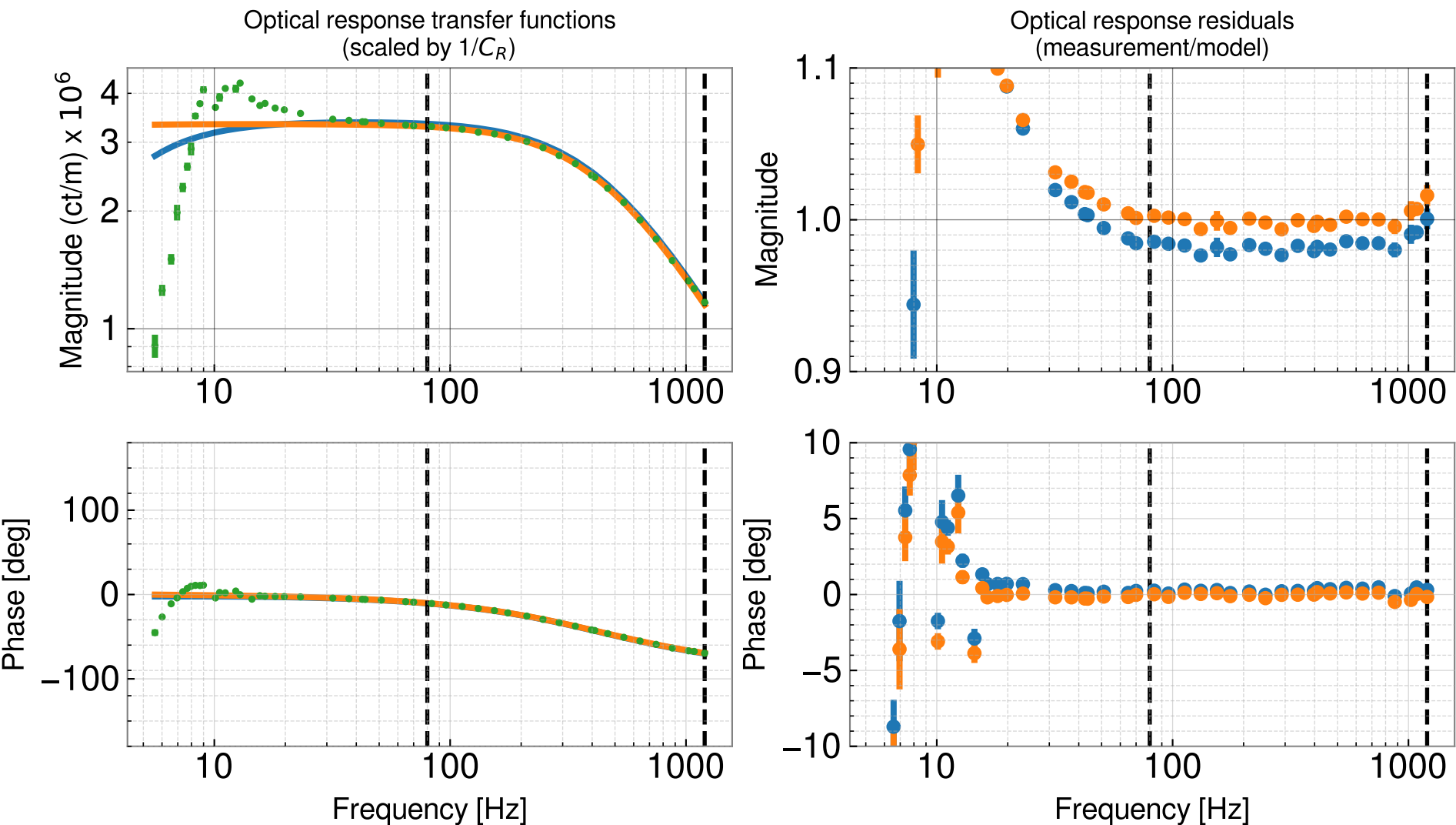
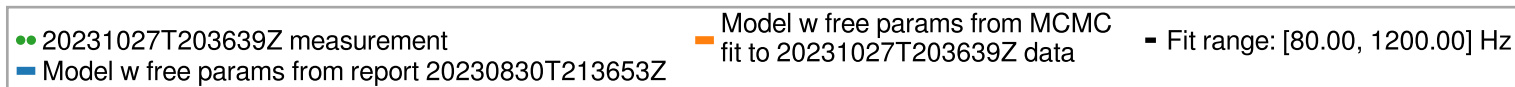


H1 sensing model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20231027T203619Z/pydarm_H1.ini

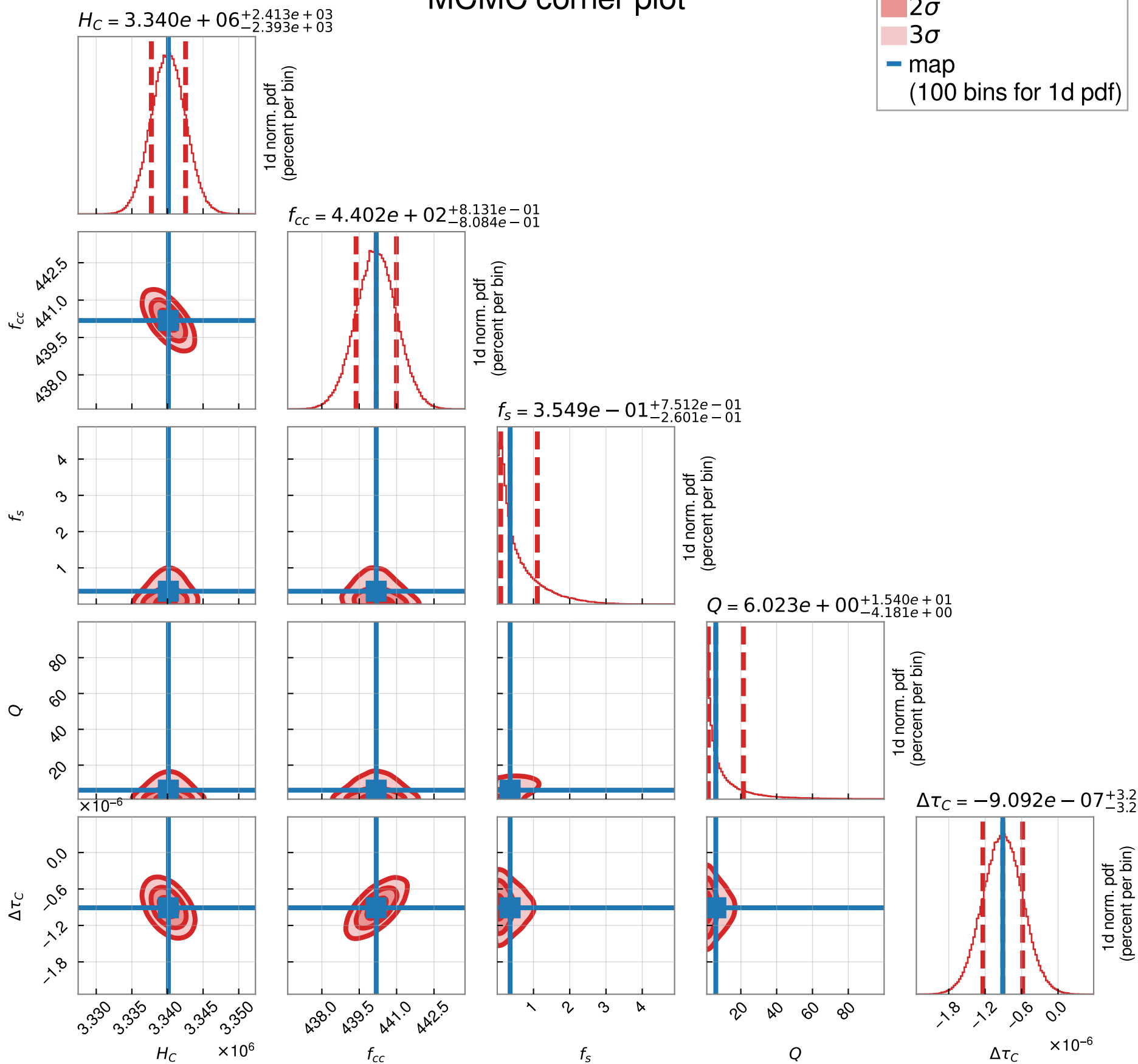


Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.34e+06	2413 (0.07%)	2393 (0.07%)
Cavity_pole, f_cc (Hz)	440.2	0.8131 (0.18%)	0.8084 (0.18%)
Detuned SRC spring frequency, f_s (Hz)	0.3549	0.7512 (211.70%)	0.2601 (73.30%)
Detuned SRC spring quality factor, Q_s	6.023	15.4 (255.64%)	4.181 (69.41%)
Residual time delay, tau_c (s)	-9.092e-07	3.268e-07 (-35.95%)	3.281e-07 (-36.08%)

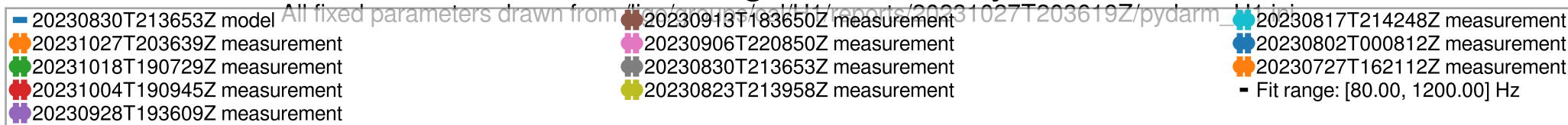
2d pdf contours

- 1 σ
- 2 σ
- 3 σ
- map

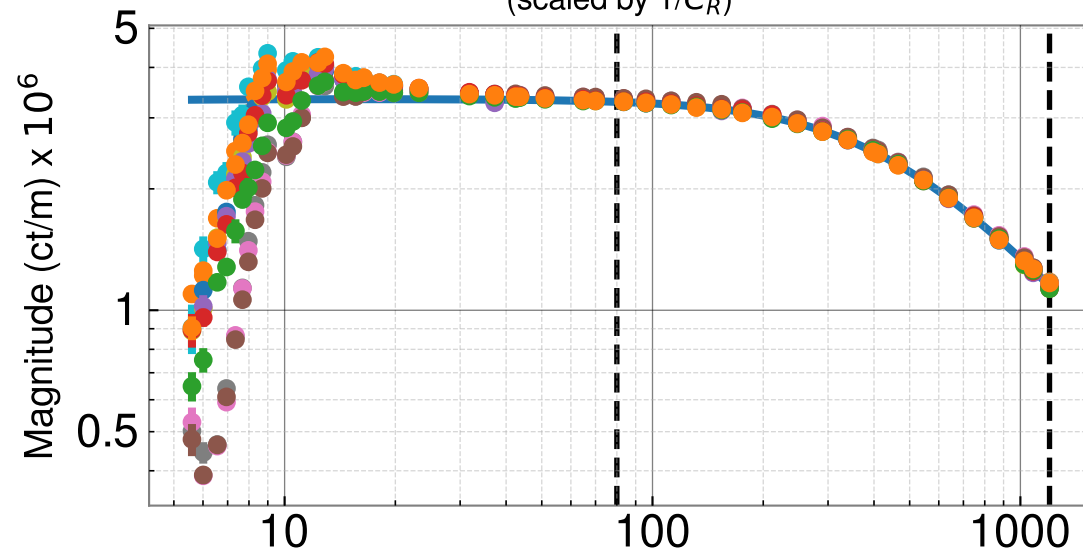
(100 bins for 1d pdf)



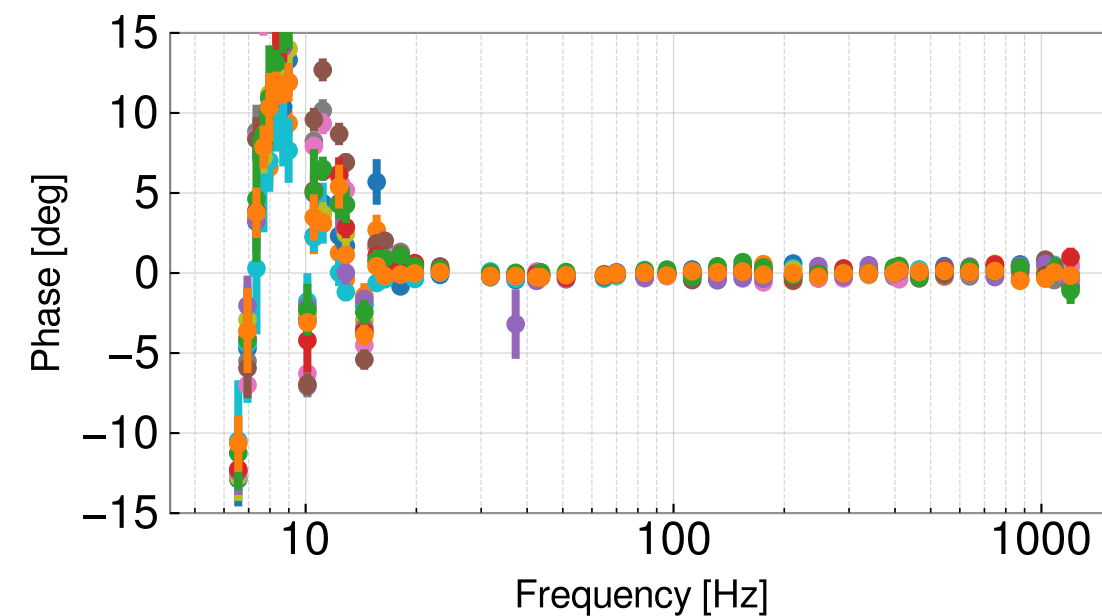
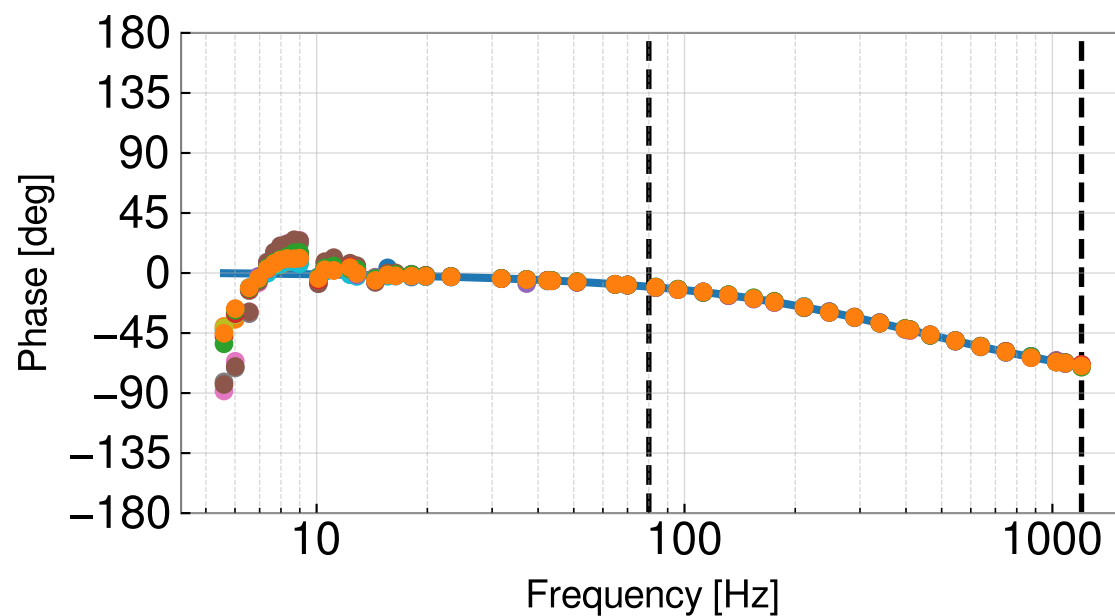
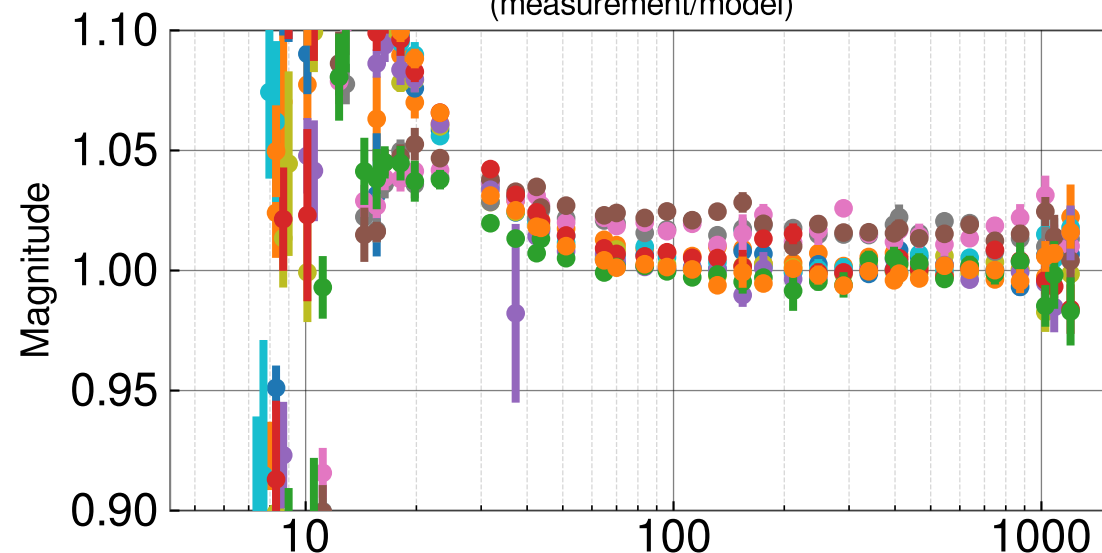
H1 sensing model history



