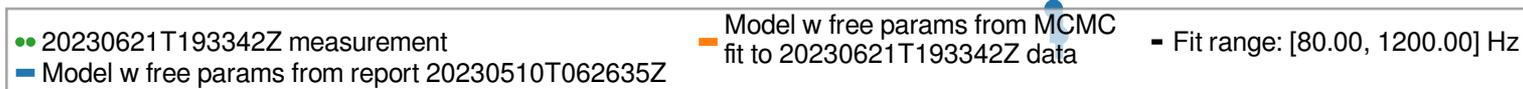
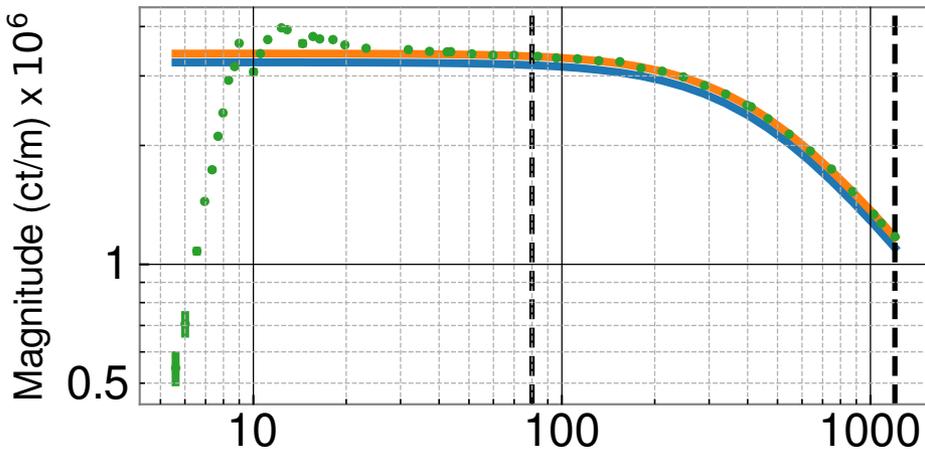


H1 sensing model MCMC summary

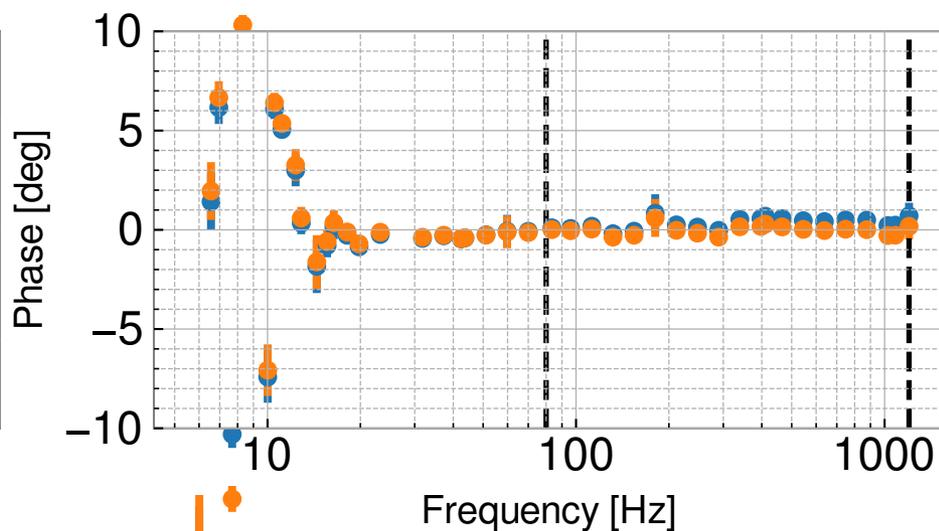
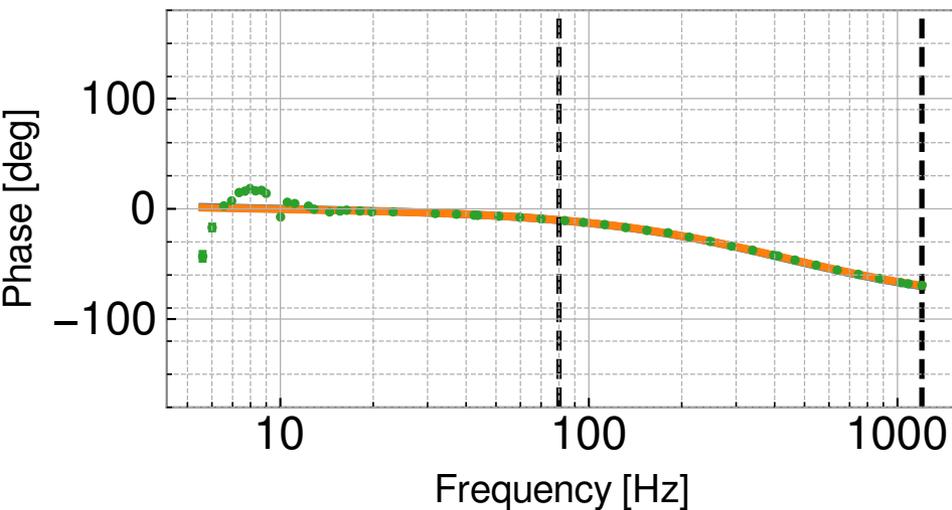
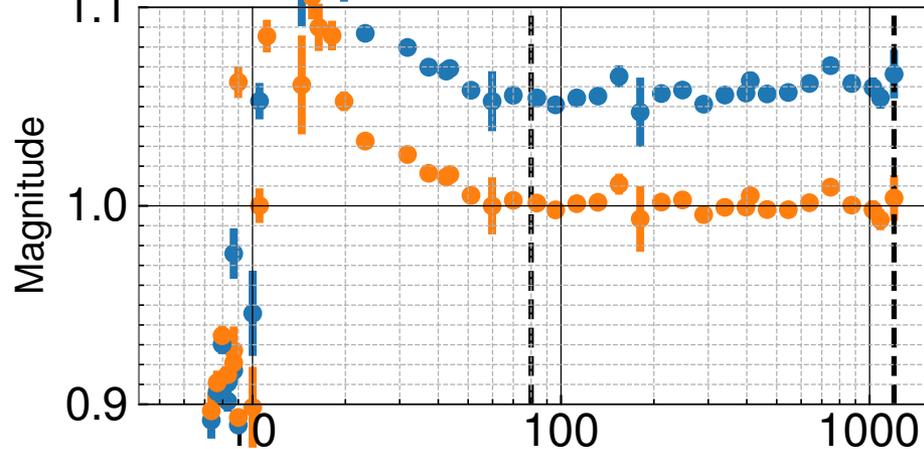
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230621T191615Z/pydarm_H1.ini



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



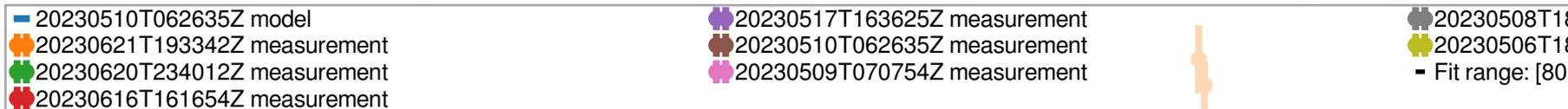
Optical response residuals
(measurement/model)



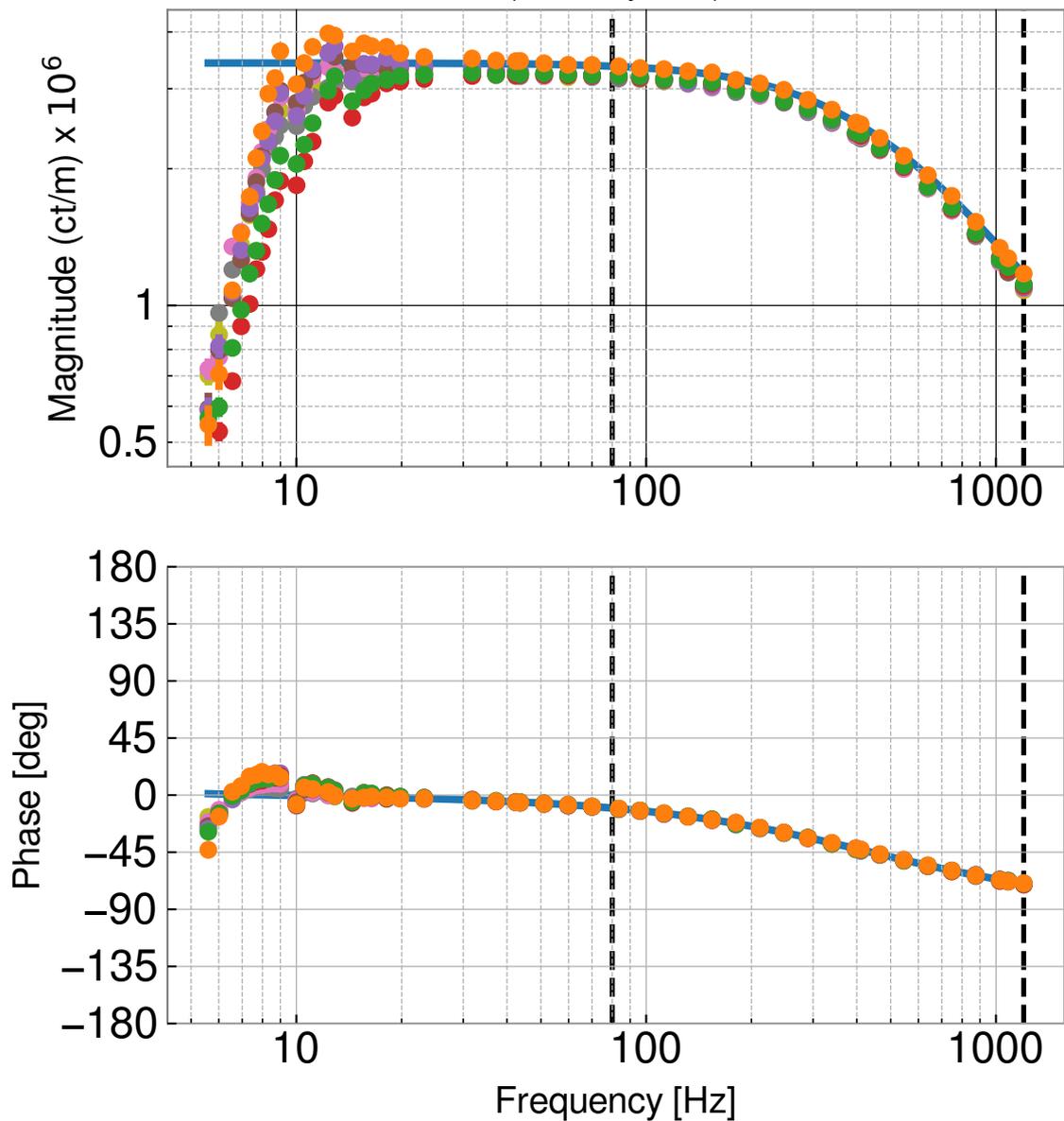
Parameter	(value +/-)	value	+	-
Optical gain, H_c (ct/m)		3.418e+06	3016 (0.09%)	3345 (0.10%)
Cavity_pole, f_cc (Hz)		437.5	0.9057 (0.21%)	0.868 (0.20%)
Detuned SRC spring frequency, f_s (Hz)		0.01365	1.837 (13456.62%)	1.335 (9773.76%)
Detuned SRC spring quality factor, Q_s		-0.07729	15.76 (-20393.58%)	17.08 (-22103.17%)
Residual time delay, tau_c (s)		-7.861e-07	3.391e-07 (-43.13%)	3.35e-07 (-42.62%)

H1 sensing model history

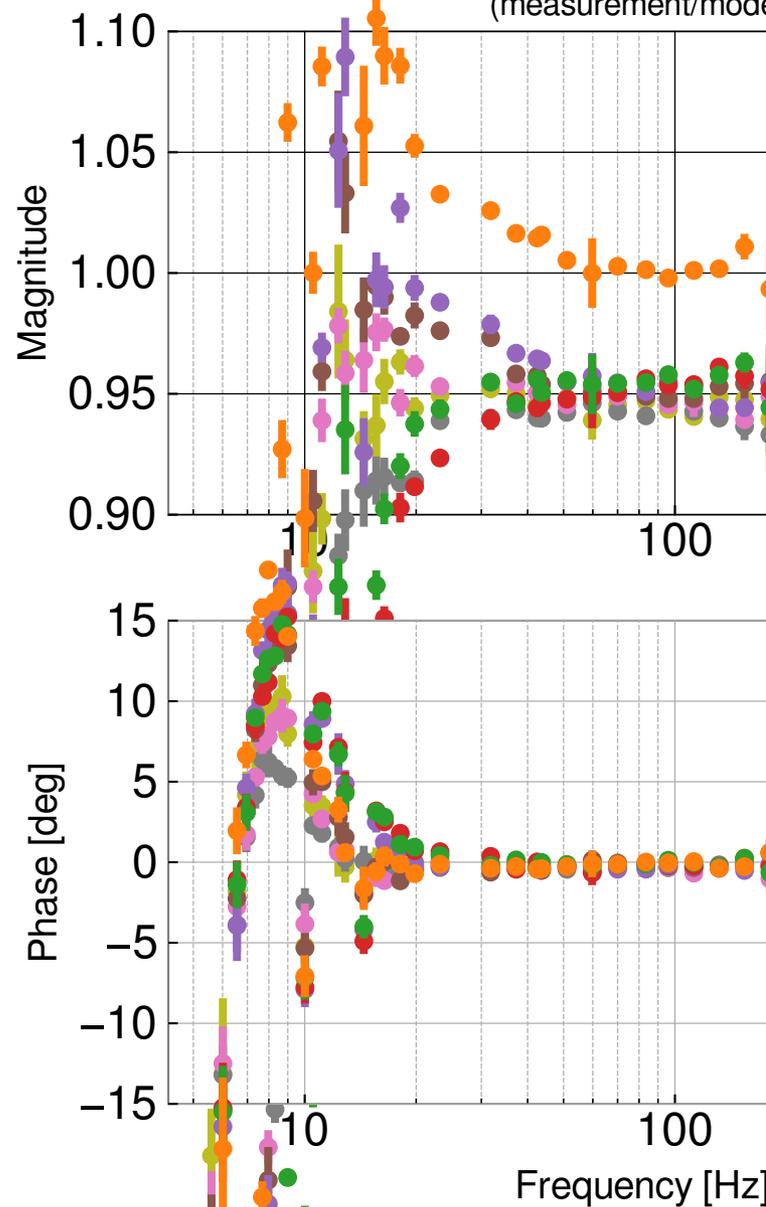
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230621T191615Z/pydarm_H1.ini



