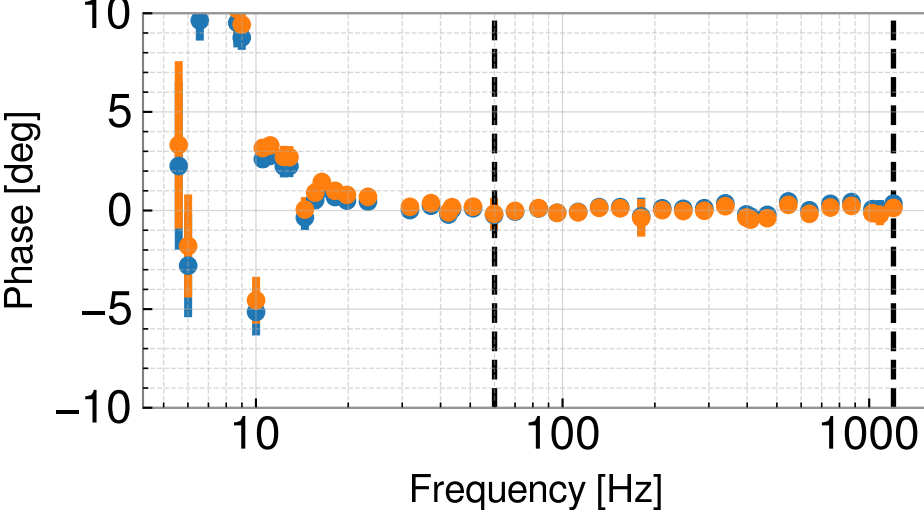
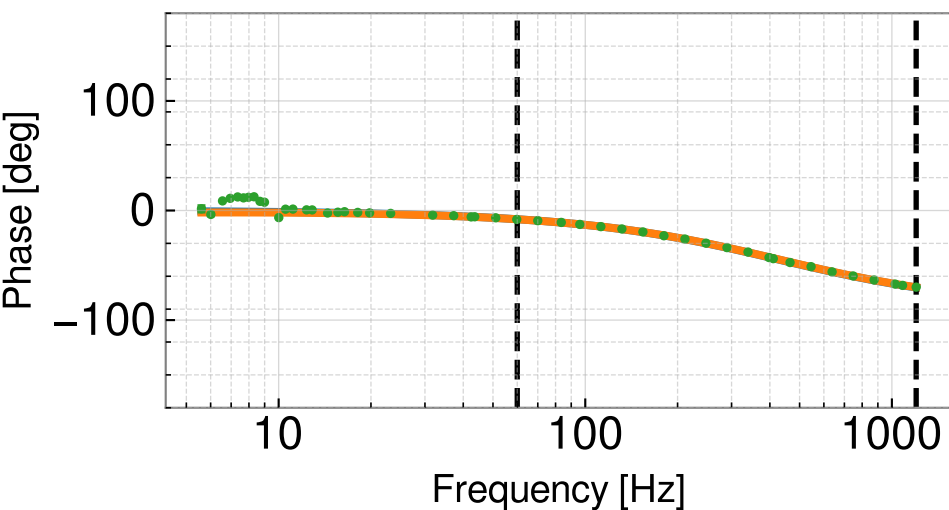
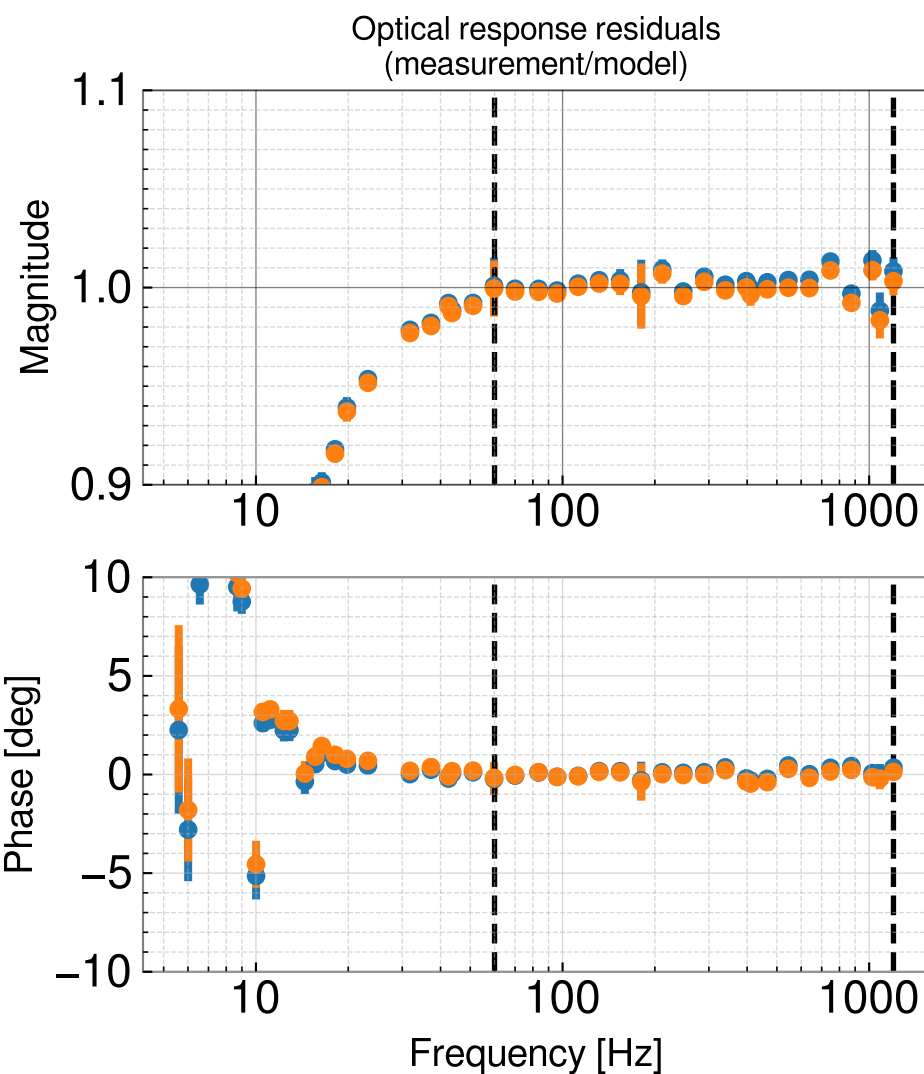
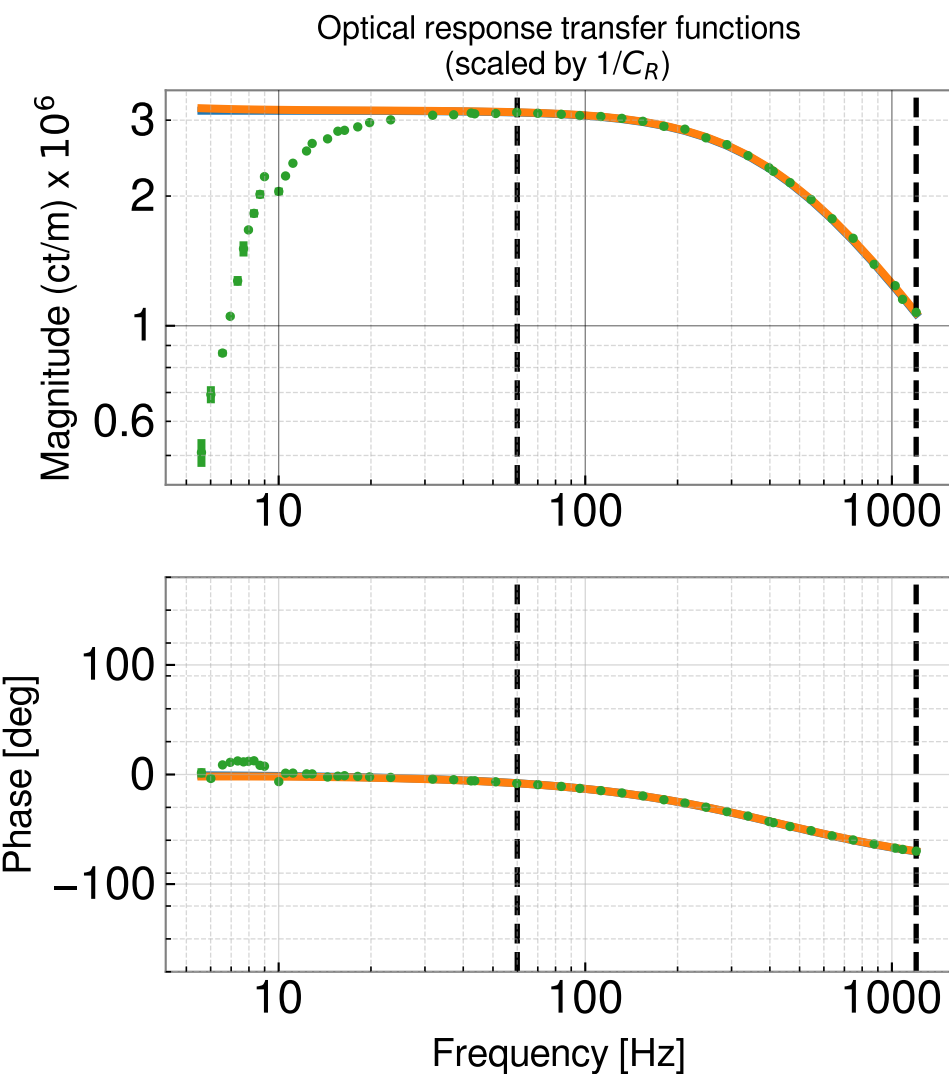
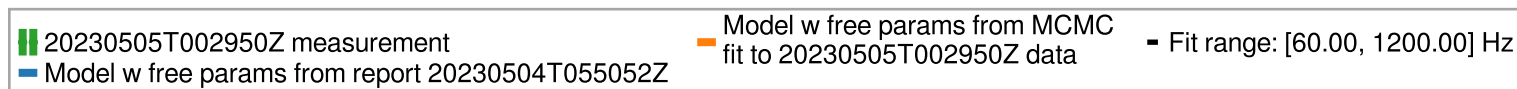