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

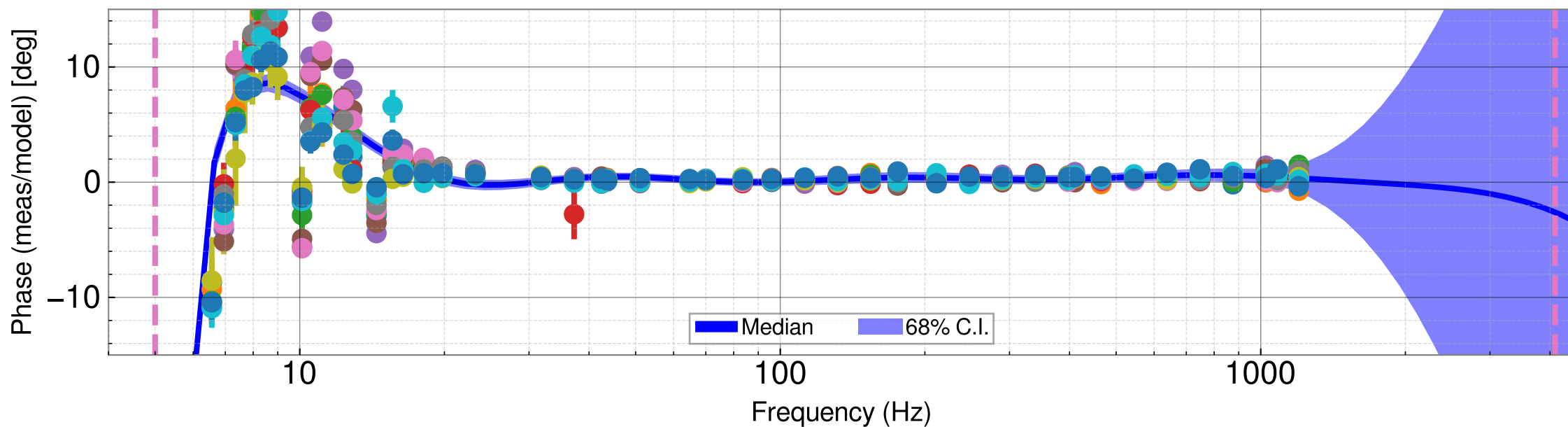
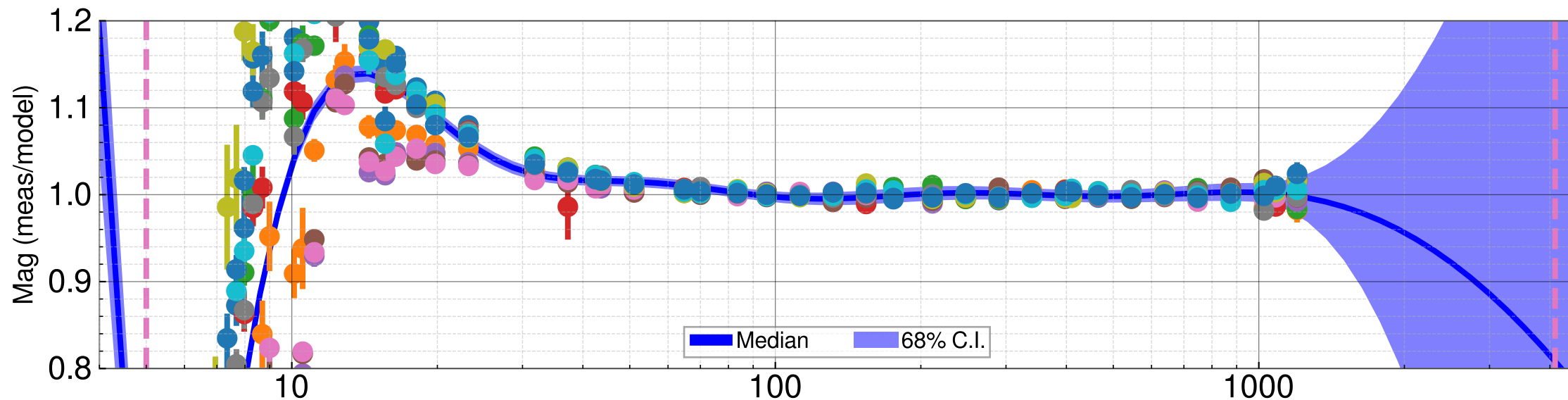


Optical response residuals
(measurement/model)



Sensing GPR

meas. 20231027T203639Z of report 20231027T203619Z
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. 20230823T214018Z of report 20230823T213958Z
meas. 20230817T214308Z of report 20230817T214248Z
meas. 20230802T000832Z of report 20230802T000812Z
meas. 20230727T162132Z of report 20230727T162112Z

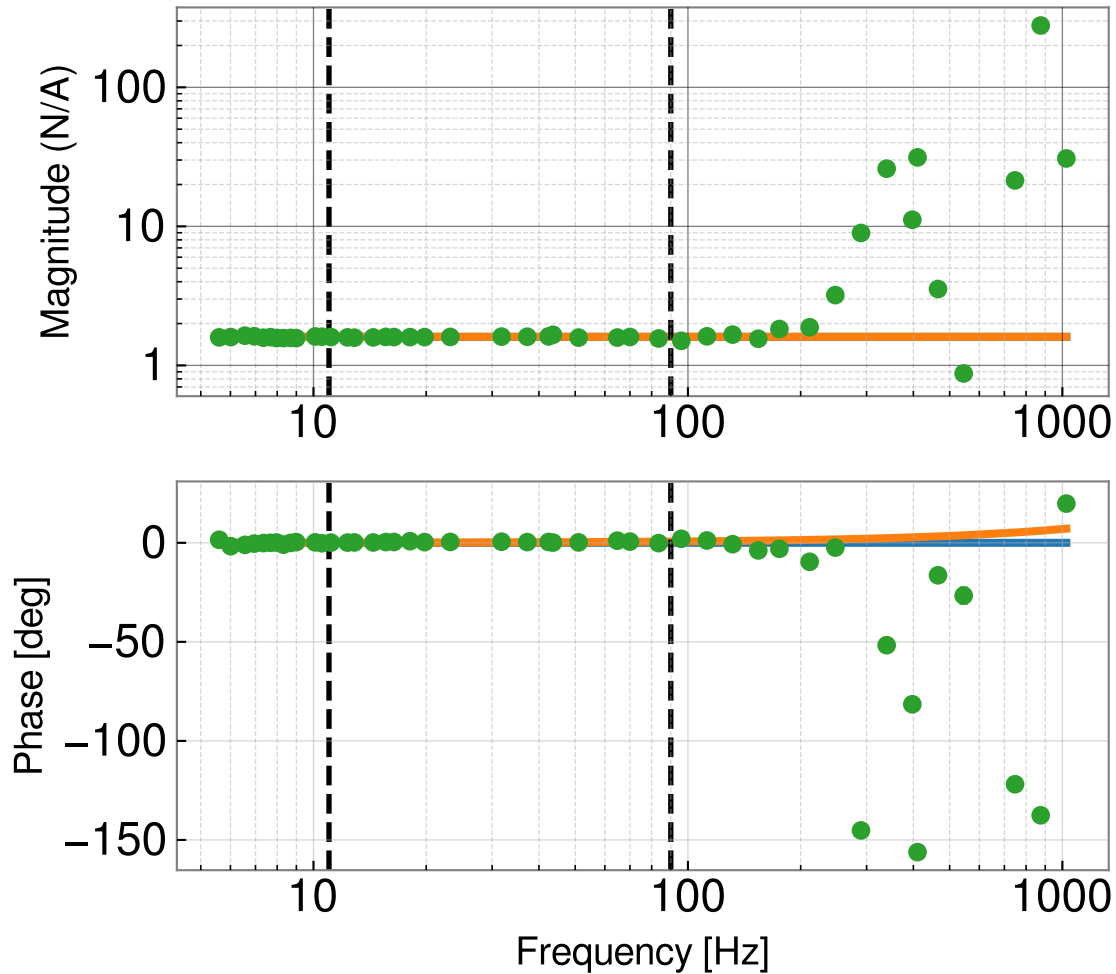


H1SUSEX L1 actuation model MCMC summary

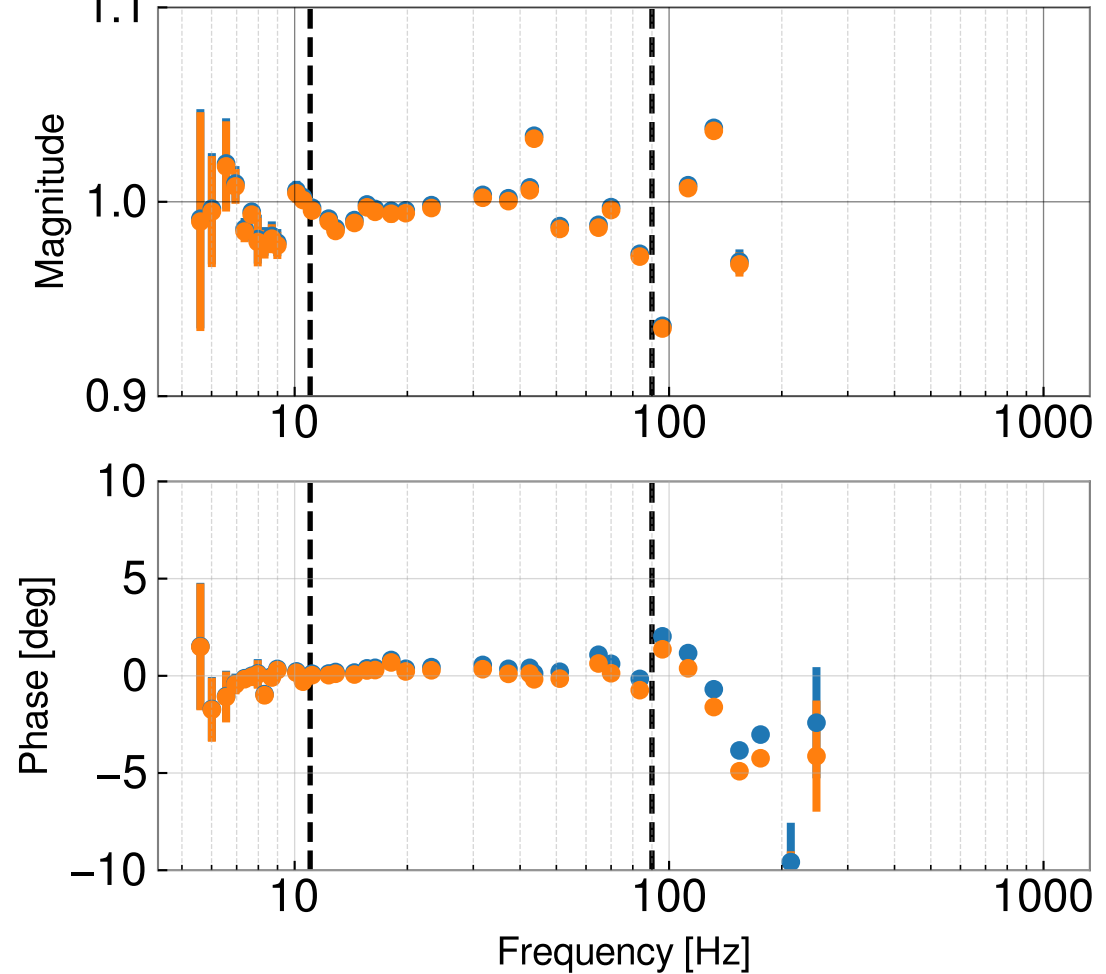
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20231027T203619Z/pydarm_H1.ini



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



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

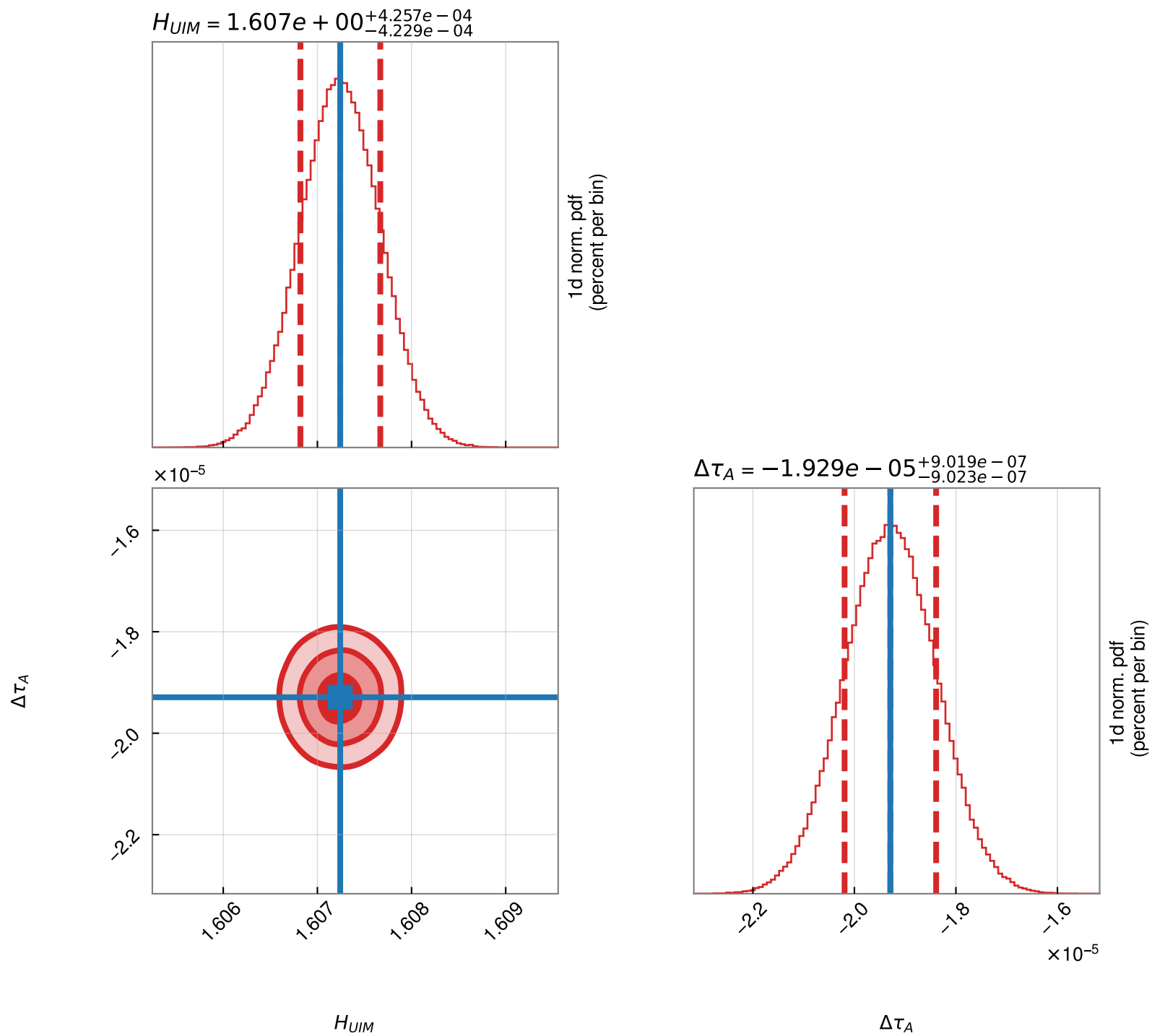


Parameter	(value +/-) value	+	-
Actuation Gain, Hau (N/A)	1.607	0.0004257 (0.03%)	0.0004229 (0.03%)
Residual time delay, tau_A (s)	-1.929e-05	9.019e-07 (-4.68%)	9.023e-07 (-4.68%)

