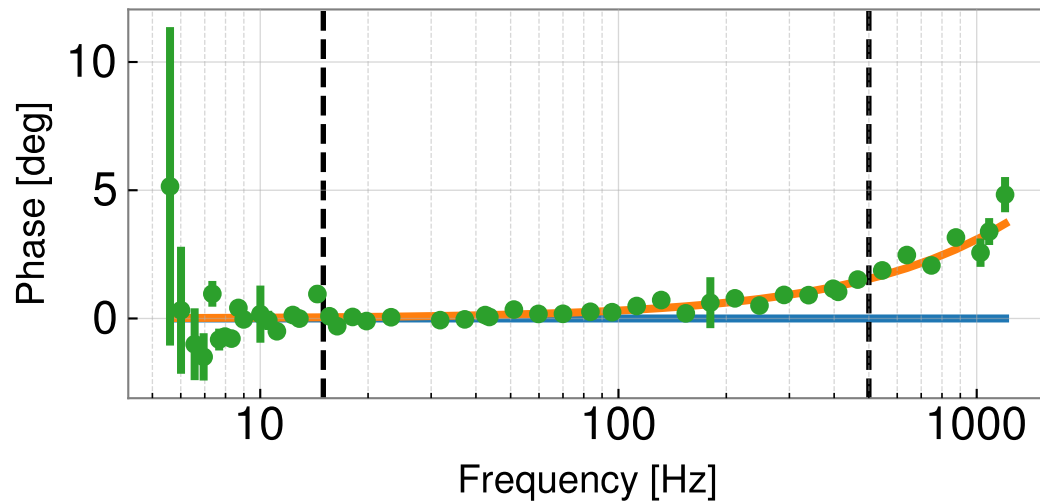
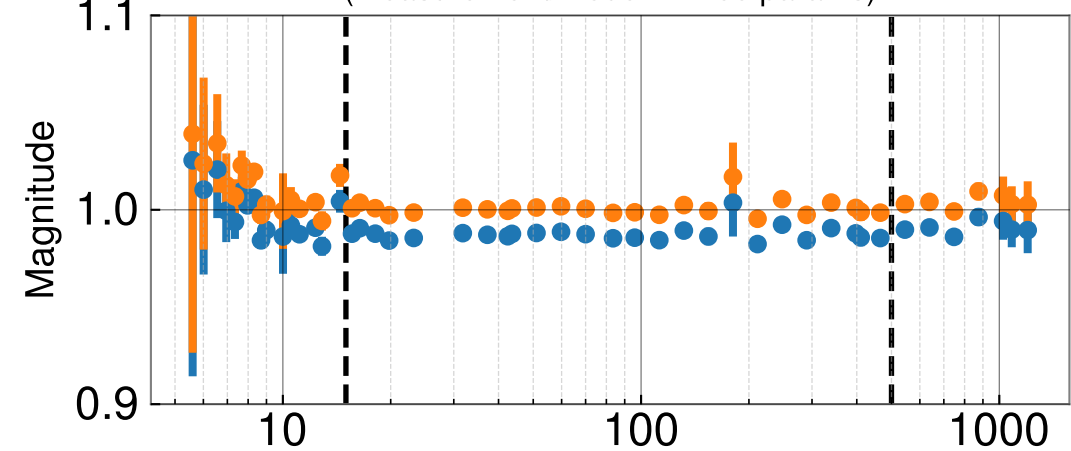
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230517T163625Z/pydarm_H1.ini



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

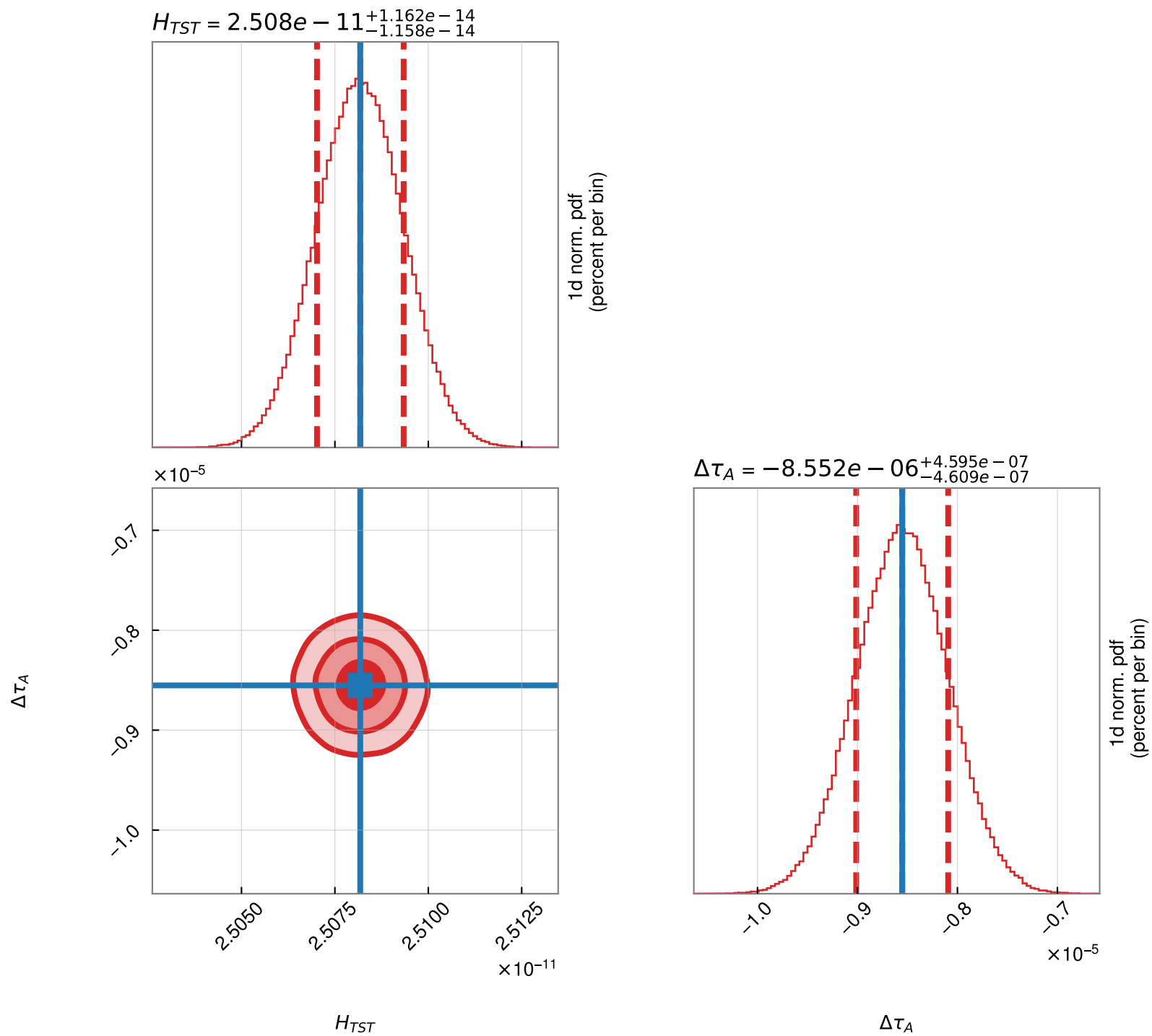
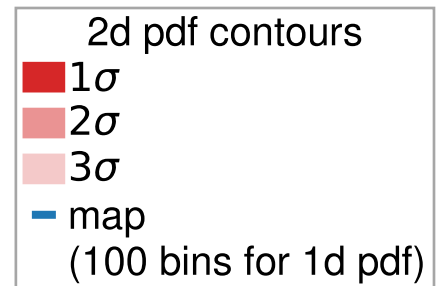