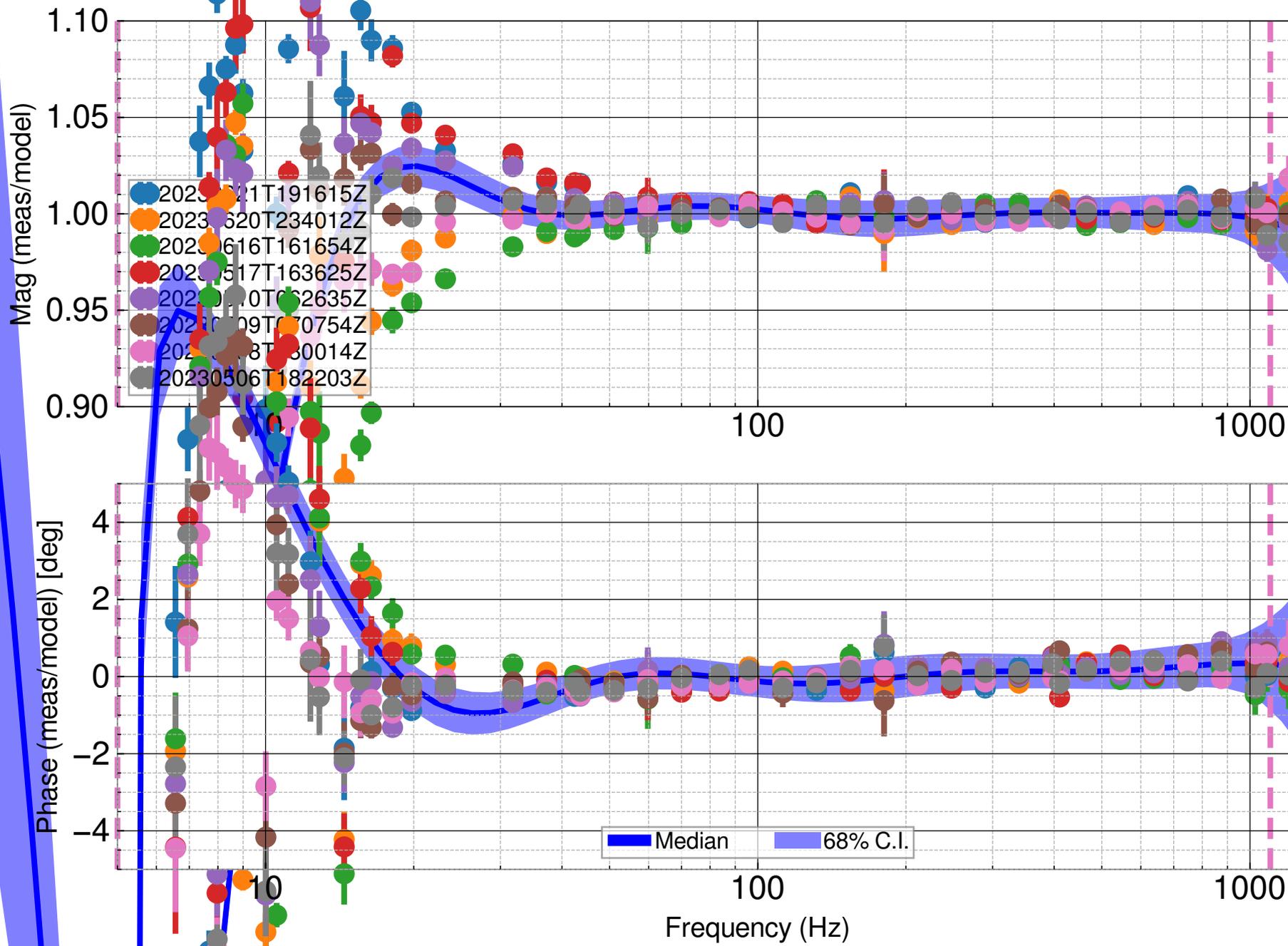
Optical response transfer functions
(scaled by $1/C_R$)



Optical response residuals
(measurement/model)



Sensing GPR

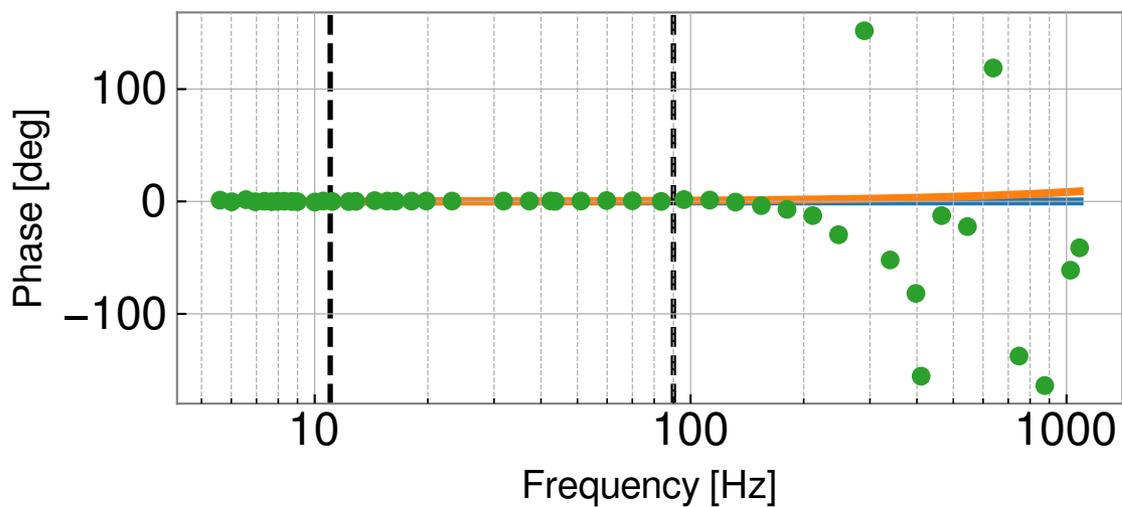
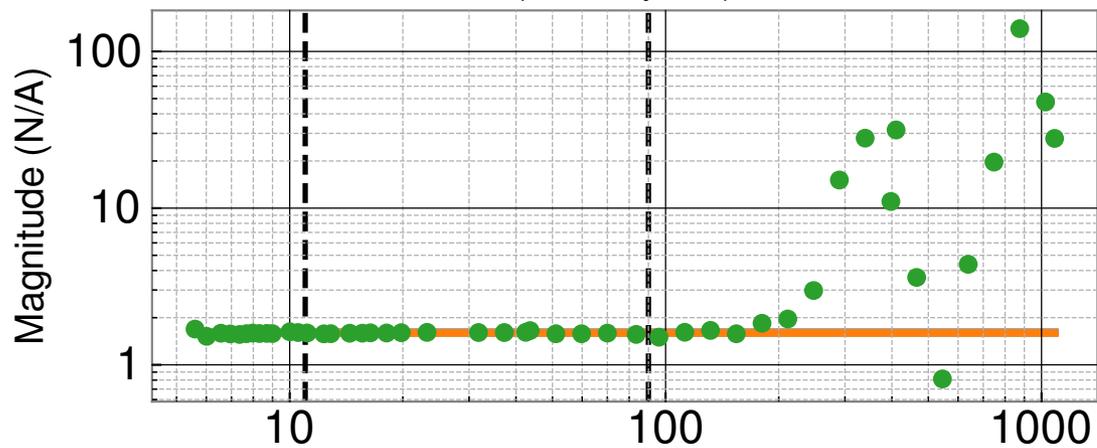


H1SUSEX L1 actuation model MCMC summary

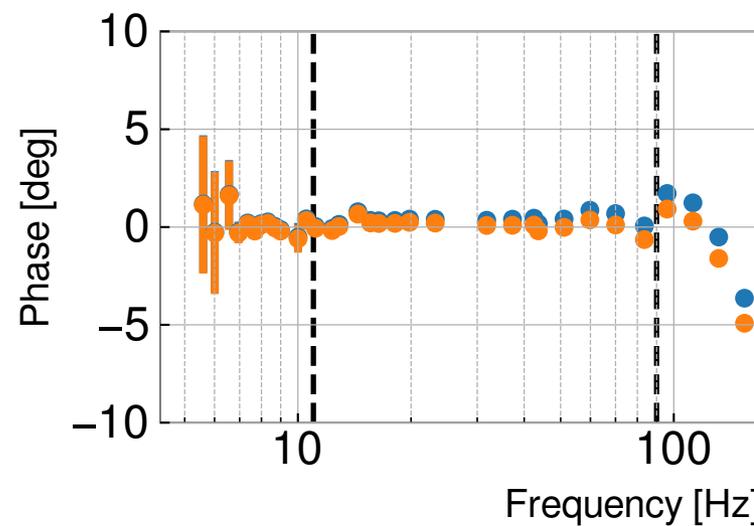
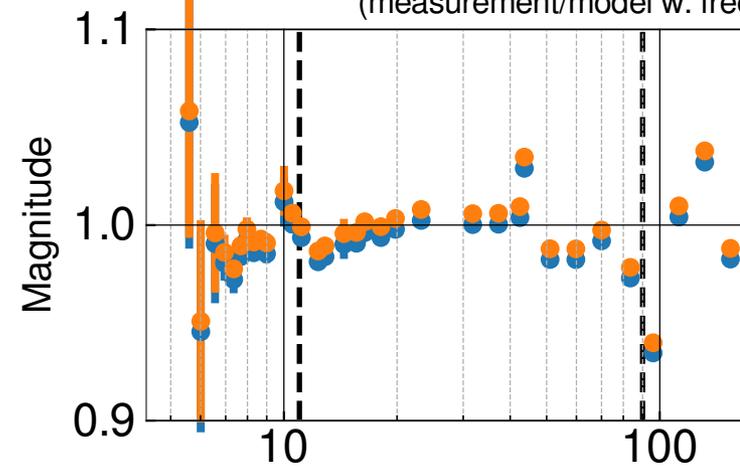
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230621T191615Z/pydarm_H1.ini



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

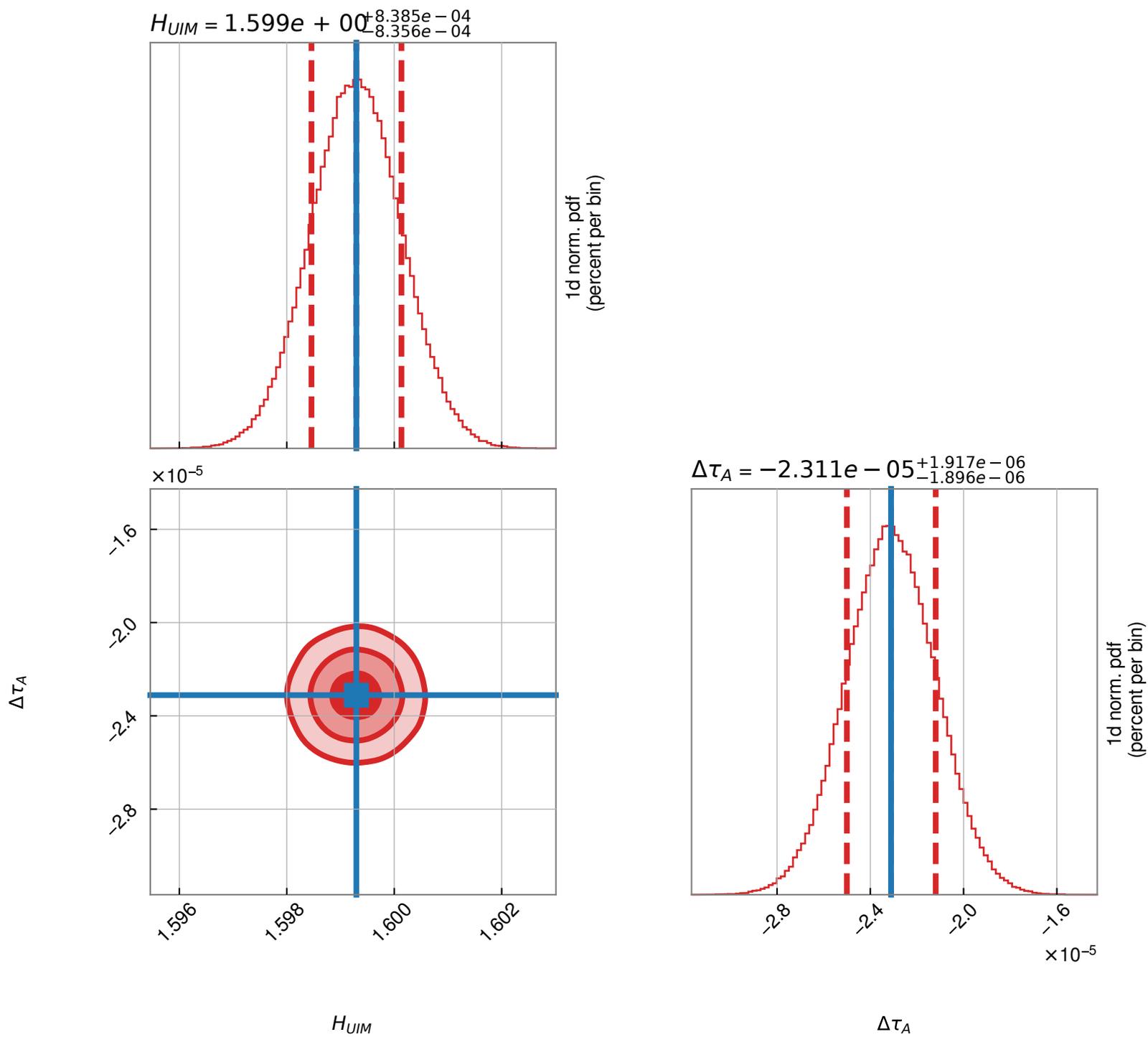
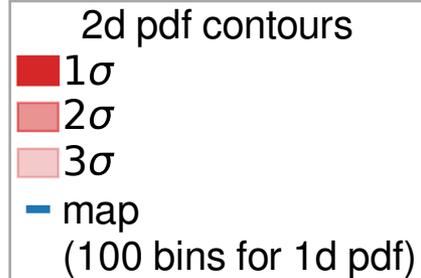


Actuation strength residuals
(measurement/model w. free params)



Parameter	(value +/-)	value	+	-
Actuation Gain, Hau (N/A)		1.599	0.0008385 (0.05%)	0.0008356 (0.05%)
Residual time delay, tau_A (s)		-2.311e-05	1.917e-06 (-8.29%)	1.896e-06 (-8.20%)

