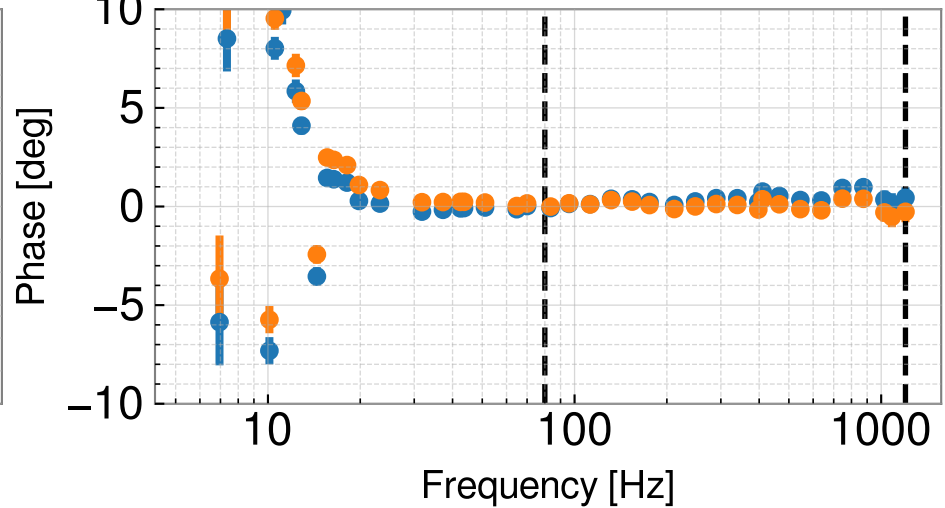
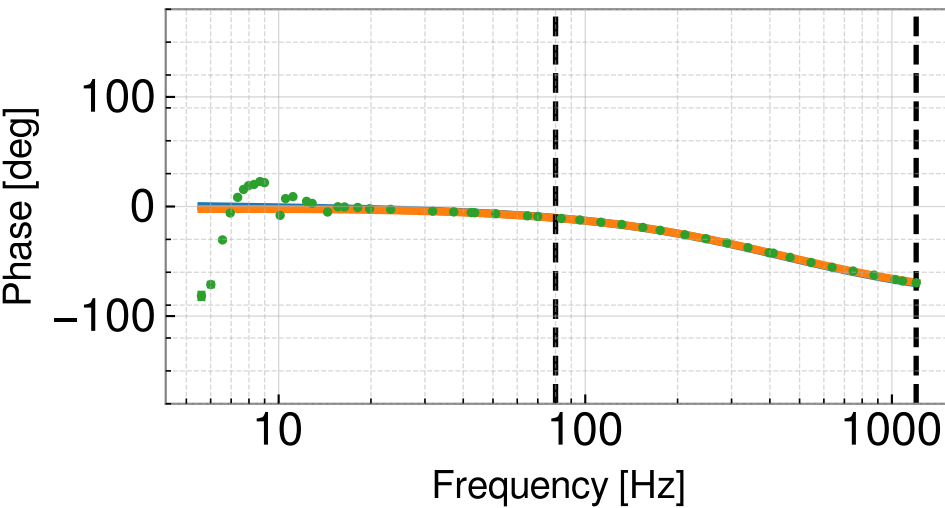
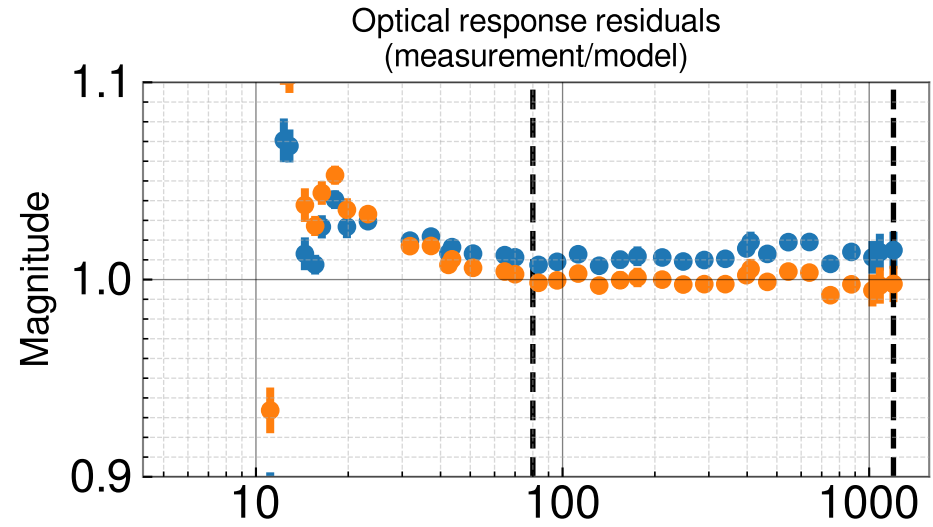
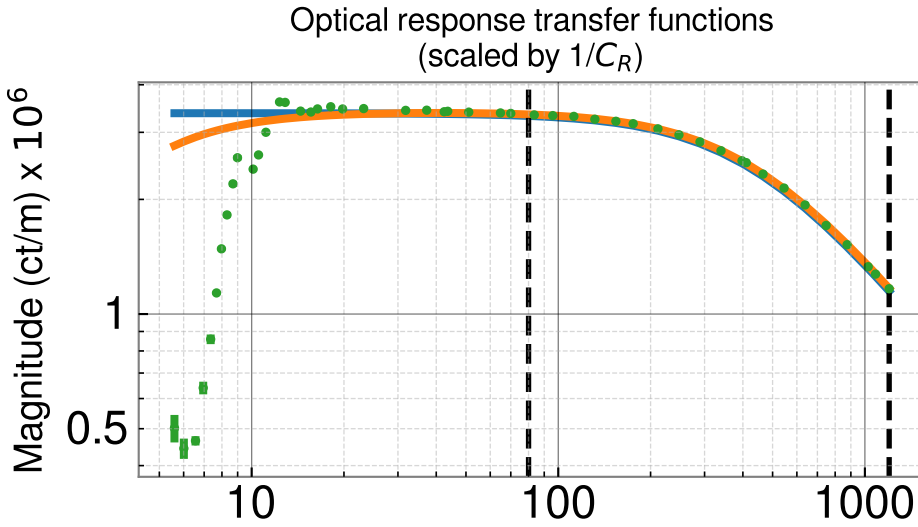
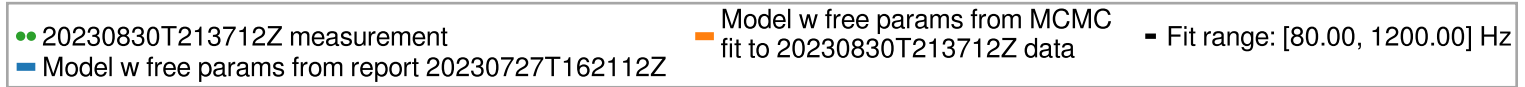


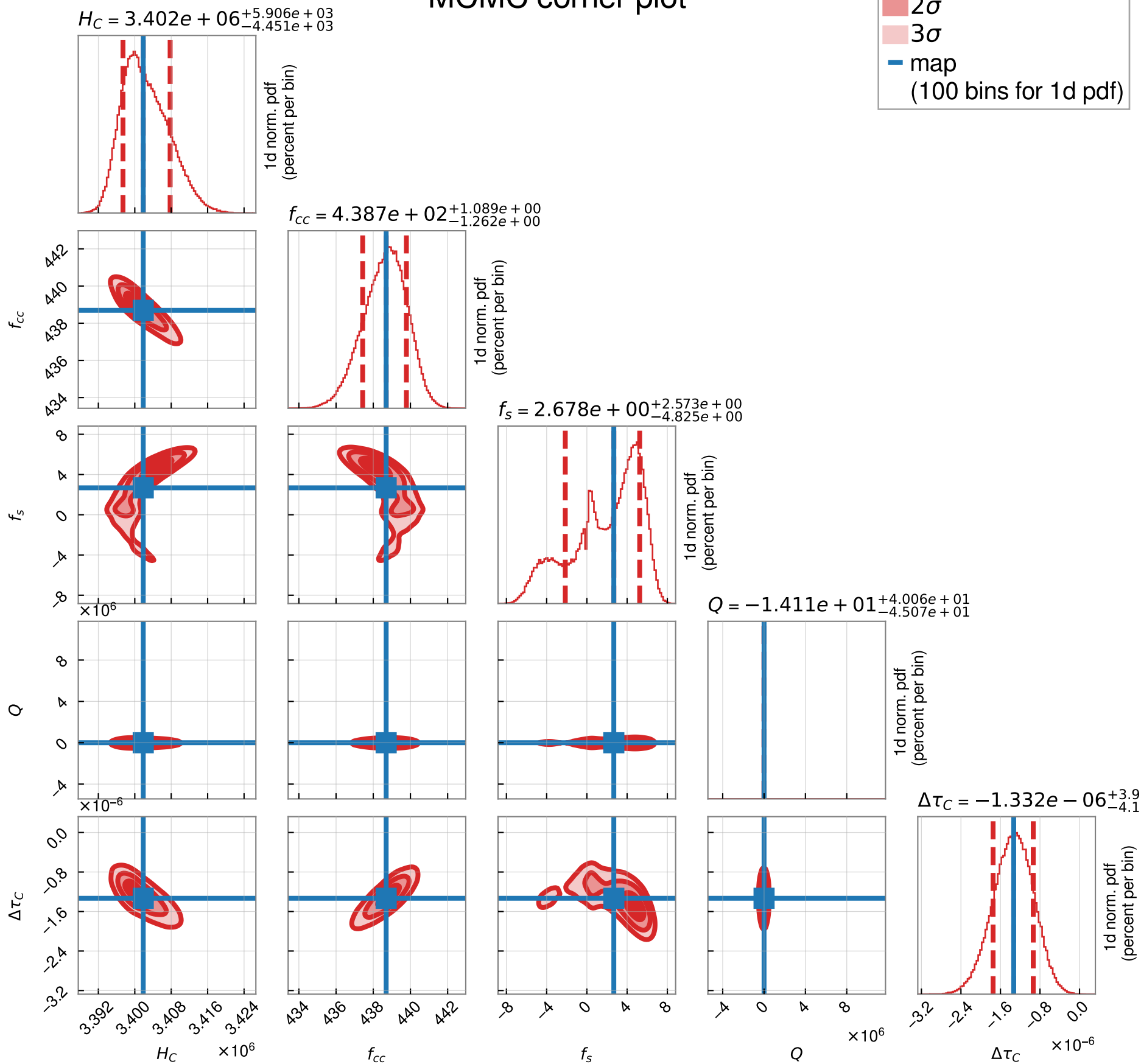
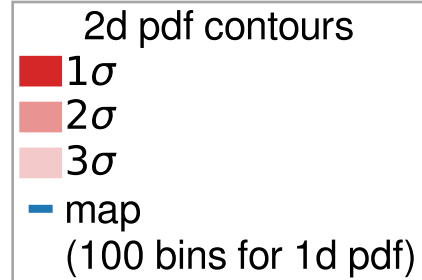
H1 sensing model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230830T213653Z/pydarm_H1.ini



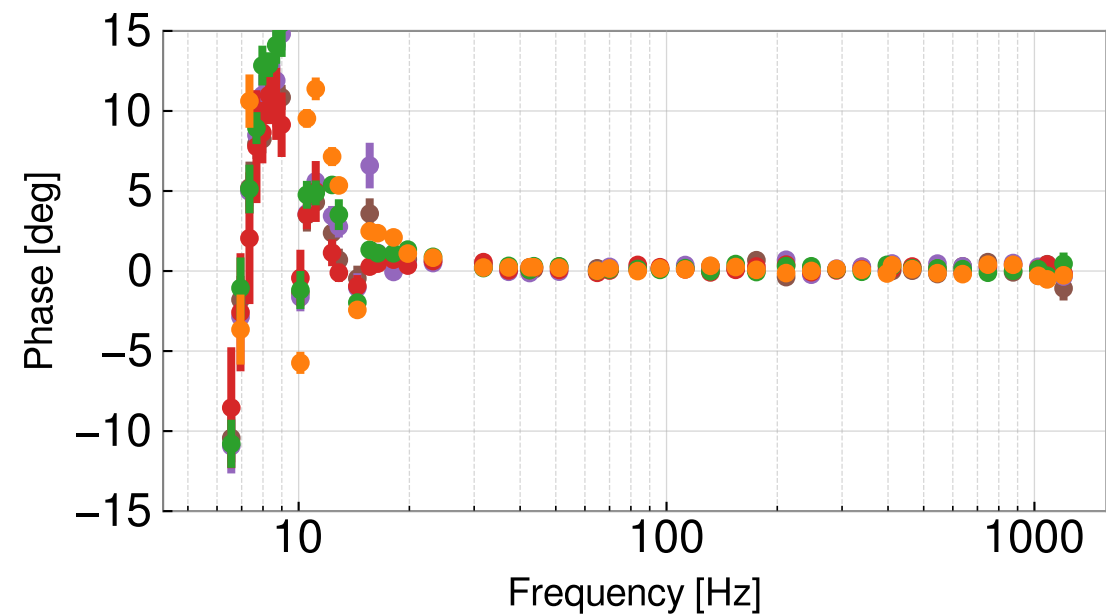
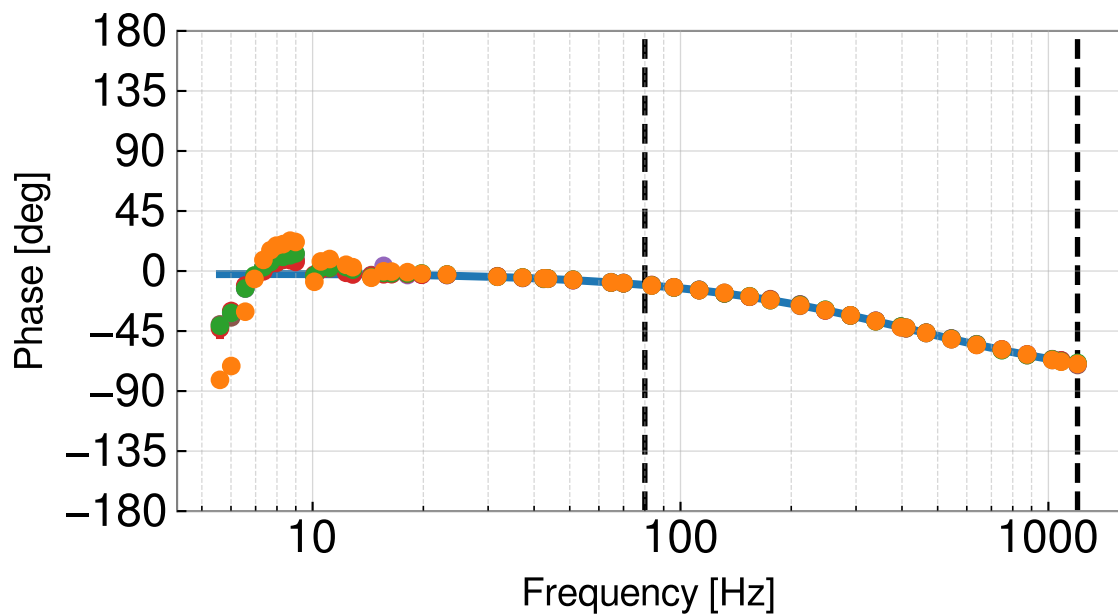
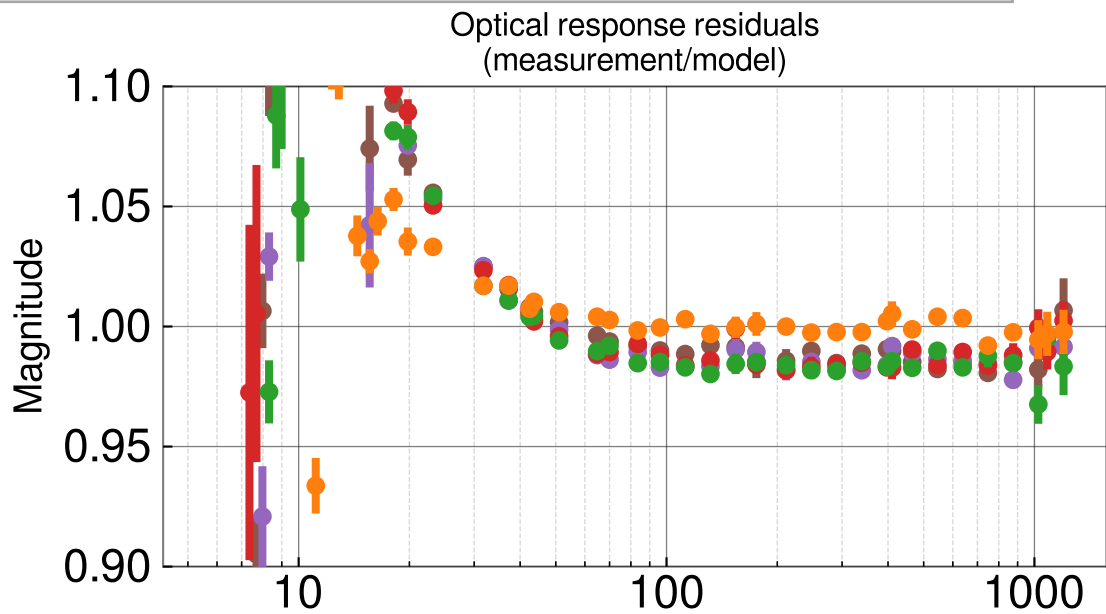
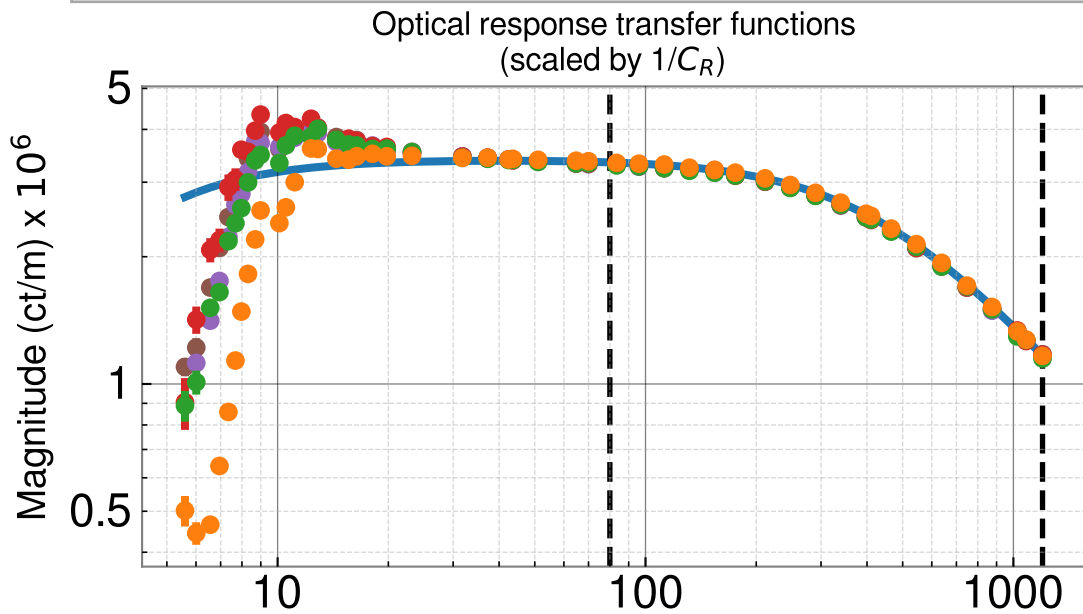
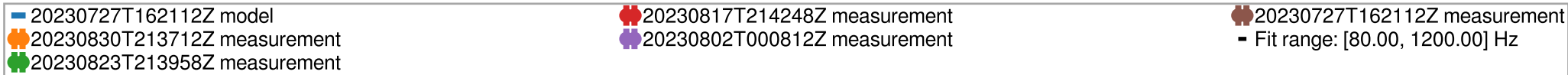
Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.402e+06	5906 (0.17%)	4451 (0.13%)
Cavity_pole, f_cc (Hz)	438.7	1.089 (0.25%)	1.262 (0.29%)
Detuned SRC spring frequency, f_s (Hz)	2.678	2.573 (96.09%)	4.825 (180.20%)
Detuned SRC spring quality factor, Q_s	-14.11	40.06 (-283.84%)	45.07 (-319.33%)
Residual time delay, tau_c (s)	-1.332e-06	3.956e-07 (-29.70%)	4.175e-07 (-31.35%)