Actuation strength residuals
(measurement/model w. free params)



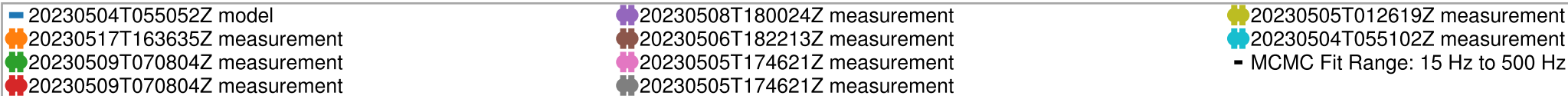
Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V^{**2})	2.508e-11	1.162e-14 (0.05%)	1.158e-14 (0.05%)
Residual time delay, tau_A (s)	-8.552e-06	4.595e-07 (-5.37%)	4.609e-07 (-5.39%)

20230517T163635Z EX L3 actuation MCMC corner plot

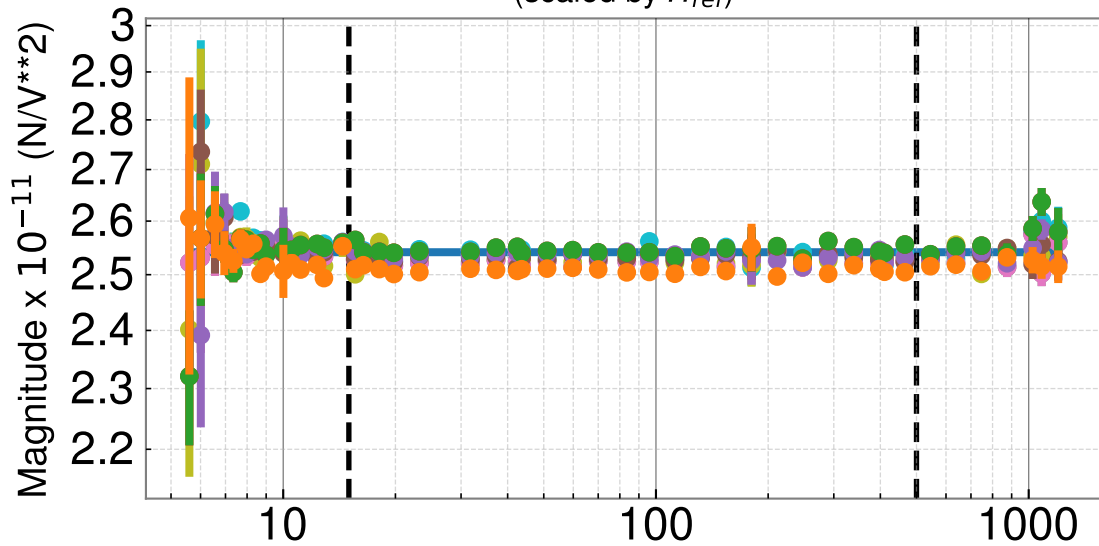