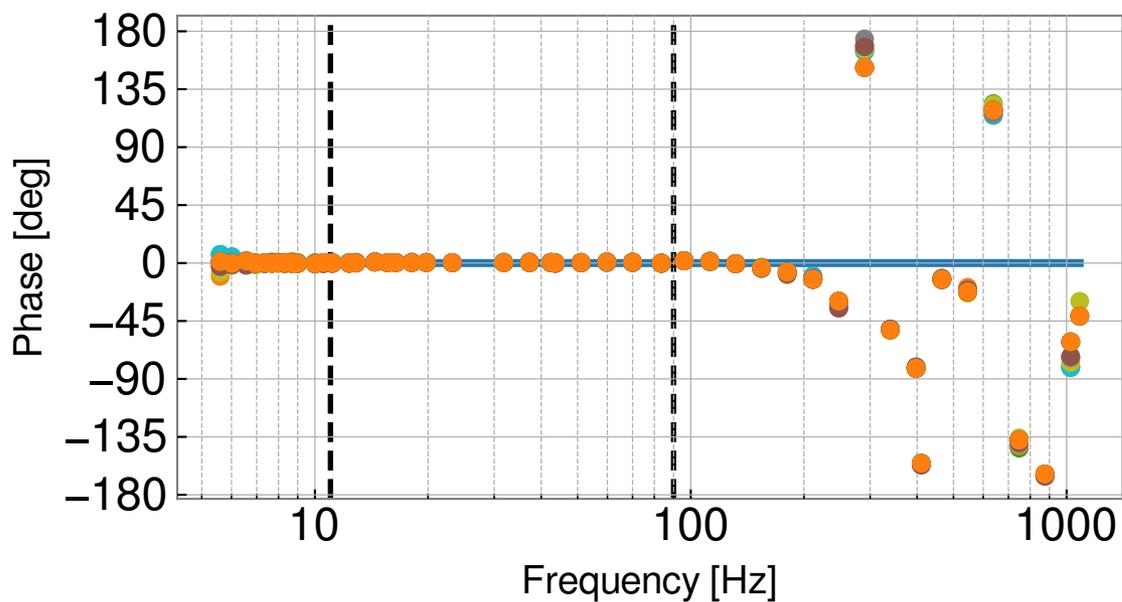
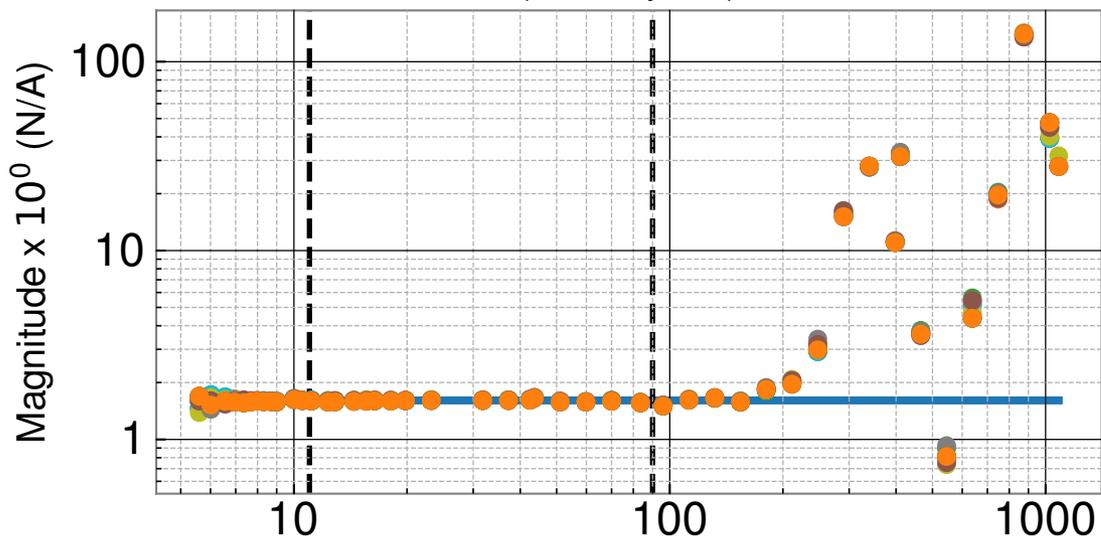
20230517T154837Z EX L1 actuation MCMC corner plot



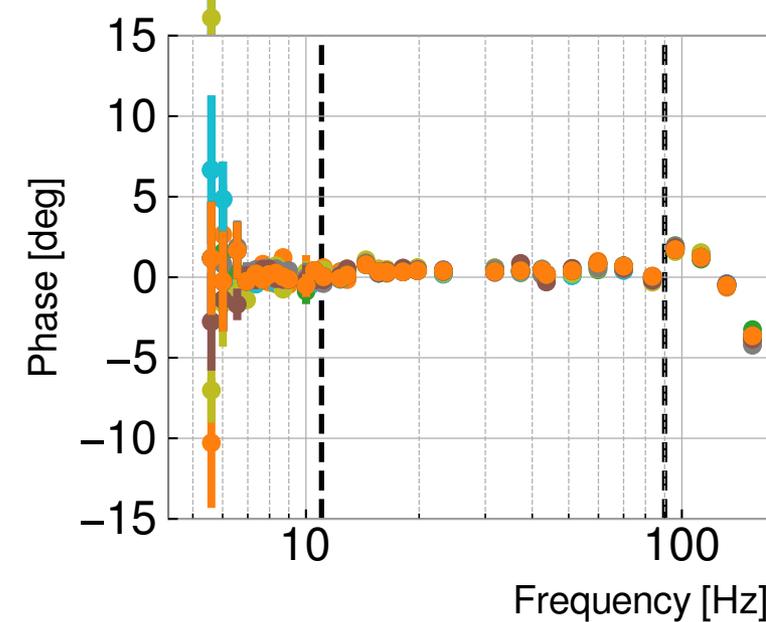
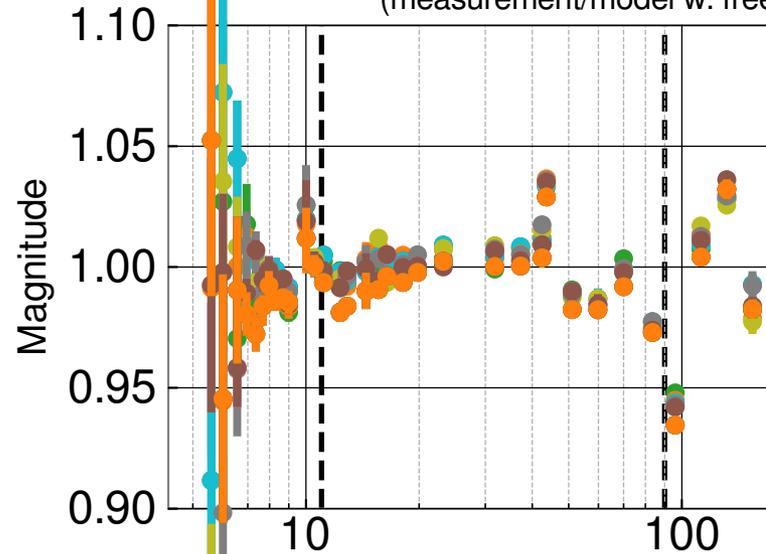
H1 SUSEX L1 actuation model history

- All fixed parameters drawn from `/ligo/groups/cal/h1/reports/20230621T191615Z/pydarm_h1.ini`
- 20230510T062635Z model
 - 20230517T154837Z measurement
 - 20230509T062006Z measurement
 - 20230508T171226Z measurement
 - 20230506T173415Z measurement
 - 20230505T165823Z measurement
 - 20230505T165823Z measurement
 - 20230505T000000Z measurement
 - 20230504T090000Z measurement
 - MCMC Fit Range

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

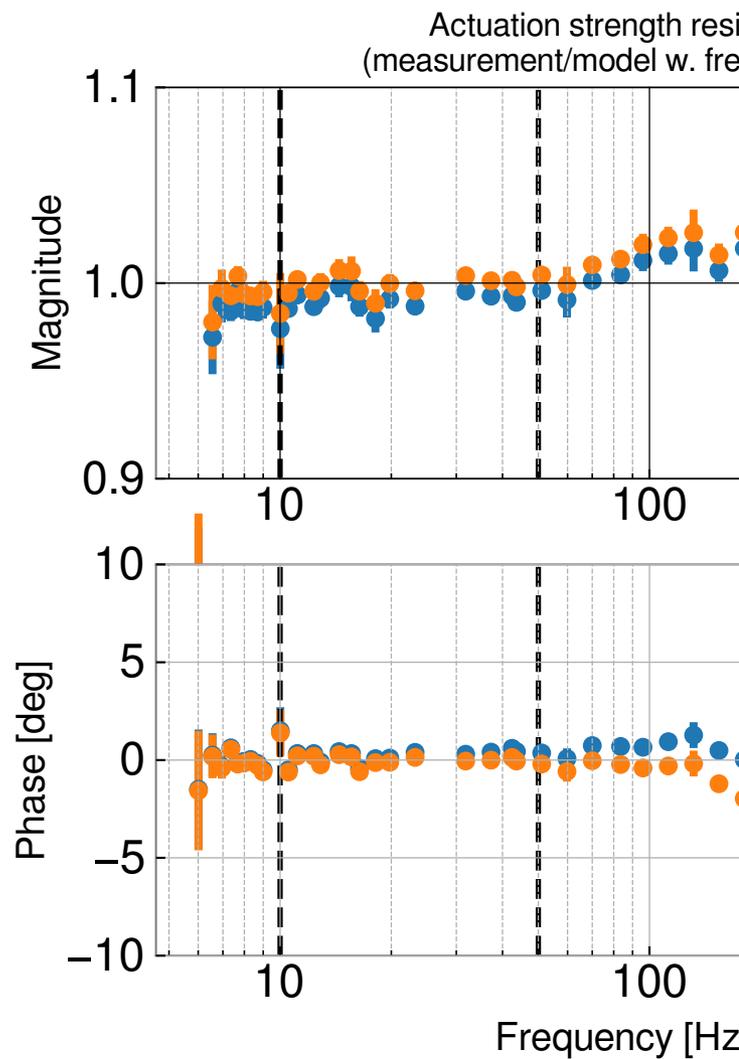
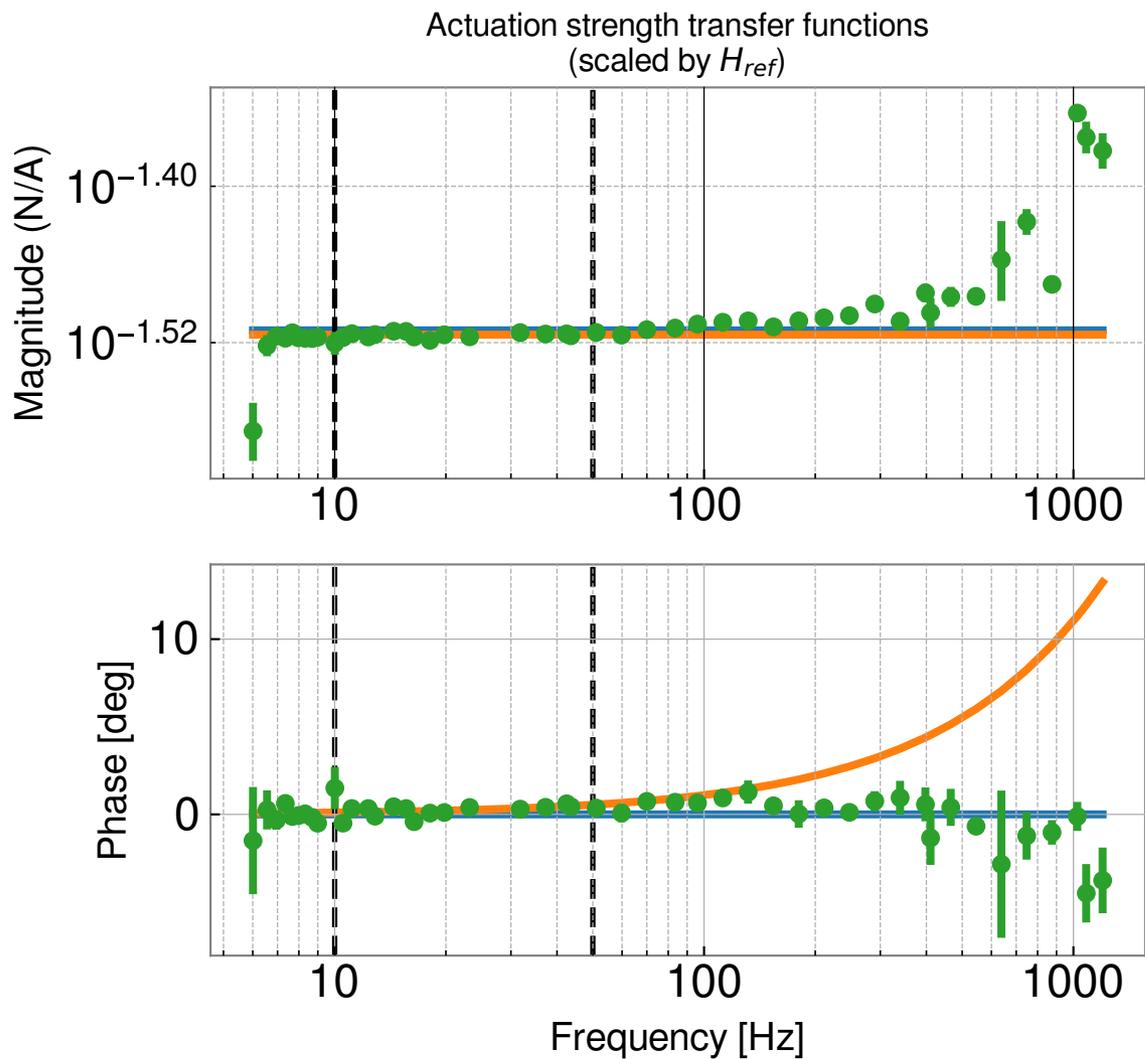


Actuation strength residuals
(measurement/model w. free parameters)