20230830T213712Z sensing function MCMC corner plot



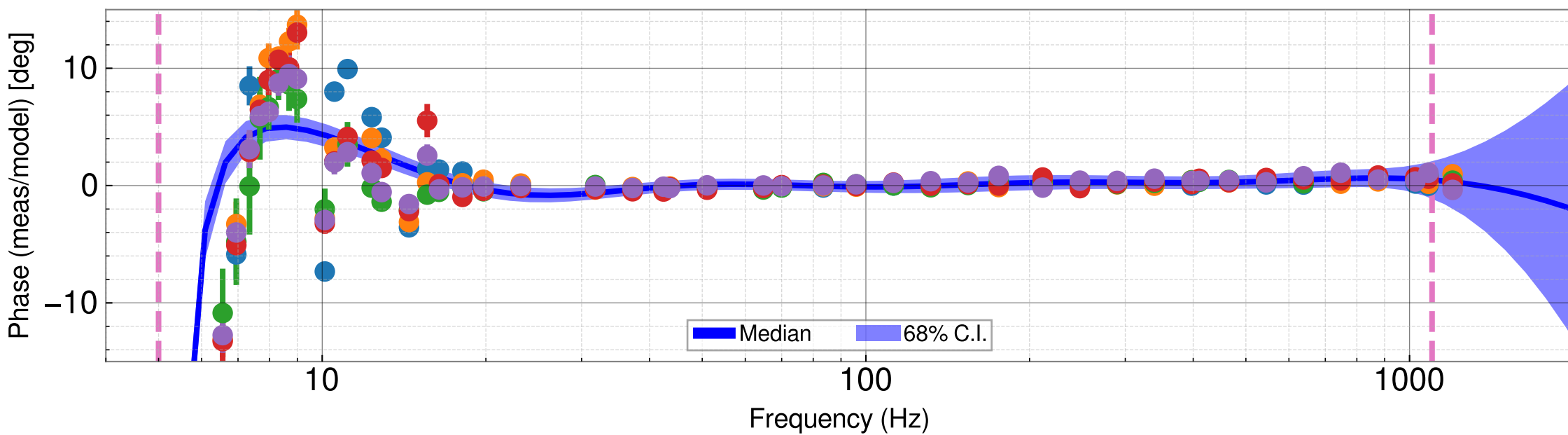
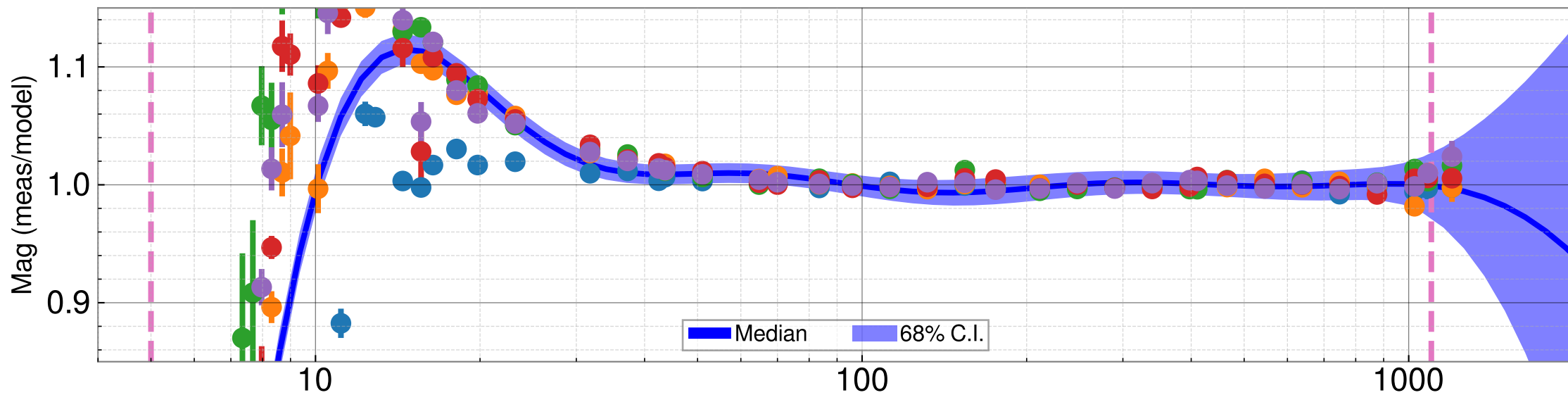
H1 sensing model history

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230830T213653Z/pydarm_H1.ini



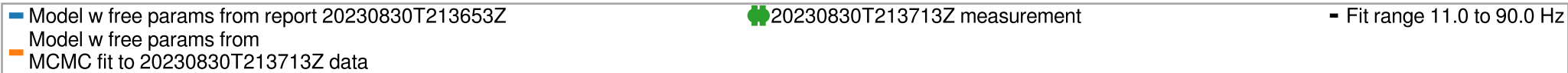
Sensing GPR

meas. 20230830T213712Z of report 20230830T213653Z meas. 20230817T214308Z of report 20230817T214248Z meas. 20230727T162132Z of report 20230727T162112Z
meas. 20230823T214018Z of report 20230823T213958Z meas. 20230802T000832Z of report 20230802T000812Z

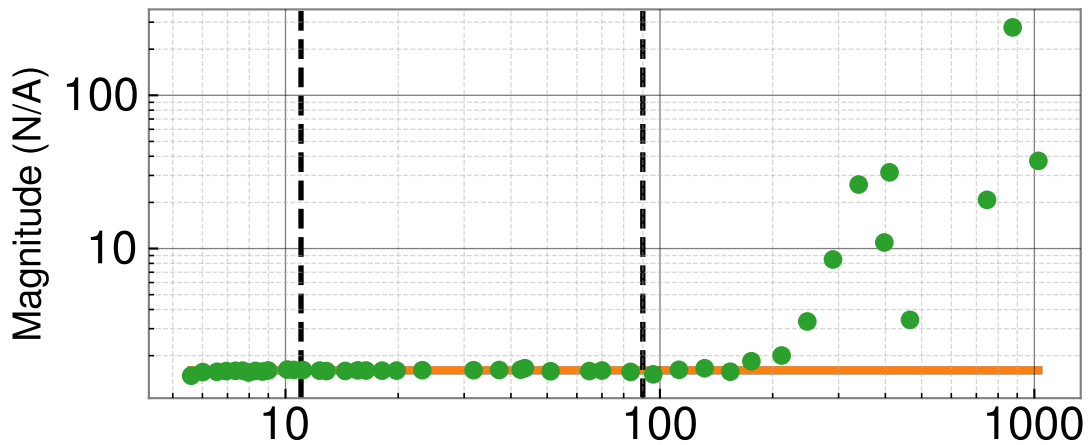


H1SUSEX L1 actuation model MCMC summary

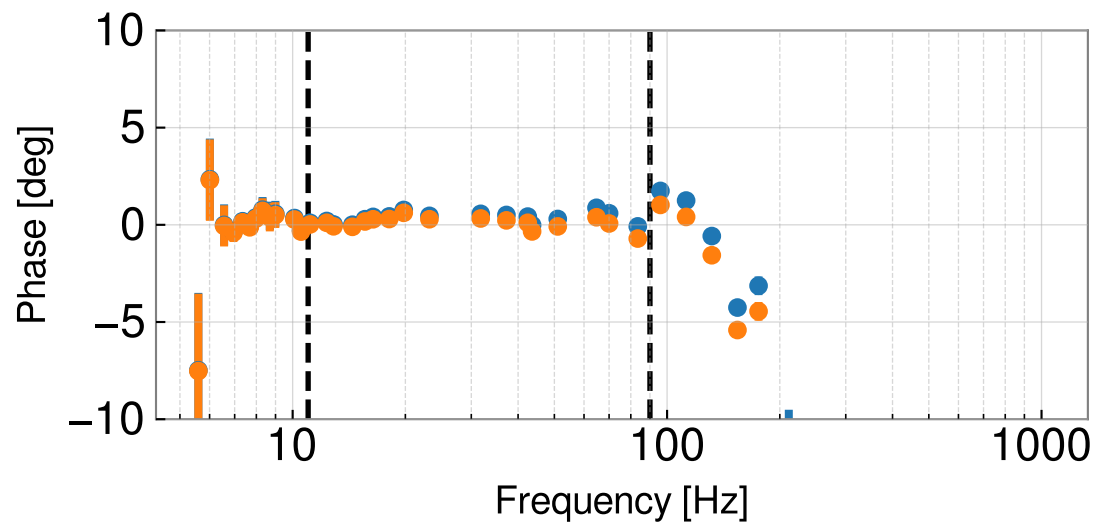
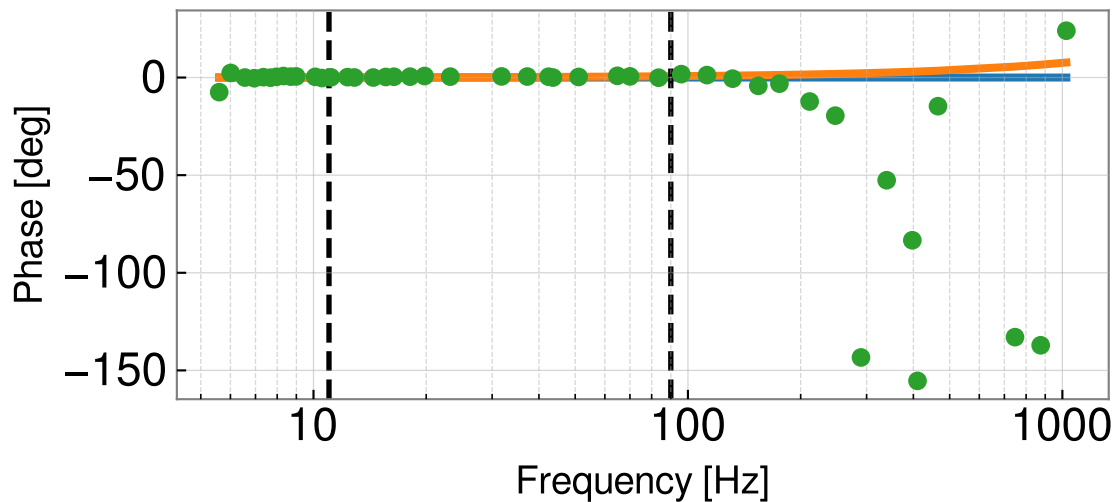
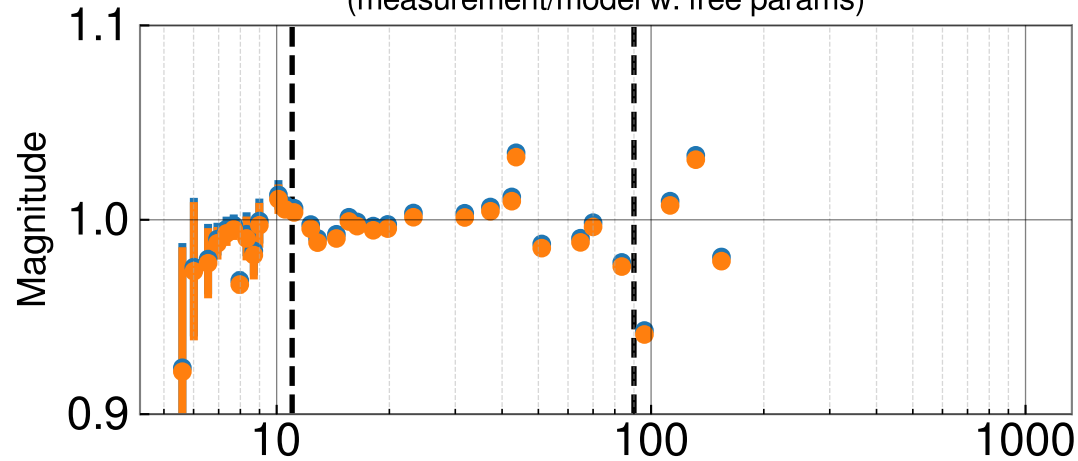
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230830T213653Z/pydarm_H1.ini