H1SUSEX L3 actuation model history

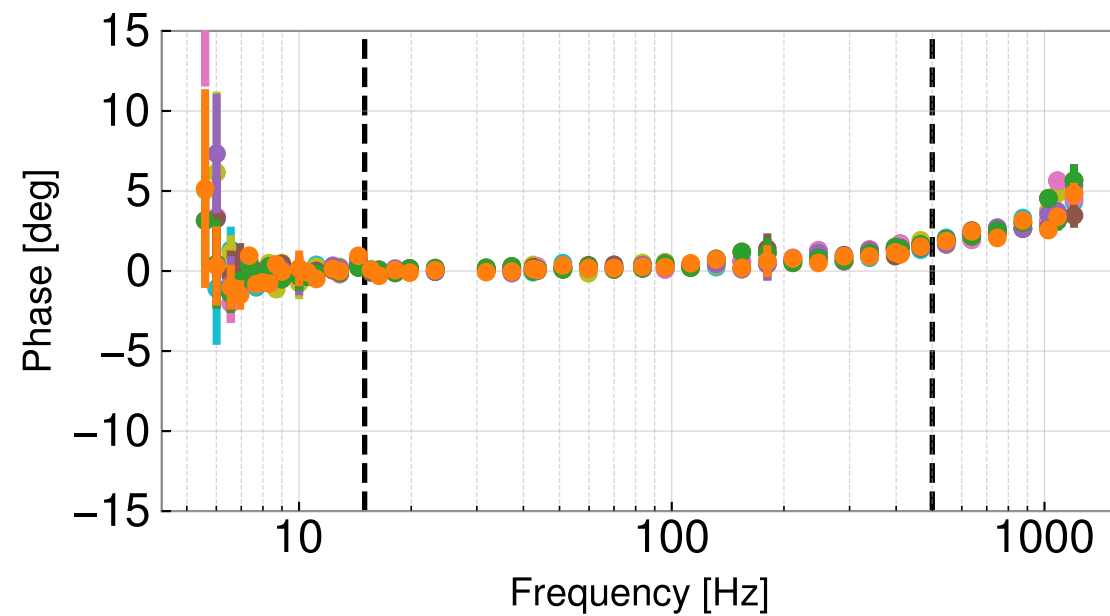
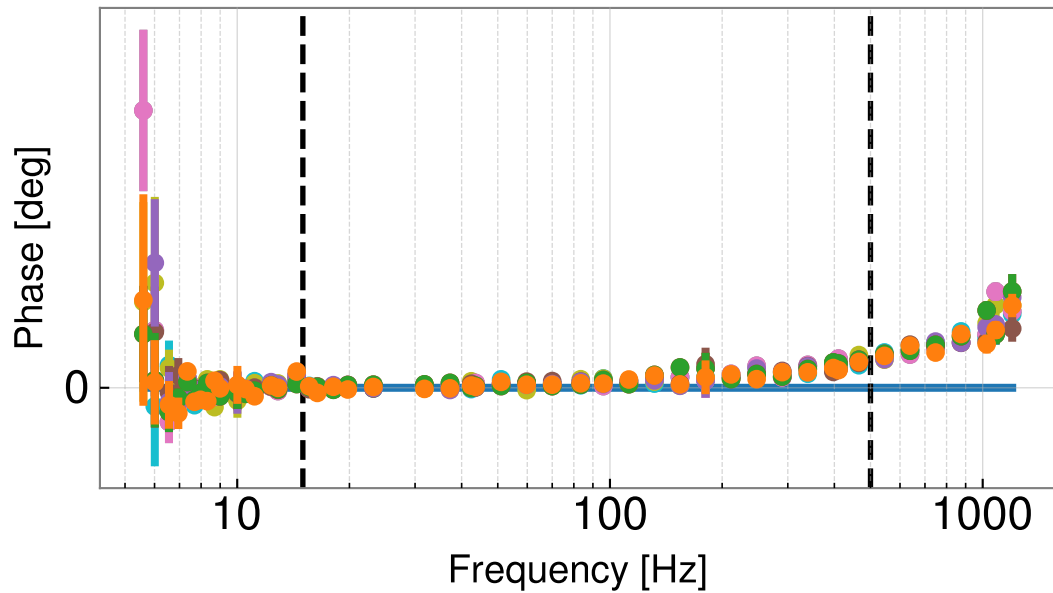
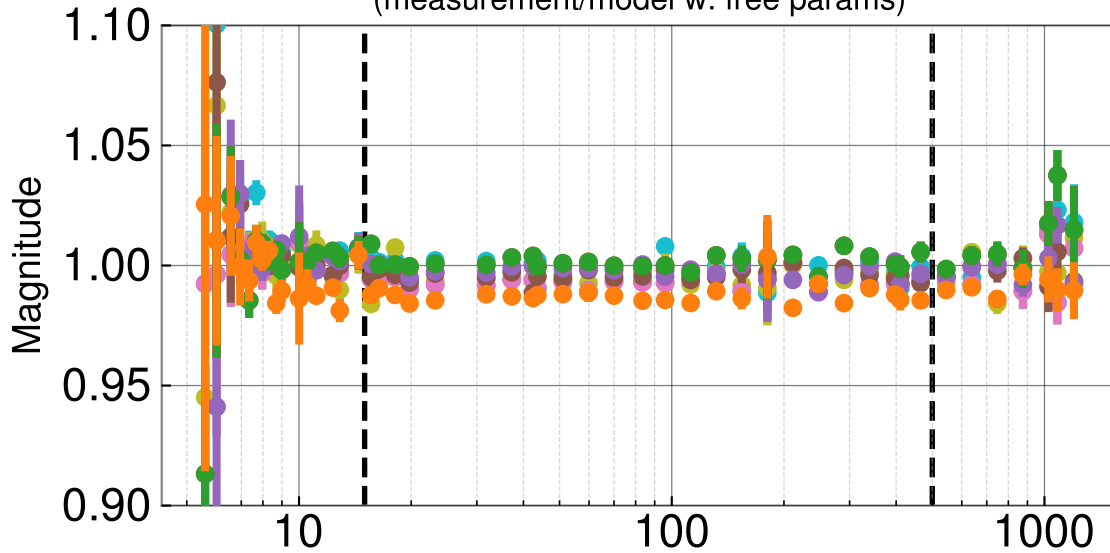
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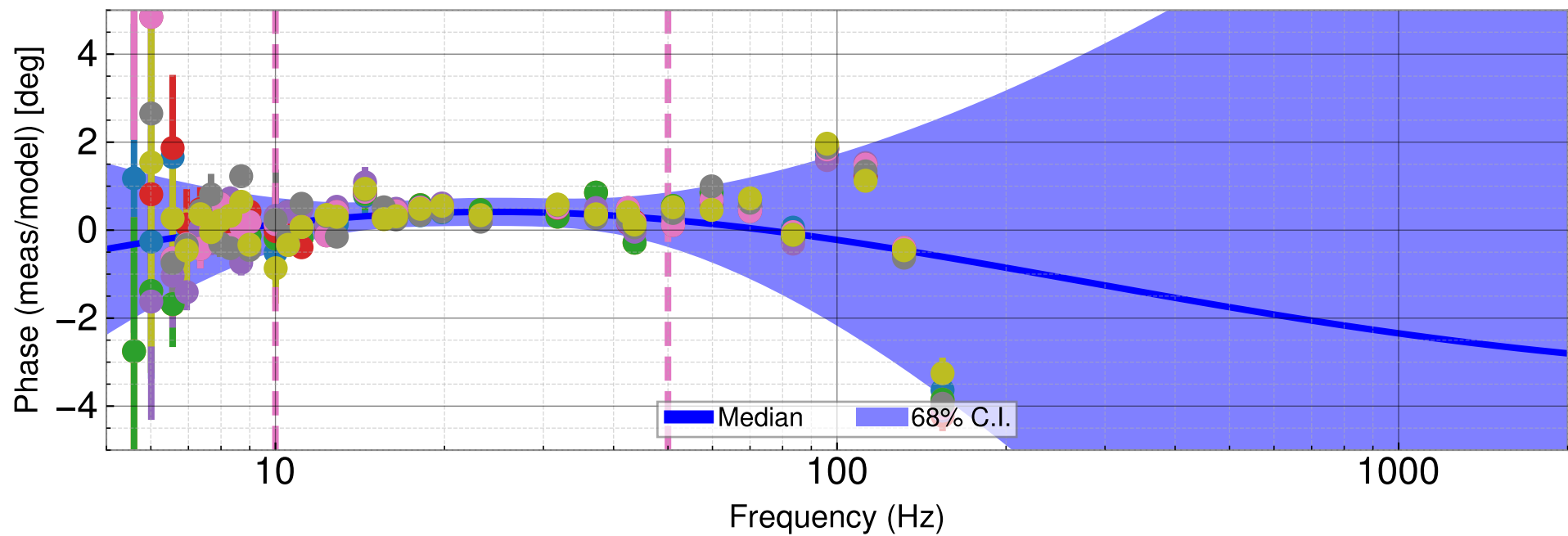
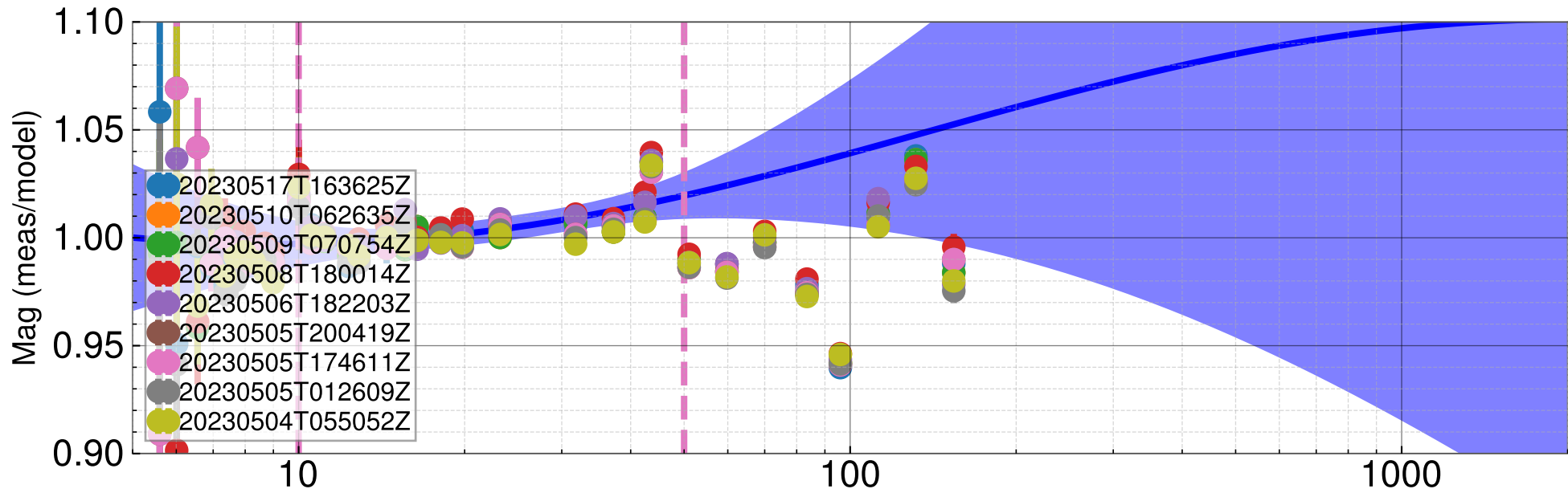
Actuation strength transfer functions
(scaled by H_{ref})