2d pdf contours

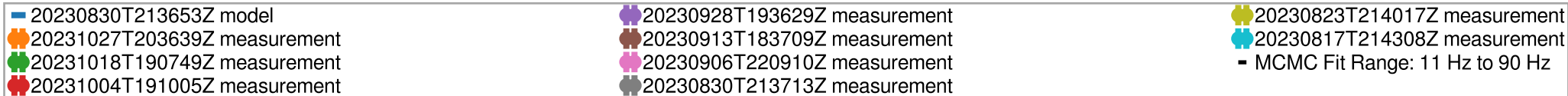
- 1σ
- 2σ
- 3σ
- map

(100 bins for 1d pdf)

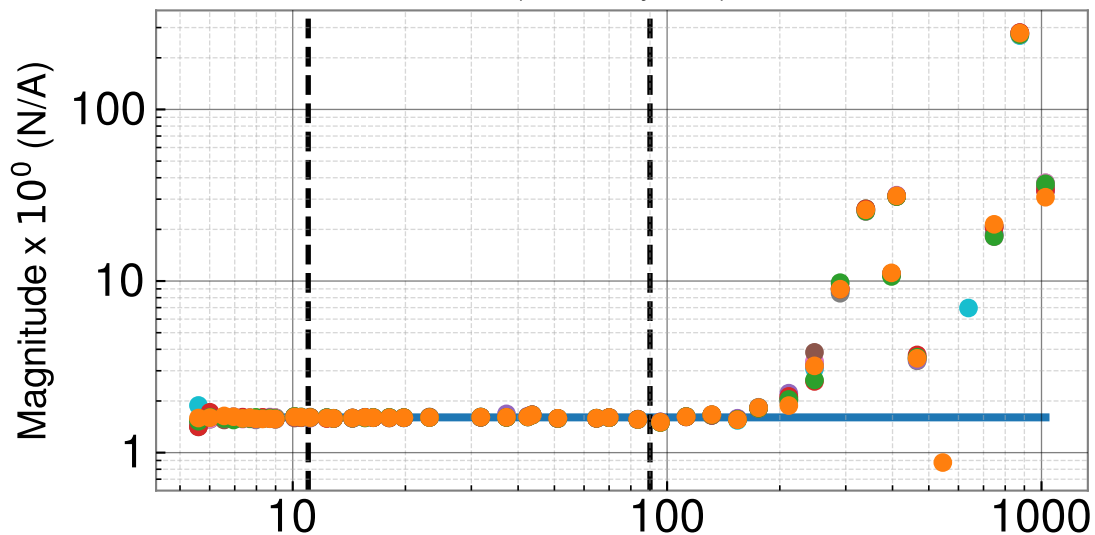


H1 SUSEX L1 actuation model history

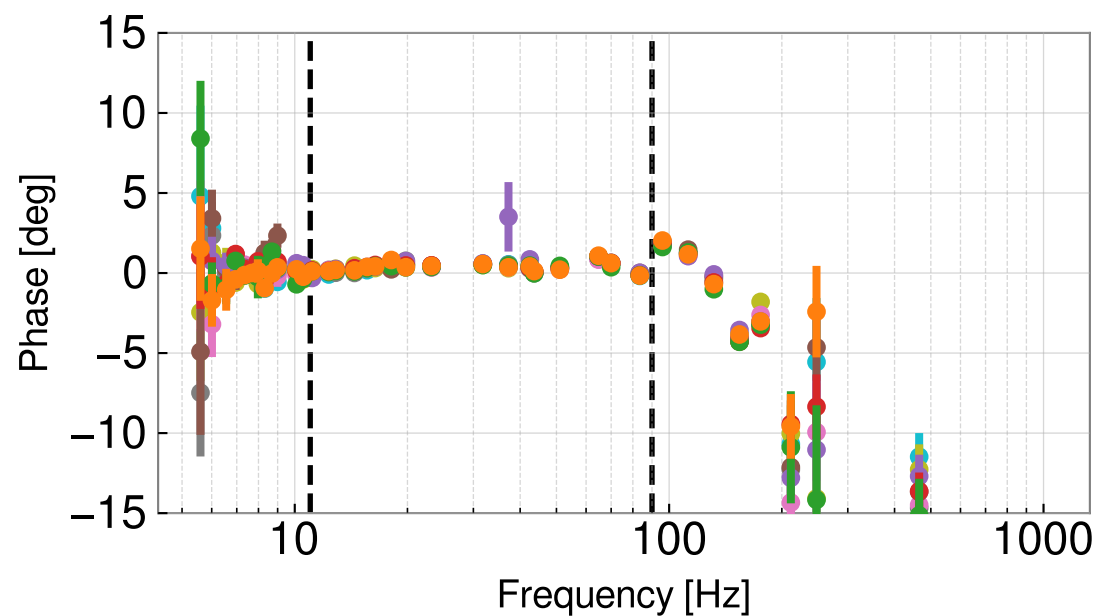
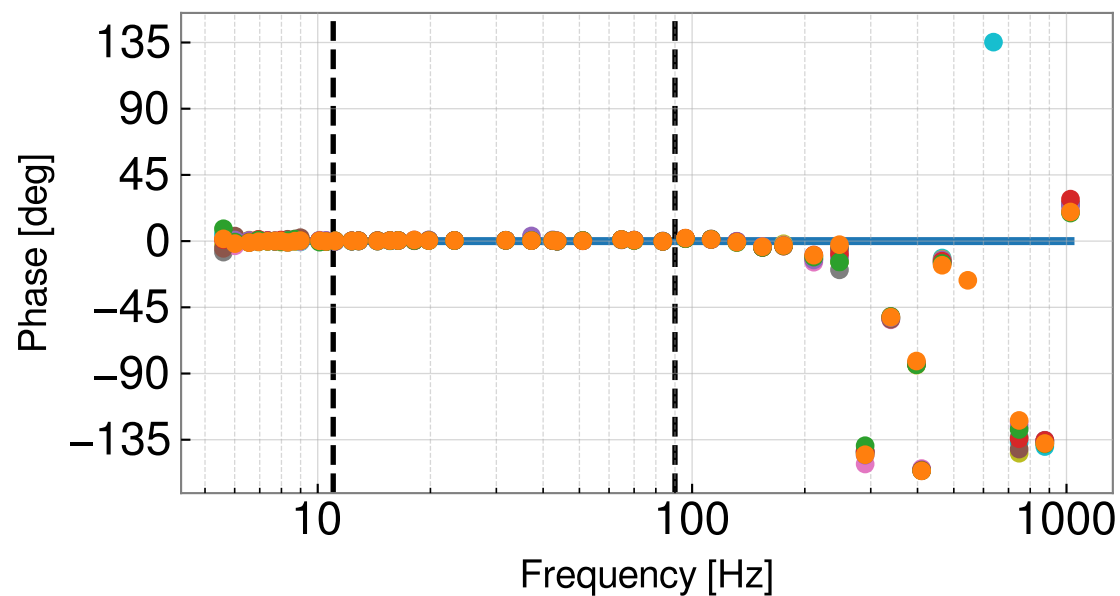
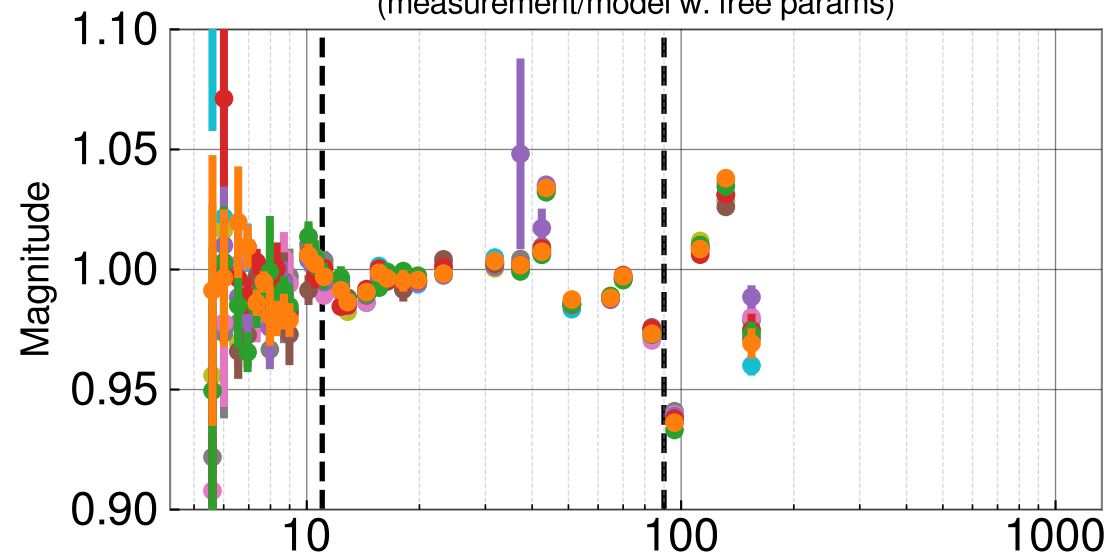
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20231027T203619Z/pydarm_H1.ini`



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



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

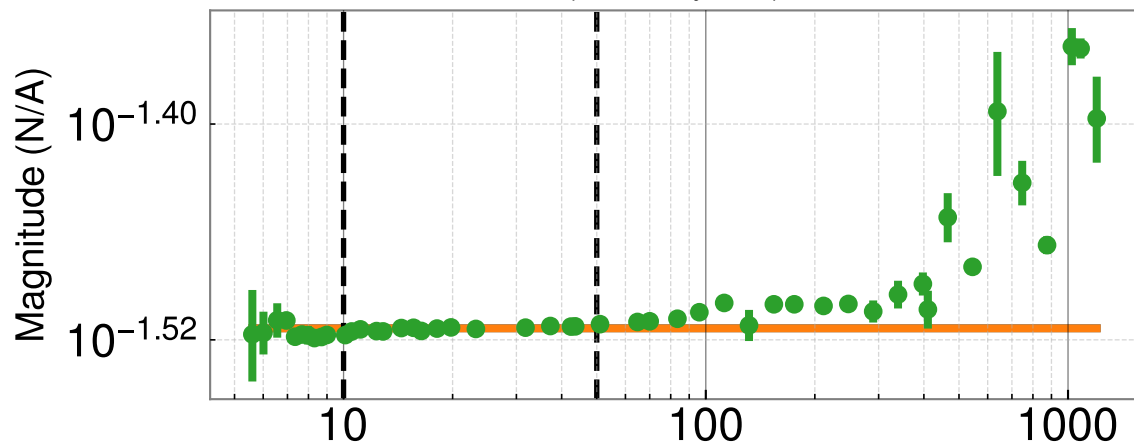


H1SUSEX L2 actuation model MCMC summary

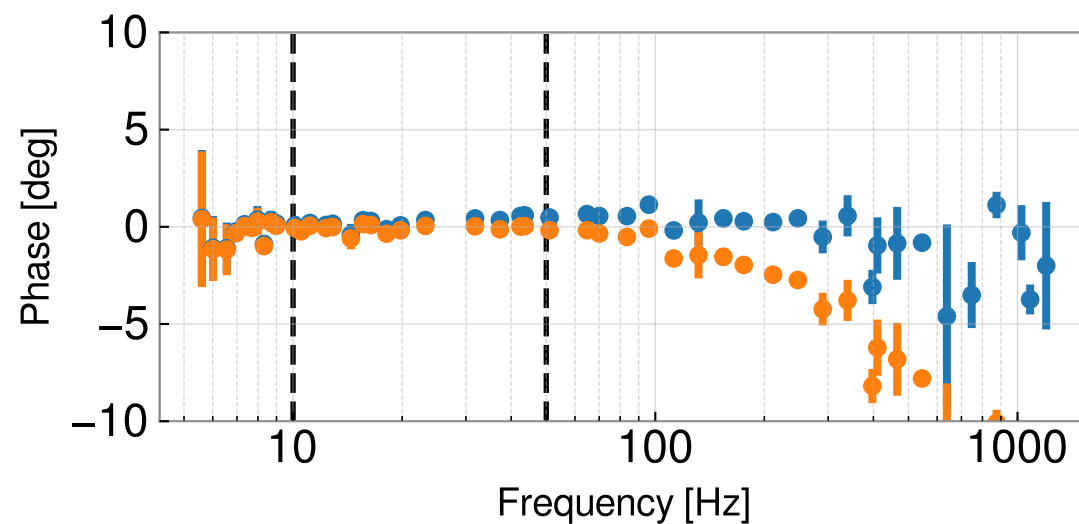
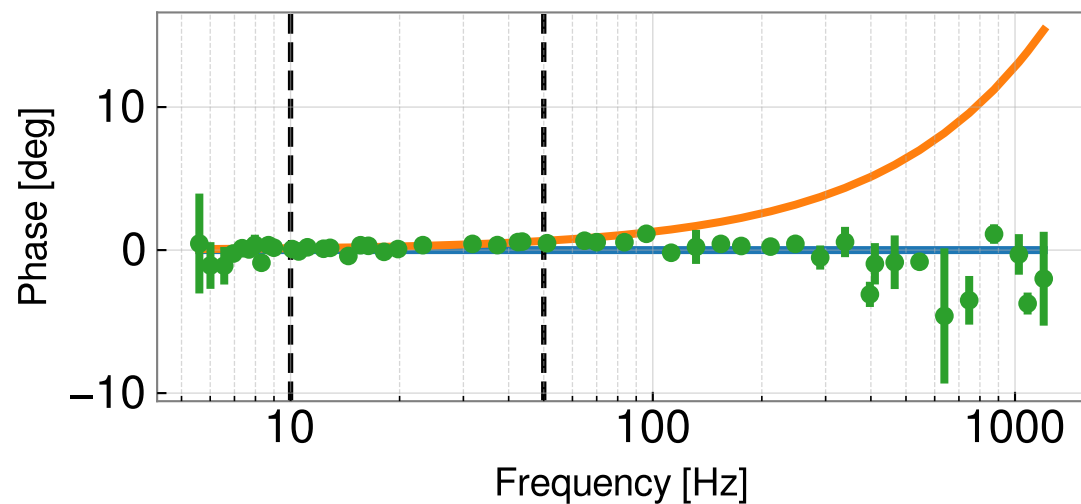
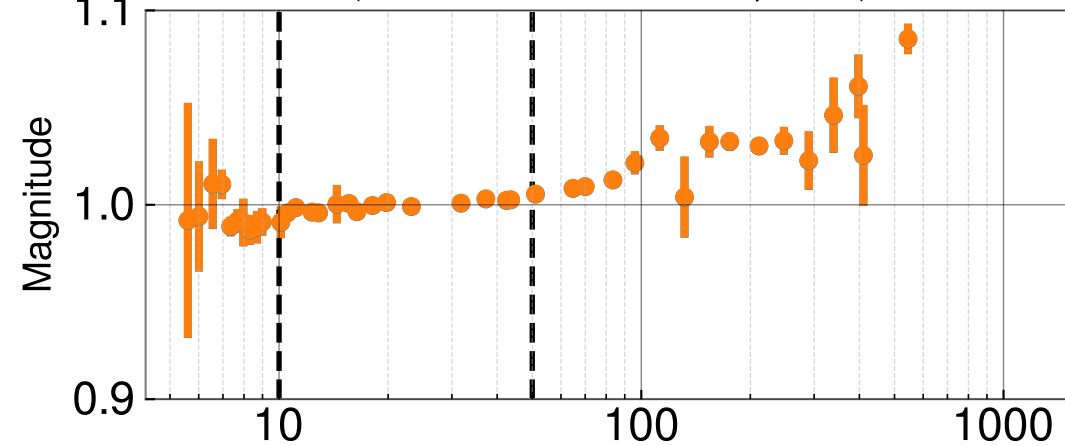
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20231027T203619Z/pydarm_H1.ini