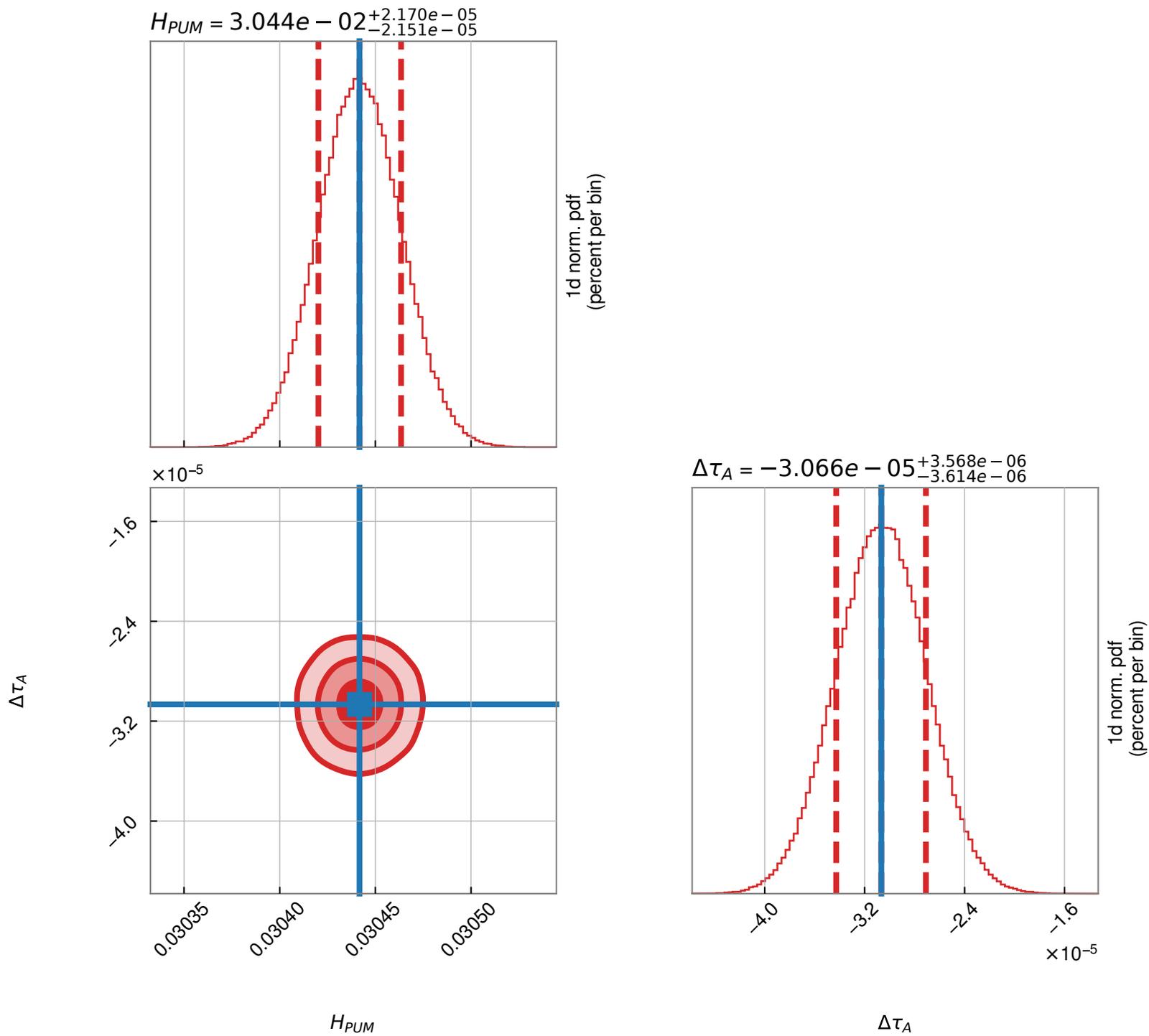
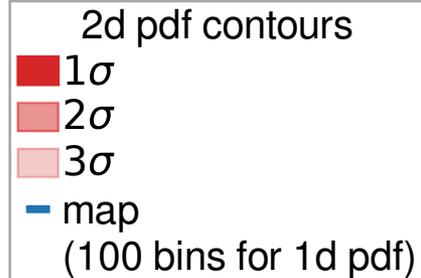
H1 SUSEX L2 actuation model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230621T191615Z/pydarm_H1.ini

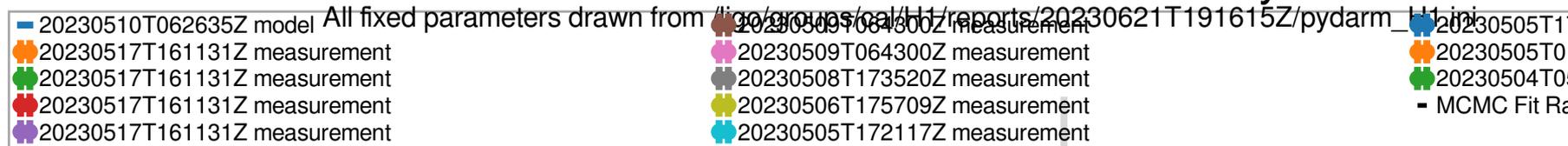


Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.03044	2.17e-05 (0.07%)	2.151e-05 (0.07%)
Residual time delay, tau_A (s)	-3.066e-05	3.568e-06 (-11.64%)	3.614e-06 (-11.79%)

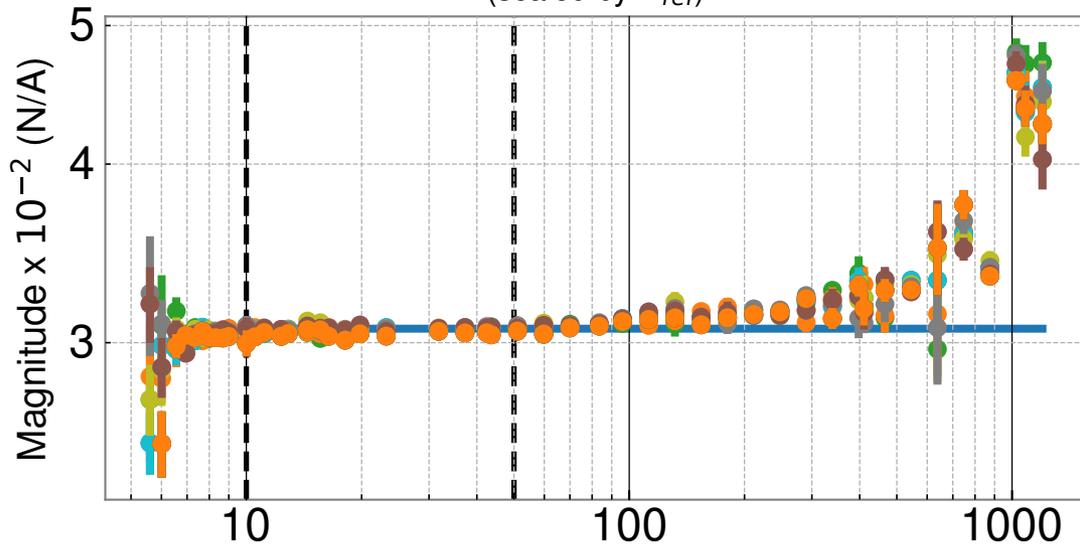
20230517T161131Z EX L2 actuation MCMC corner plot



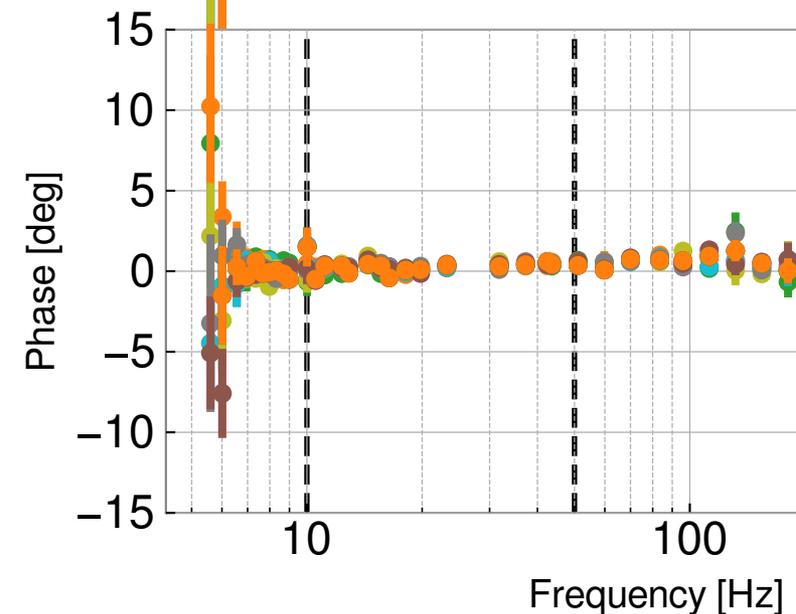
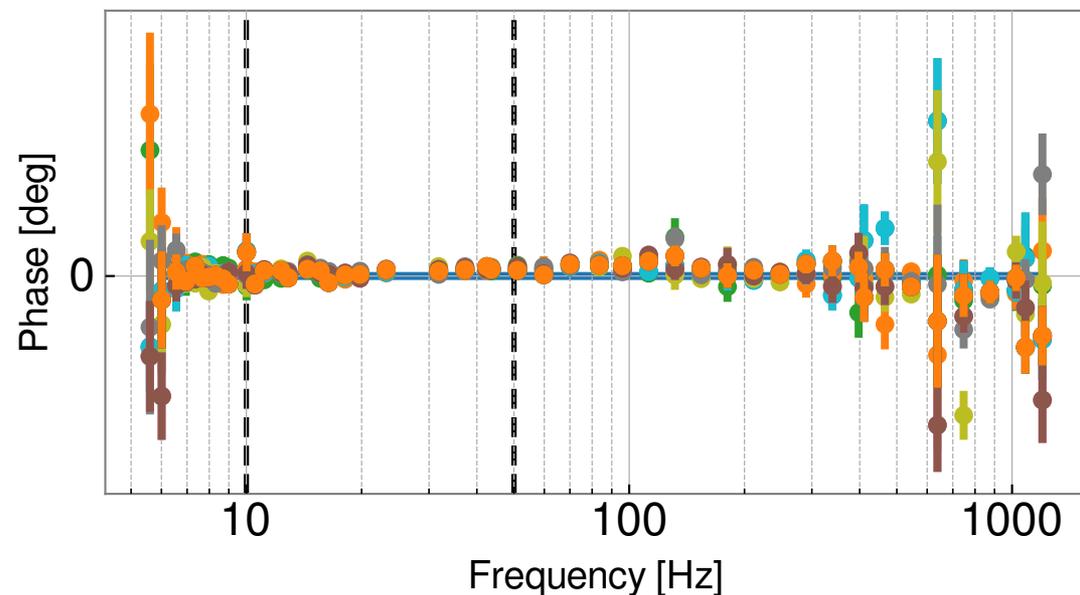
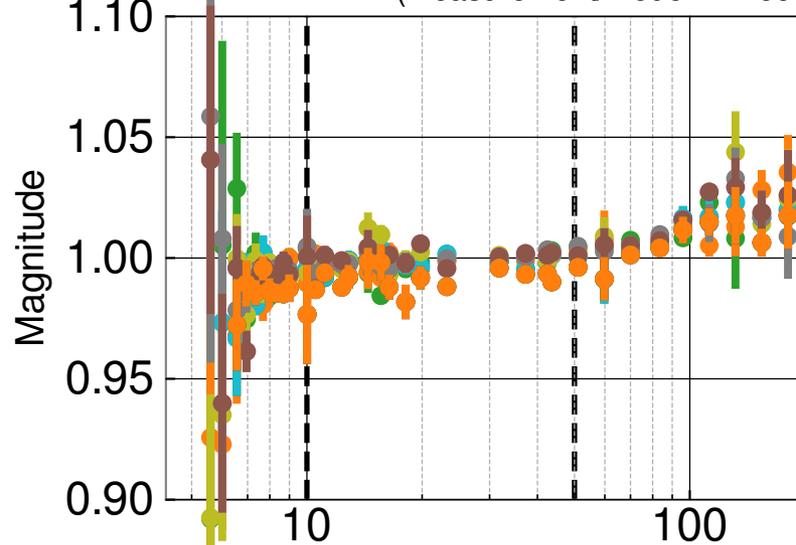
H1 SUSEX L2 actuation model history



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

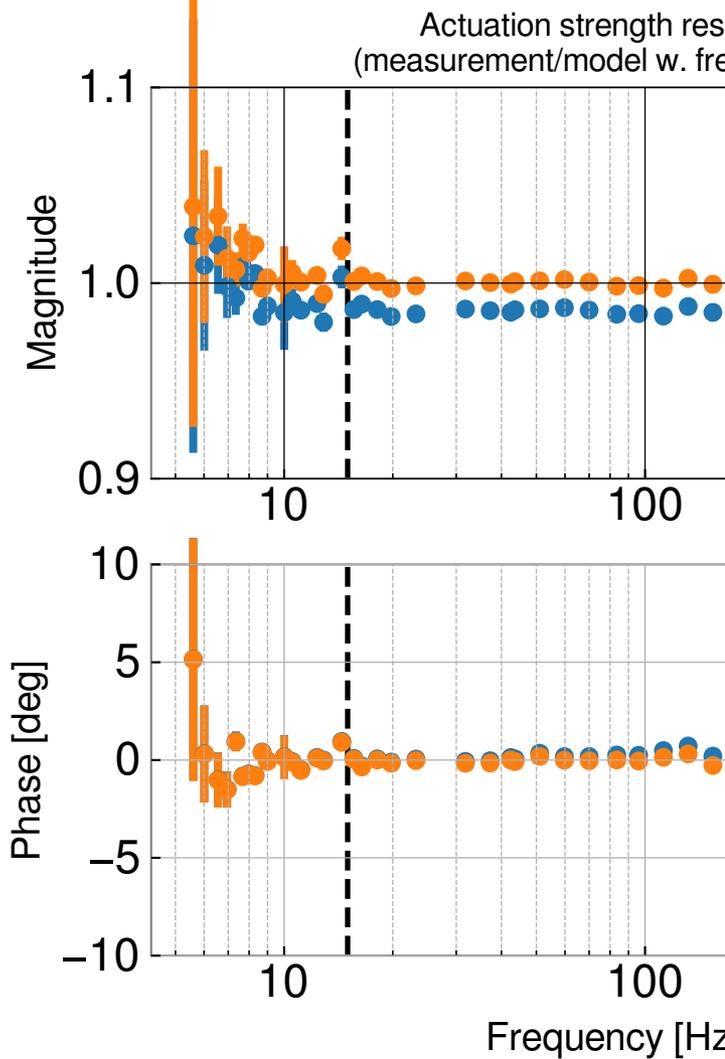
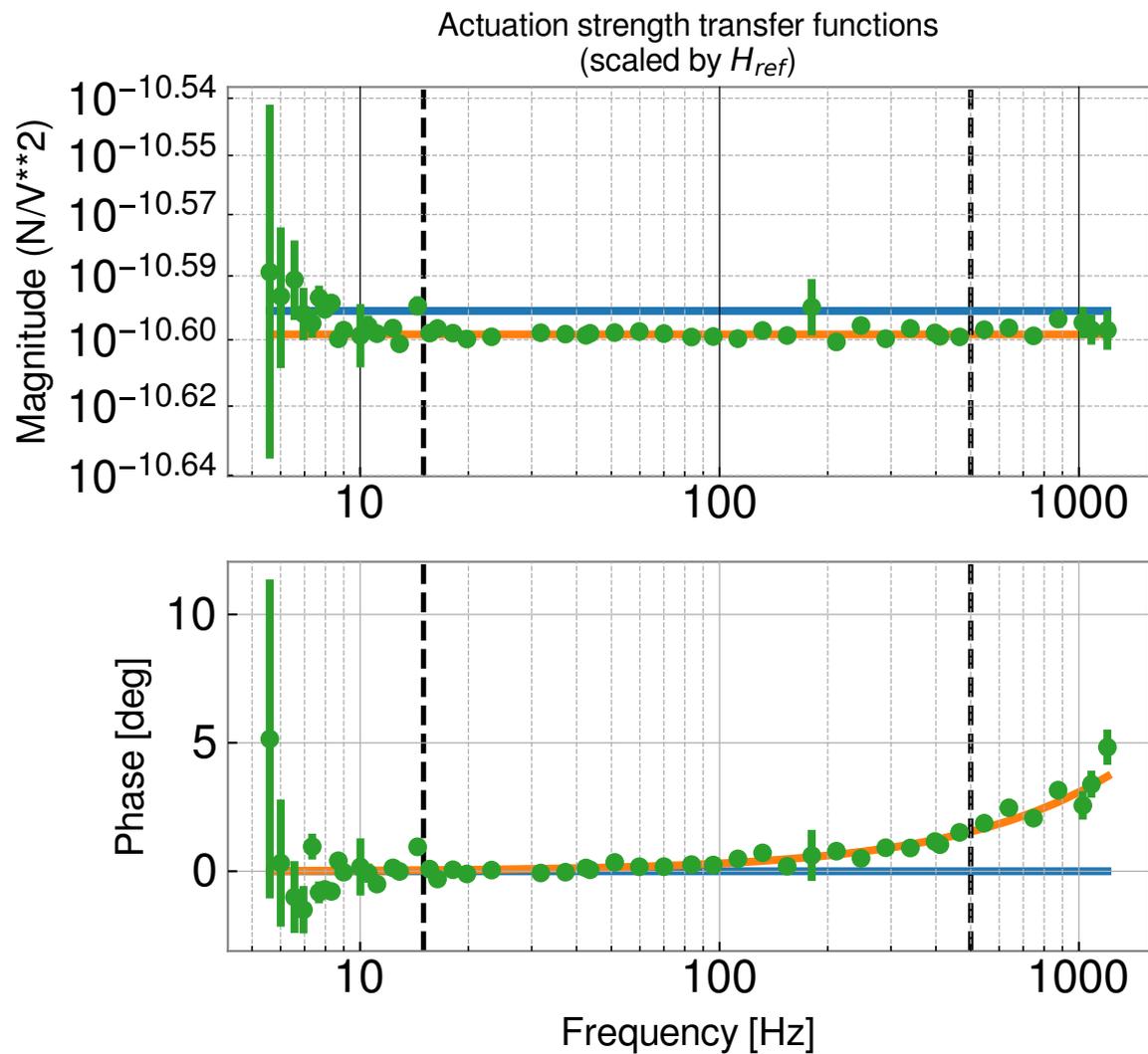