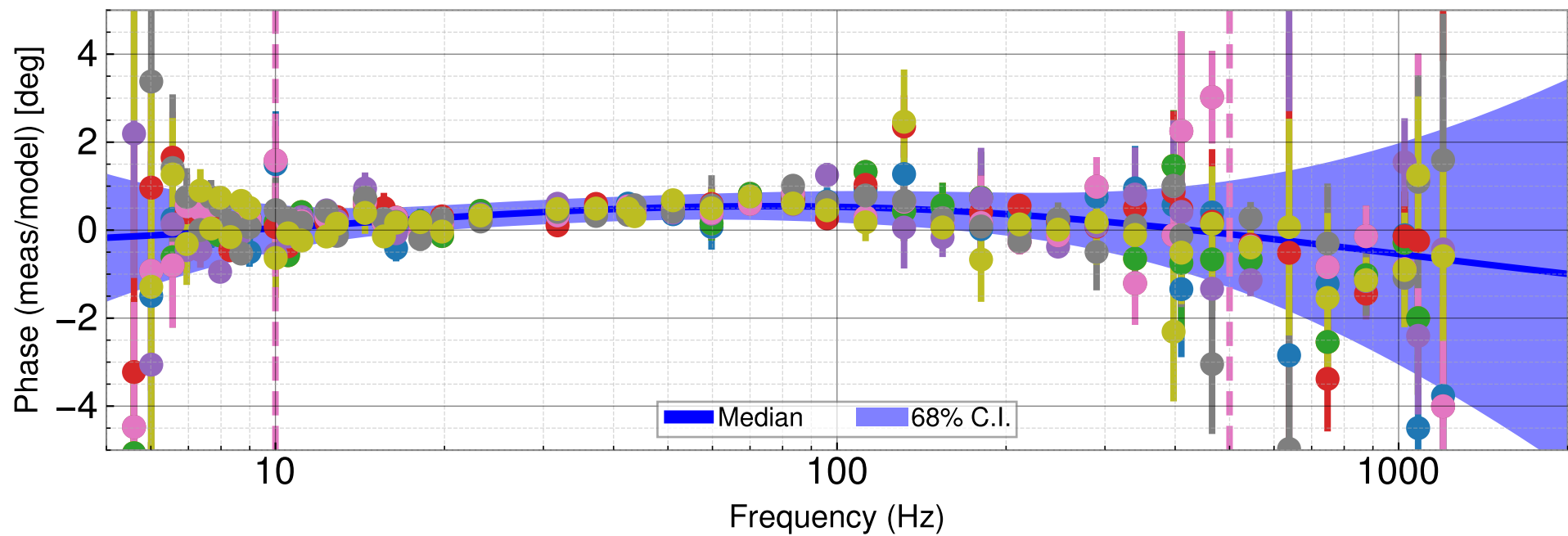
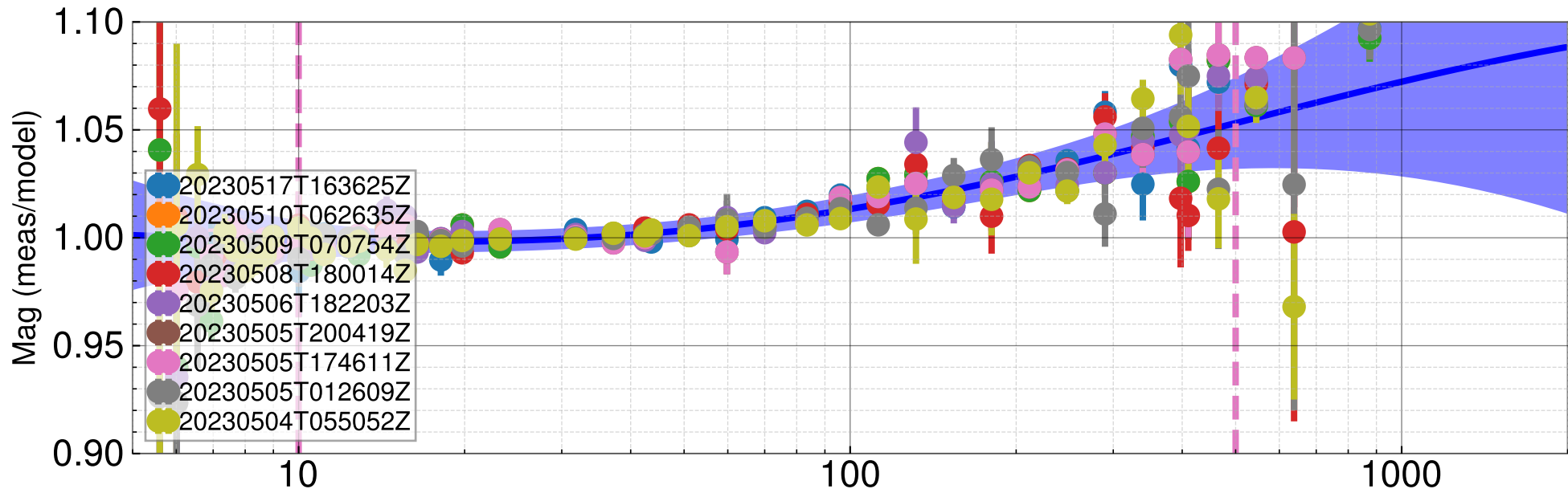
Actuation strength residuals
(measurement/model w. free params)