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

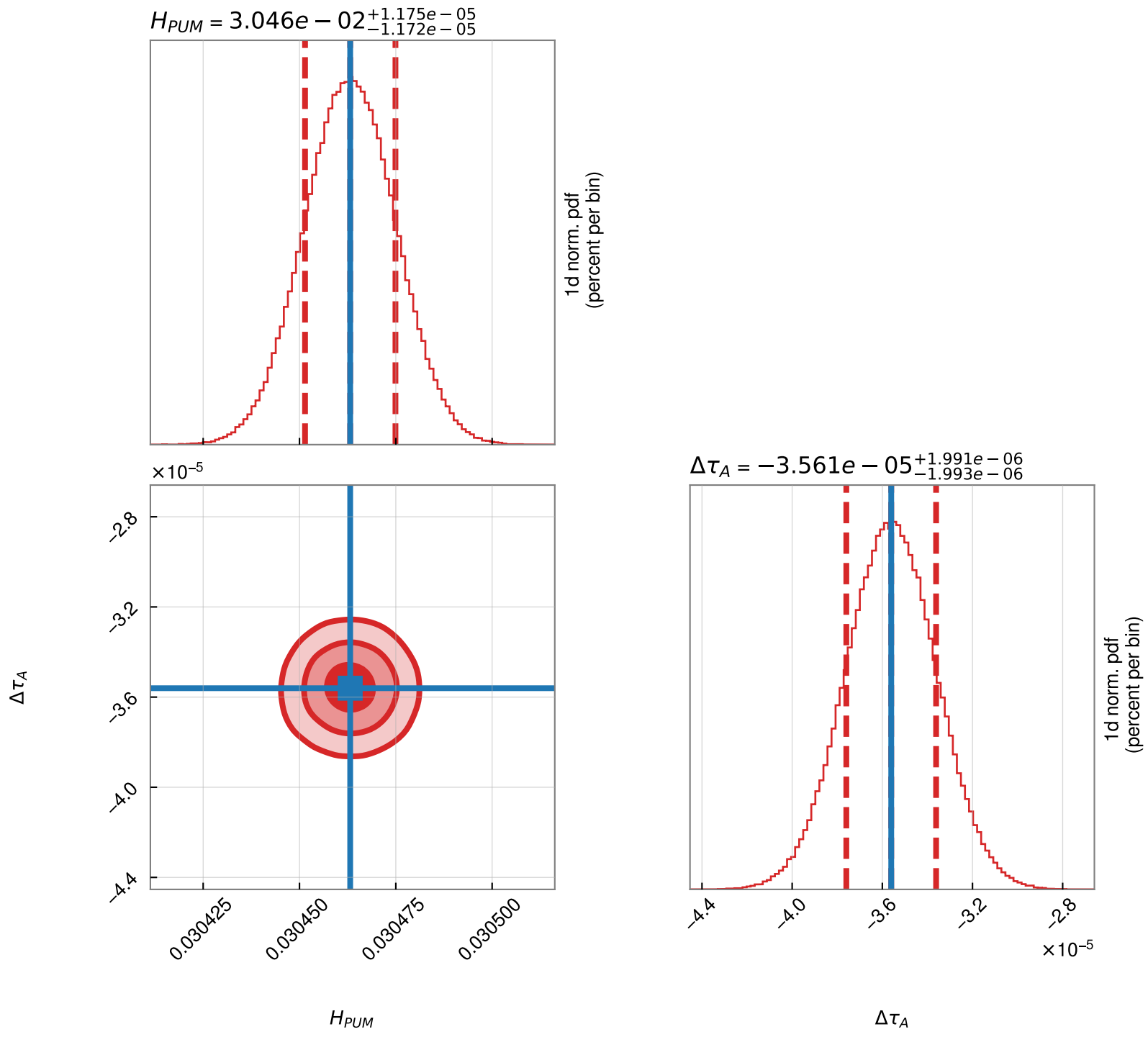
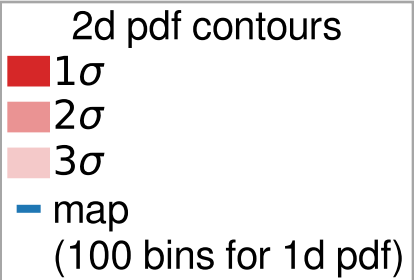


Actuation strength residuals
(measurement/model w. free params)



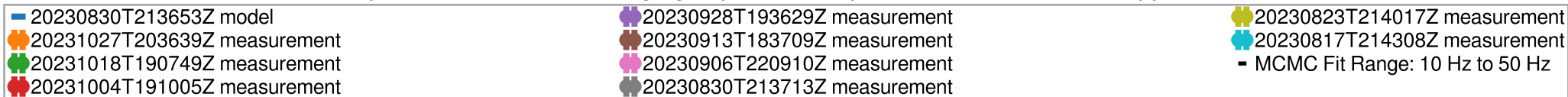
Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.03046	1.175e-05 (0.04%)	1.172e-05 (0.04%)
Residual time delay, tau_A (s)	-3.561e-05	1.991e-06 (-5.59%)	1.993e-06 (-5.60%)

20231027T203639Z EX L2 actuation
MCMC corner plot

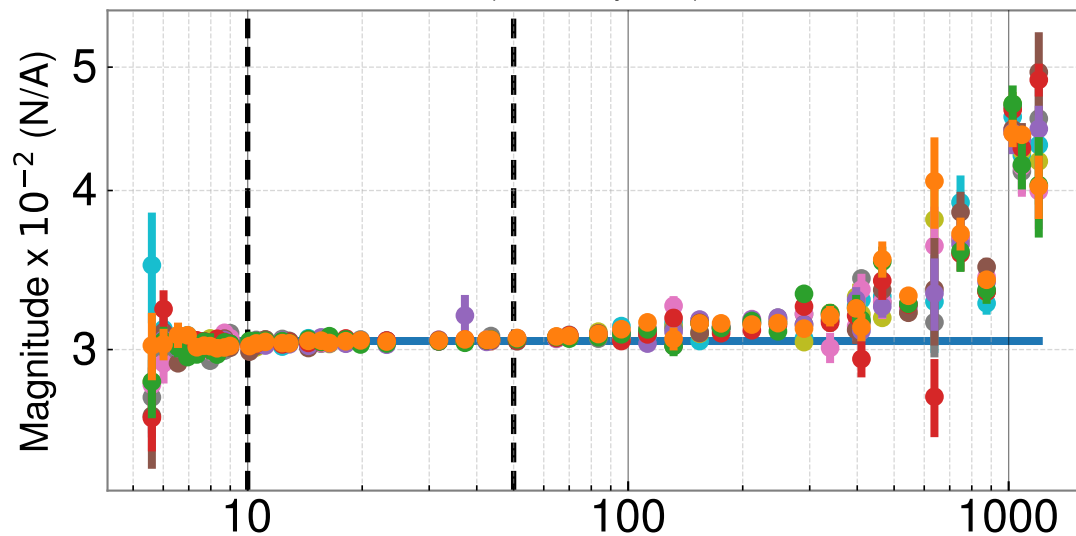


H1 SUSEX L2 actuation model history

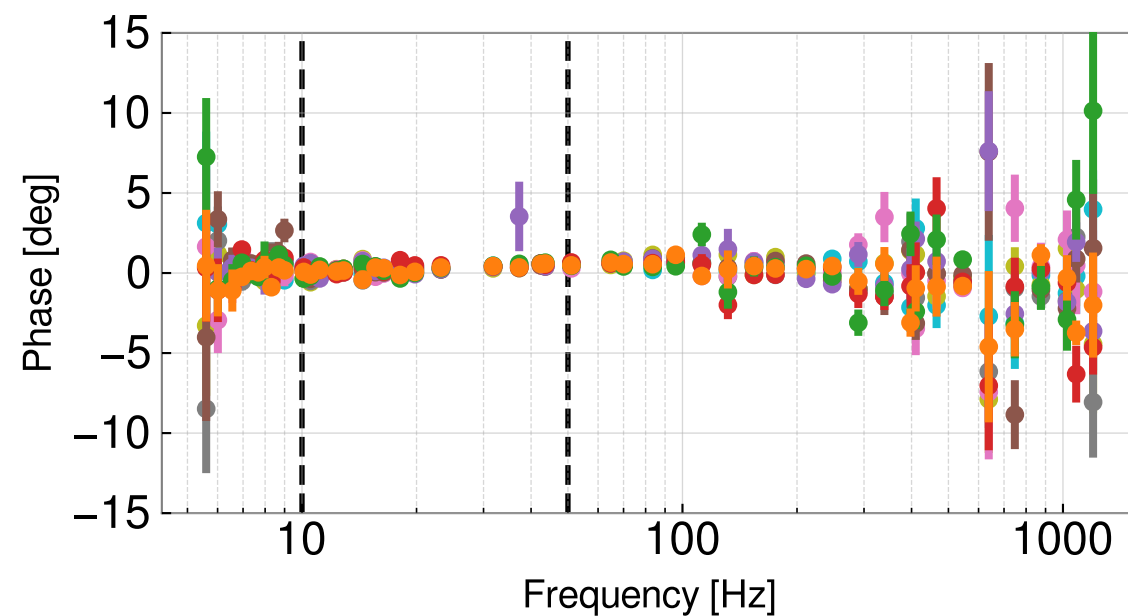
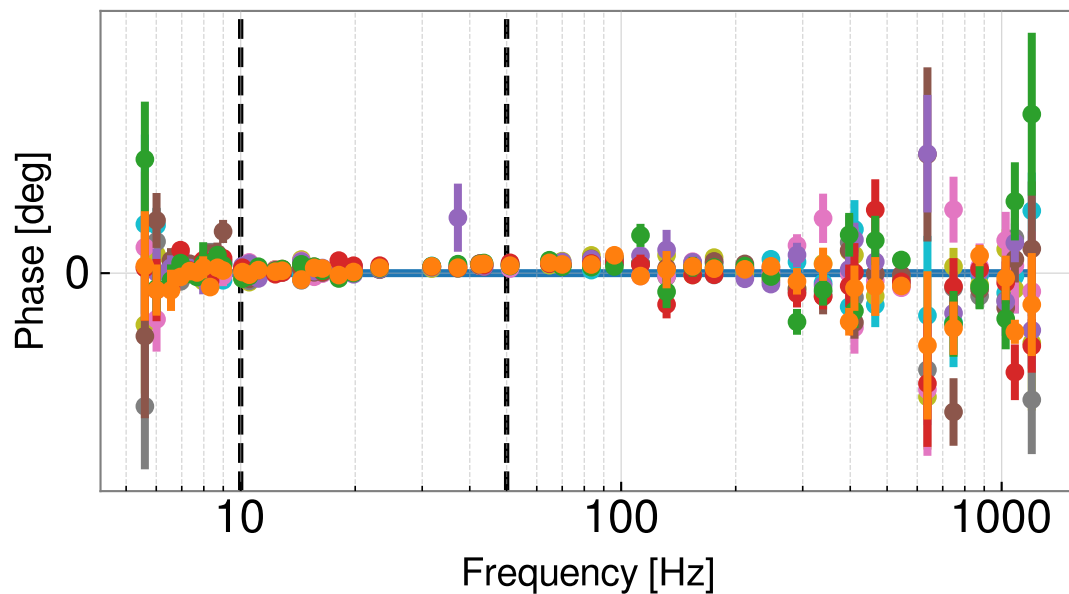
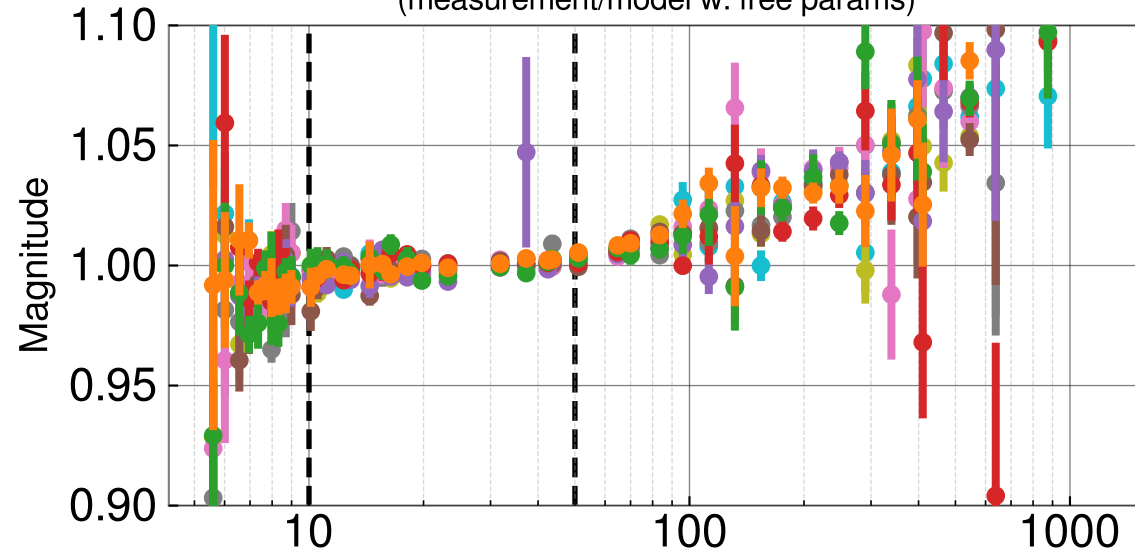
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20231027T203619Z/pydarm_H1.ini