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

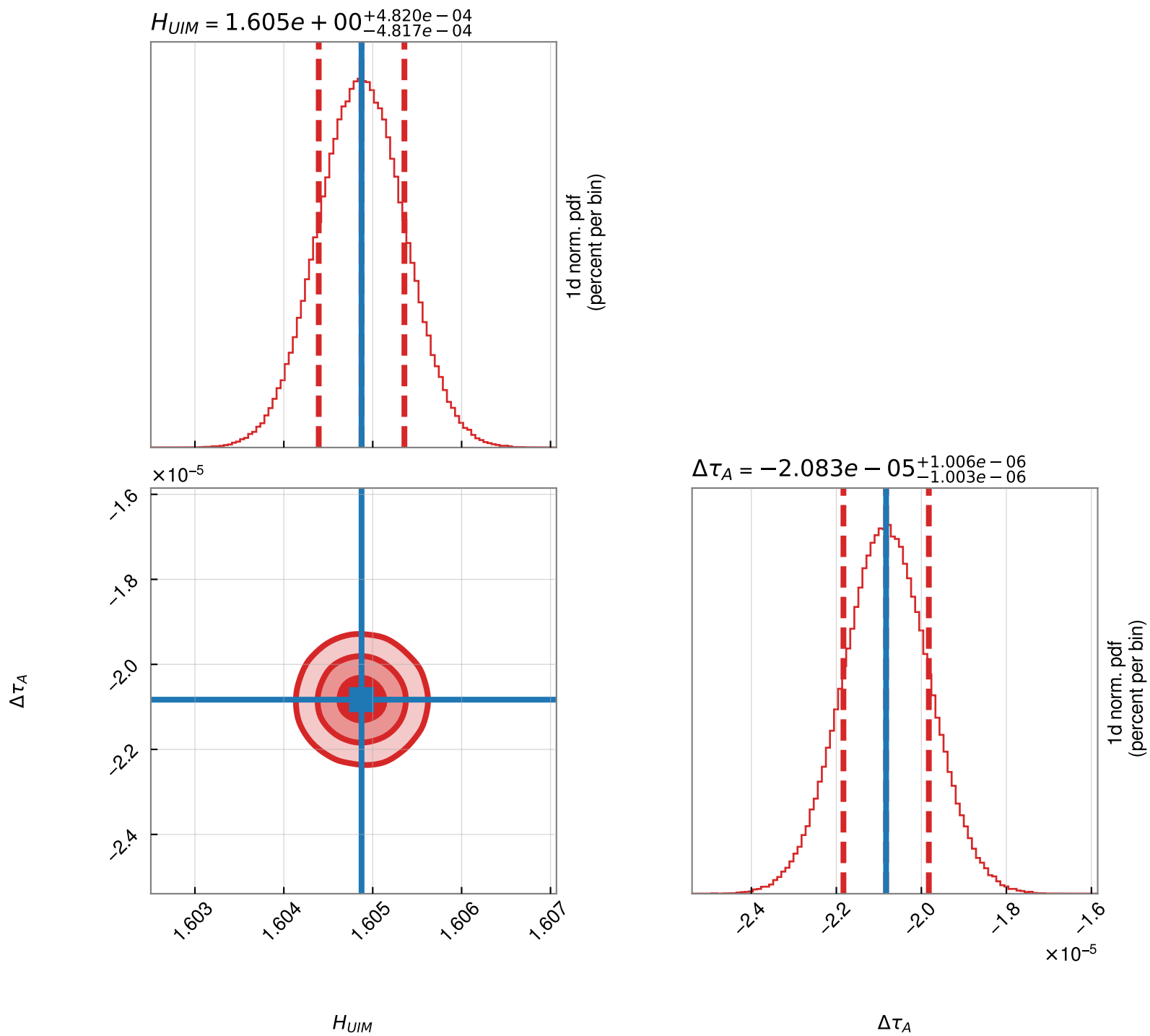
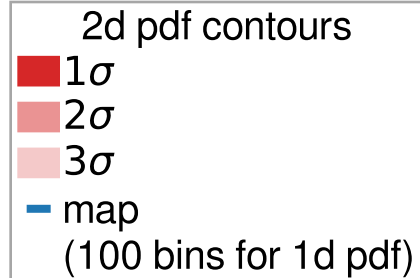


Actuation strength residuals
(measurement/model w. free params)



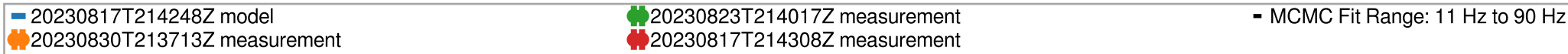
Parameter	(value +/-) value	+	-
Actuation Gain, Hau (N/A)	1.605	0.000482 (0.03%)	0.0004817 (0.03%)
Residual time delay, tau_A (s)	-2.083e-05	1.006e-06 (-4.83%)	1.003e-06 (-4.82%)

20230830T213713Z EX L1 actuation MCMC corner plot

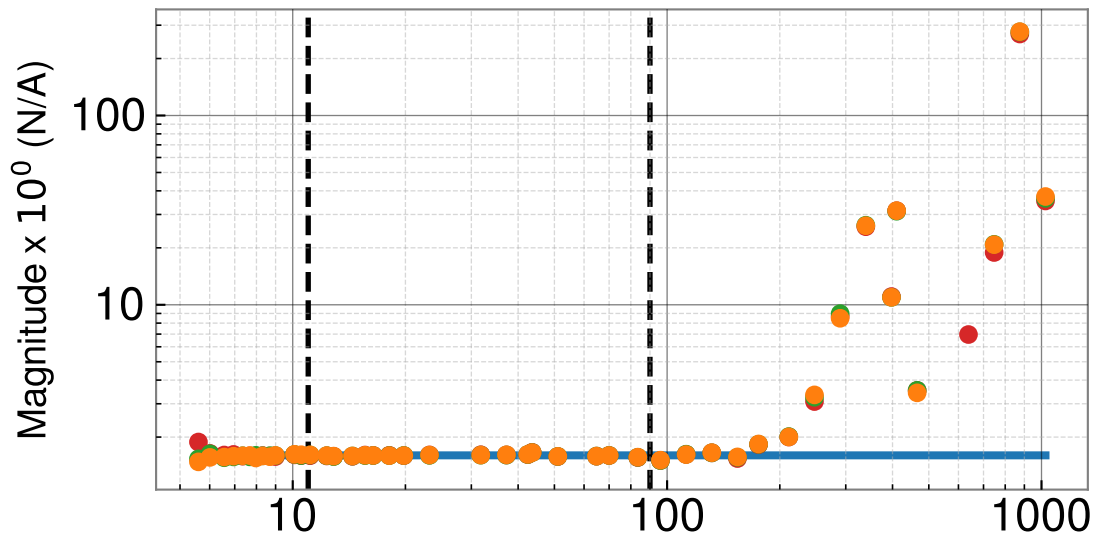


H1 SUSEX L1 actuation model history

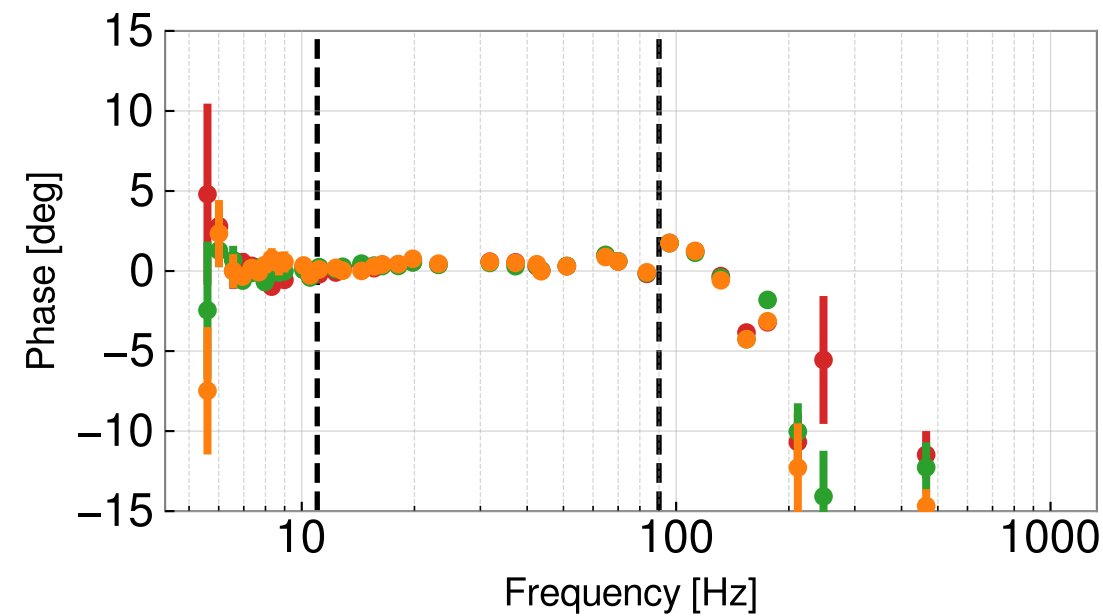
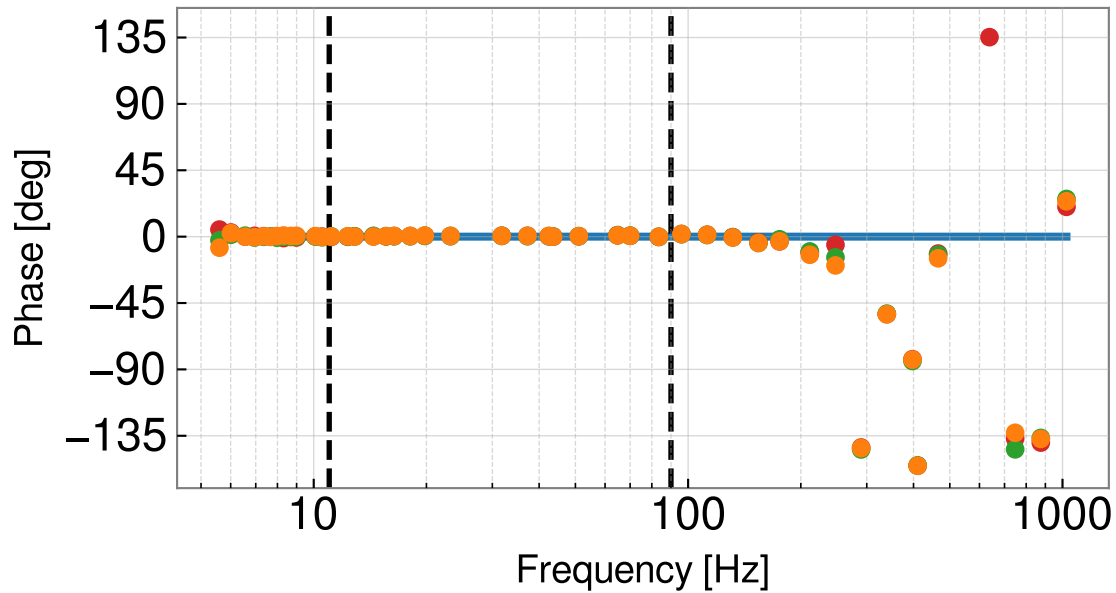
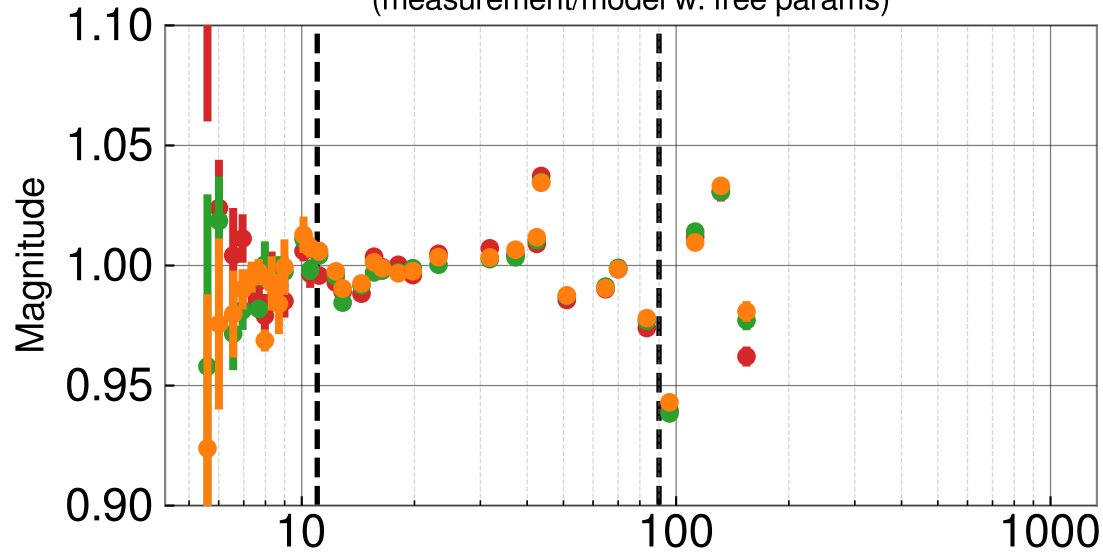
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20230830T213653Z/pydarm_H1.ini`



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



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

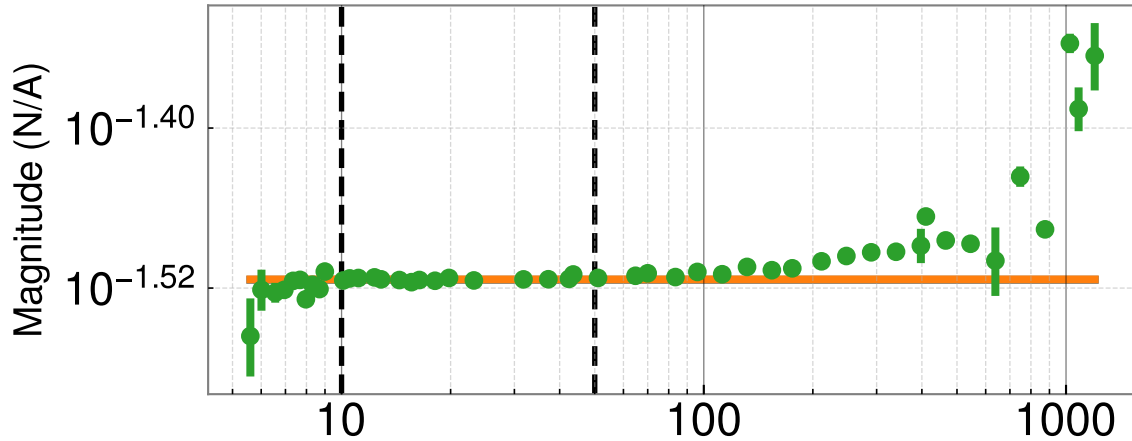


H1SUSEX L2 actuation model MCMC summary

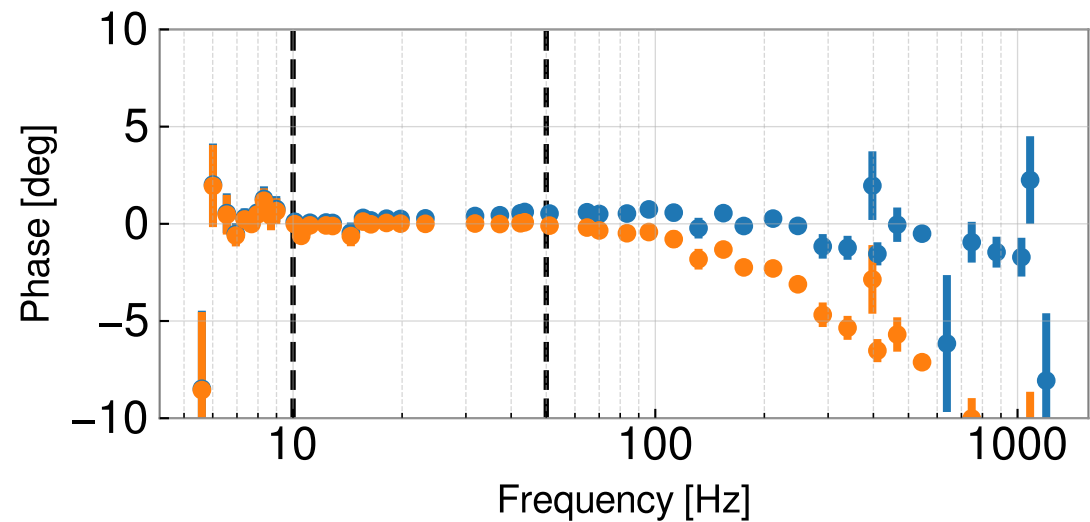
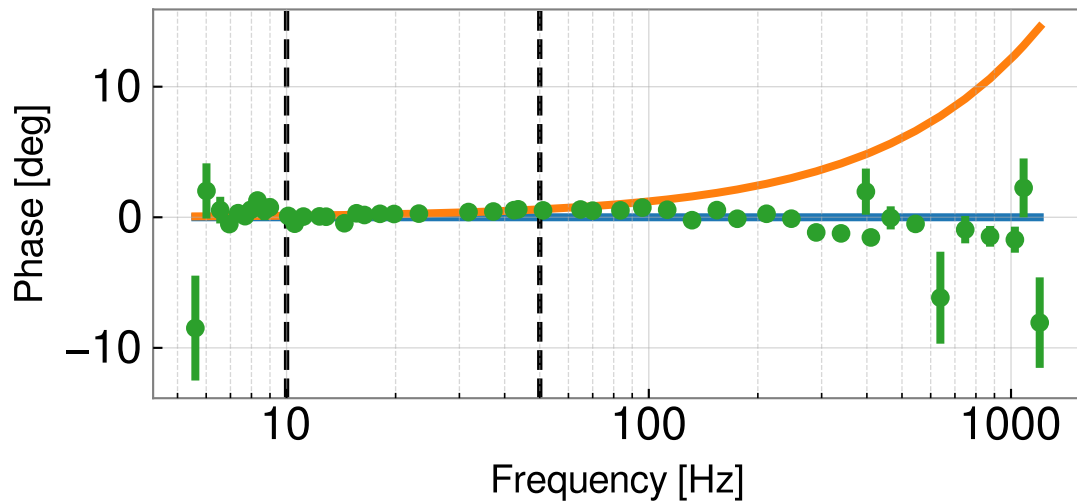
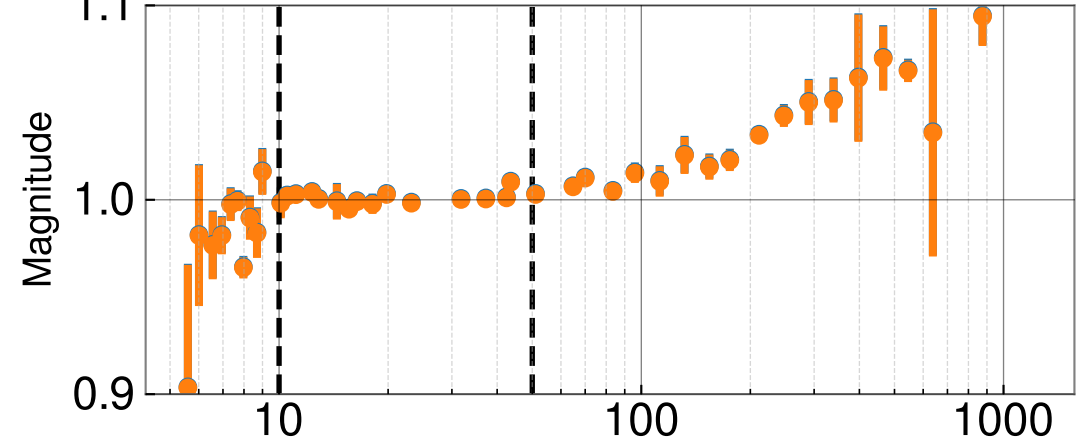
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230830T213653Z/pydarm_H1.ini