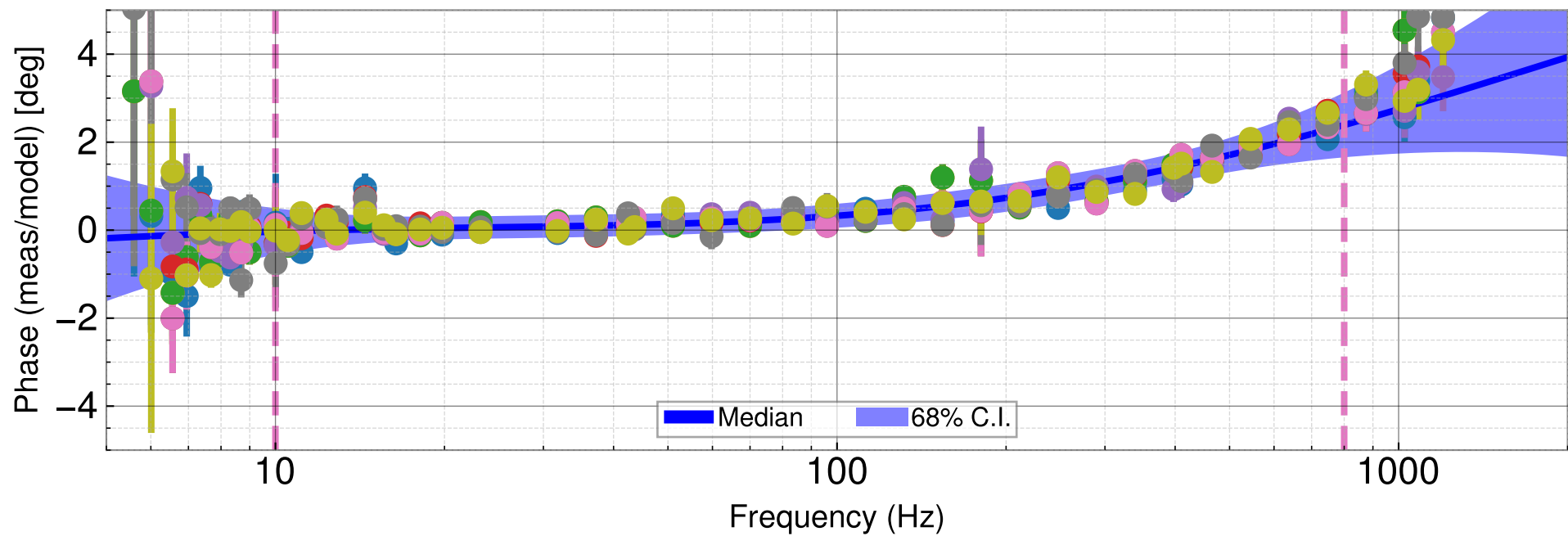
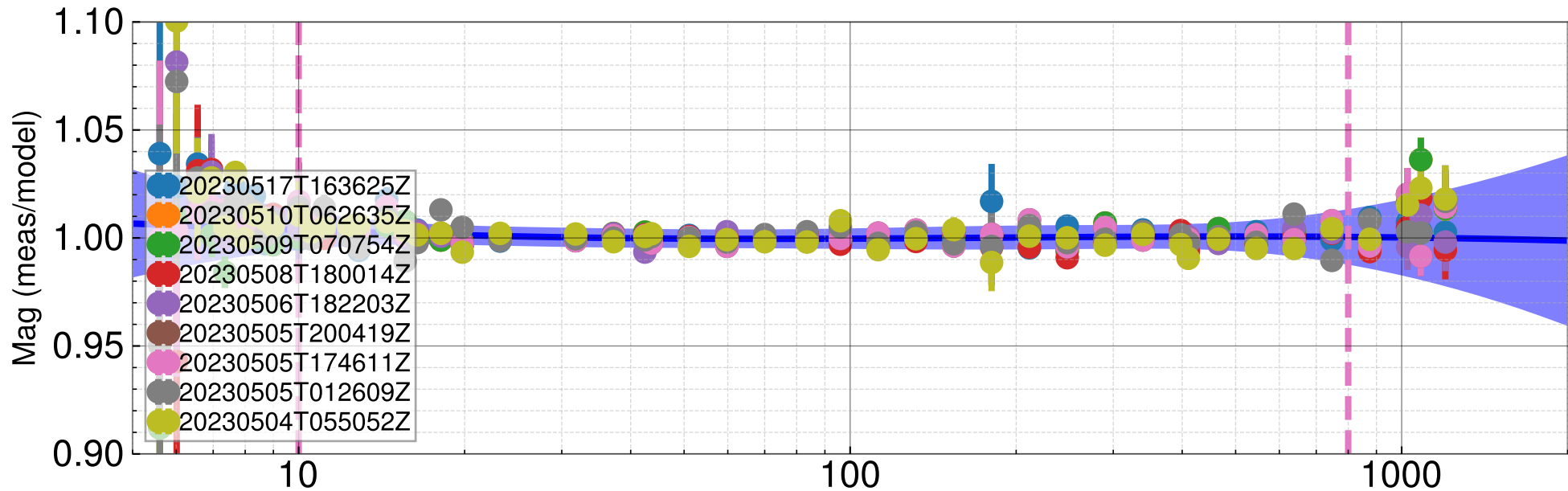
Actuation/L1/EX GPR