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



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

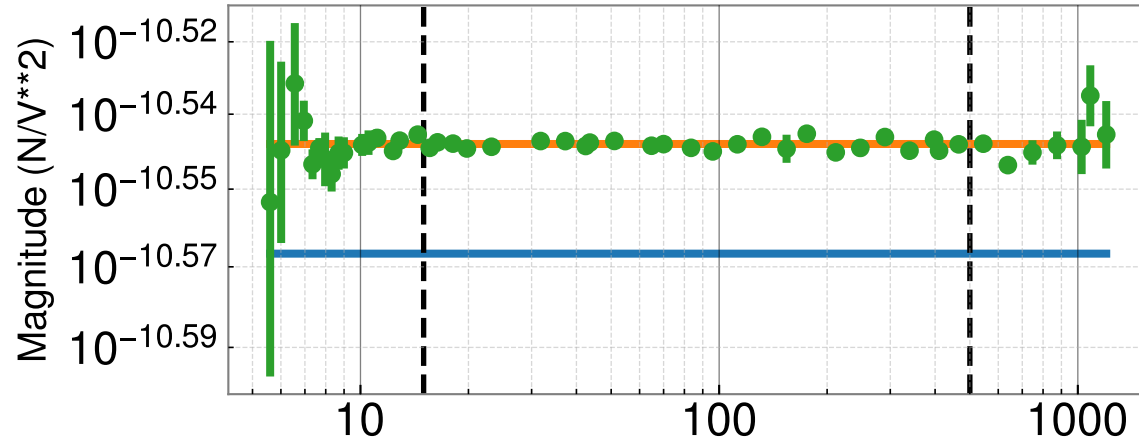


H1SUSEX L3 actuation model MCMC summary

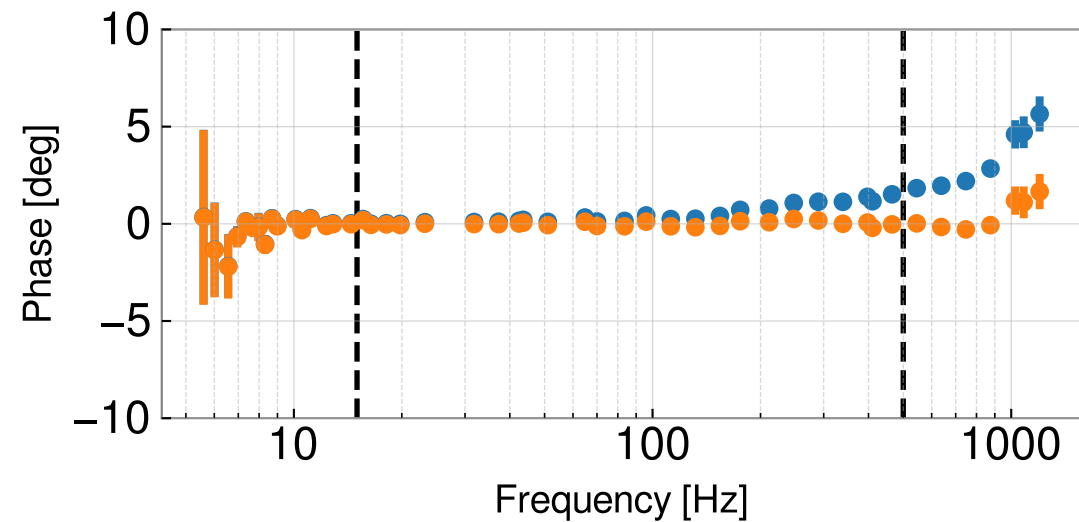
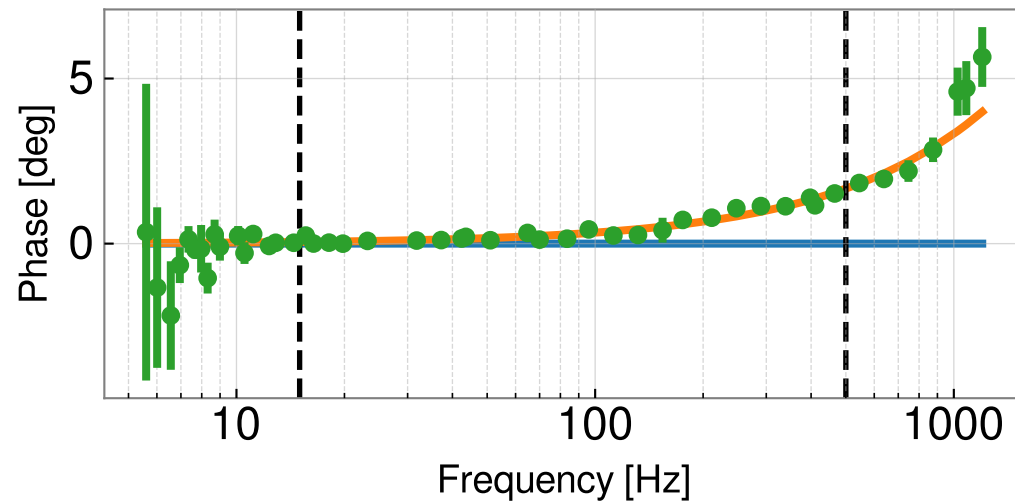
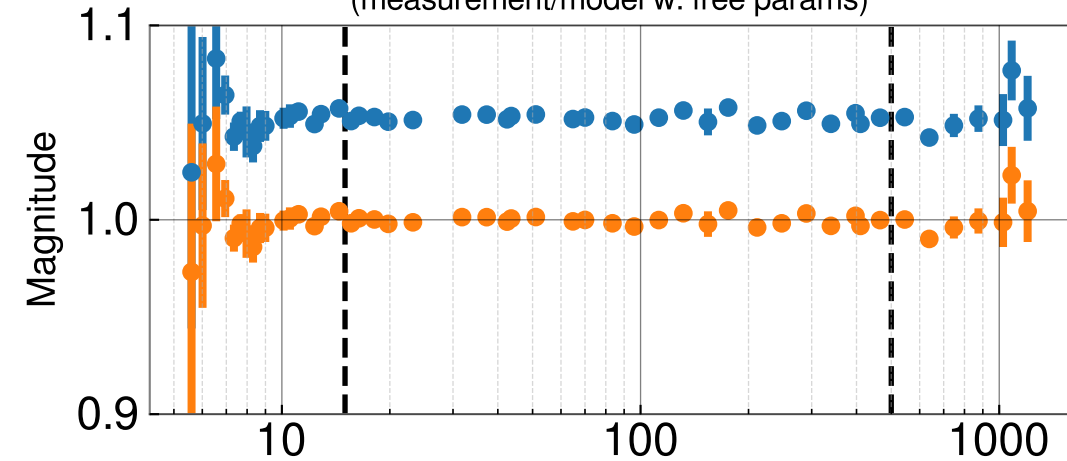
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20231027T203619Z/pydarm_H1.ini



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

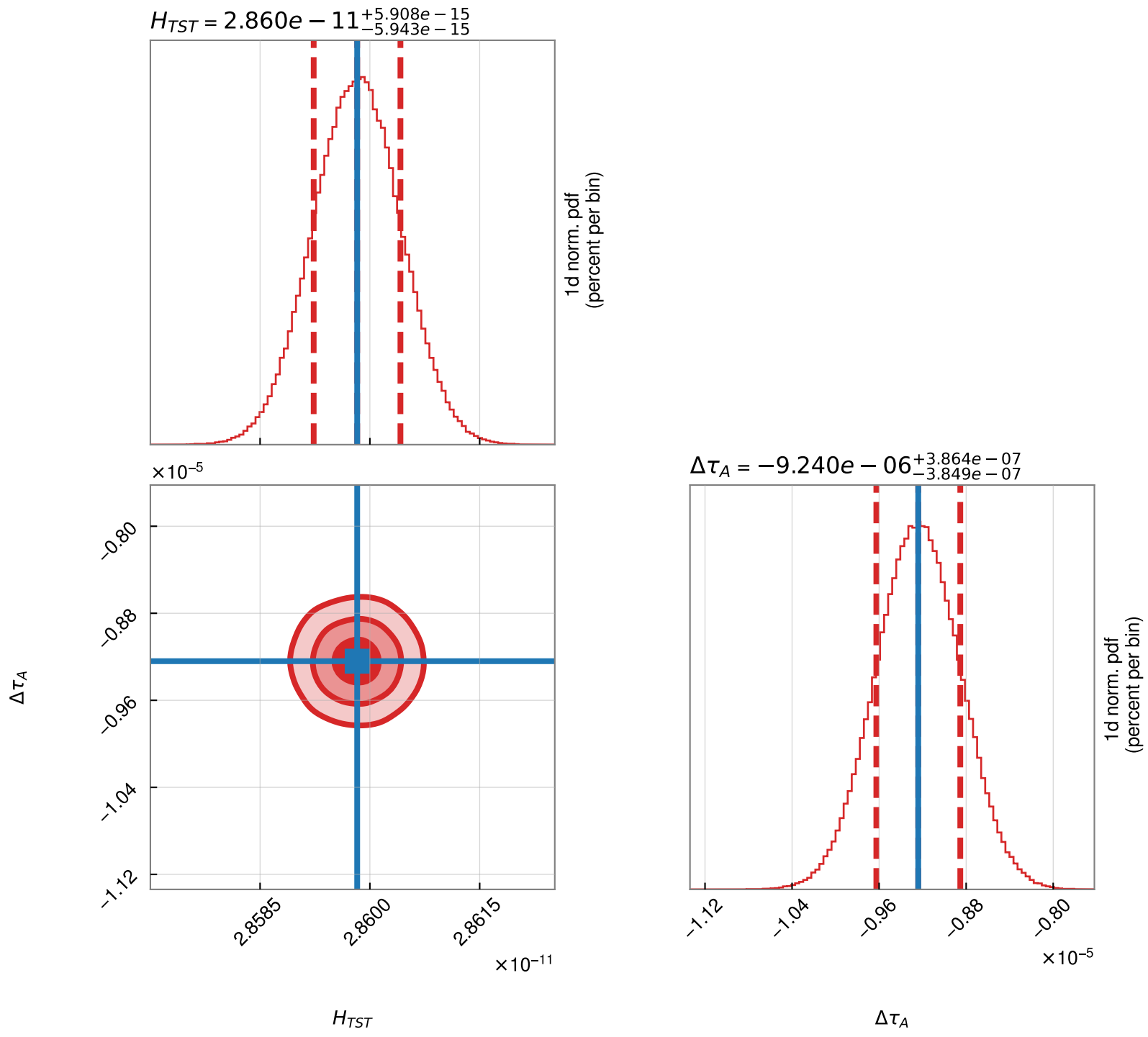
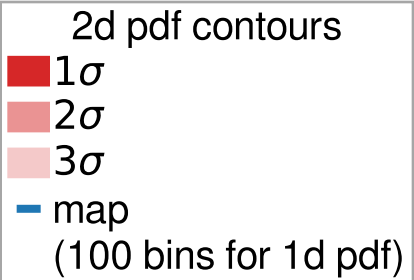


Actuation strength residuals
(measurement/model w. free params)



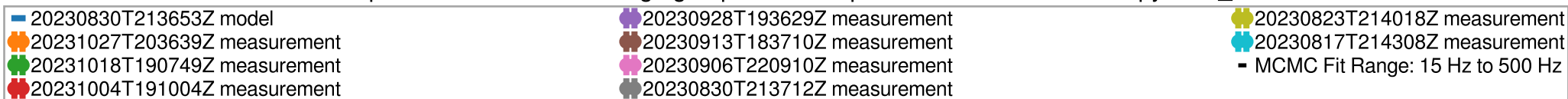
Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V^{**2})	2.86e-11	5.908e-15 (0.02%)	5.943e-15 (0.02%)
Residual time delay, tau_A (s)	-9.24e-06	3.864e-07 (-4.18%)	3.849e-07 (-4.17%)

20231027T203639Z EX L3 actuation
MCMC corner plot

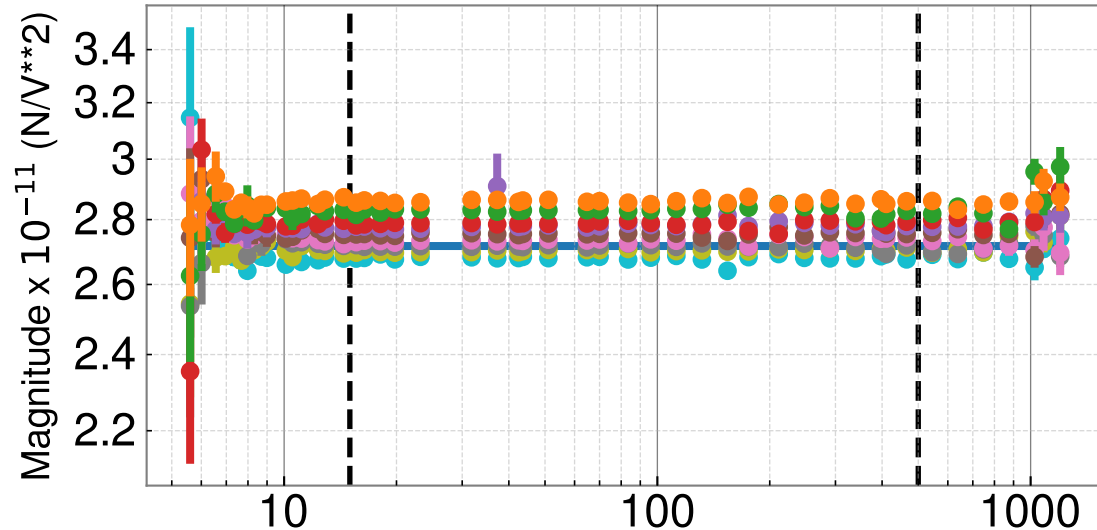


H1 SUSEX L3 actuation model history

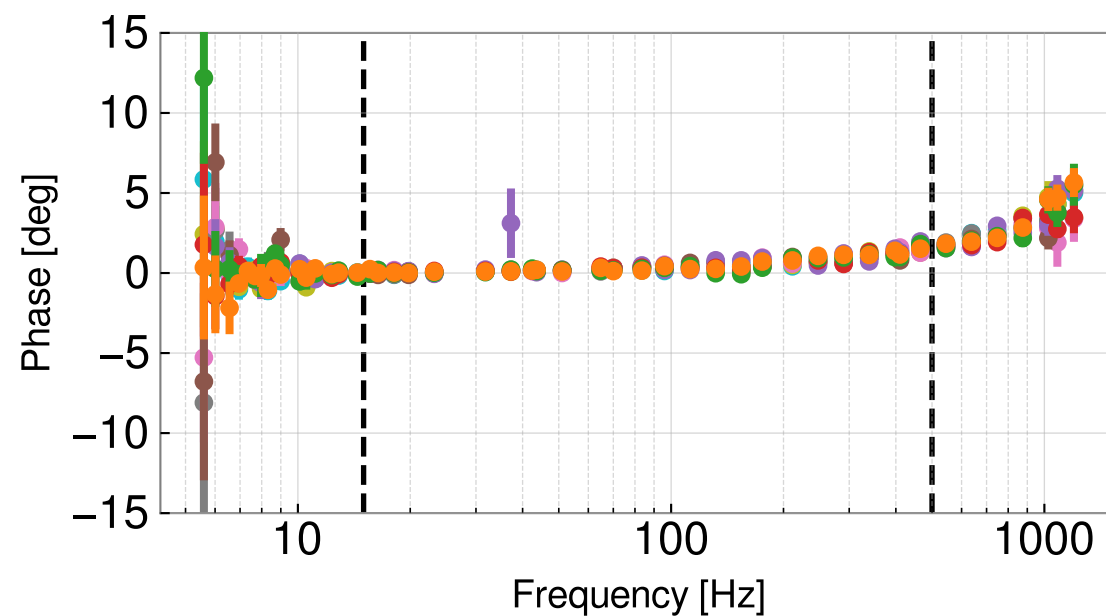
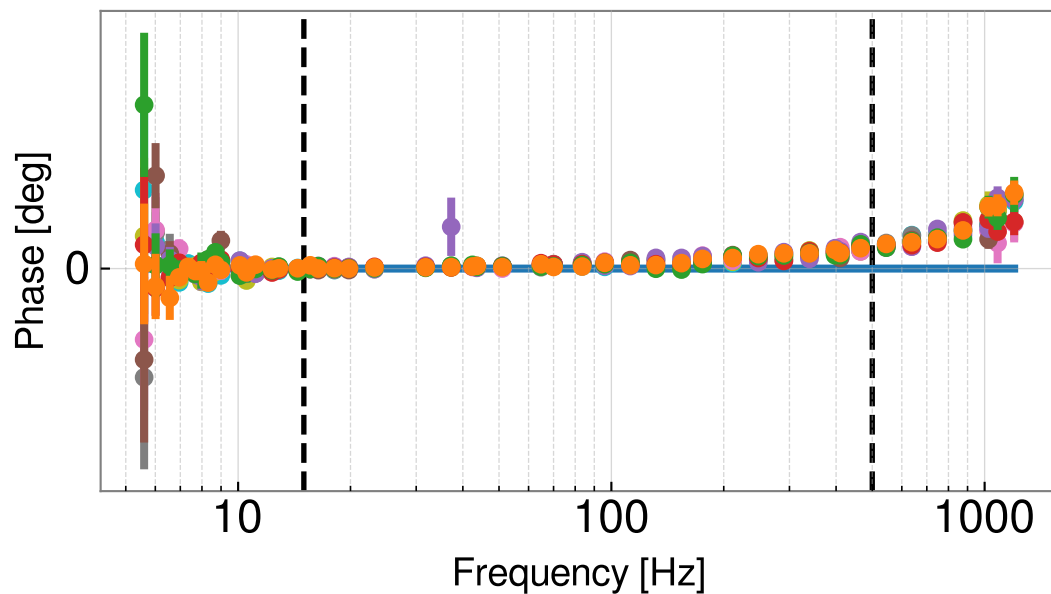
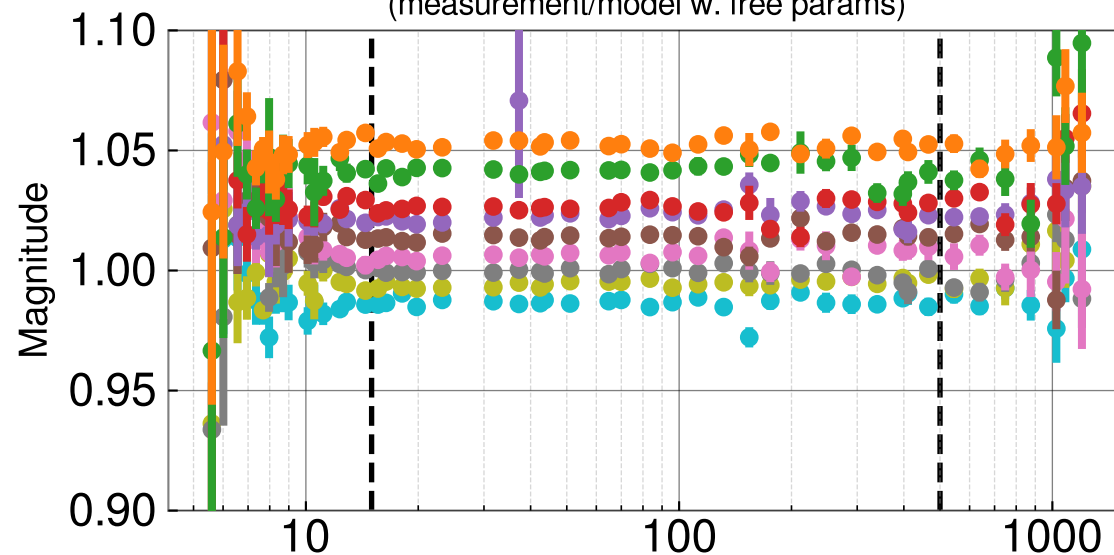
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20231027T203619Z/pydarm_H1.ini`