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

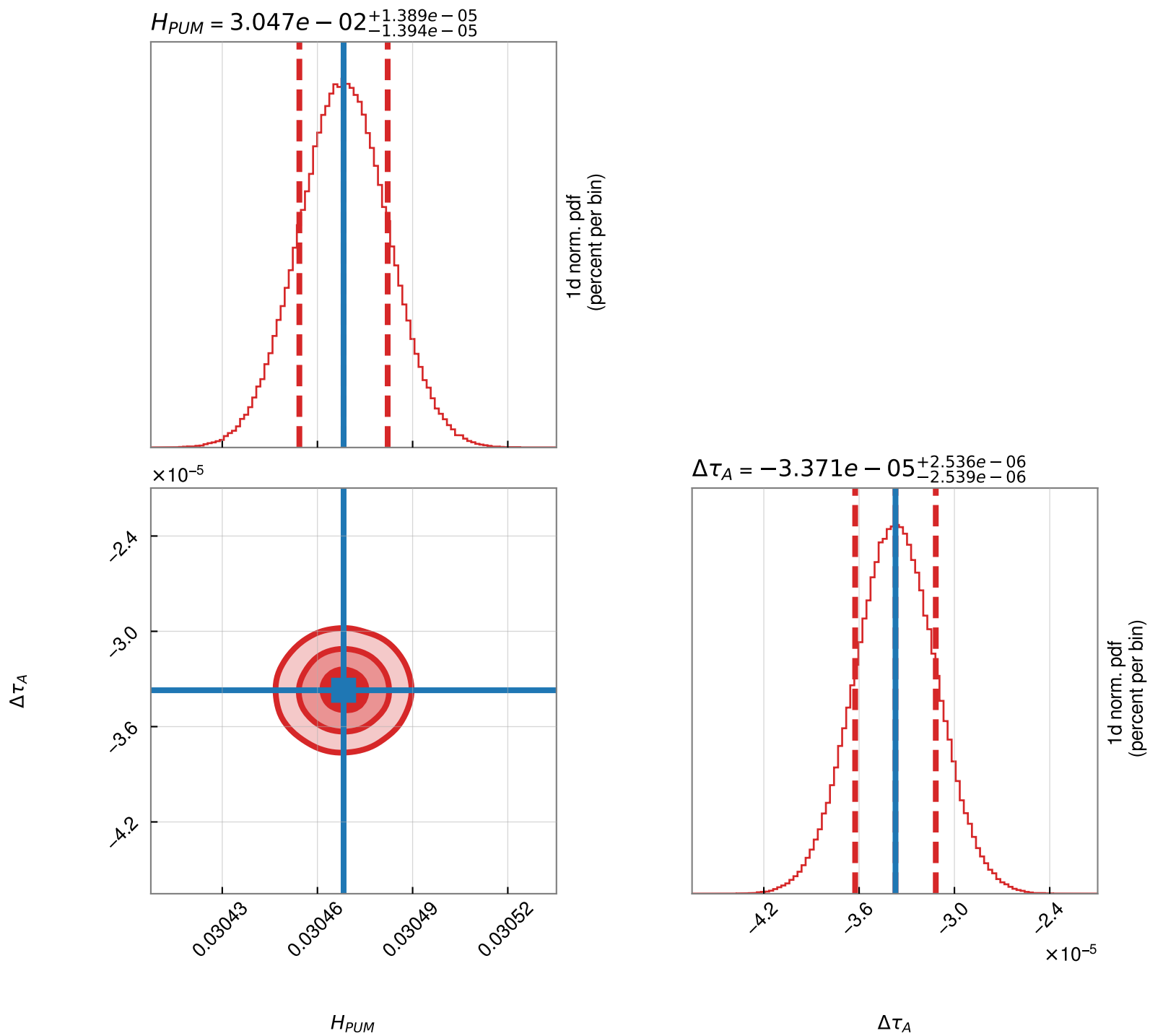
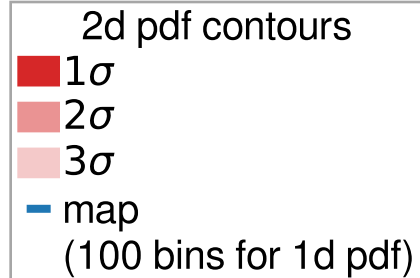


Actuation strength residuals
(measurement/model w. free params)



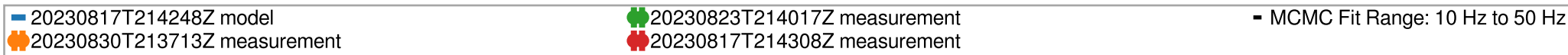
Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.03047	1.389e-05 (0.05%)	1.394e-05 (0.05%)
Residual time delay, tau_A (s)	-3.371e-05	2.536e-06 (-7.52%)	2.539e-06 (-7.53%)

20230830T213713Z EX L2 actuation MCMC corner plot

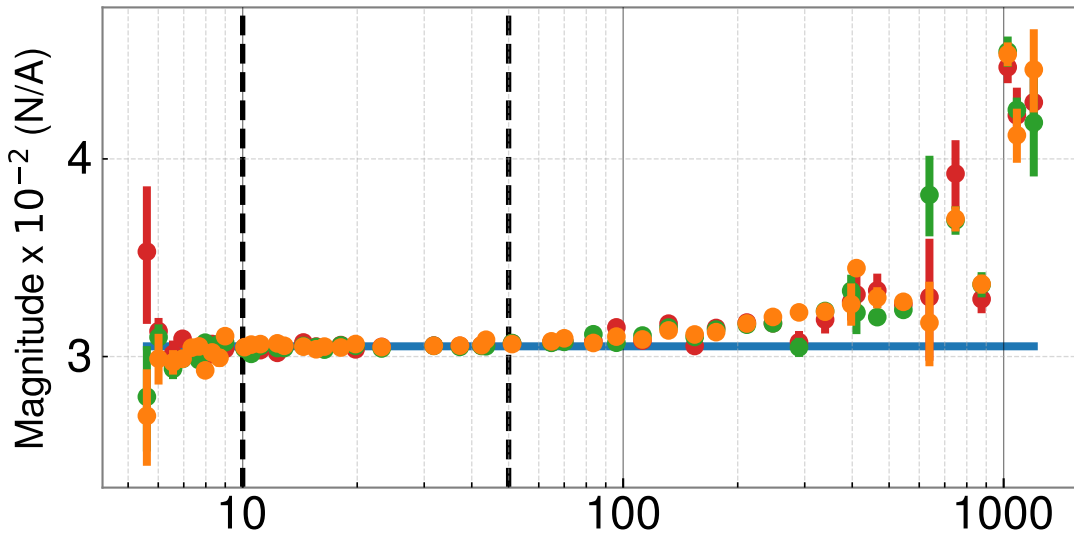


H1 SUSEX L2 actuation model history

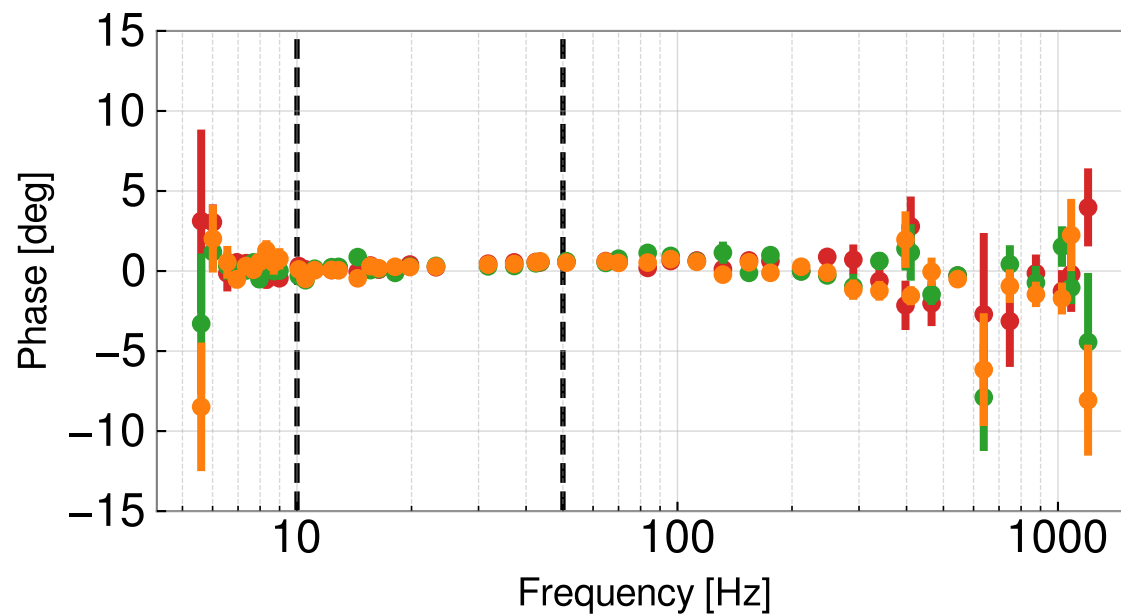
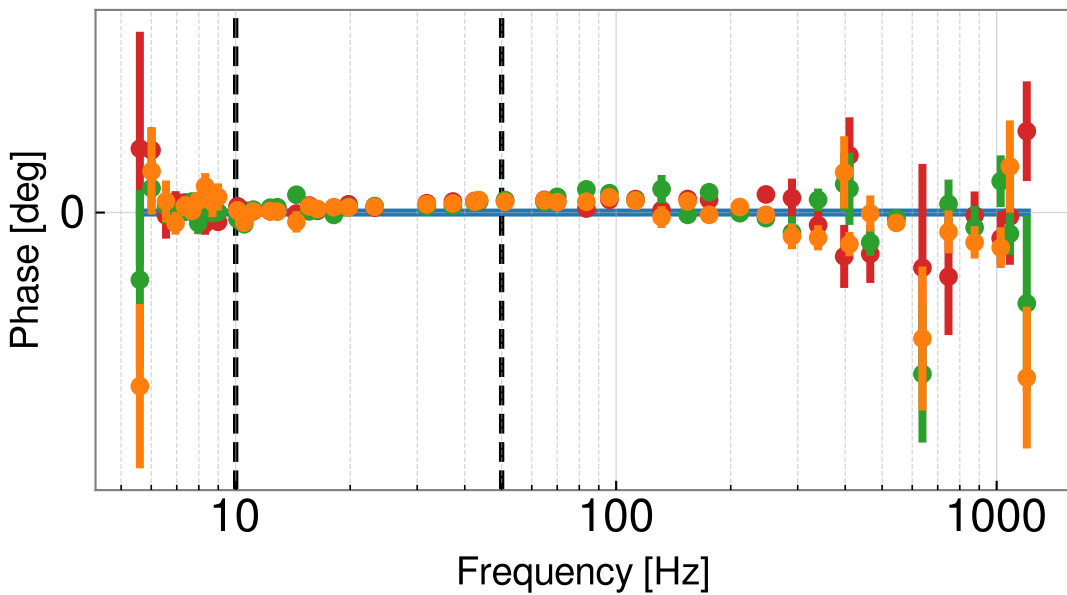
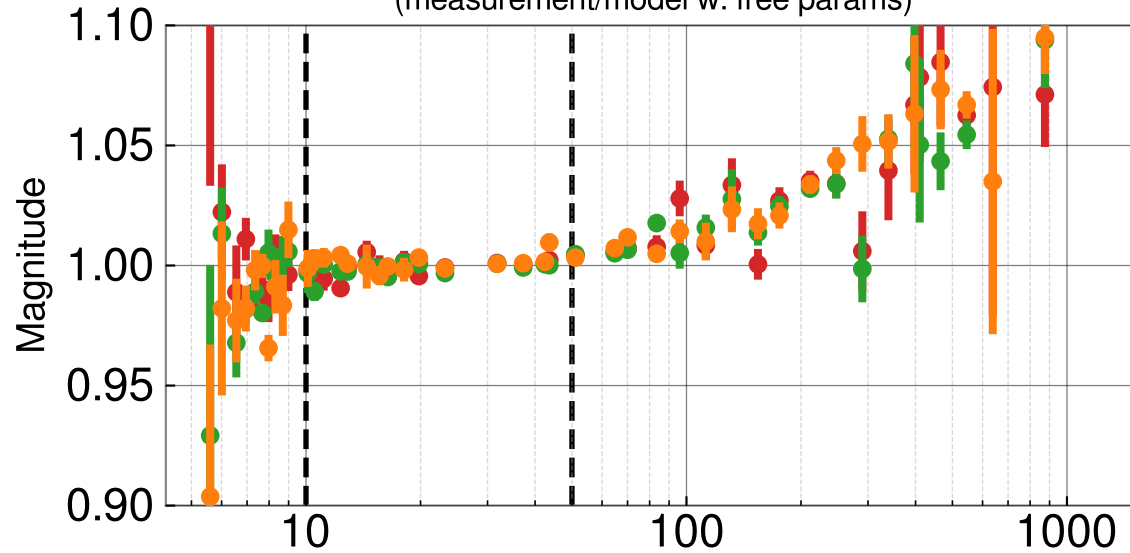
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20230830T213653Z/pydarm_H1.ini`



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

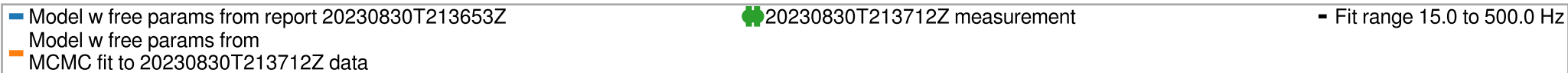


Actuation strength residuals
(measurement/model w. free params)