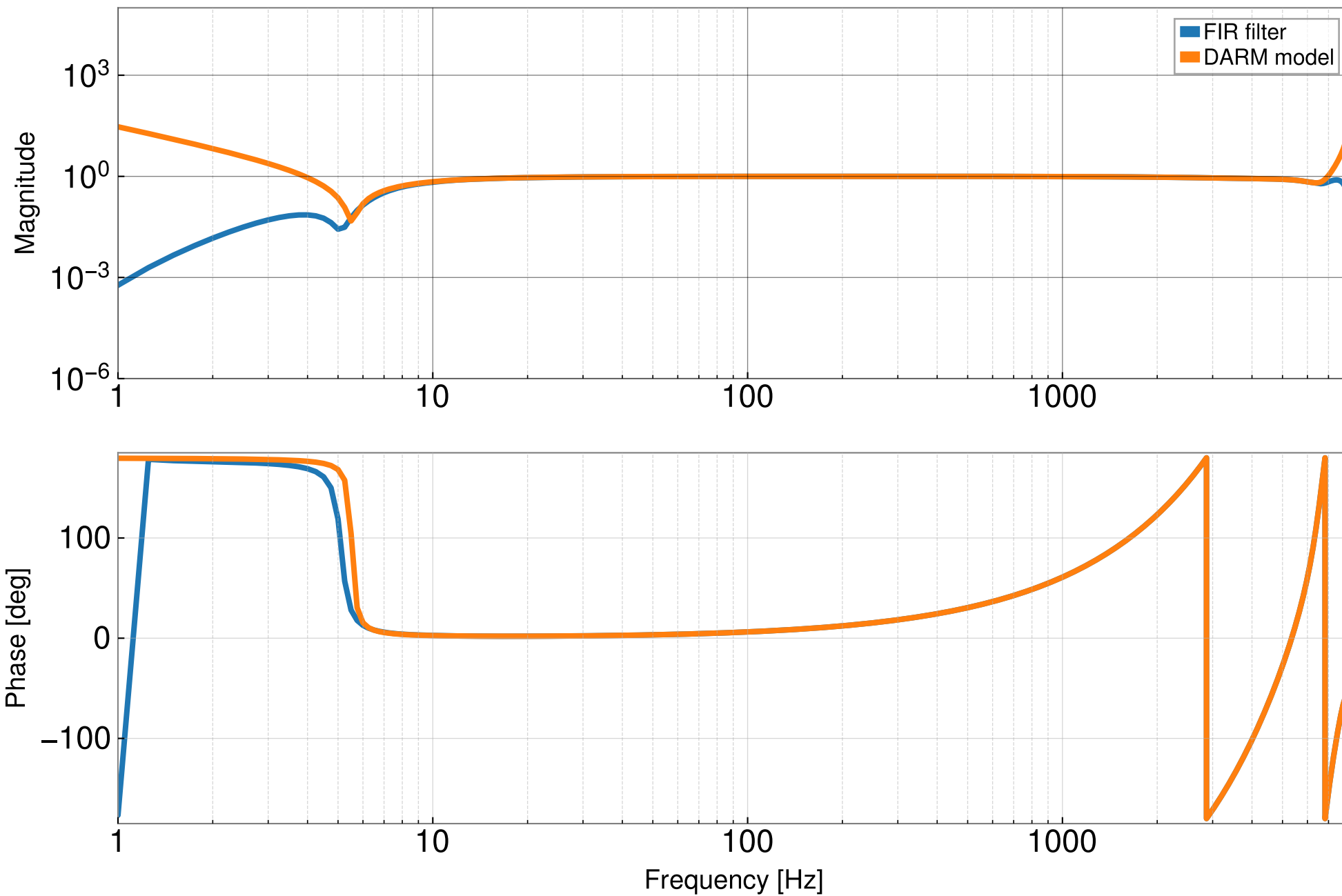
Actuation/L2/EX GPR



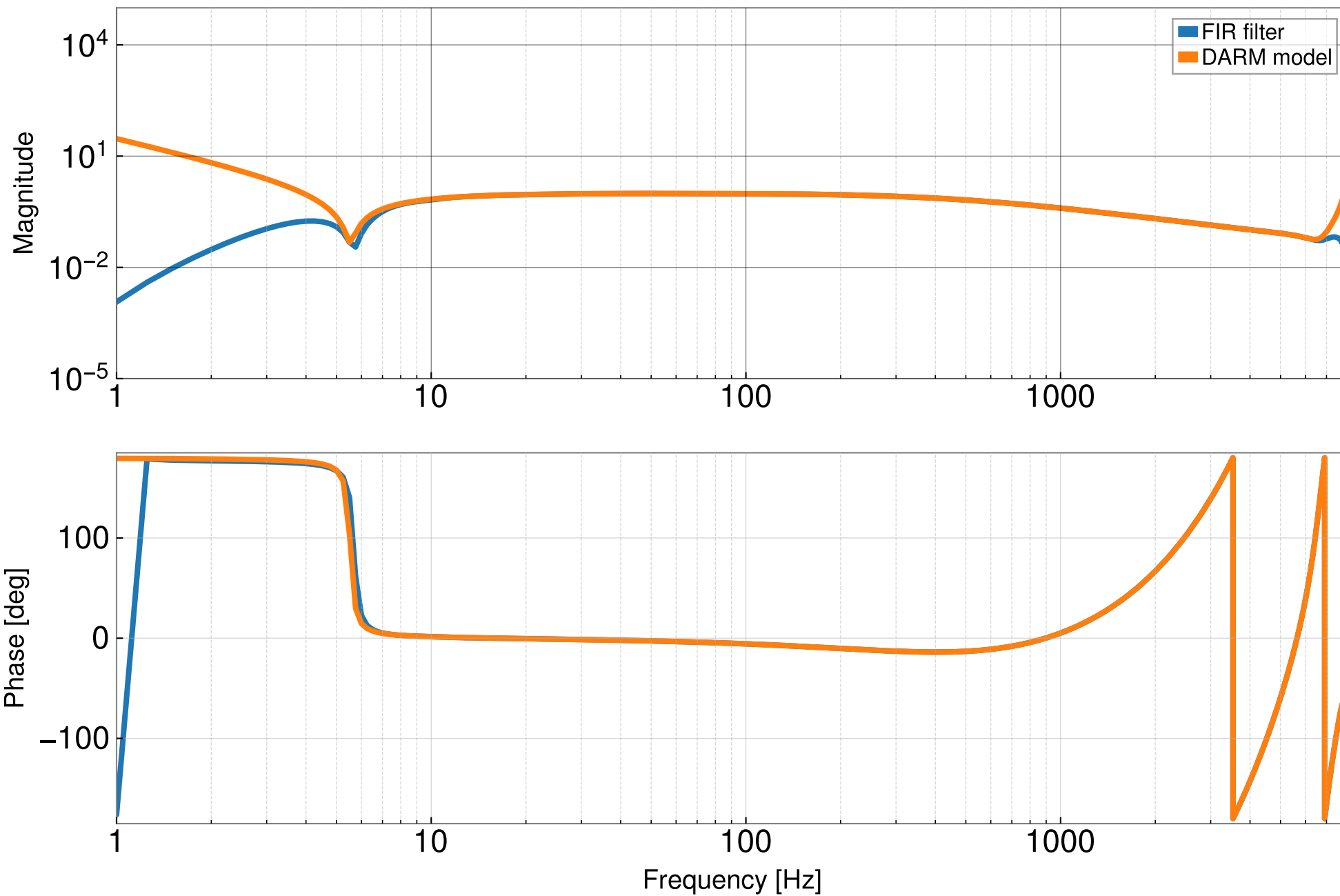
Actuation/L3/EX GPR



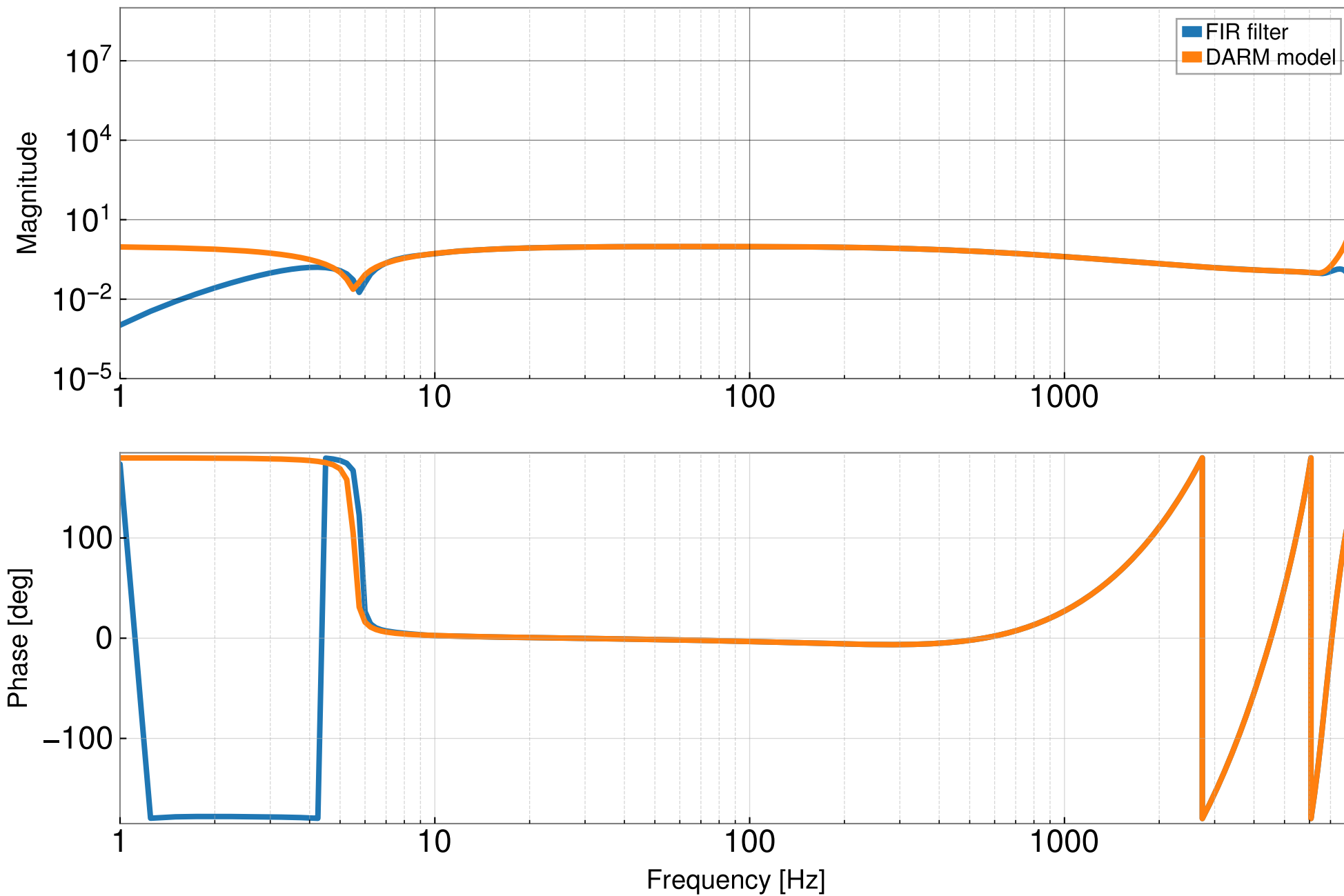
Residual corrections comparison (gstlal_compute_strain_C00_filters_H1)