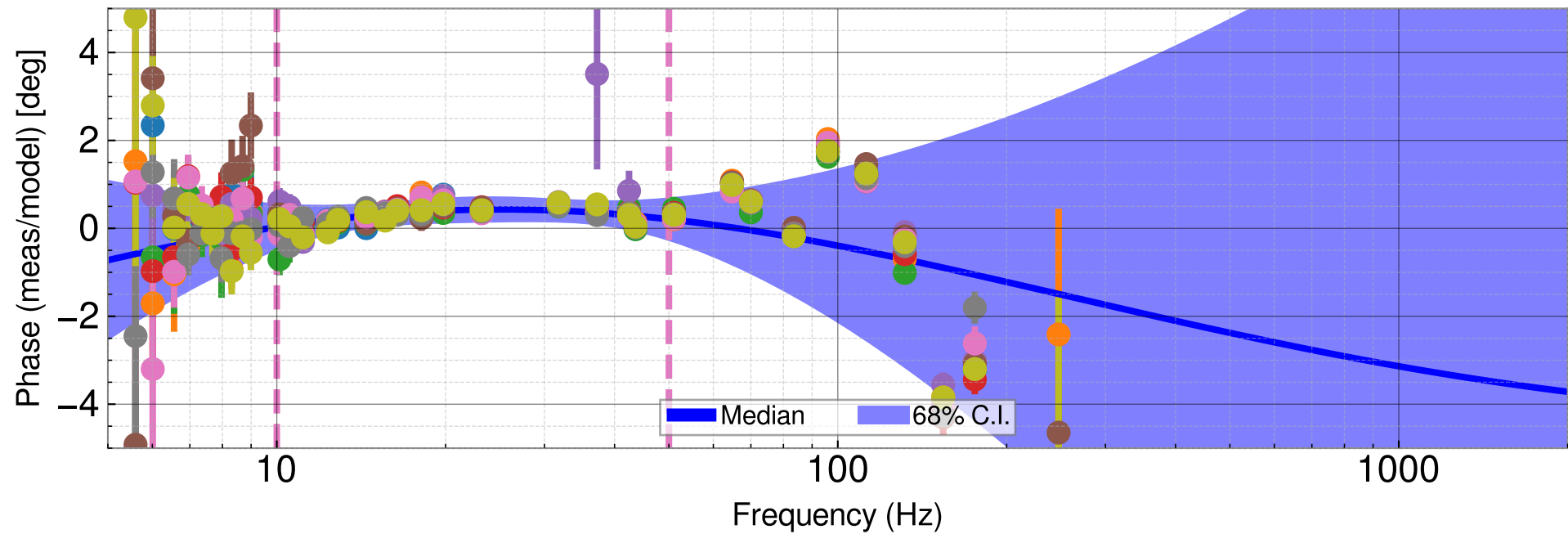
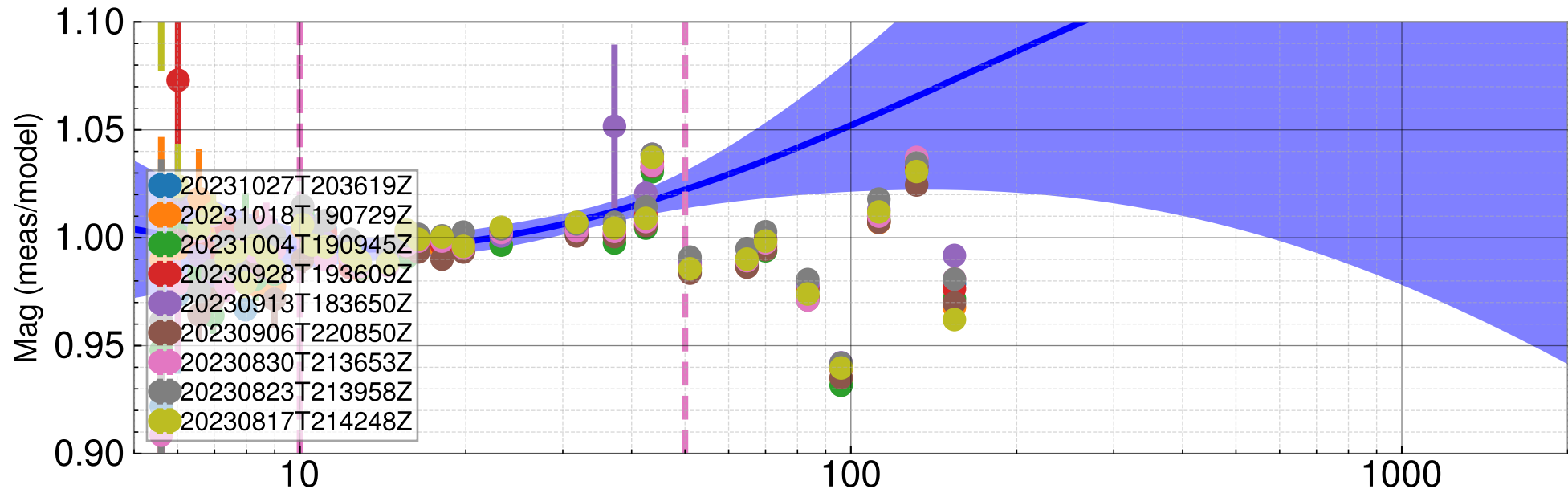
Actuation strength transfer functions
(scaled by H_{ref})



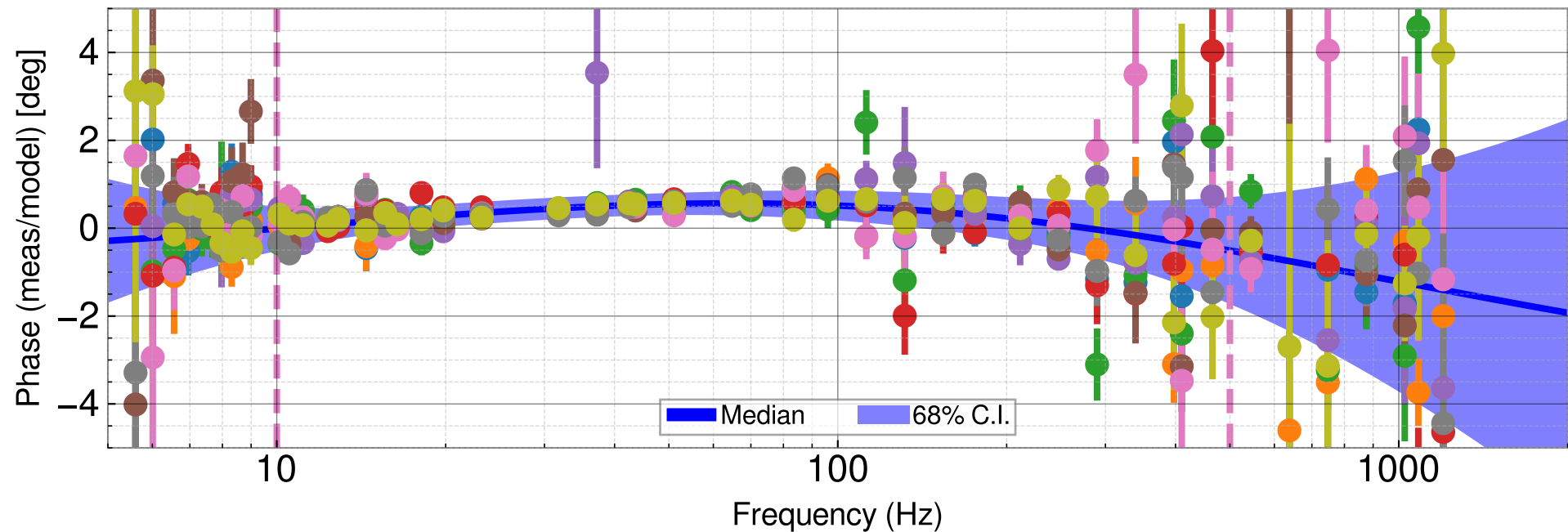
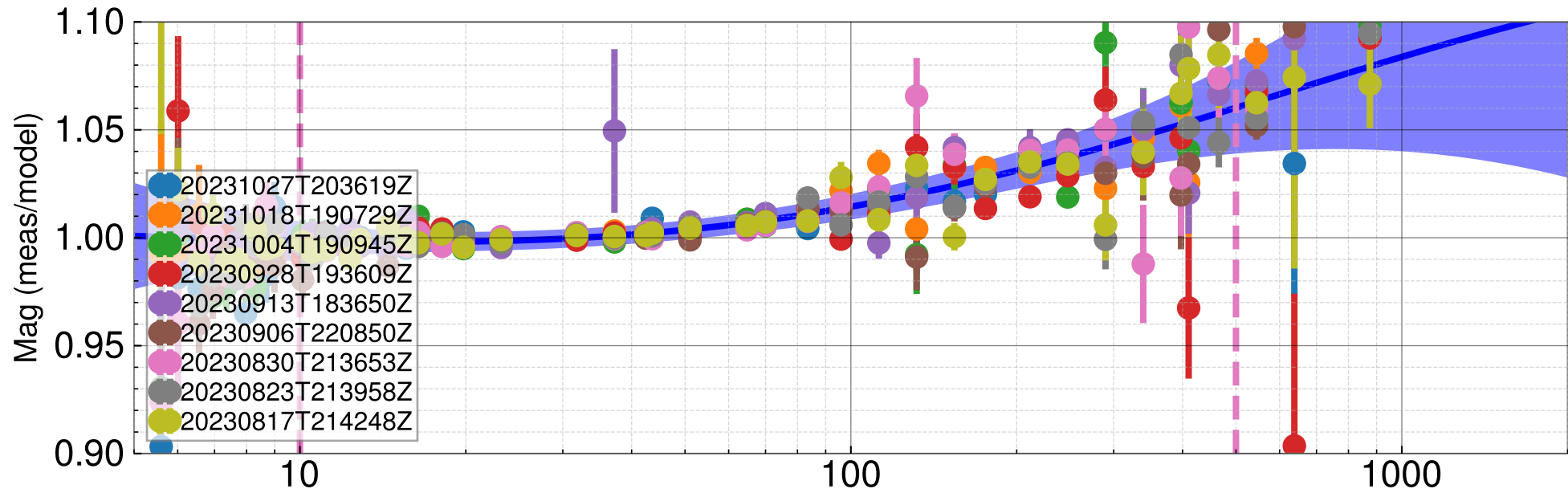
Actuation strength residuals
(measurement/model w. free params)



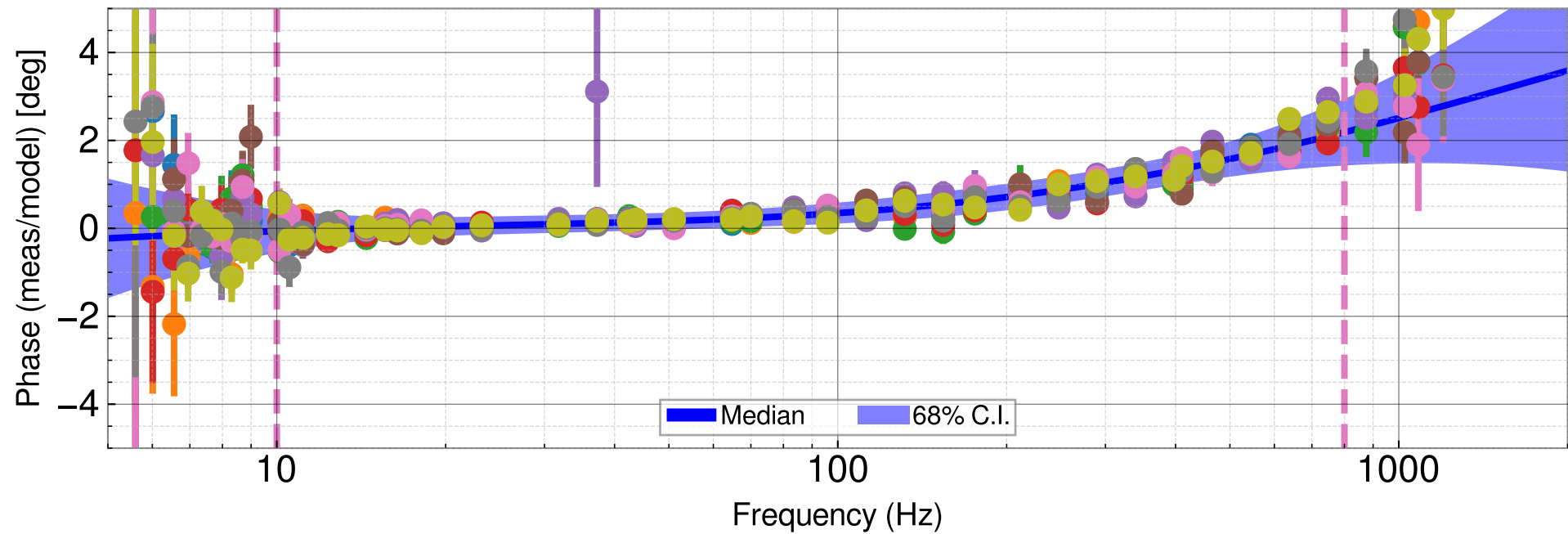
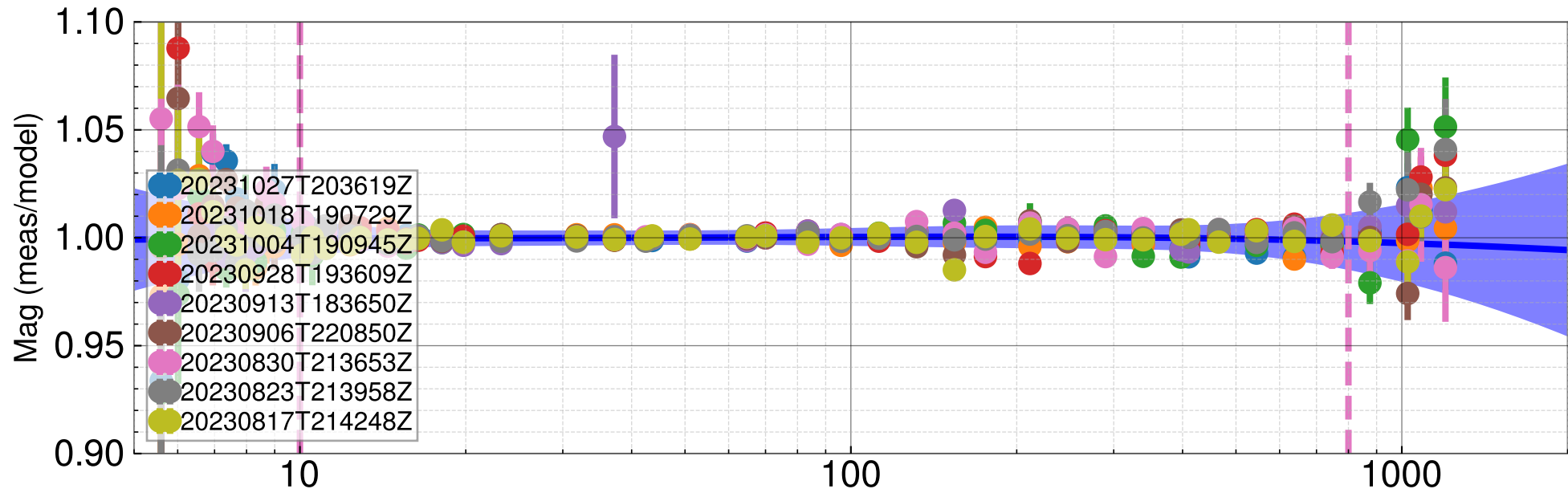
Actuation/L1/EX GPR