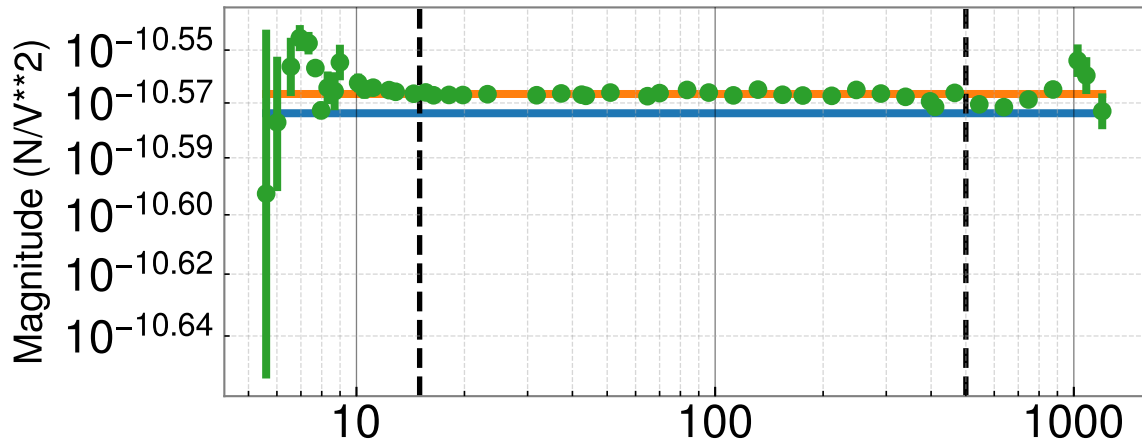


H1SUSEX L3 actuation model MCMC summary

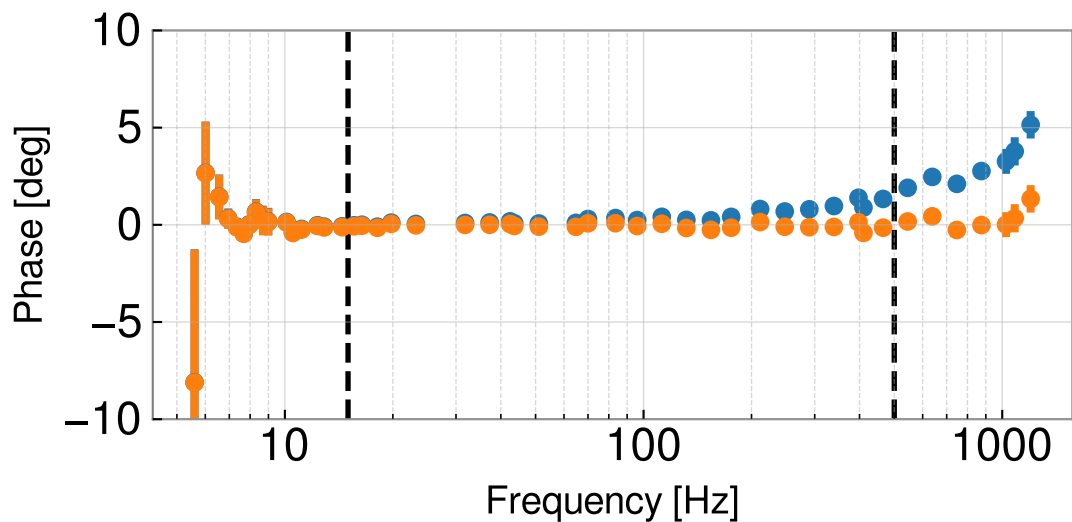
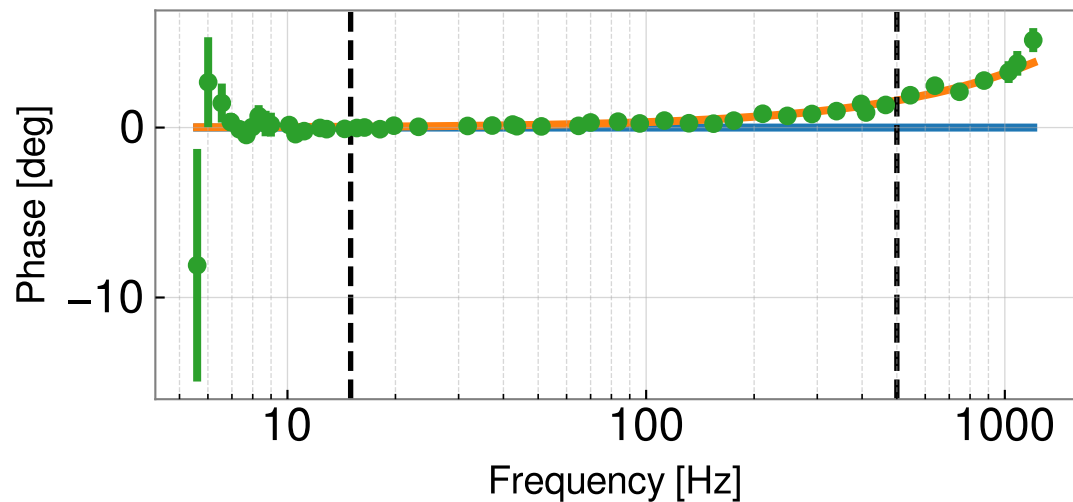
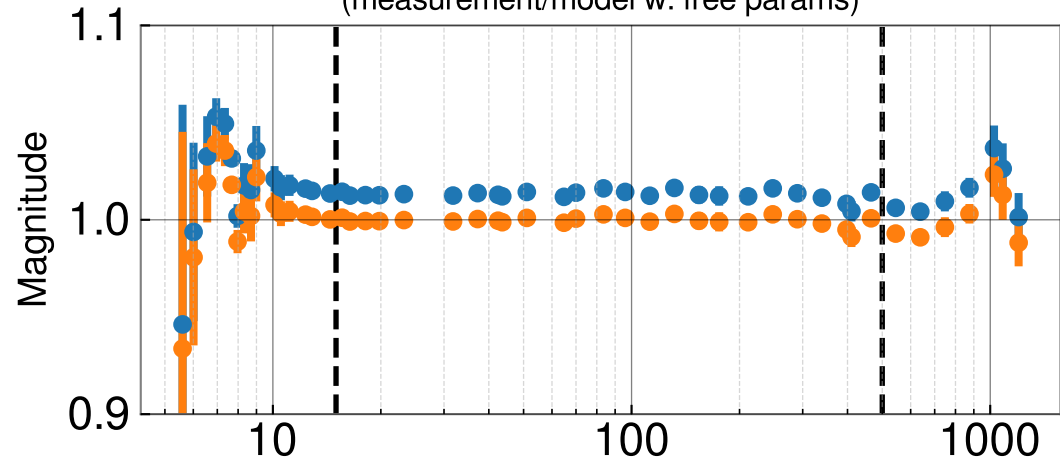
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230830T213653Z/pydarm_H1.ini



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

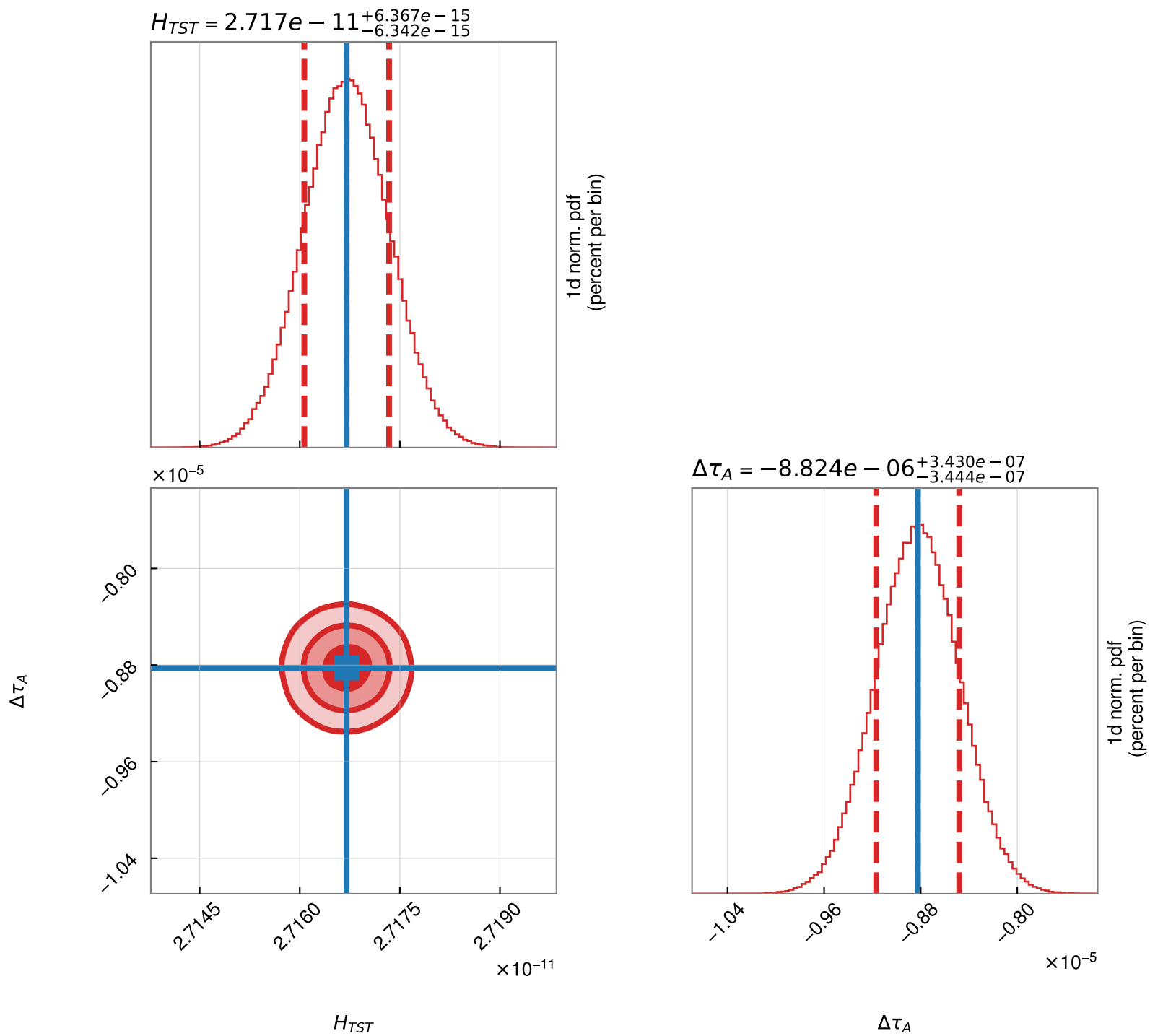
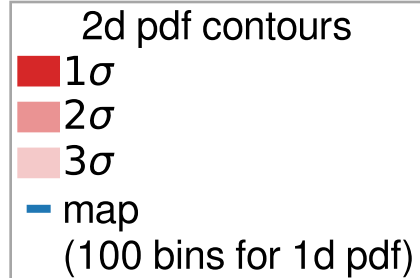


Actuation strength residuals
(measurement/model w. free params)



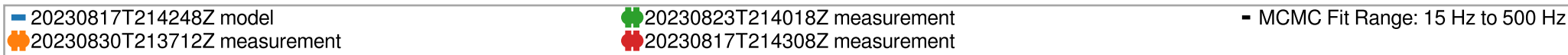
Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V**2)	2.717e-11	6.367e-15 (0.02%)	6.342e-15 (0.02%)
Residual time delay, tau_A (s)	-8.824e-06	3.43e-07 (-3.89%)	3.444e-07 (-3.90%)

20230830T213712Z EX L3 actuation MCMC corner plot

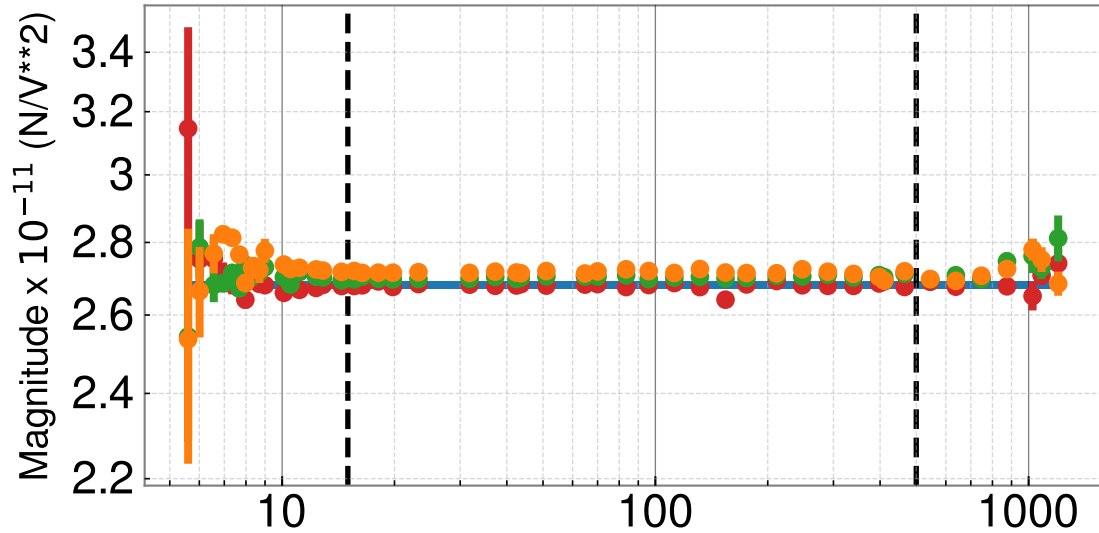


H1 SUSEX L3 actuation model history

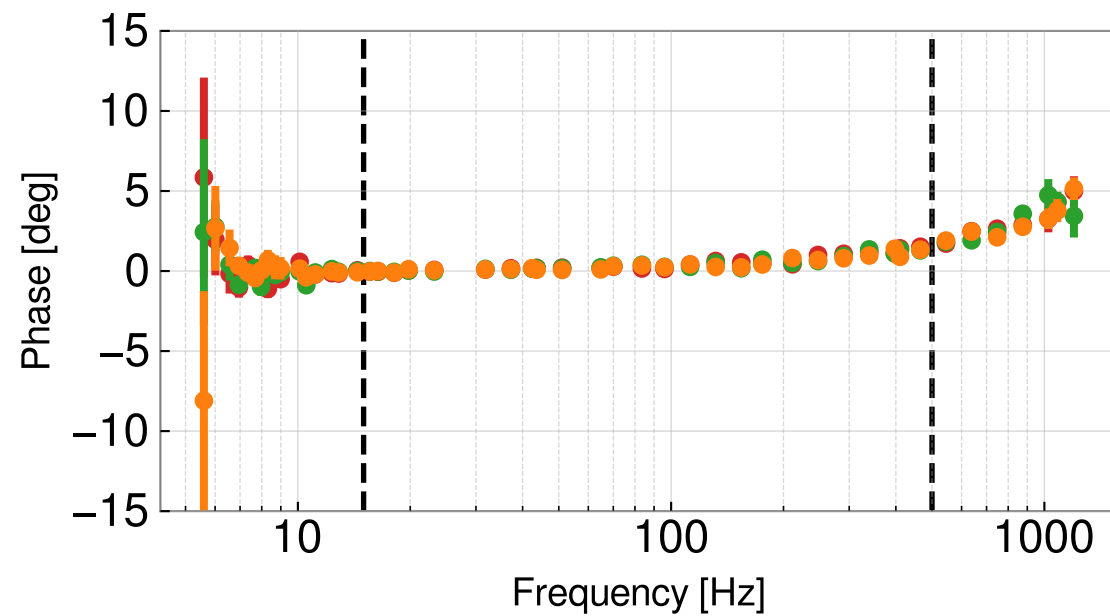
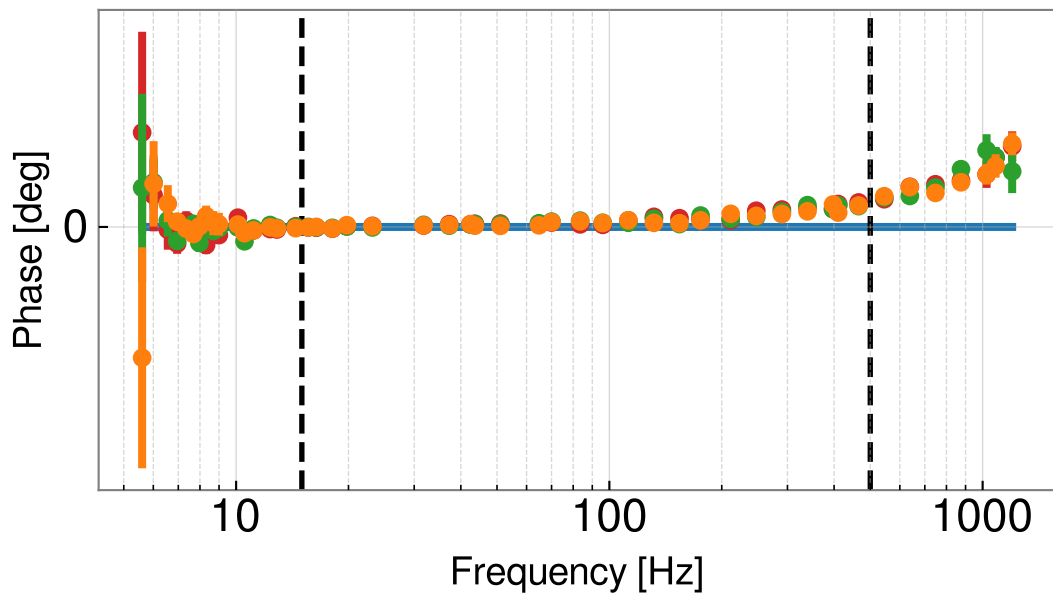
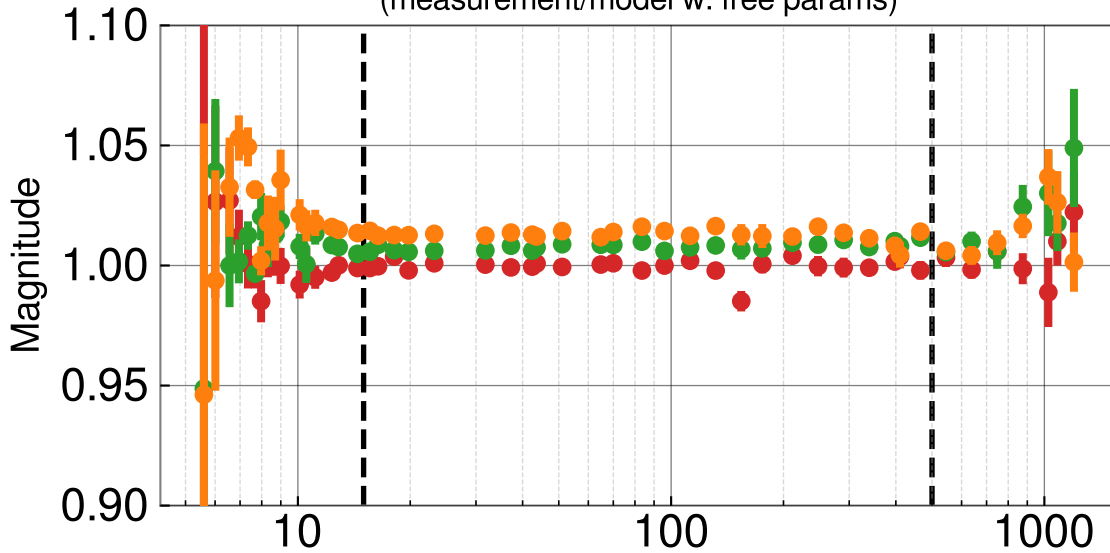
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20230830T213653Z/pydarm_H1.ini`