Actuation strength residuals
(measurement/model w. free parameters)



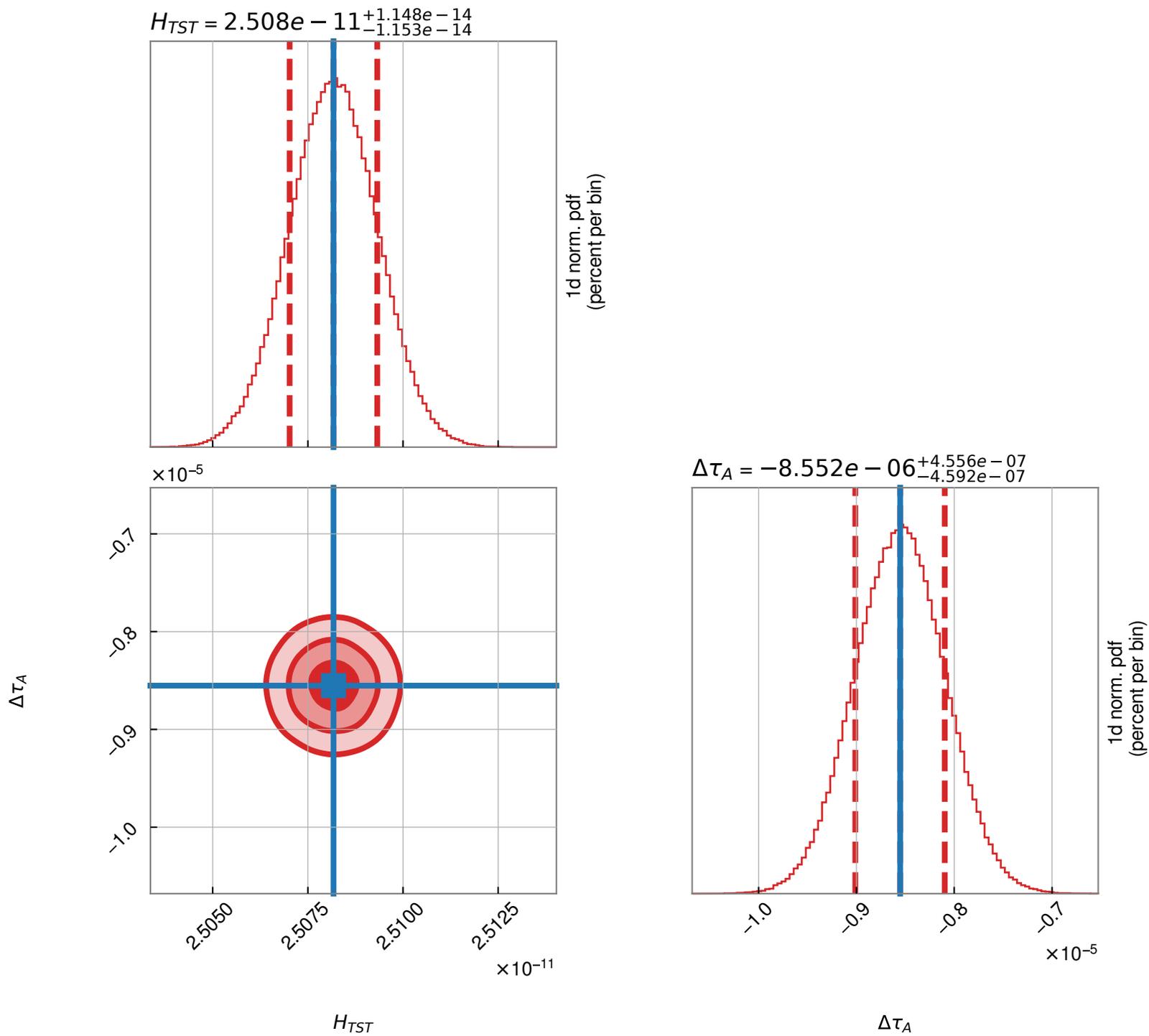
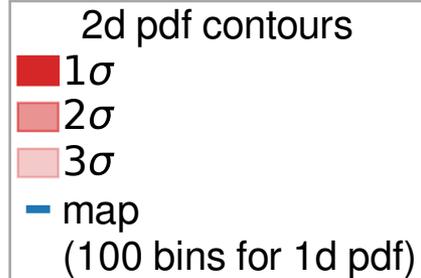
H1SUSEX L3 actuation model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230621T191615Z/pydarm_H1.ini



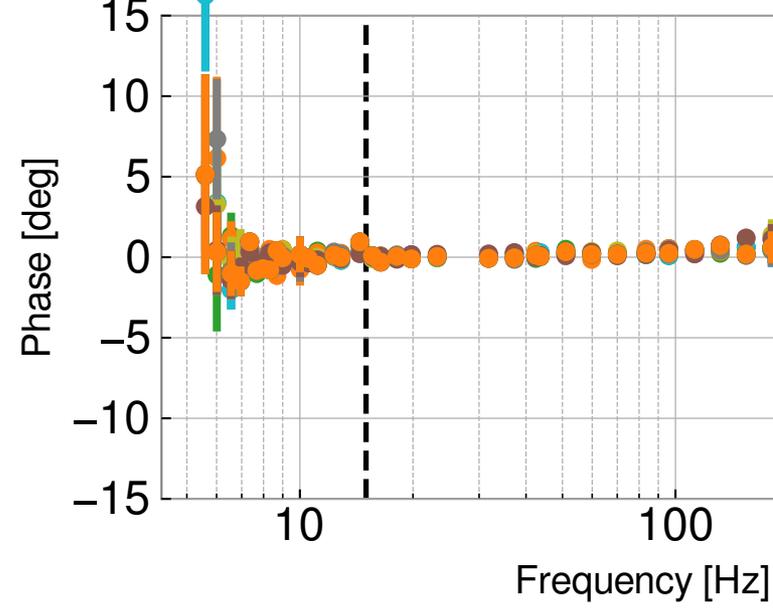
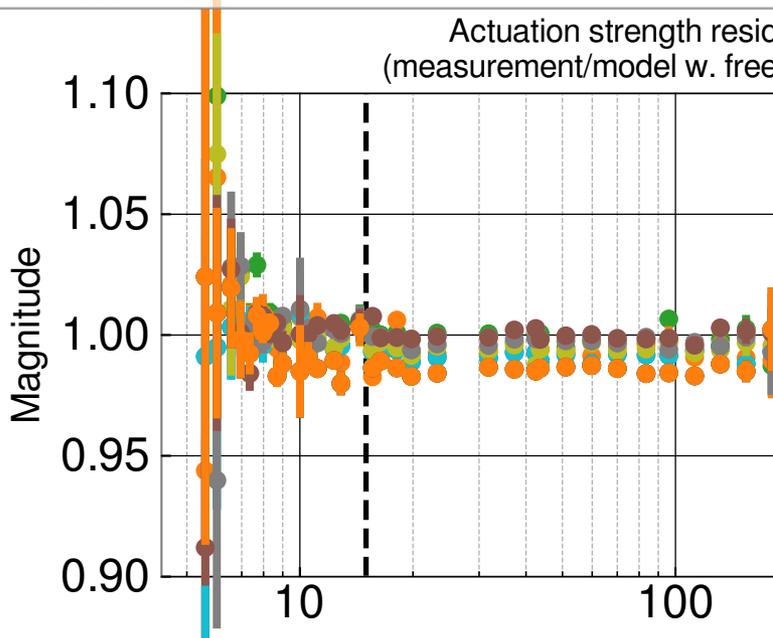
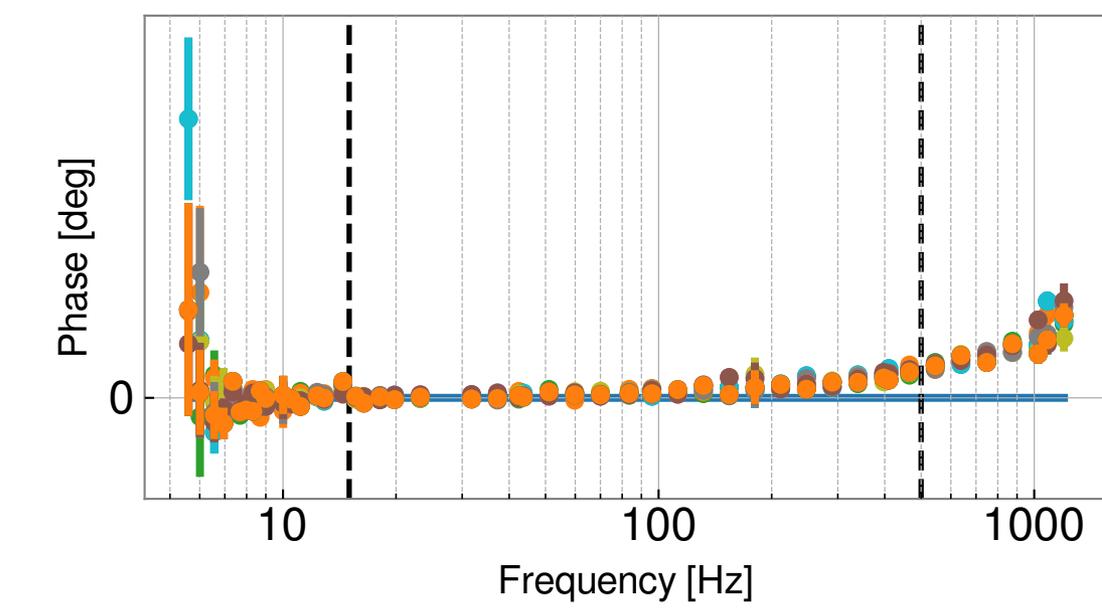
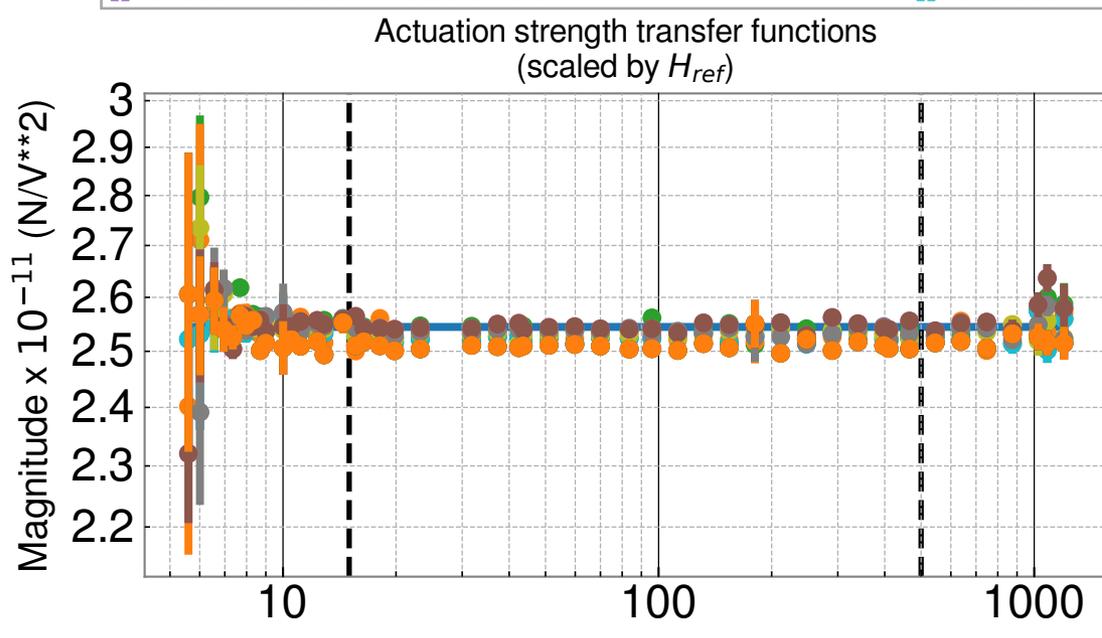
Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V**2)	2.508e-11	1.148e-14 (0.05%)	1.153e-14 (0.05%)
Residual time delay, tau_A (s)	-8.552e-06	4.556e-07 (-5.33%)	4.592e-07 (-5.37%)