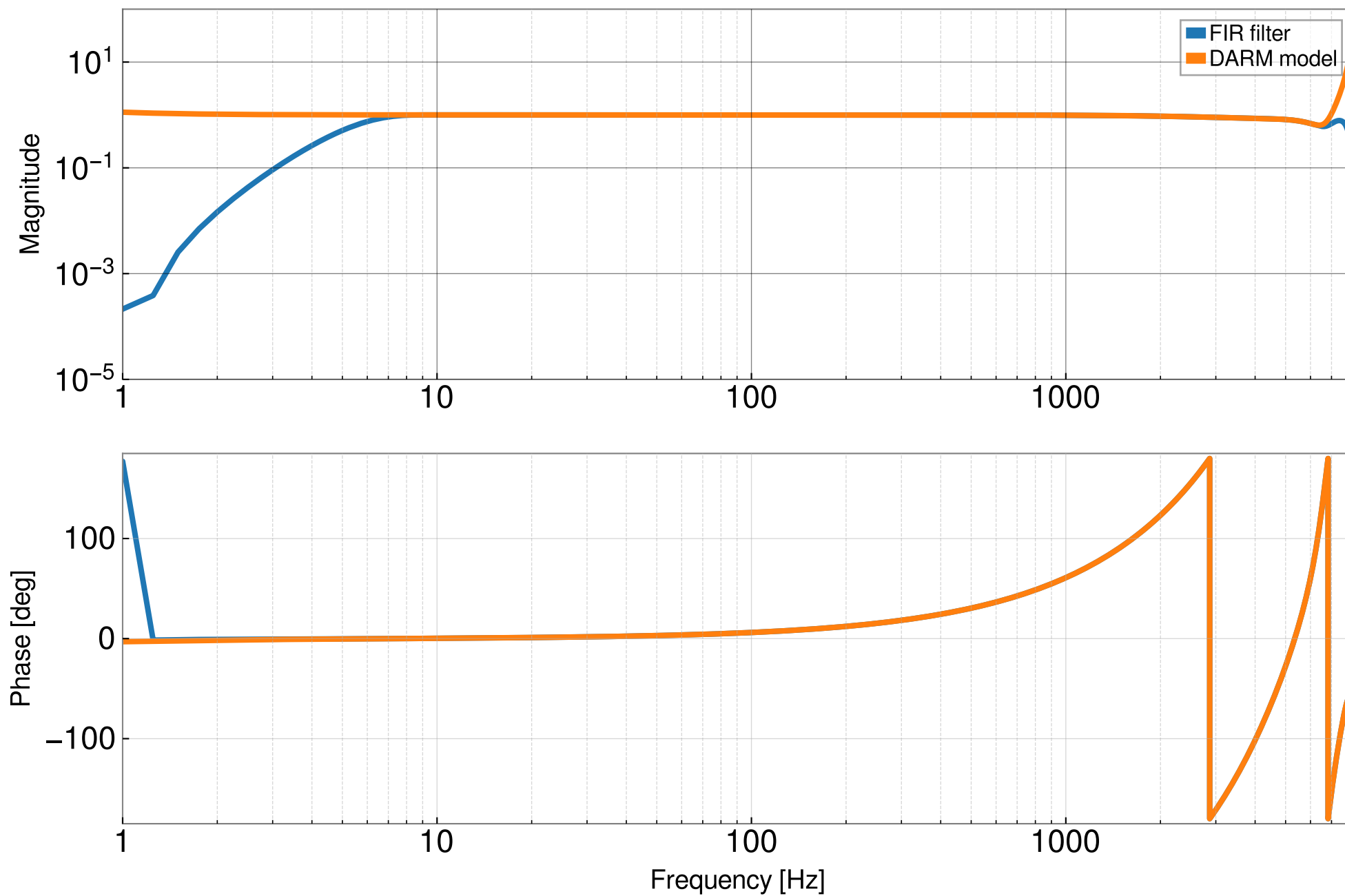
Actuation/L2/EX GPR



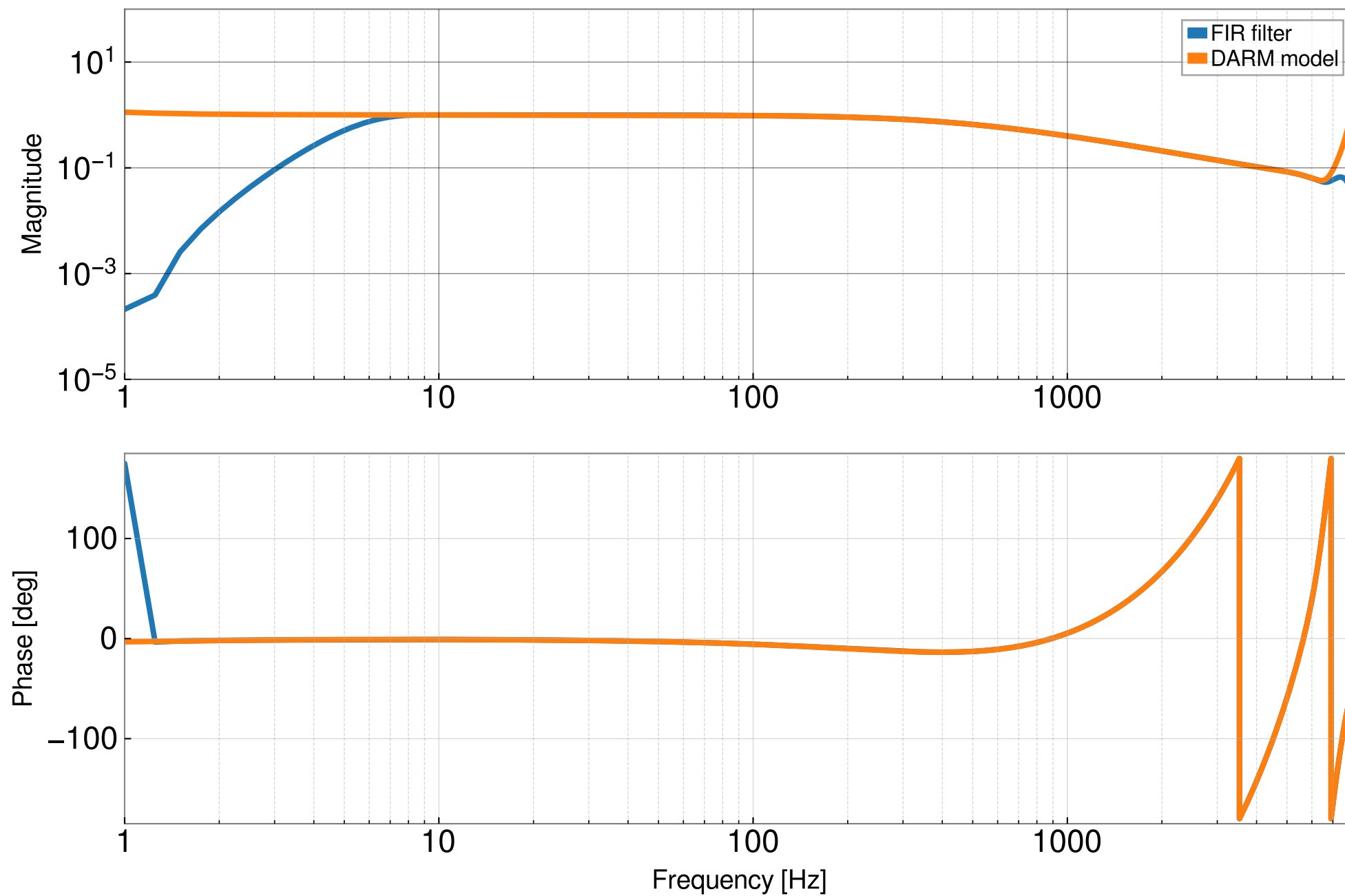
Actuation/L3/EX GPR



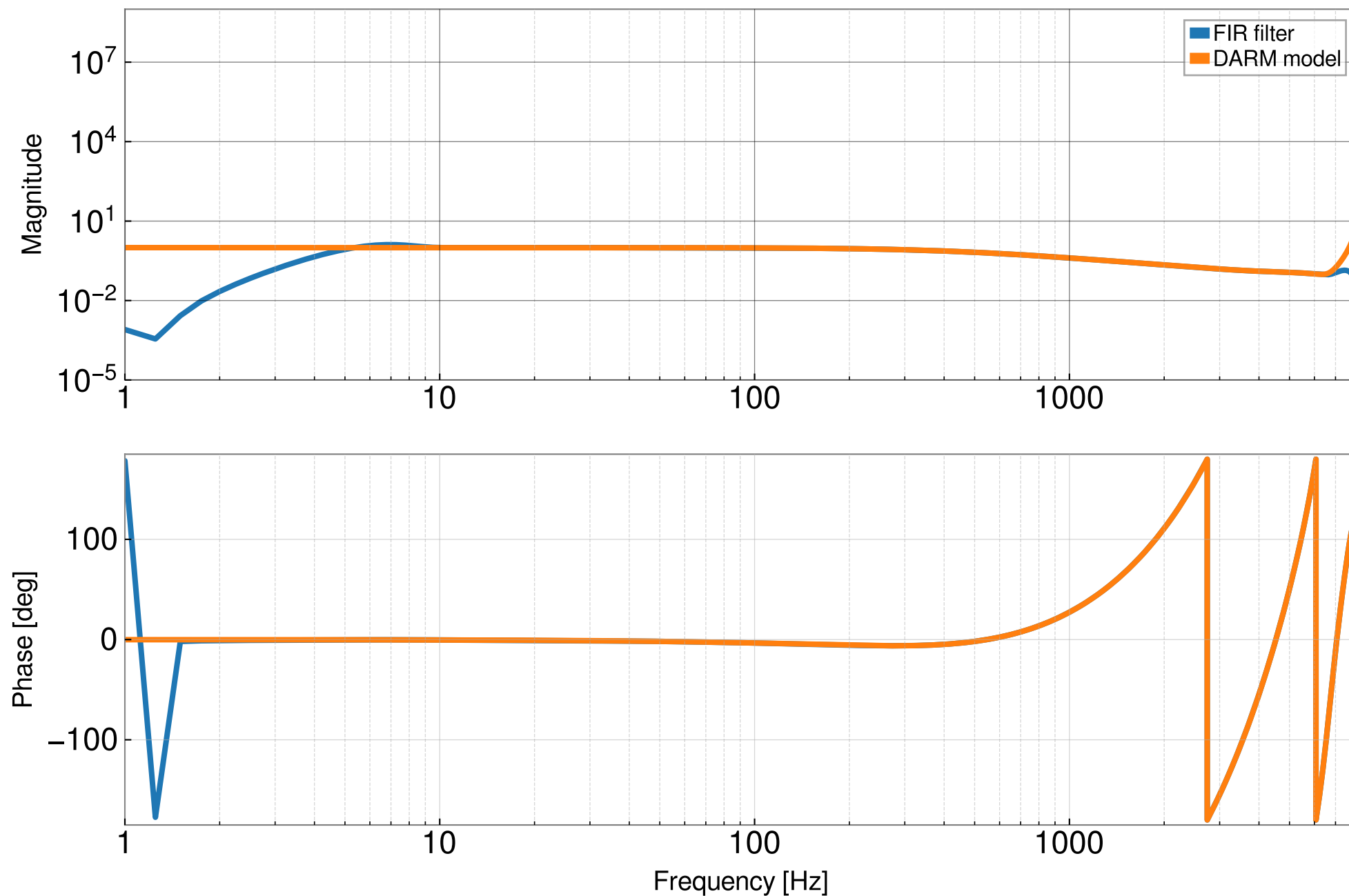
Residual corrections comparison (gstlal_compute_strain_C00_filters_H1)



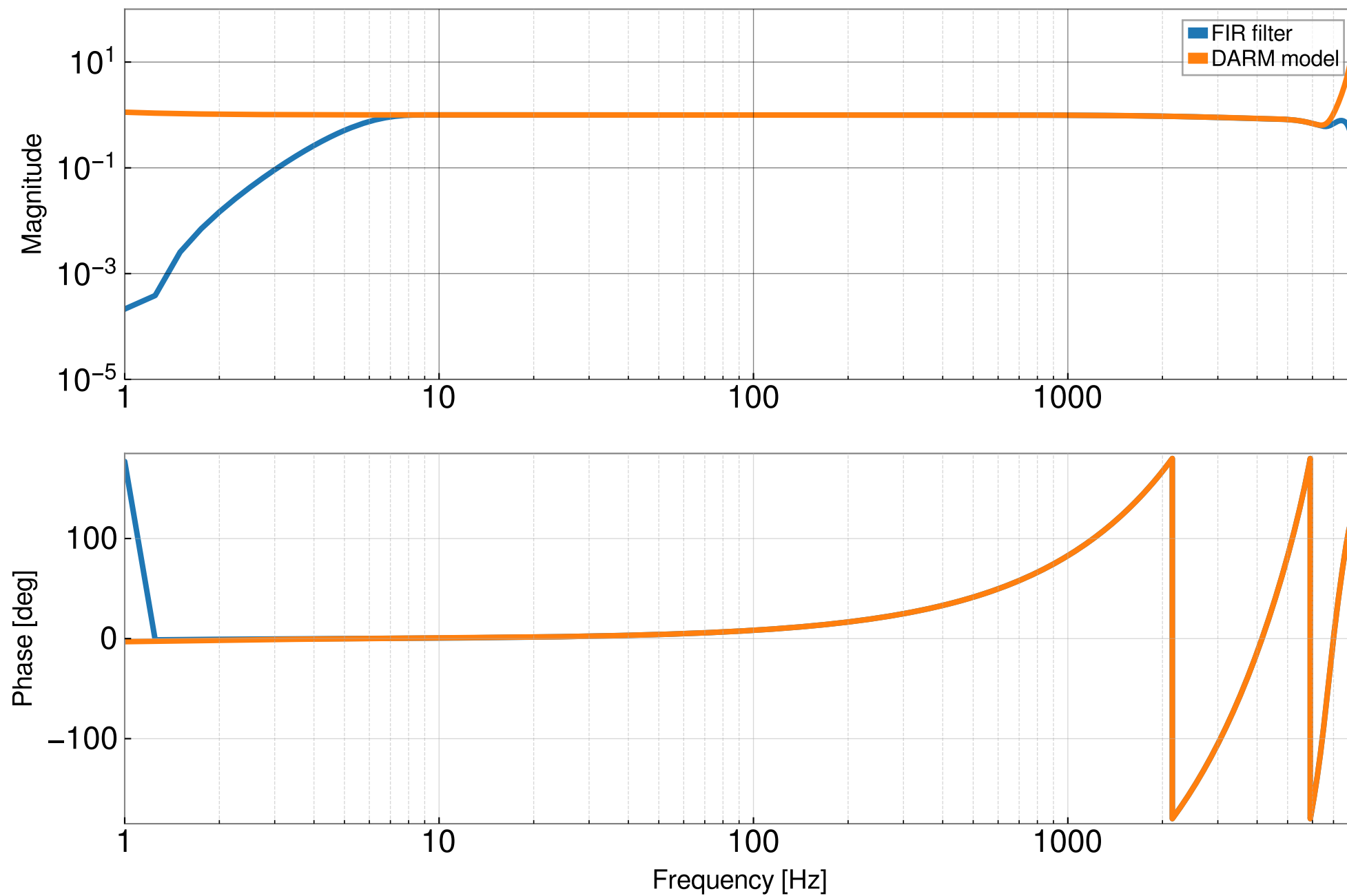
Res Corr No CC Pole comparison (gstlal_compute_strain_C00_filters_H1)