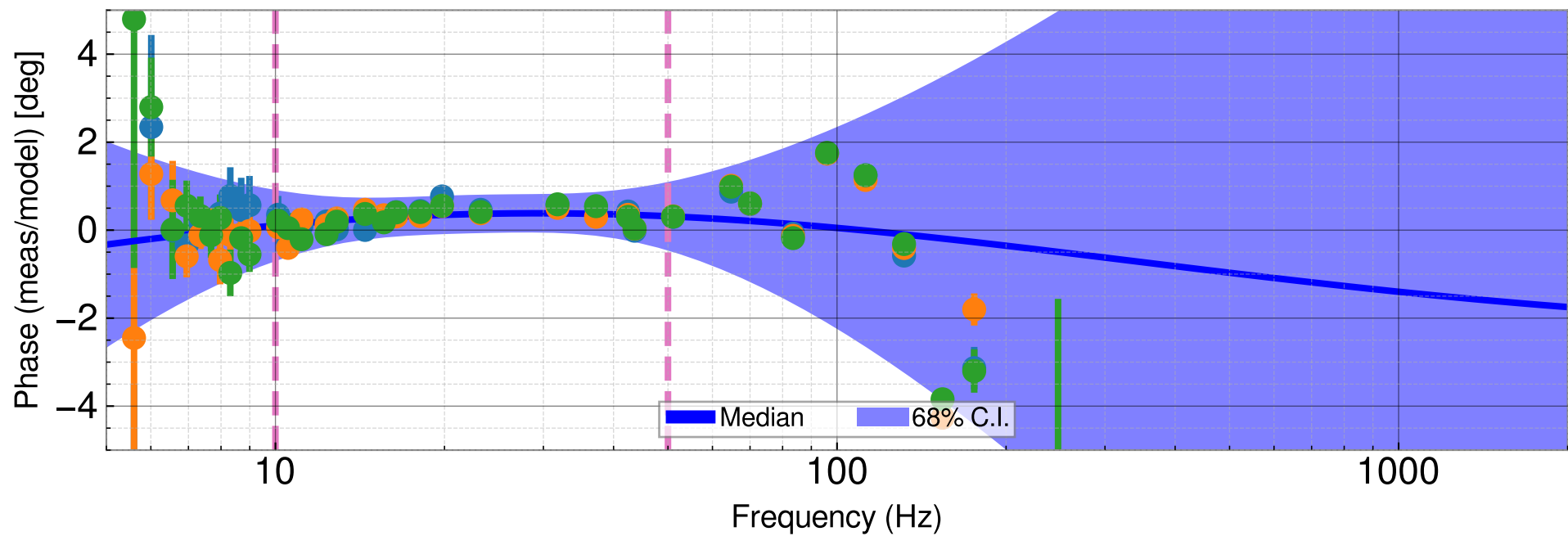
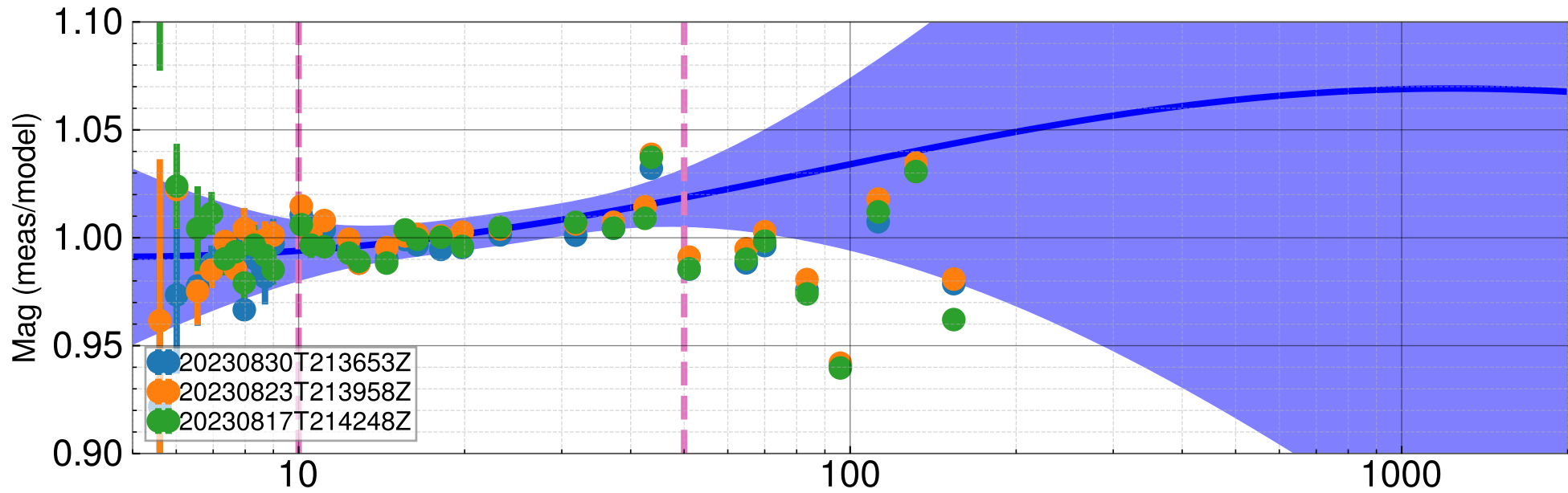
Actuation strength transfer functions
(scaled by H_{ref})



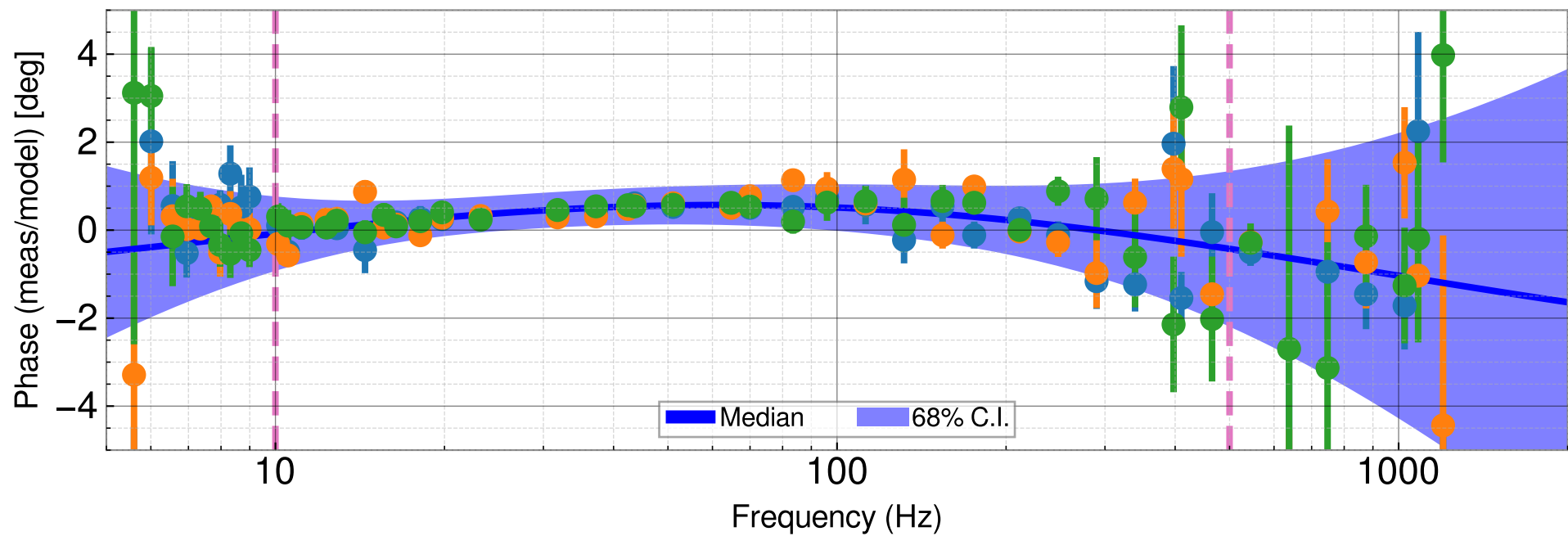
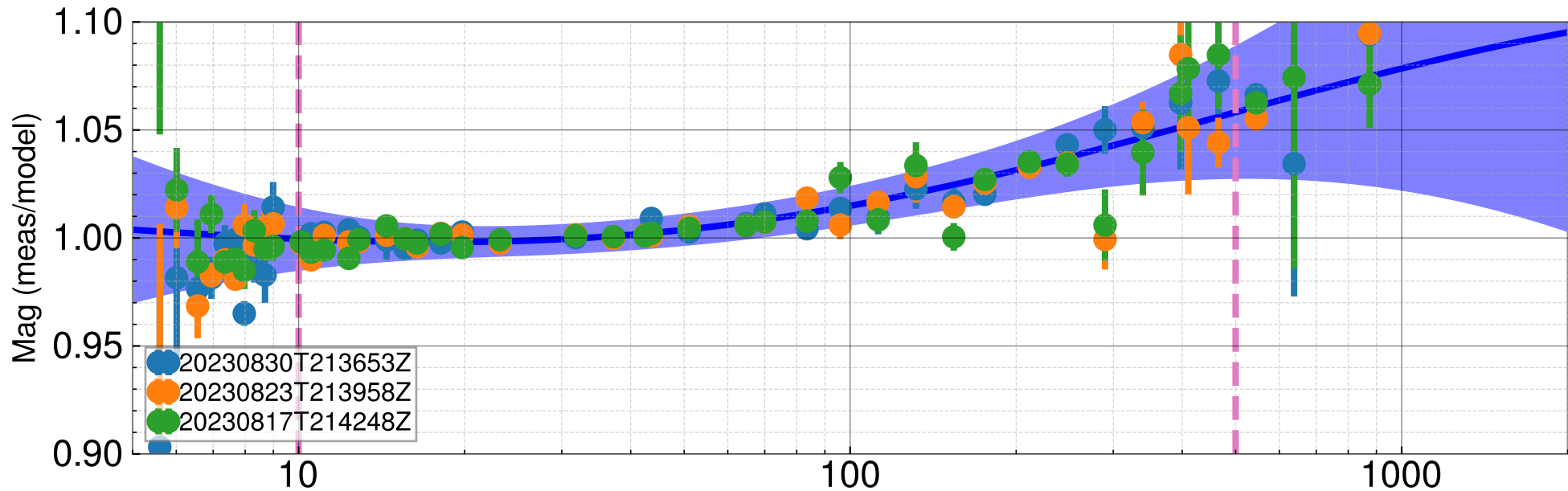
Actuation strength residuals
(measurement/model w. free params)



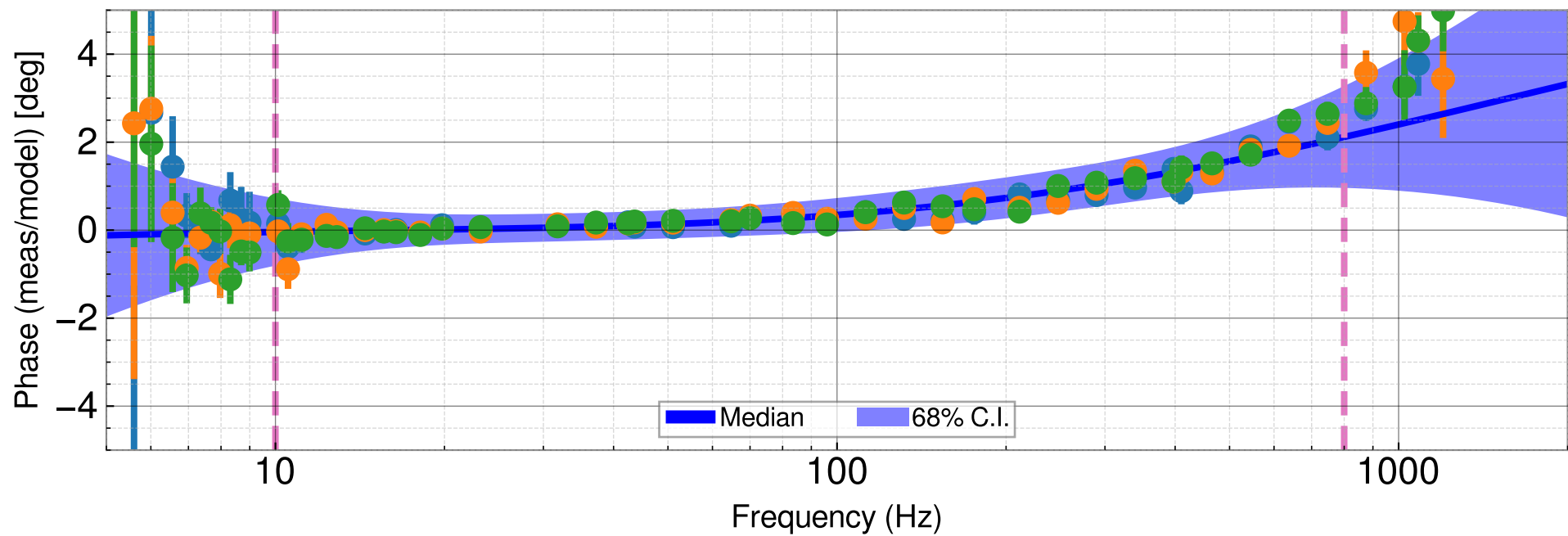
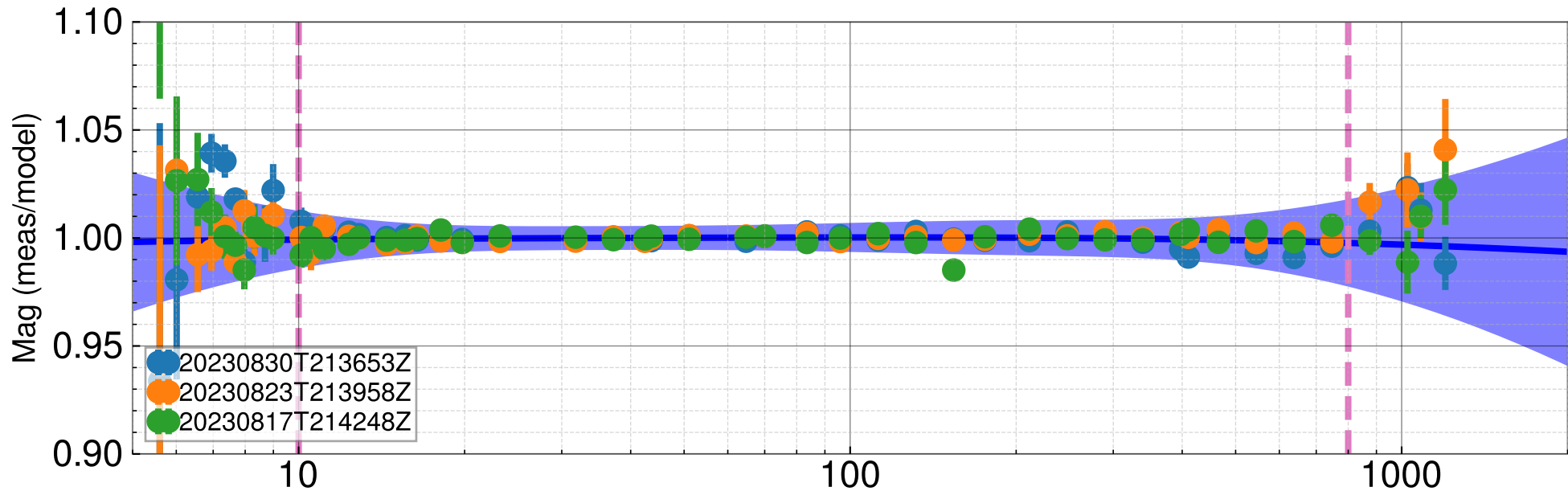
Actuation/L1/EX GPR