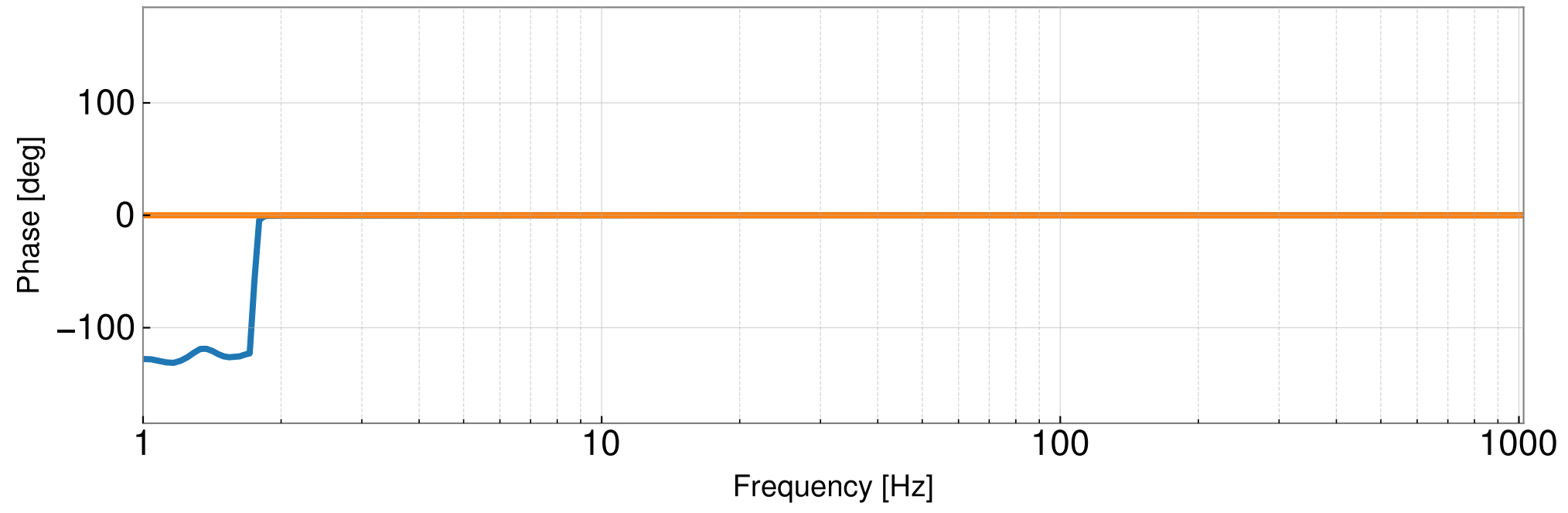
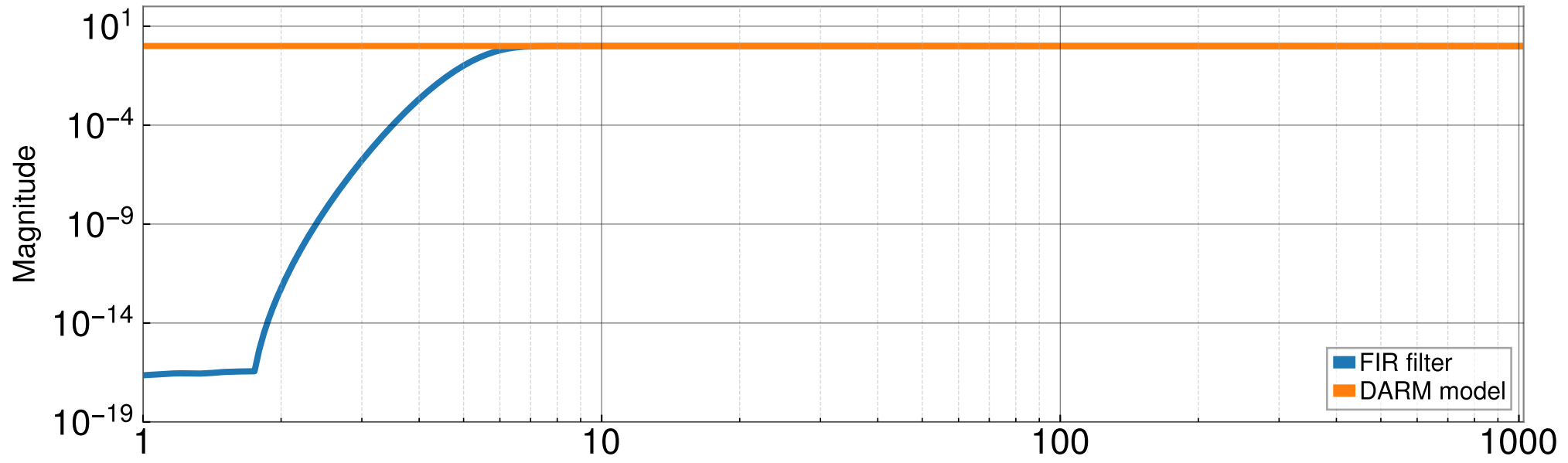
Res Corr No CC Pole comparison (gstlal_compute_strain_C00_filters_H1)



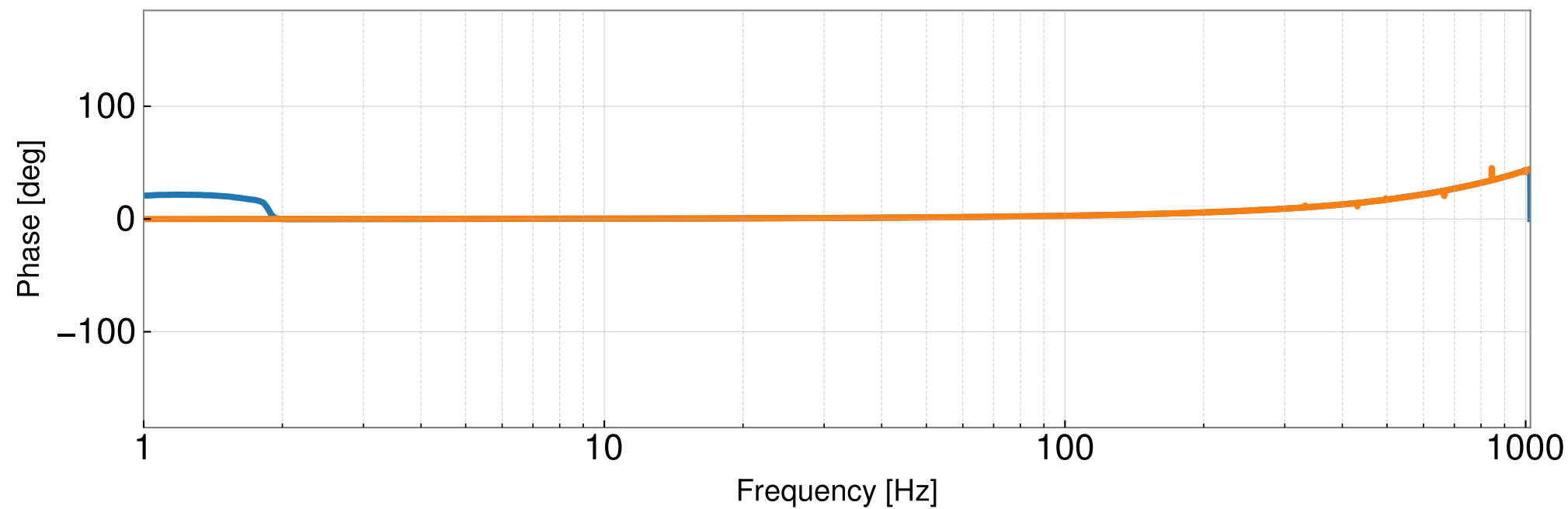
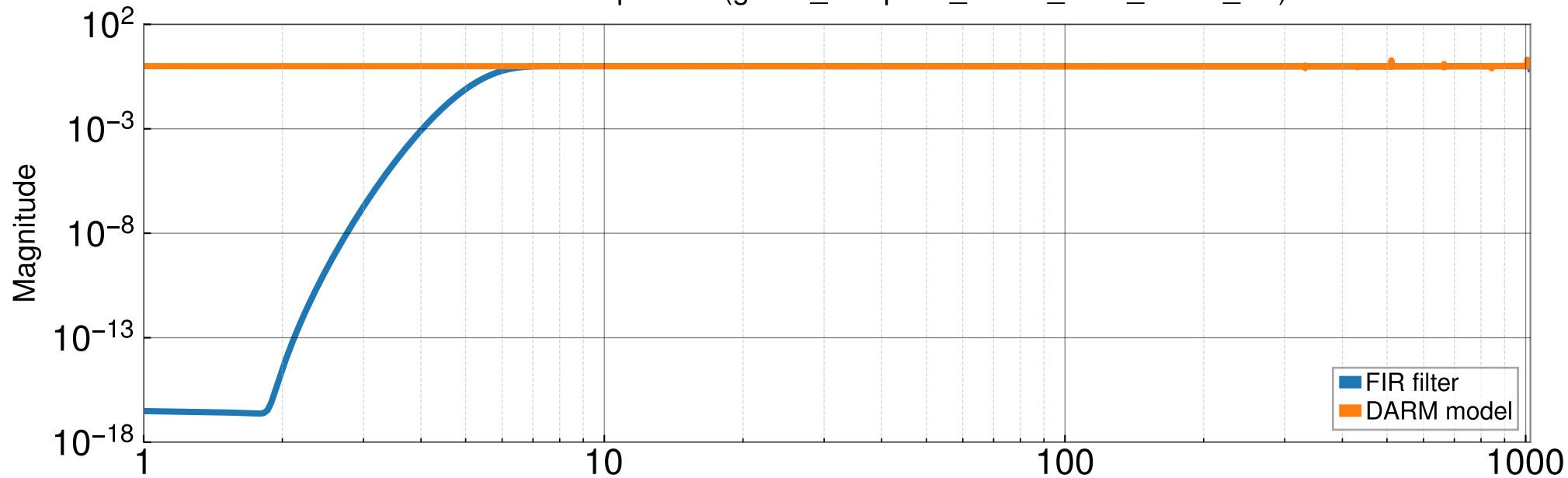
Res Corr No Pole comparison (gstlal_compute_strain_C00_filters_H1)