20230517T163635Z EX L3 actuation MCMC corner plot

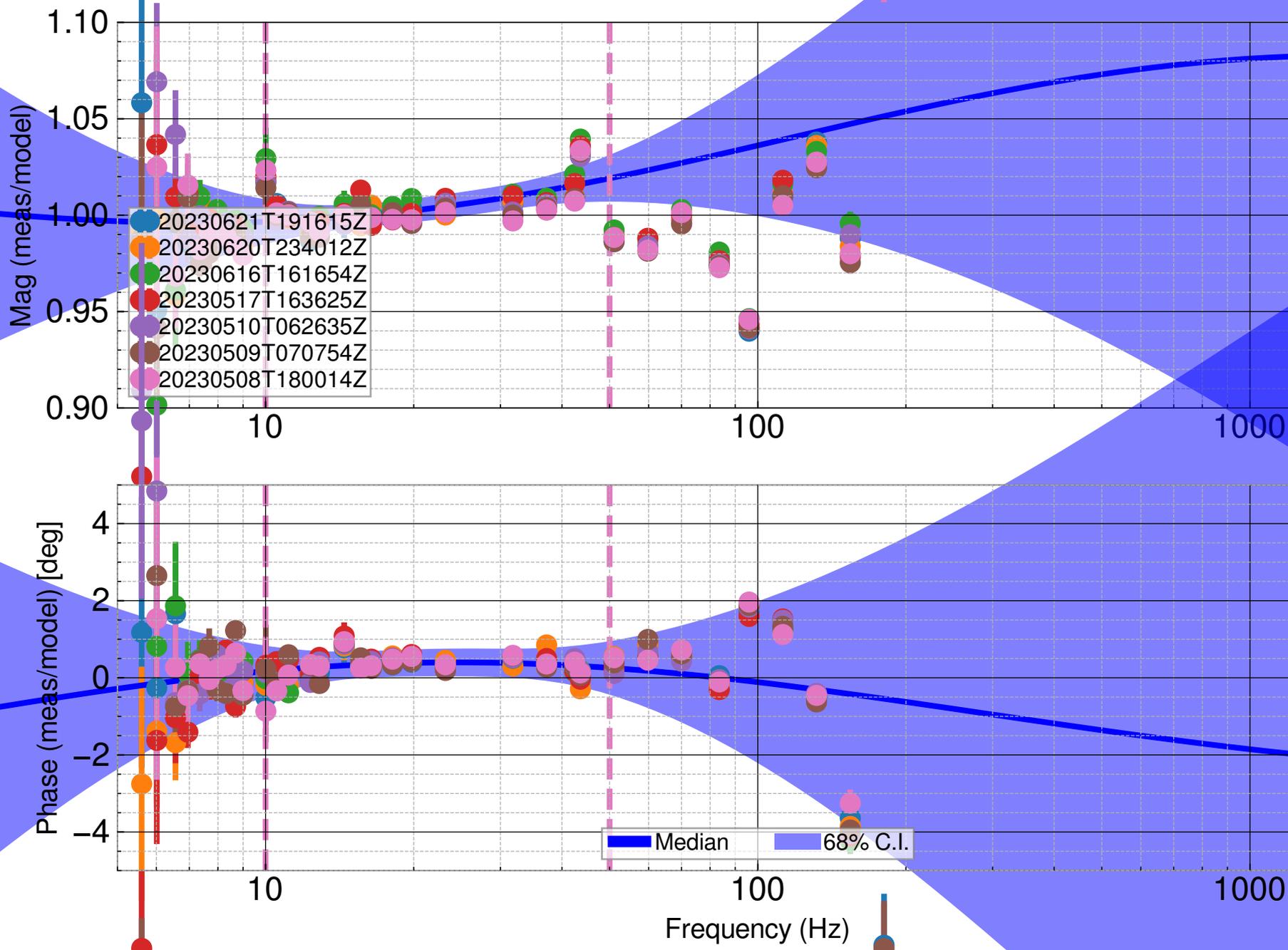


H1 SUSEX L3 actuation model history

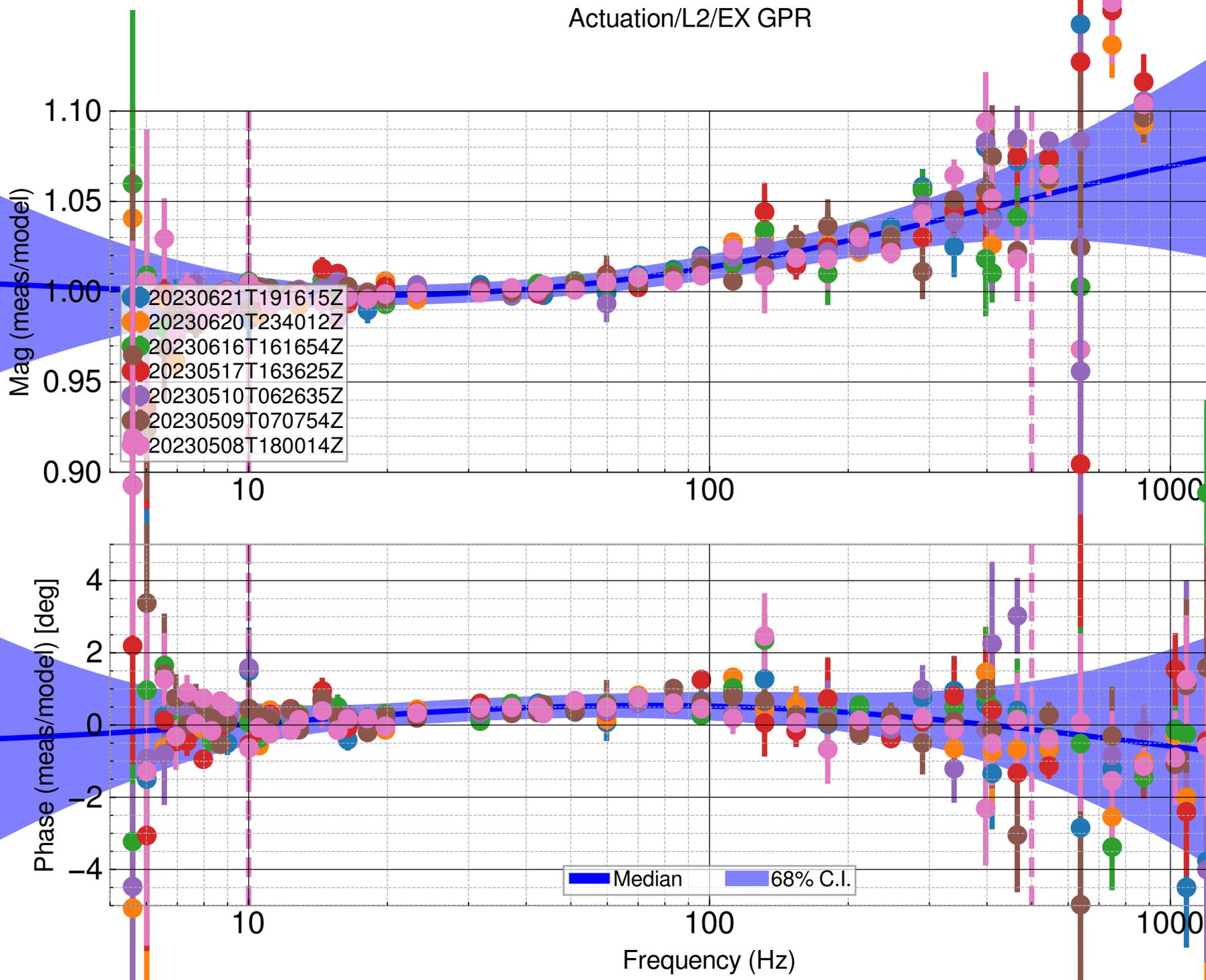
- All fixed parameters drawn from [/ligo/groups/cal/h1/reports/20230621T191615Z/pydarm_h1.ini](#)
- 20230510T062635Z model
 - 20230517T163635Z measurement
 - 20230505T074804Z measurement
 - 20230509T070804Z measurement
 - 20230508T180024Z measurement
 - 20230506T182213Z measurement
 - 20230505T174621Z measurement
 - 20230505T174621Z measurement
 - 20230505T074804Z measurement
 - 20230504T090000Z measurement
 - MCMC Fit Range