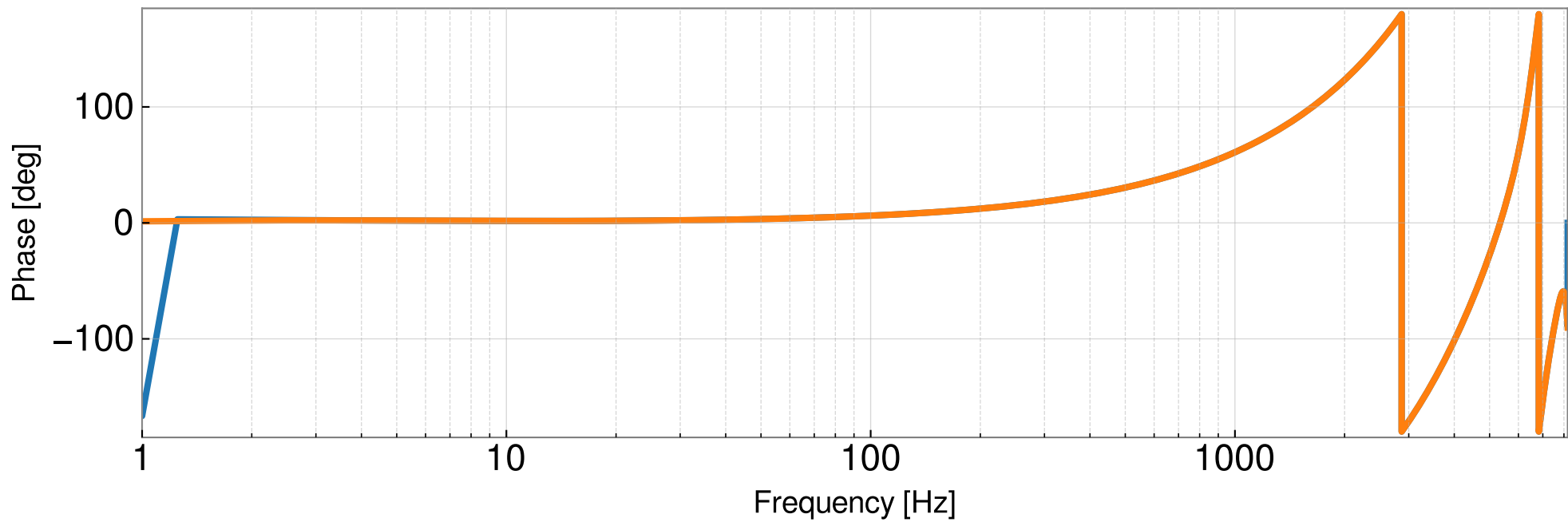
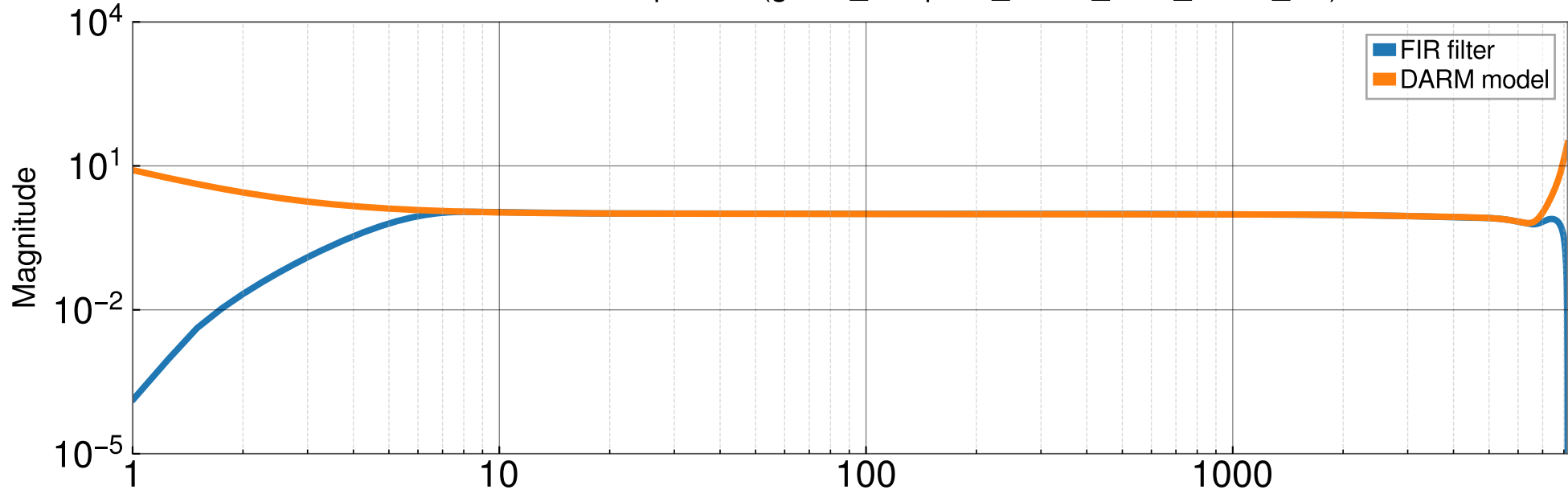
Actuation/L2/EX GPR



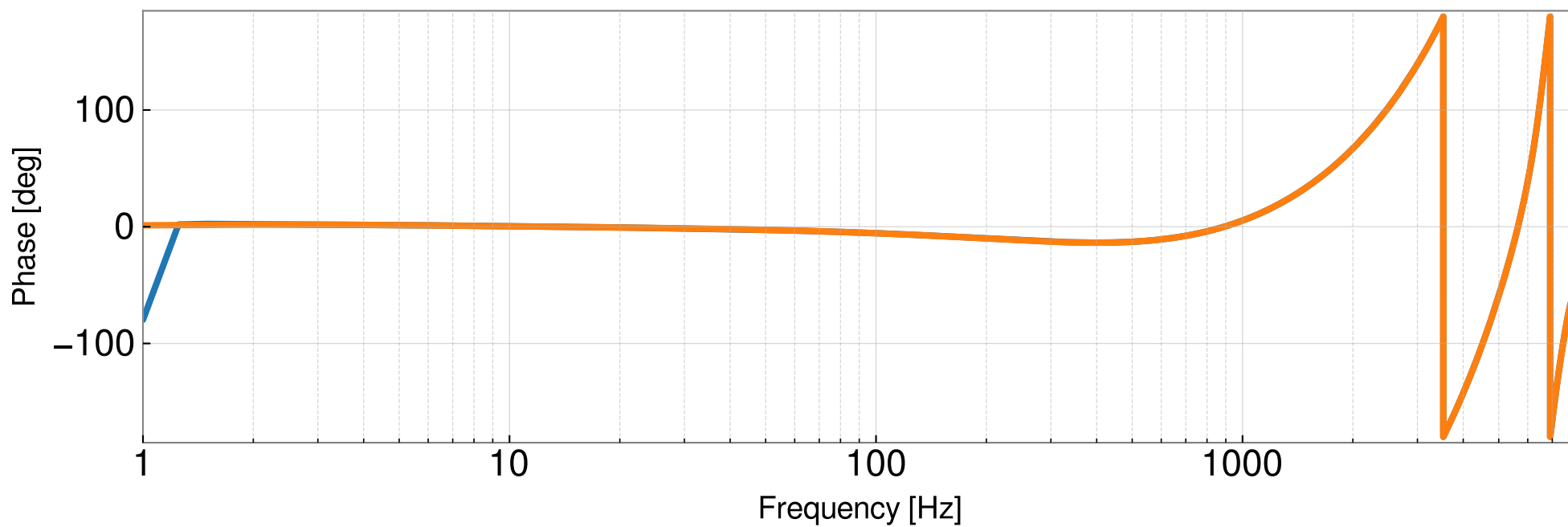
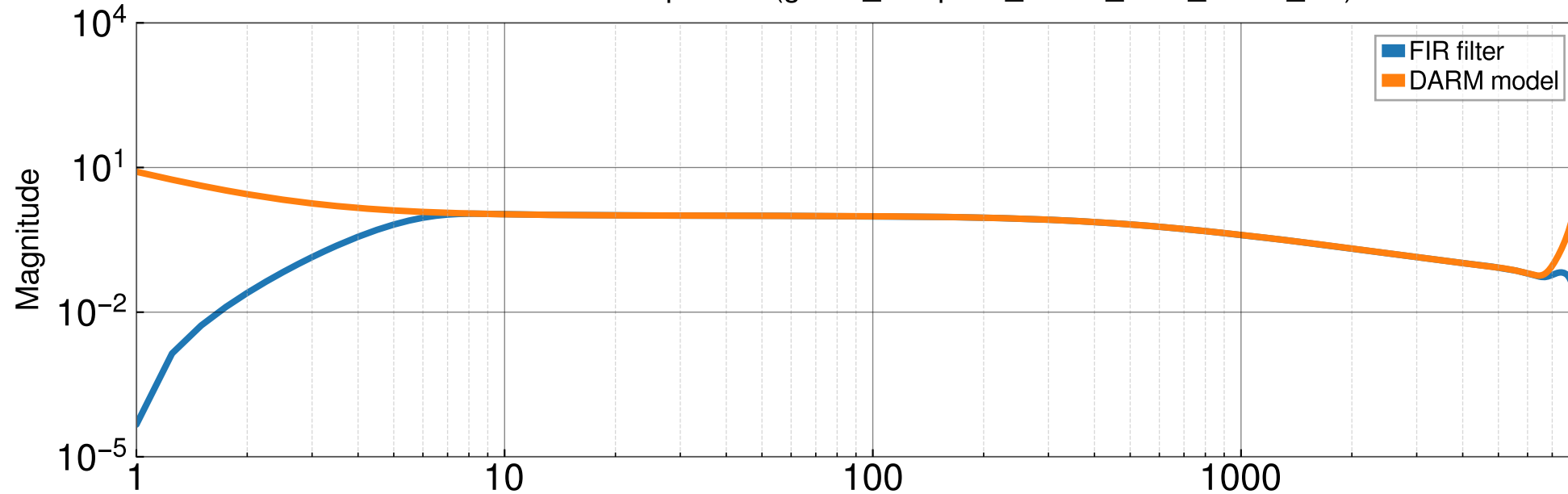
Actuation/L3/EX GPR



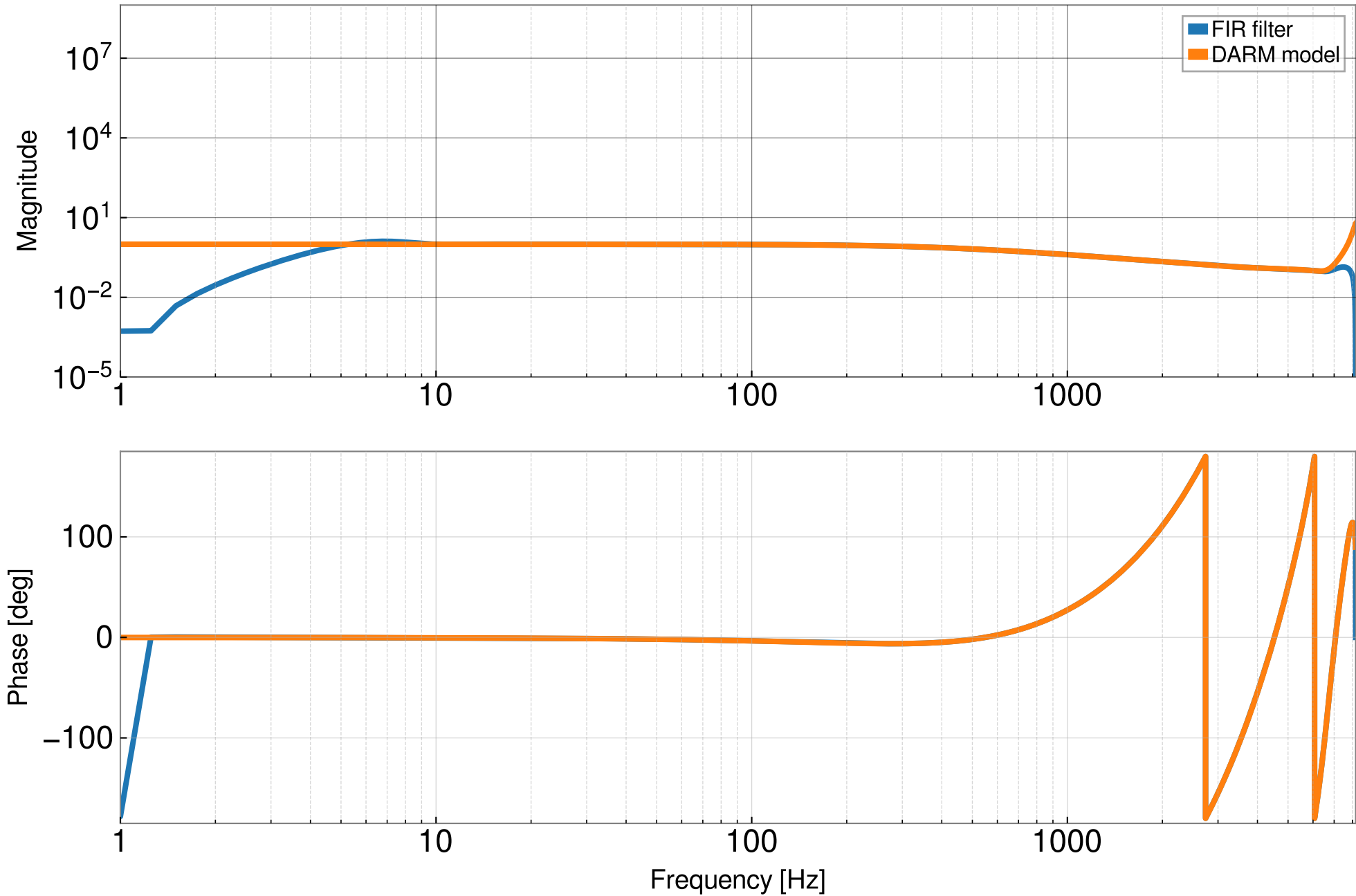
Residual corrections comparison (gstlal_compute_strain_C00_filters_H1)



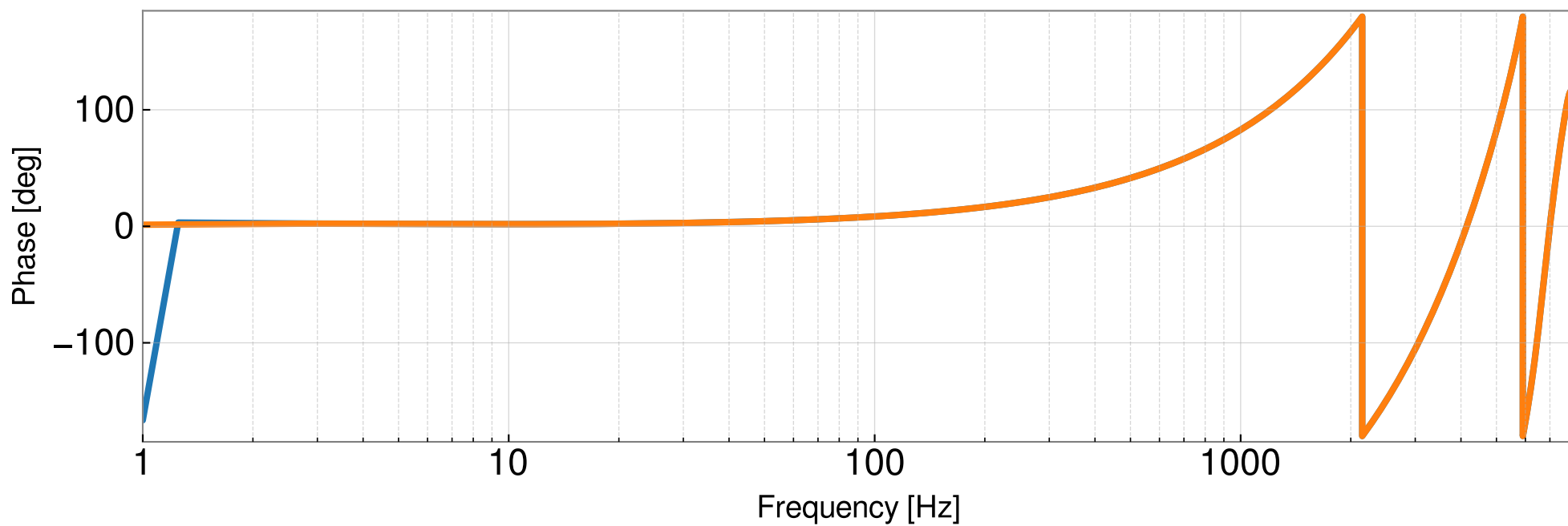
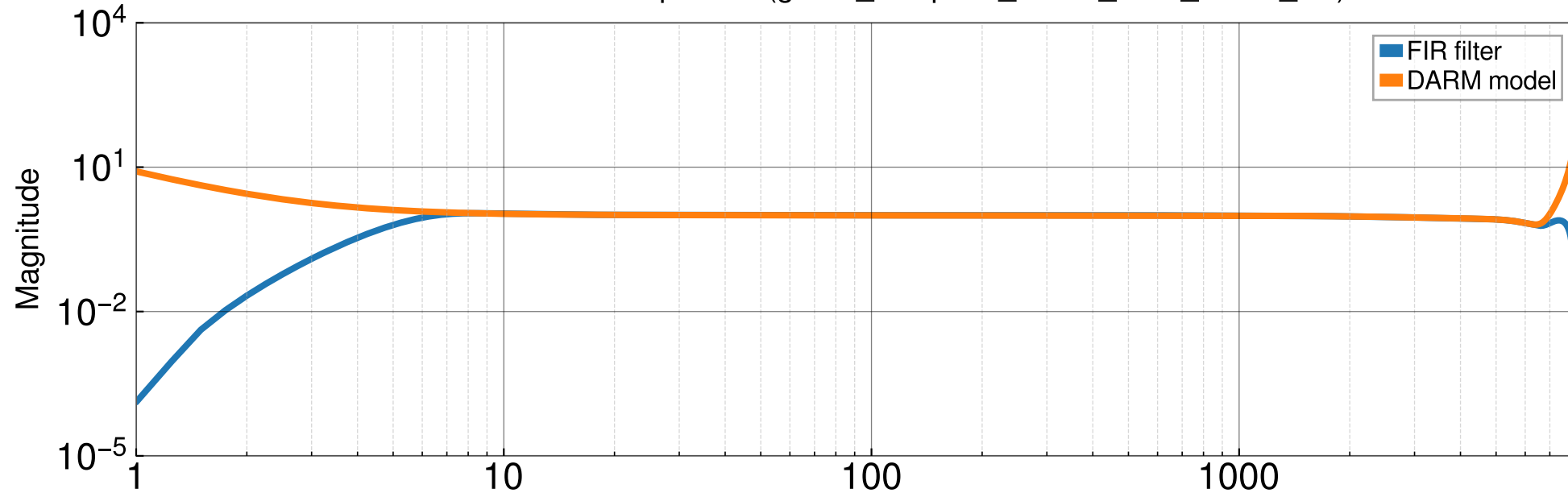
Res Corr No CC Pole comparison (gstlal_compute_strain_C00_filters_H1)