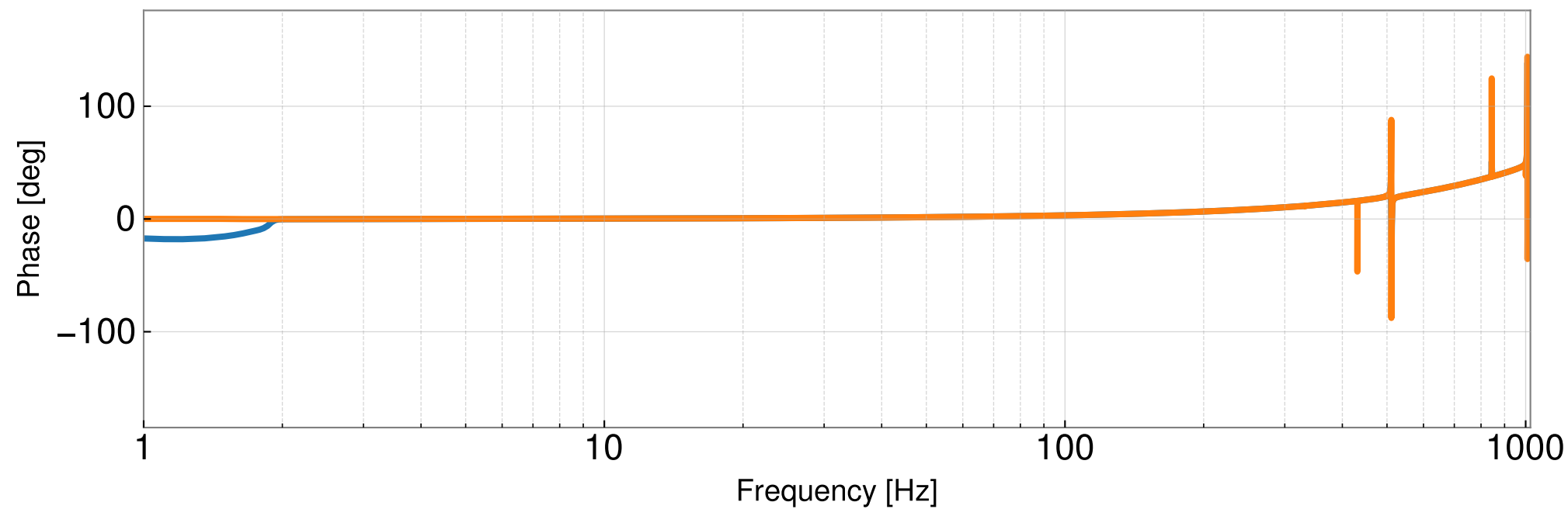
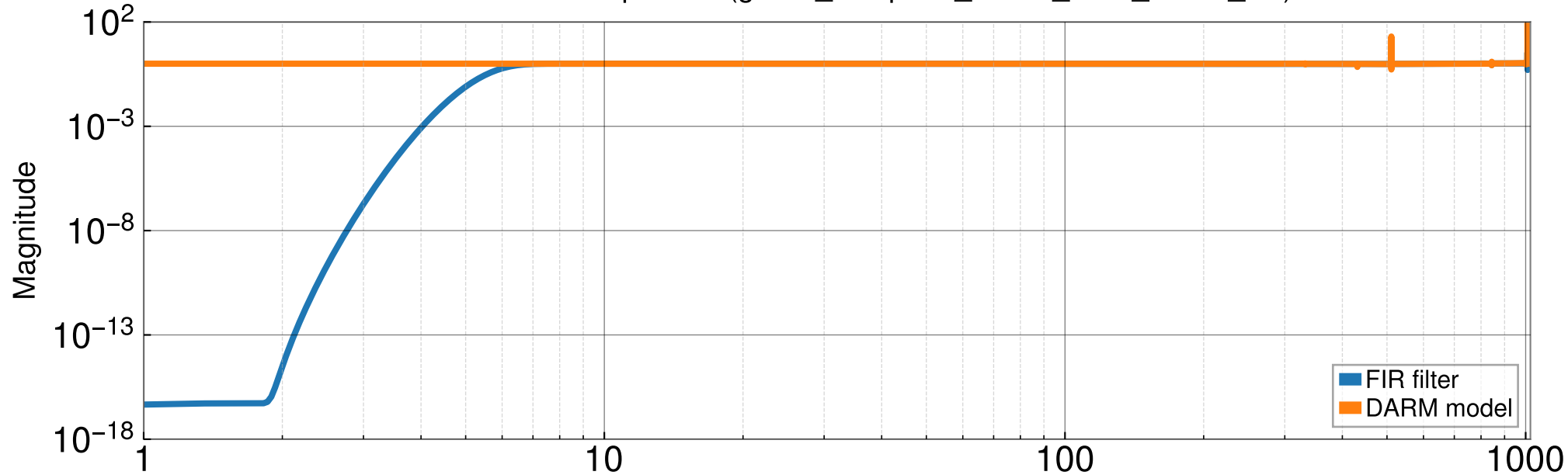
Residual corrections highpass comparison (gstlal_compute_strain_C00_filters_H1)



TST corrections comparison (gstlal_compute_strain_C00_filters_H1)



PUM corrections comparison (gstlal\compute\strain\C00_filters\H1)



UIM corrections comparison (gstlal_compute_strain_C00_filters_H1)