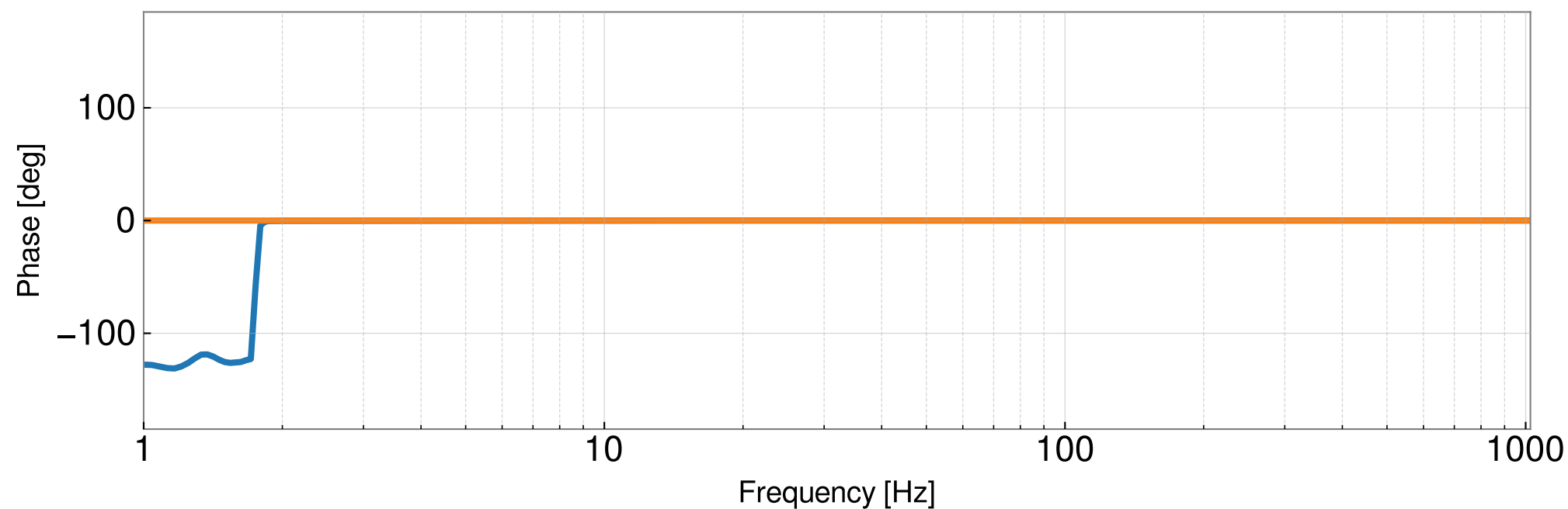
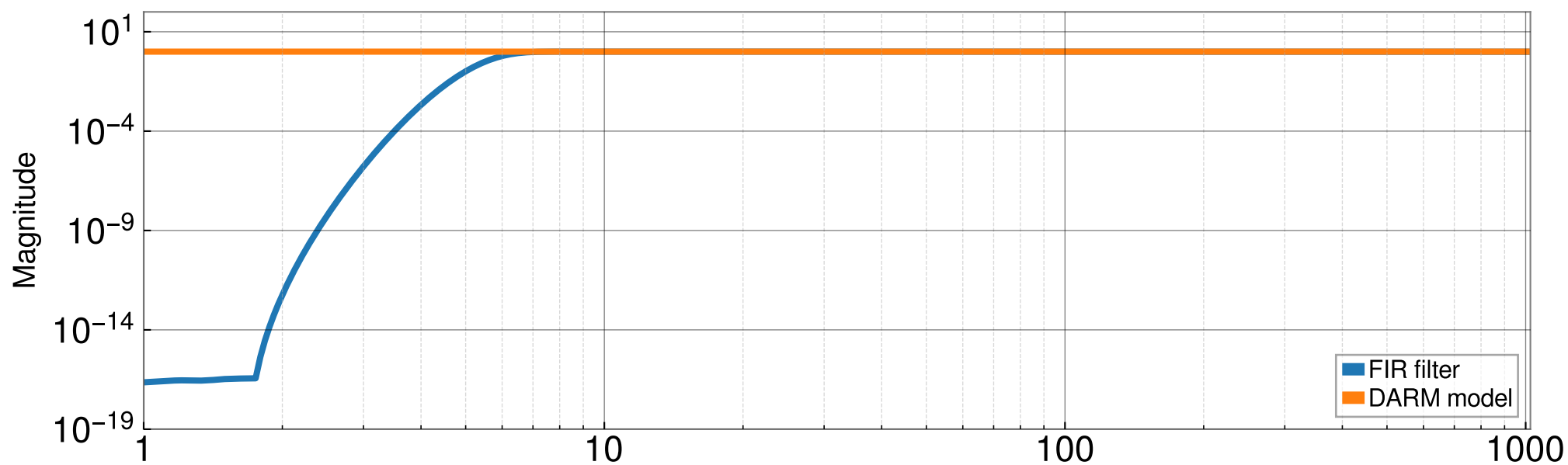
Res Corr No Pole comparison (gstlal_compute_strain_C00_filters_H1)



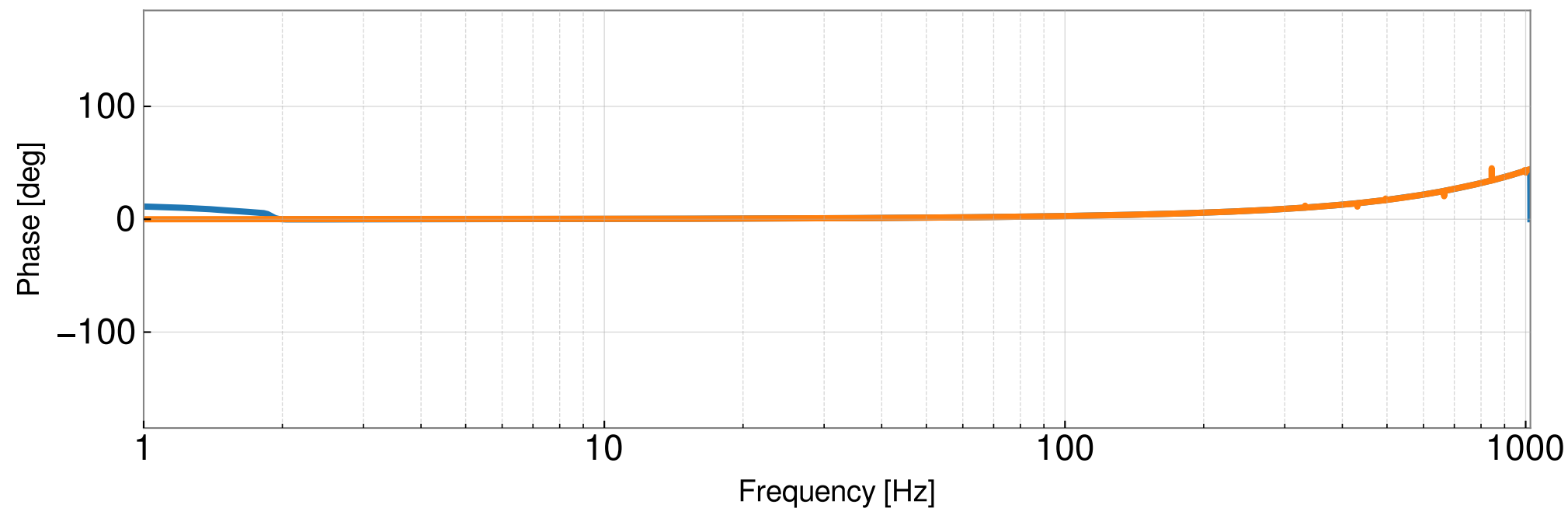
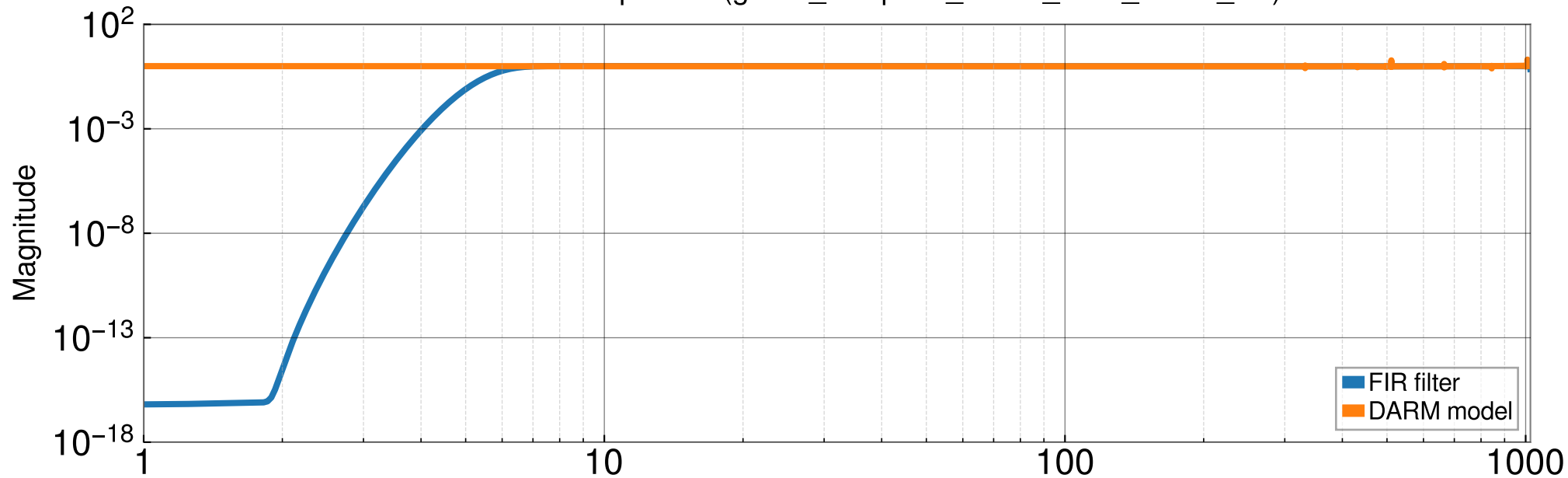
Nonsens corrections comparison (gstlal_compute_strain_C00_filters_H1)



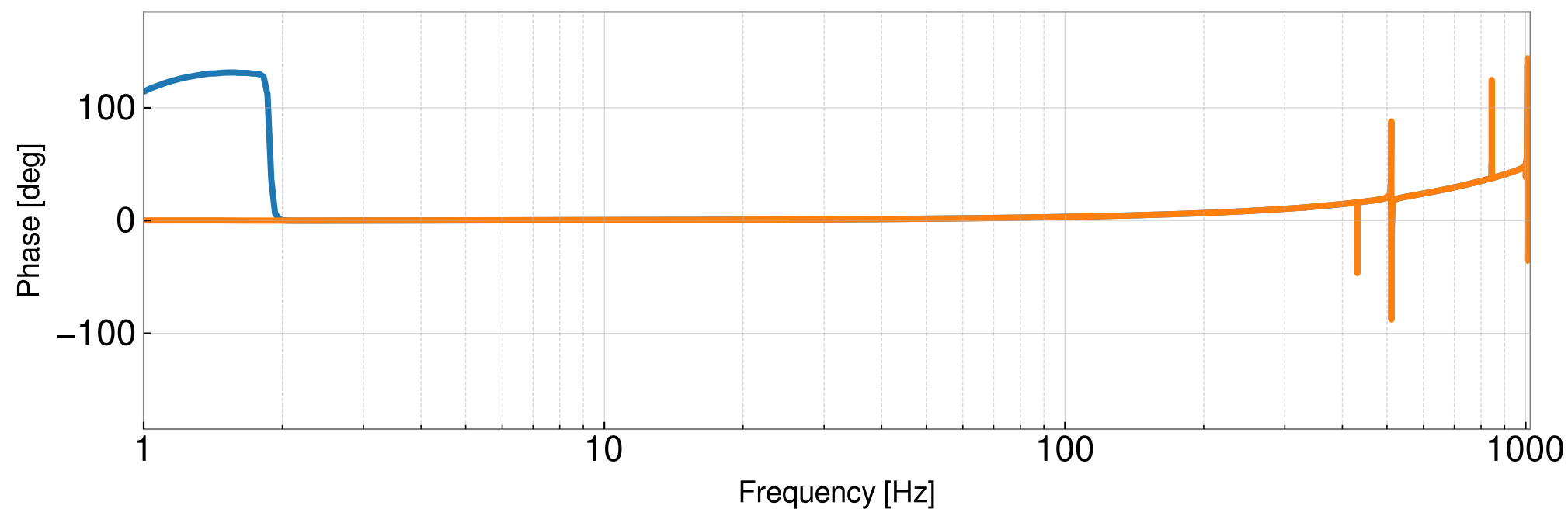
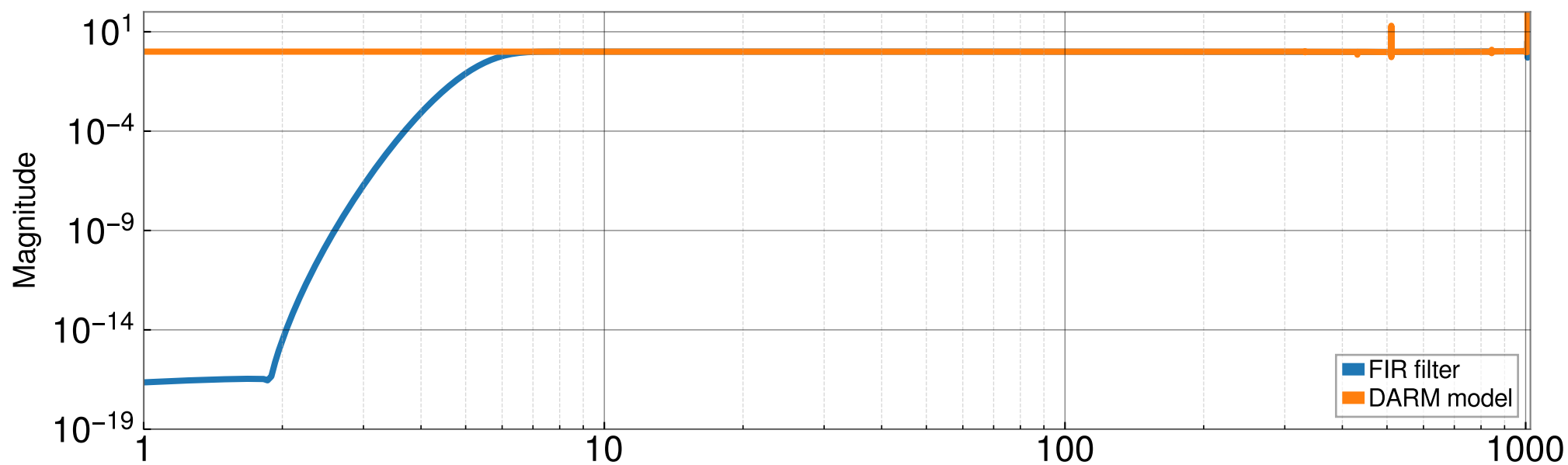
Residual corrections highpass comparison (gstlal_compute_strain_C00_filters_H1)



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)