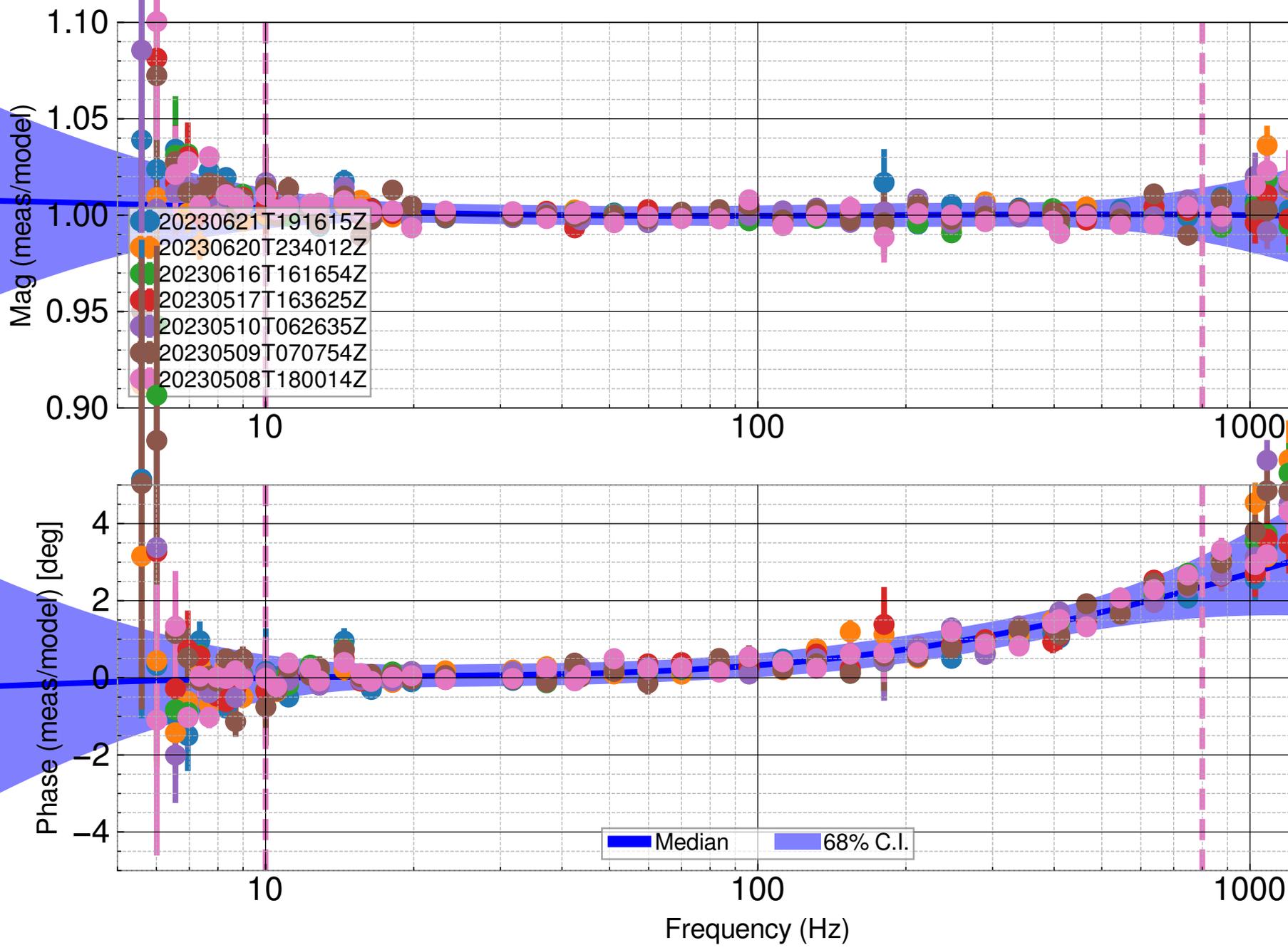
Actuation/L1/EX GPR



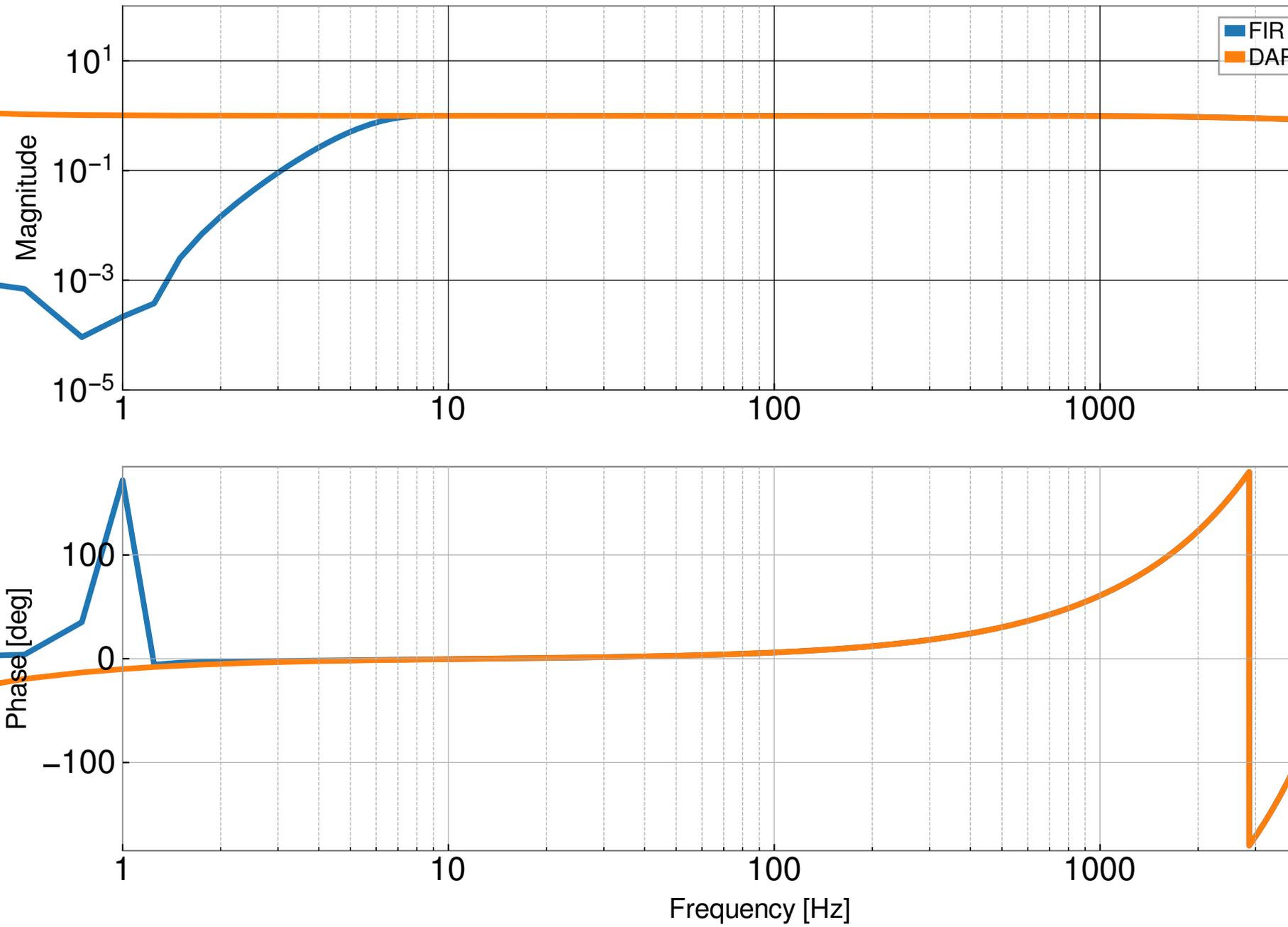
Actuation/L2/EX GPR



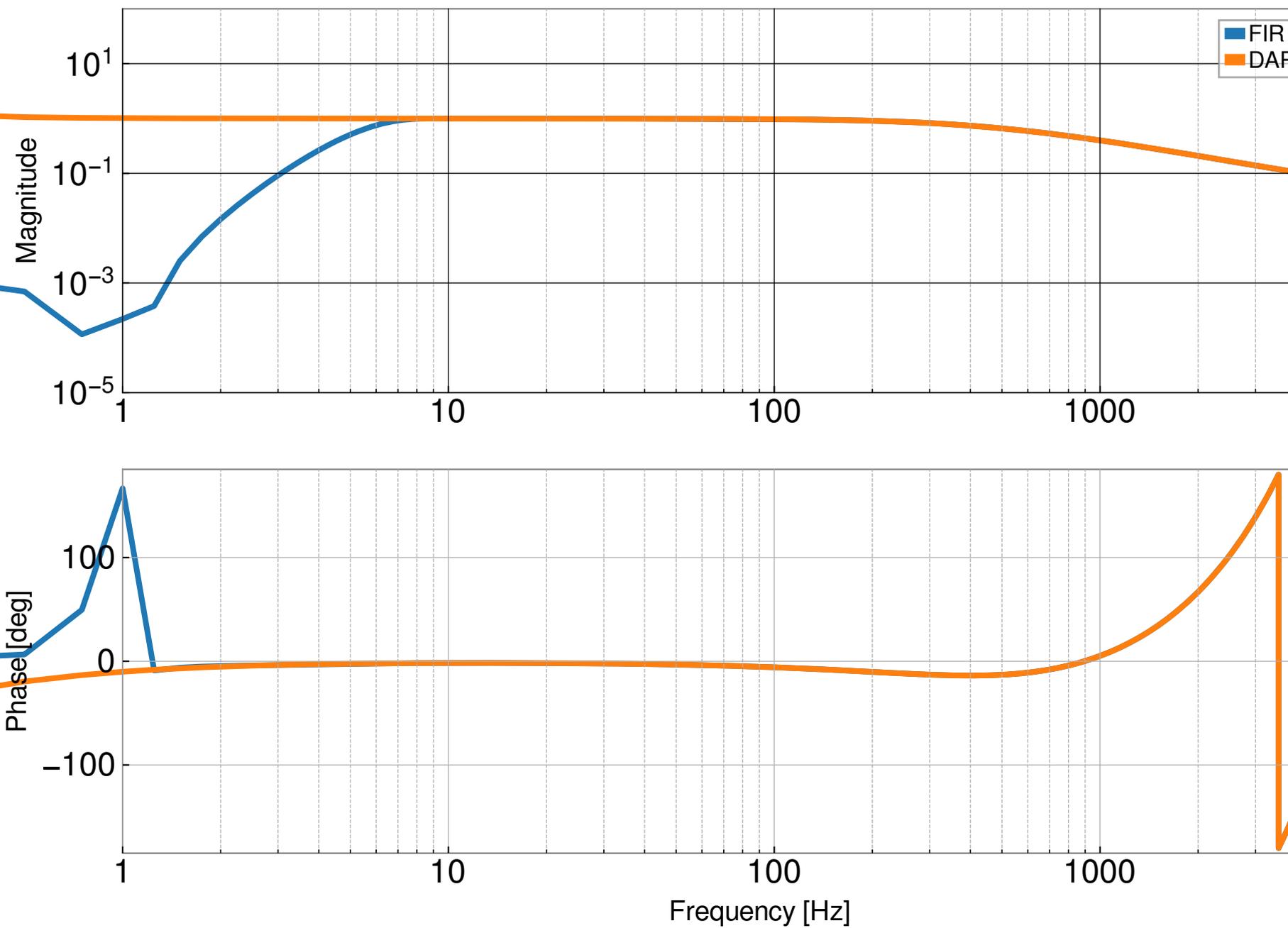
Actuation/L3/EX GPR



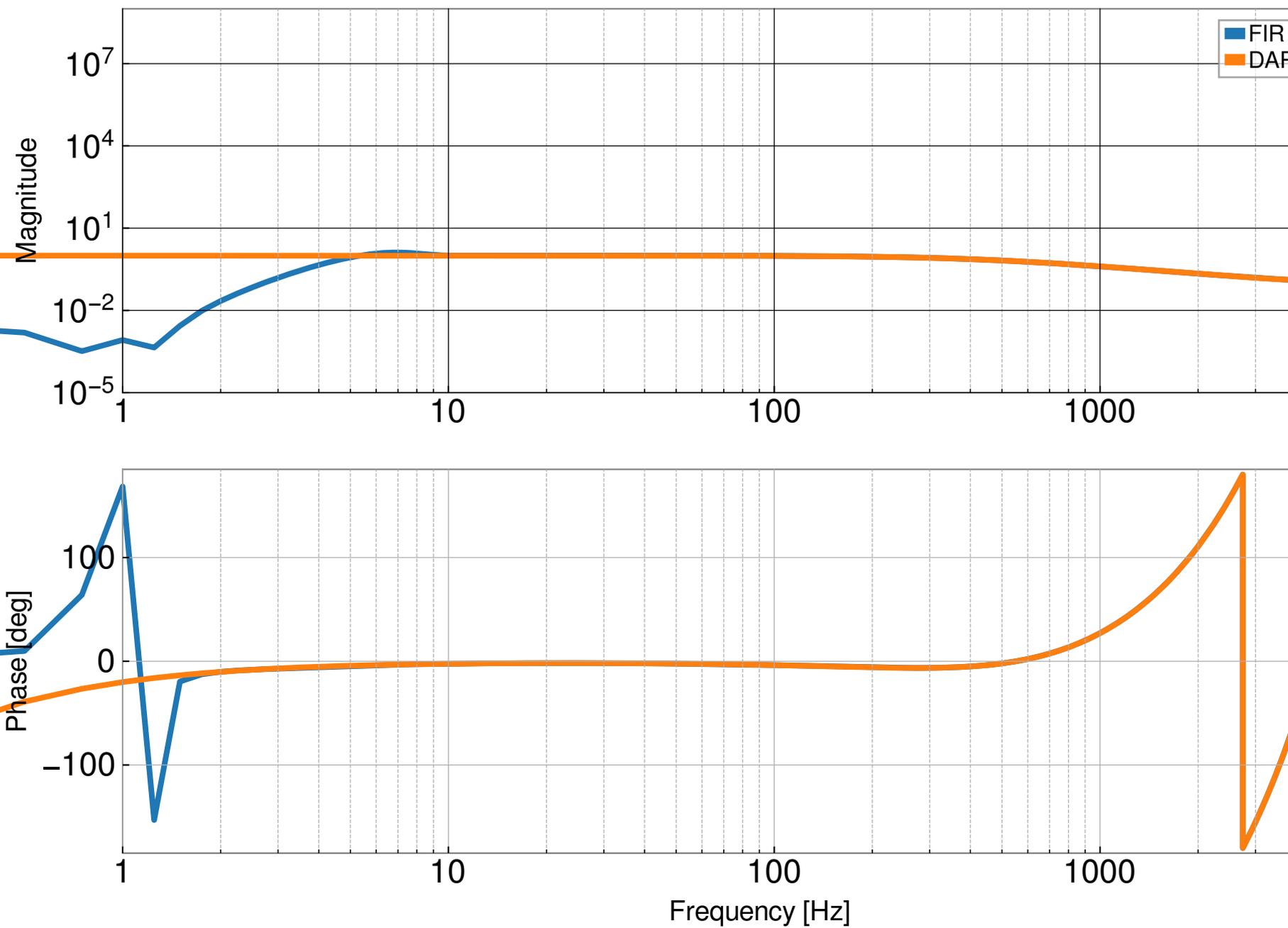
Residual corrections comparison (gstlal_compute_strain_C00_filters_H1)



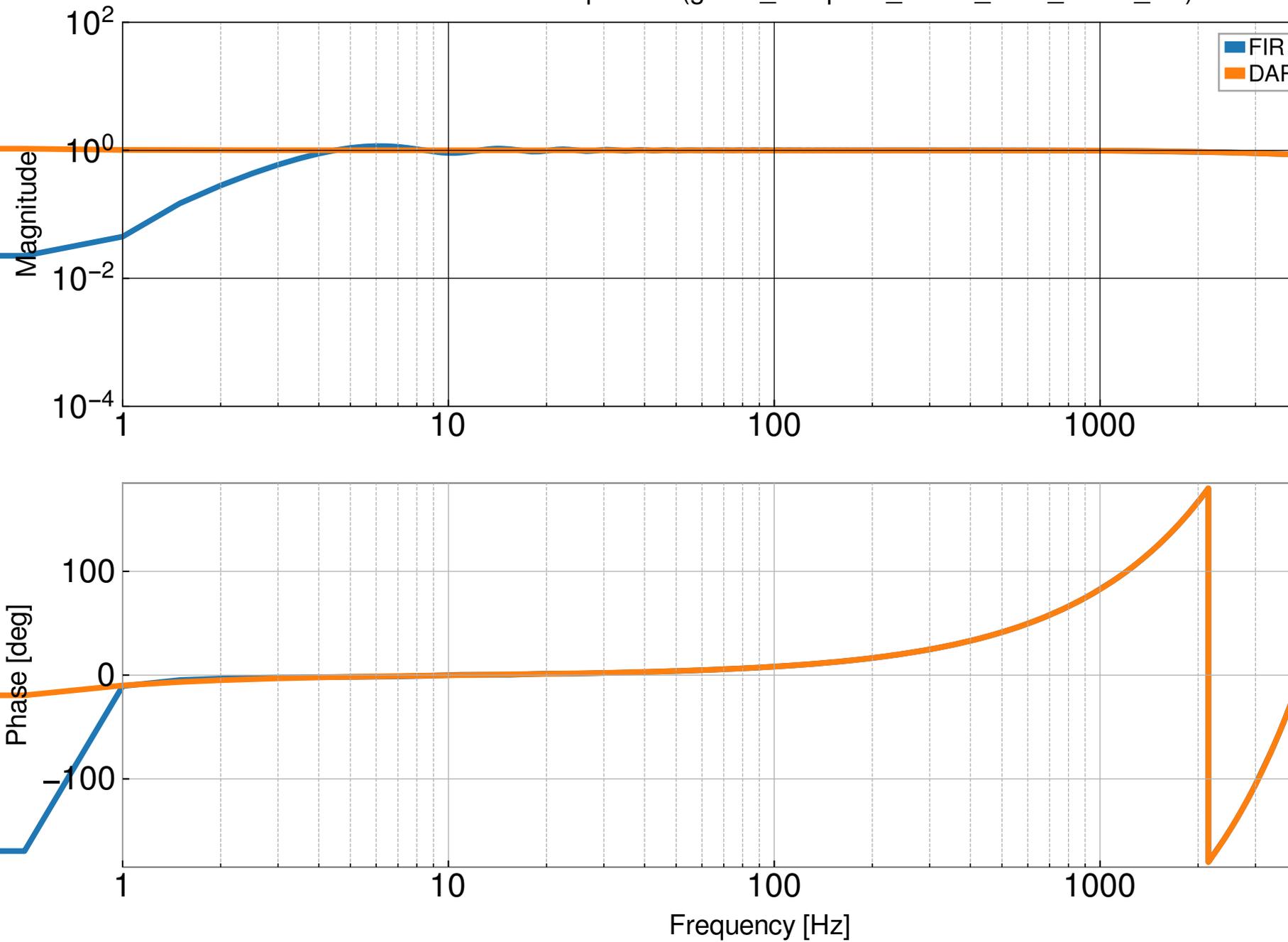
Res Corr No CC Pole comparison (gstlal_compute_strain_C00_filters_H1)