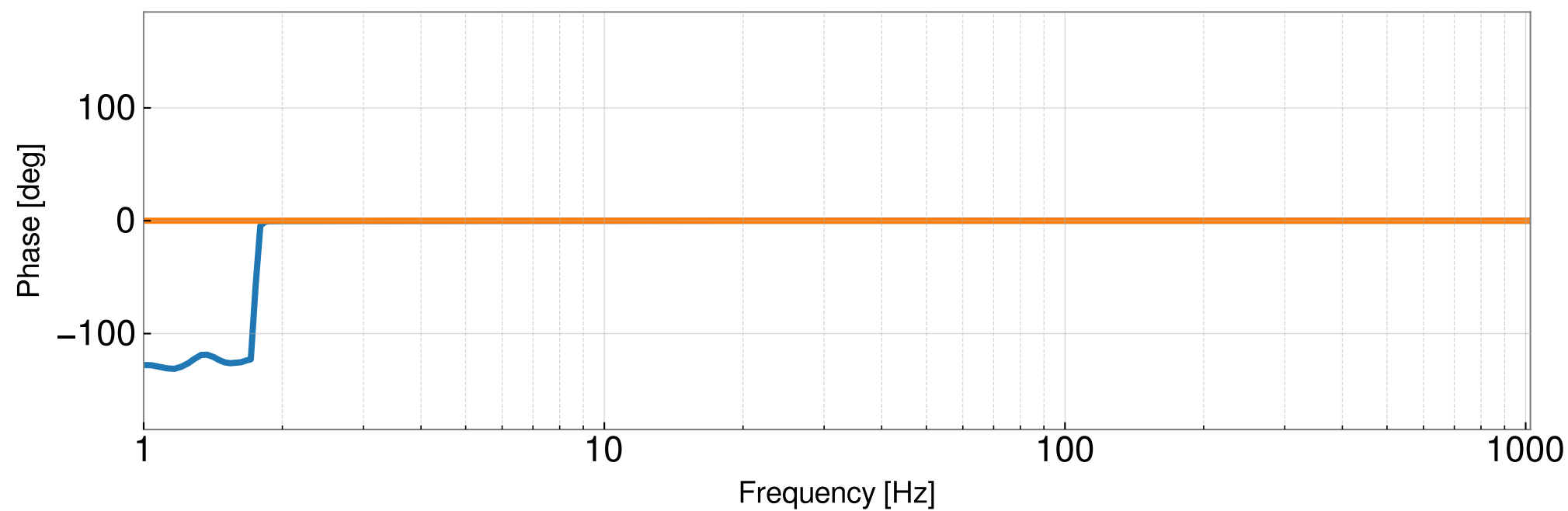
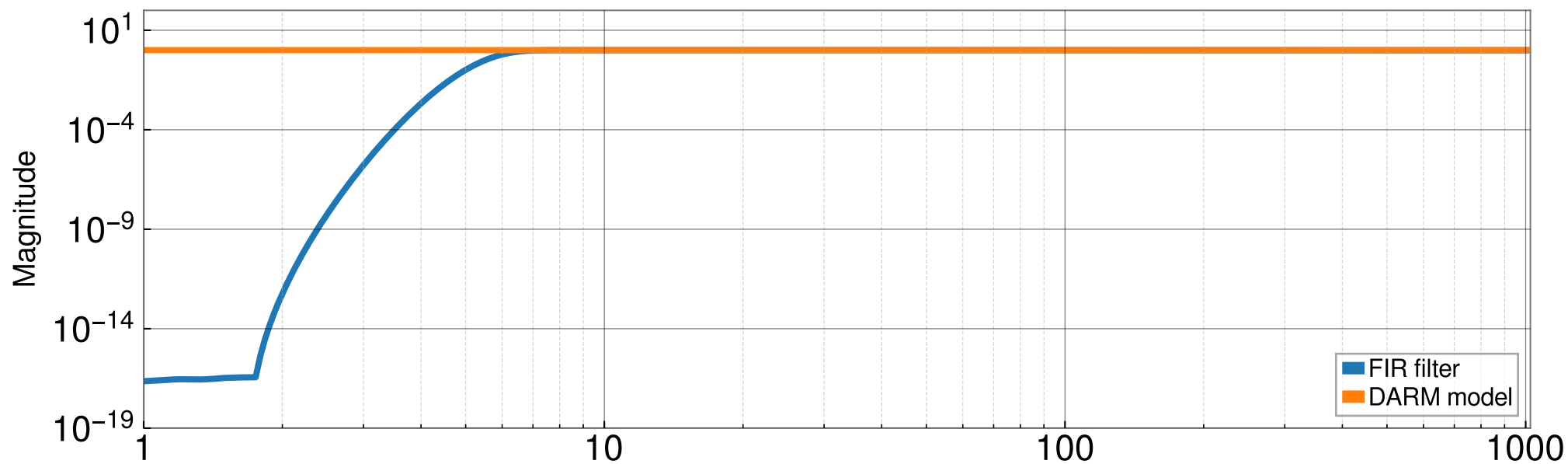
Res Corr No Pole comparison (gstlal_compute_strain_C00_filters_H1)



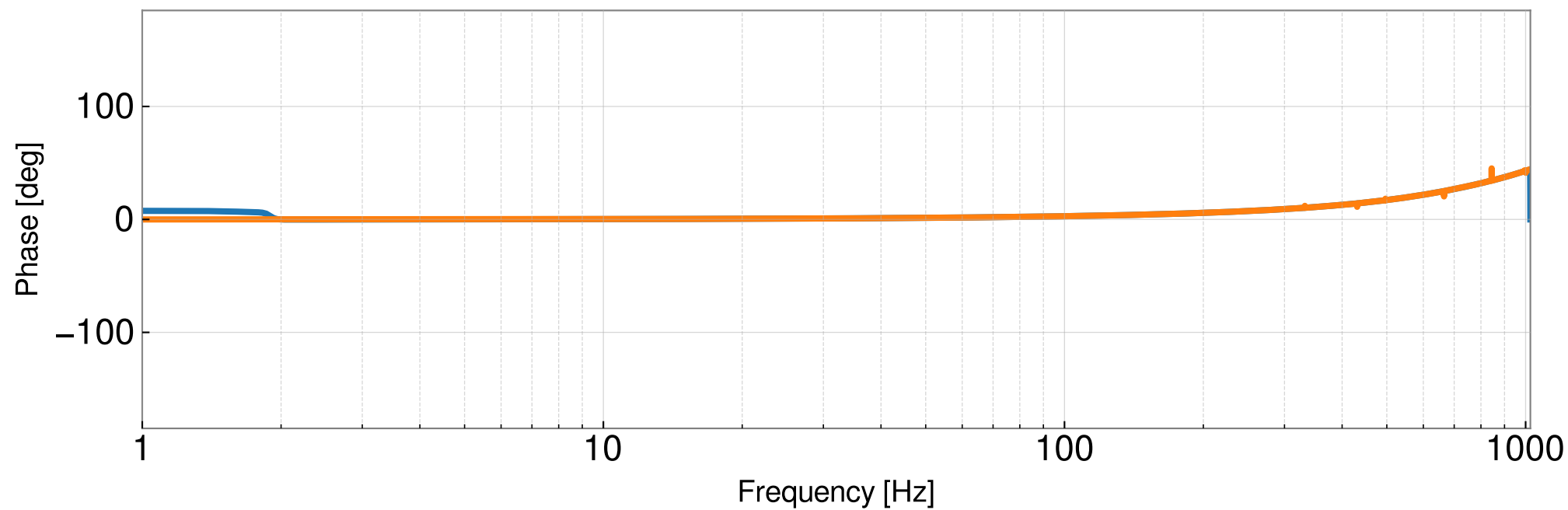
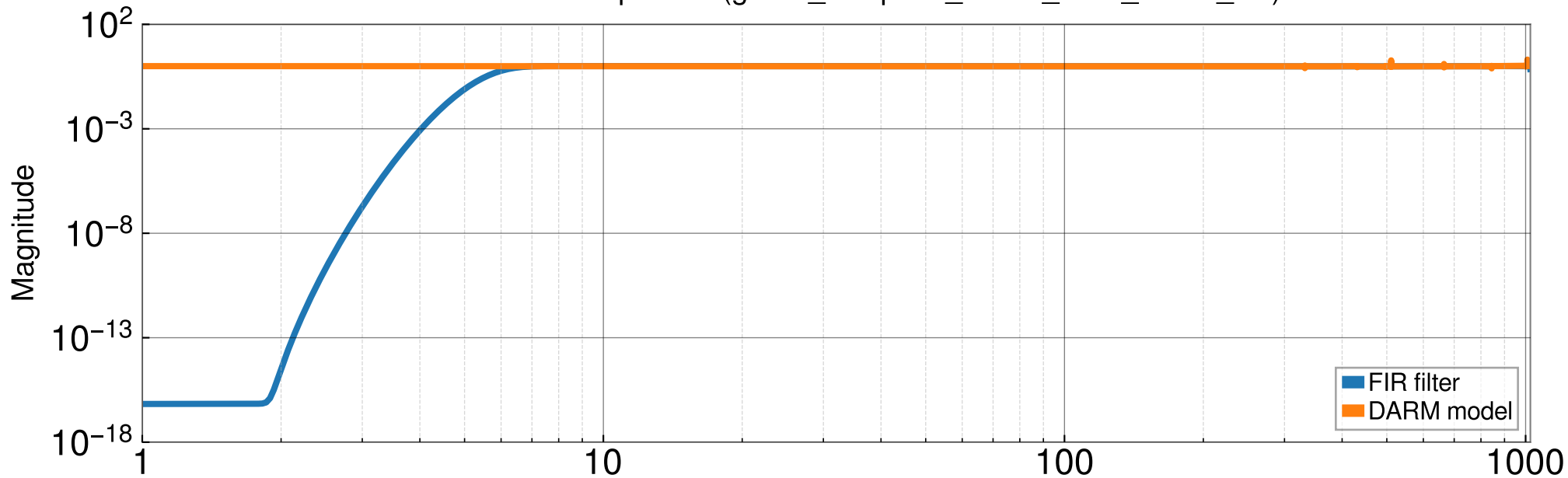
Nonsens corrections comparison (gstlal_compute_strain_C00_filters_H1)



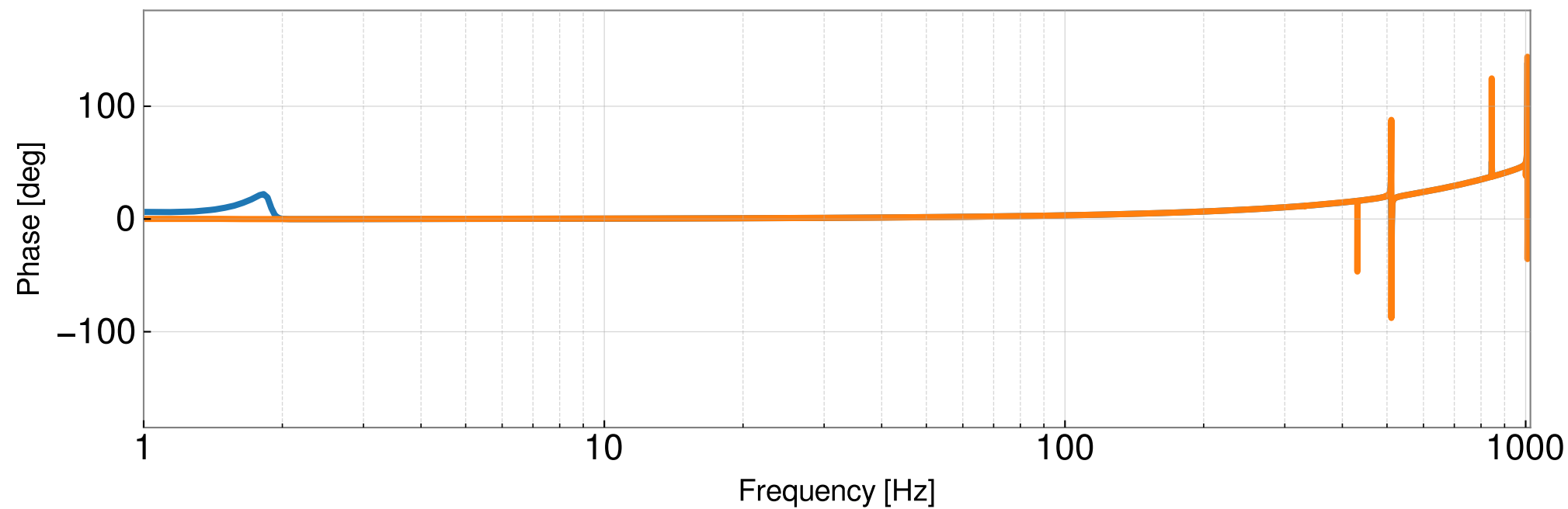
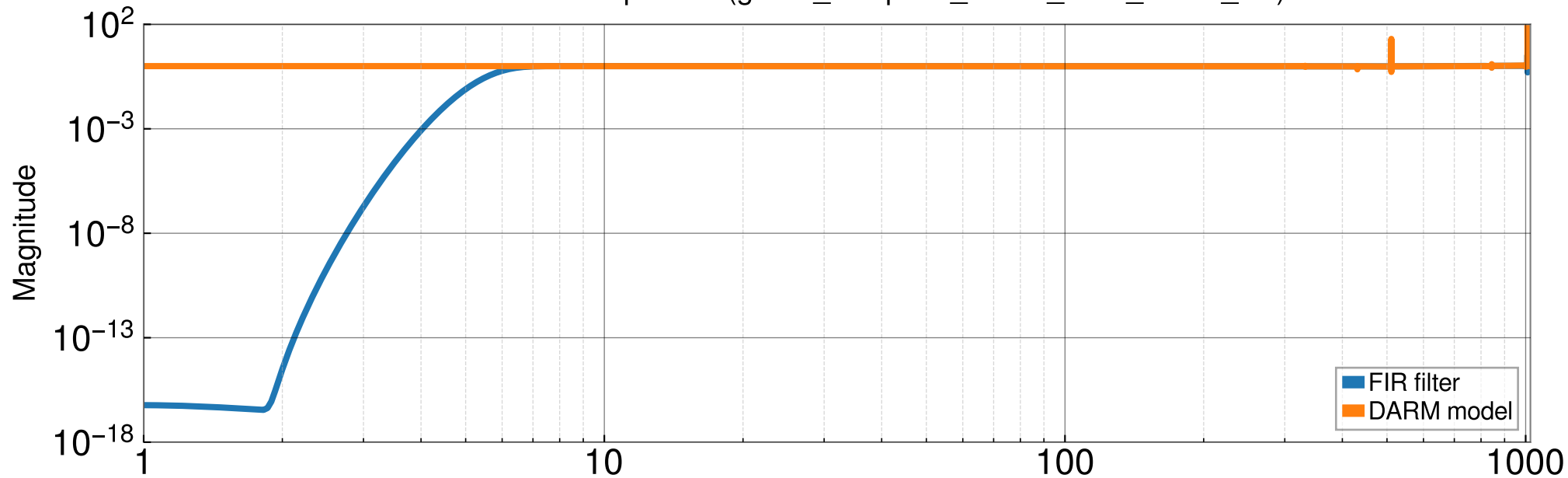
Residual corrections highpass comparison (gstlal_compute_strain_C00_filters_H1)



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)