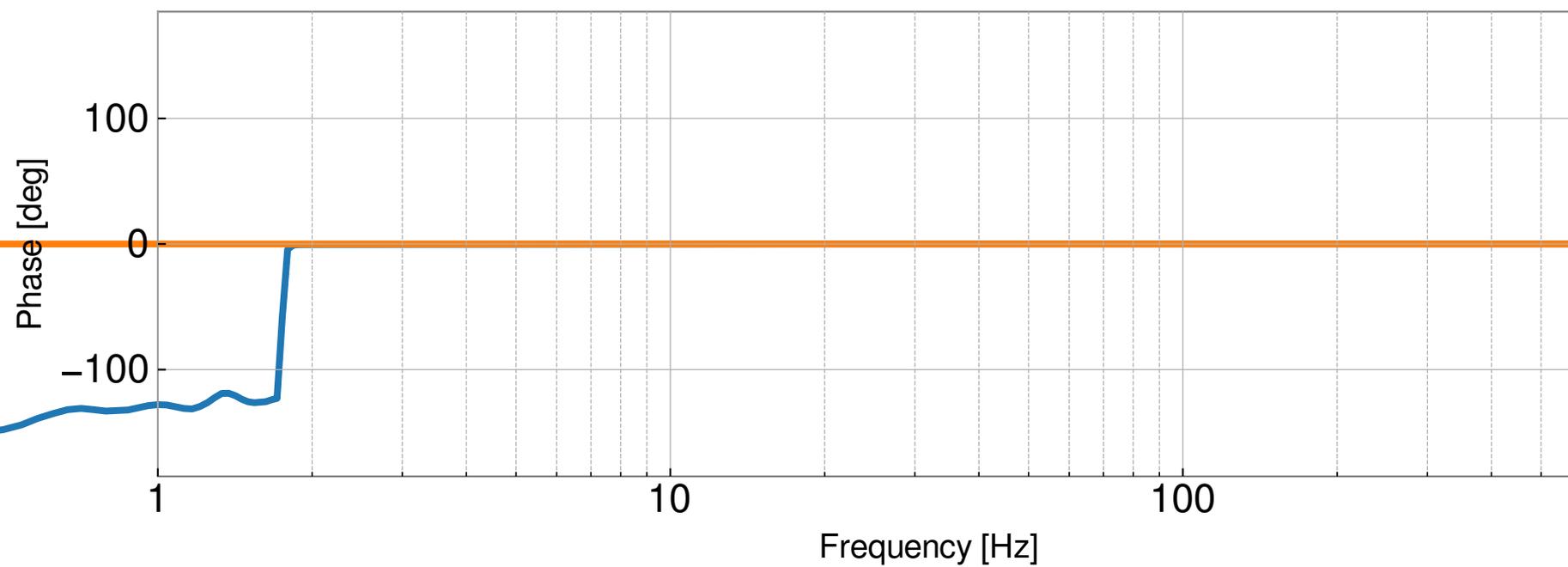
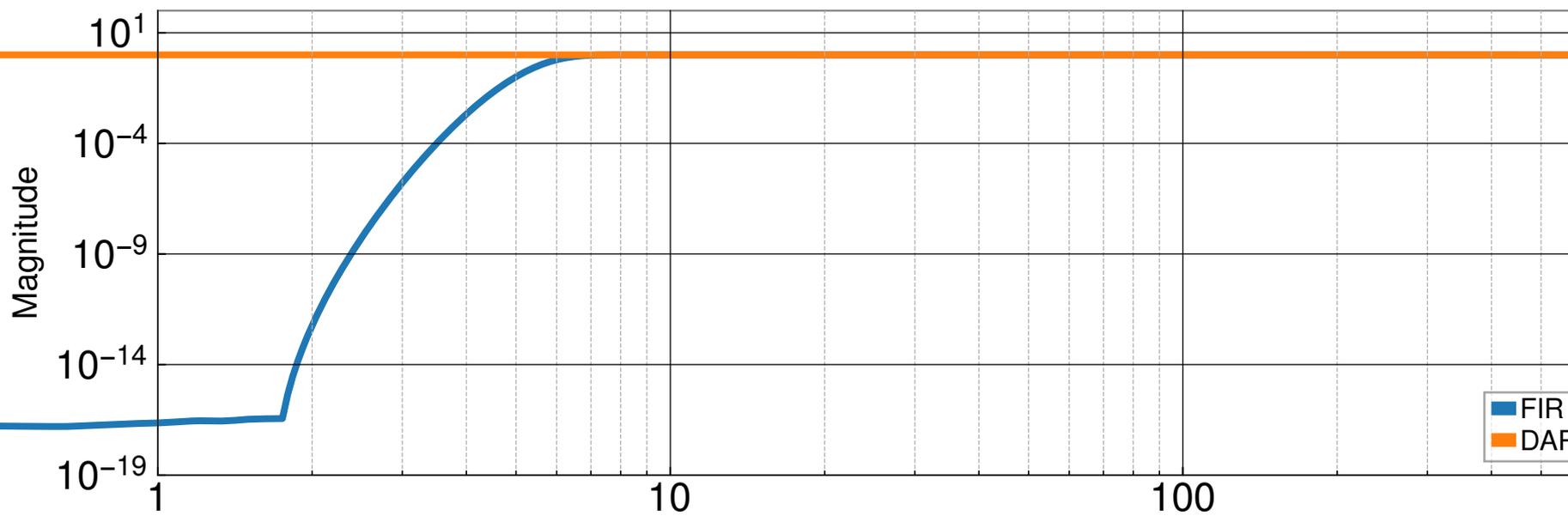
Res Corr No Pole comparison (gstlal_compute_strain_C00_filters_H1)



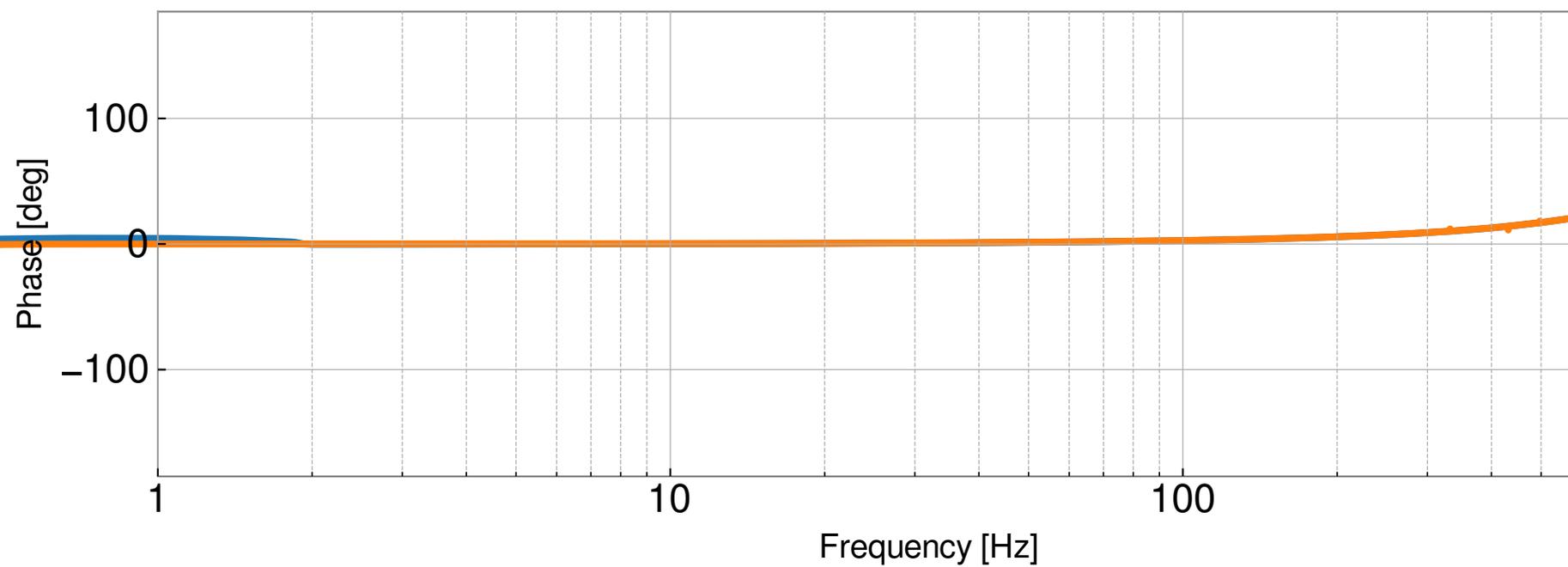
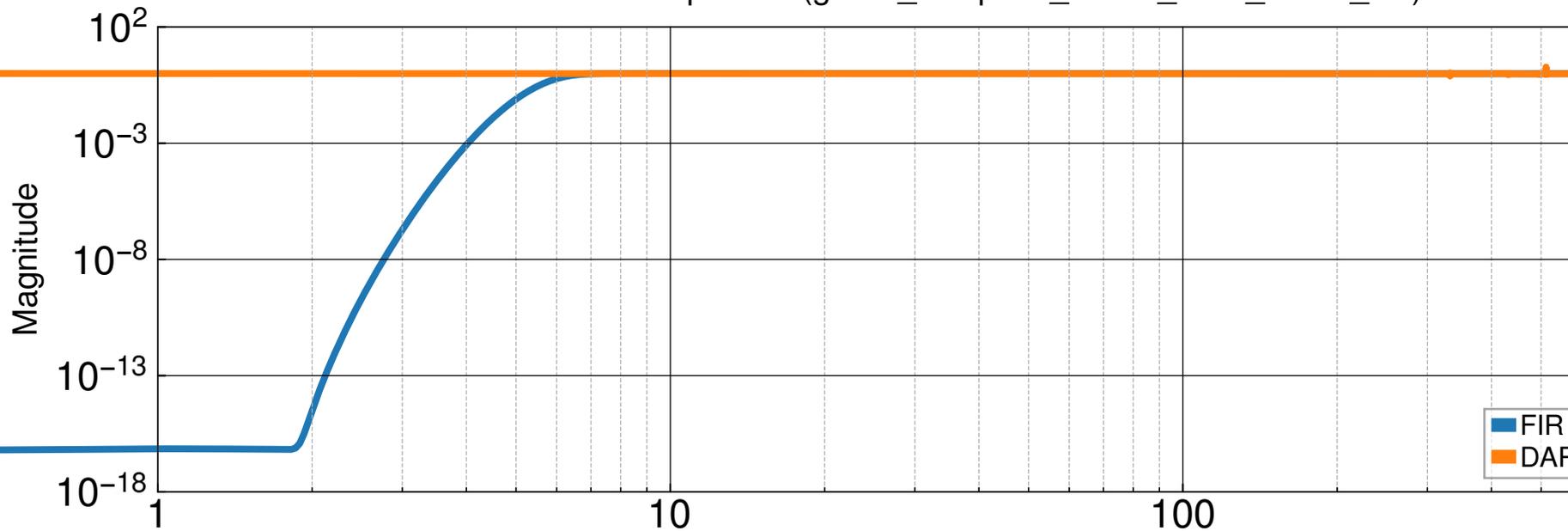
Nonsens corrections comparison (gstlal_compute_strain_C00_filters_H1)



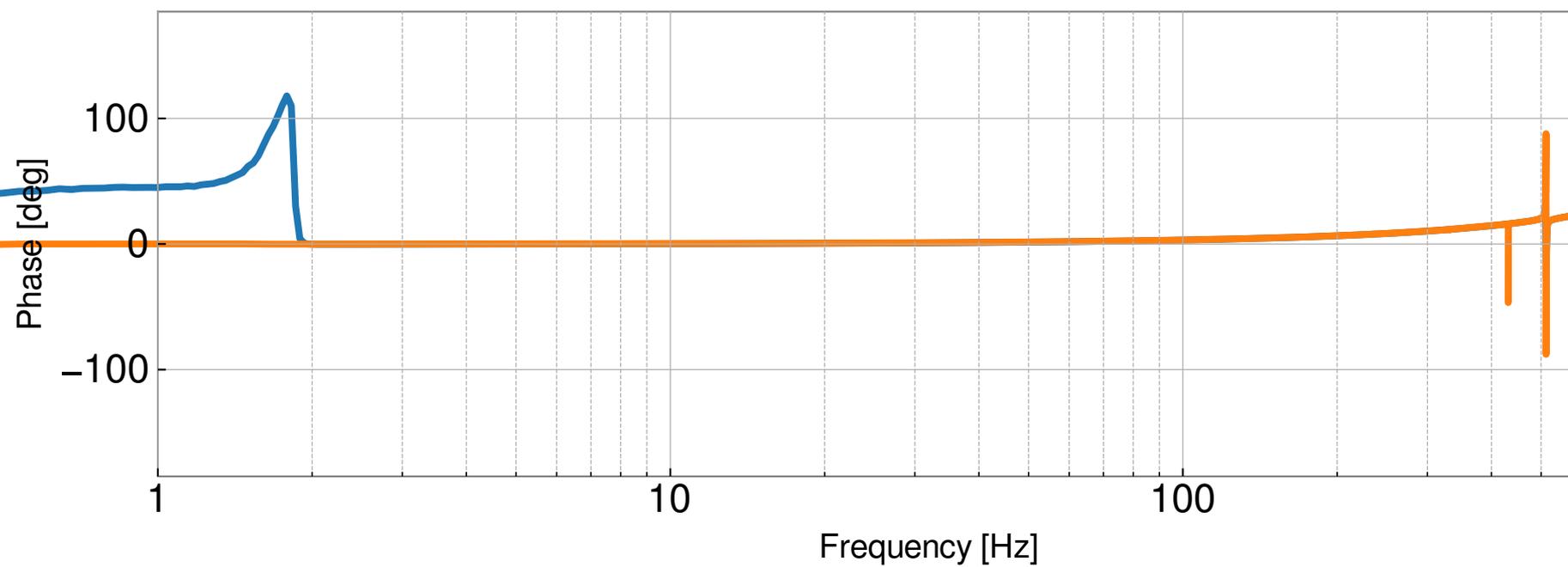
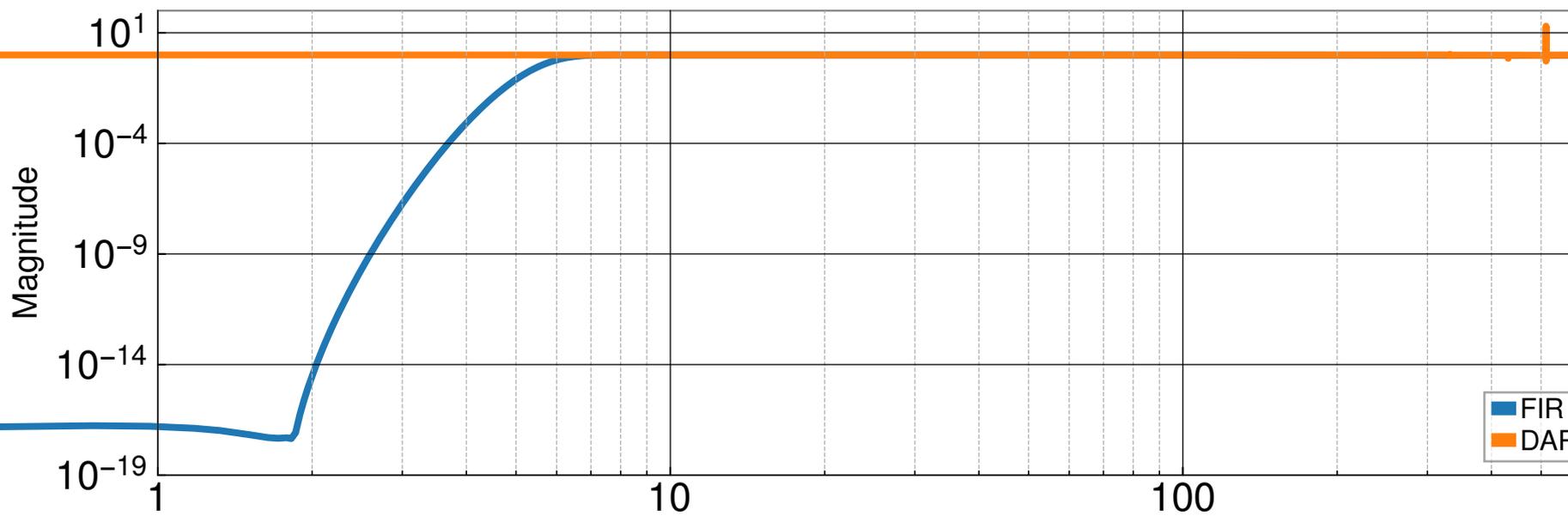
Residual corrections highpass comparison (gstlal_compute_strain_C00_filters_H1)



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)