H1 sensing model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230505T012609Z/pydarm_H1.ini

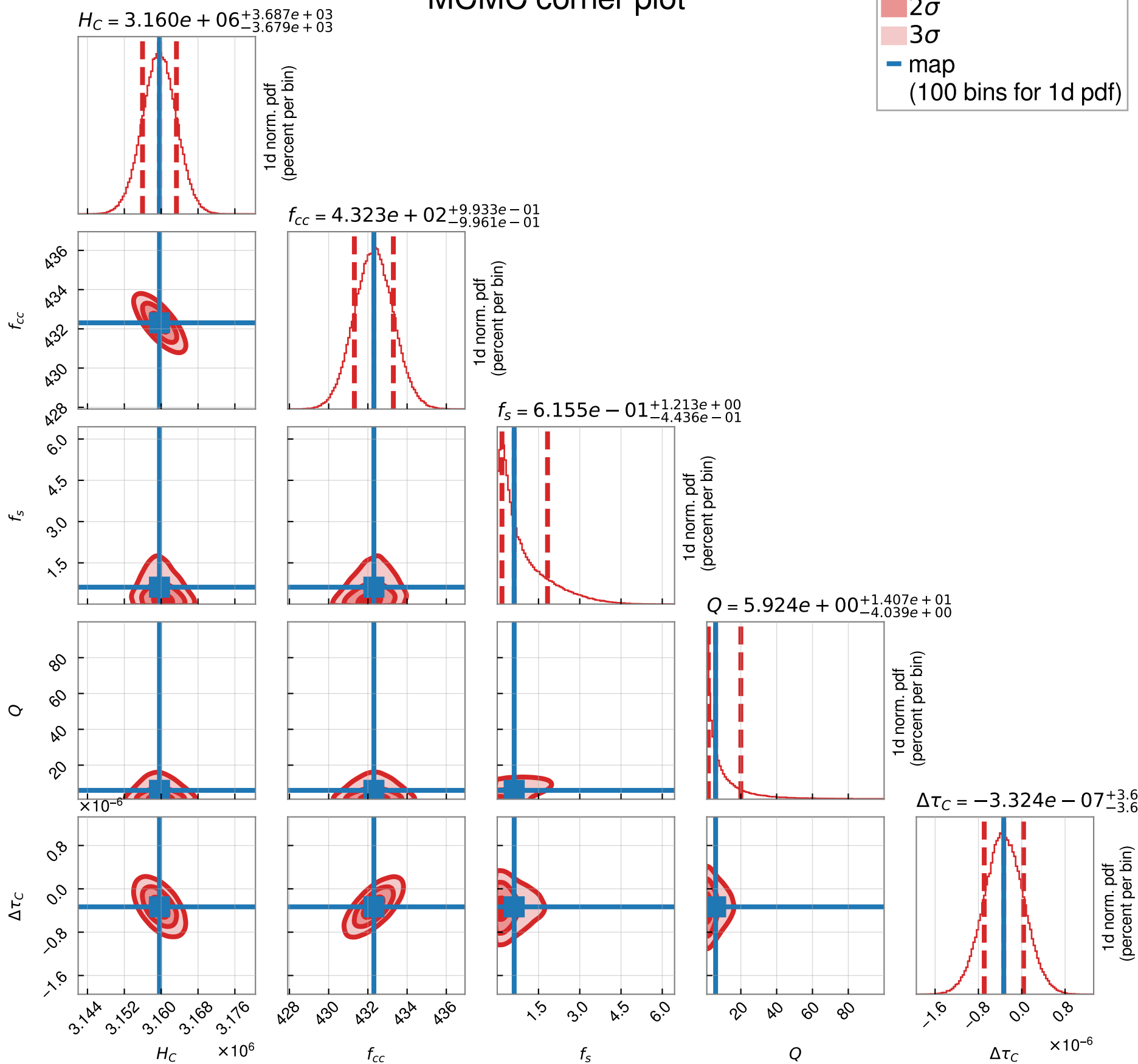


Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.16e+06	3687 (0.12%)	3679 (0.12%)
Cavity_pole, f_cc (Hz)	432.3	0.9933 (0.23%)	0.9961 (0.23%)
Detuned SRC spring frequency, f_s (Hz)	0.6155	1.213 (197.07%)	0.4436 (72.07%)
Detuned SRC spring quality factor, Q_s	5.924	14.07 (237.59%)	4.039 (68.19%)
Residual time delay, tau_c (s)	-3.324e-07	3.658e-07 (-110.04%)	3.604e-07 (-108.40%)

2d pdf contours

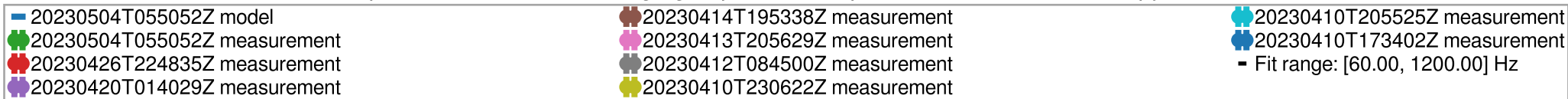
- 1 σ
- 2 σ
- 3 σ
- map

(100 bins for 1d pdf)

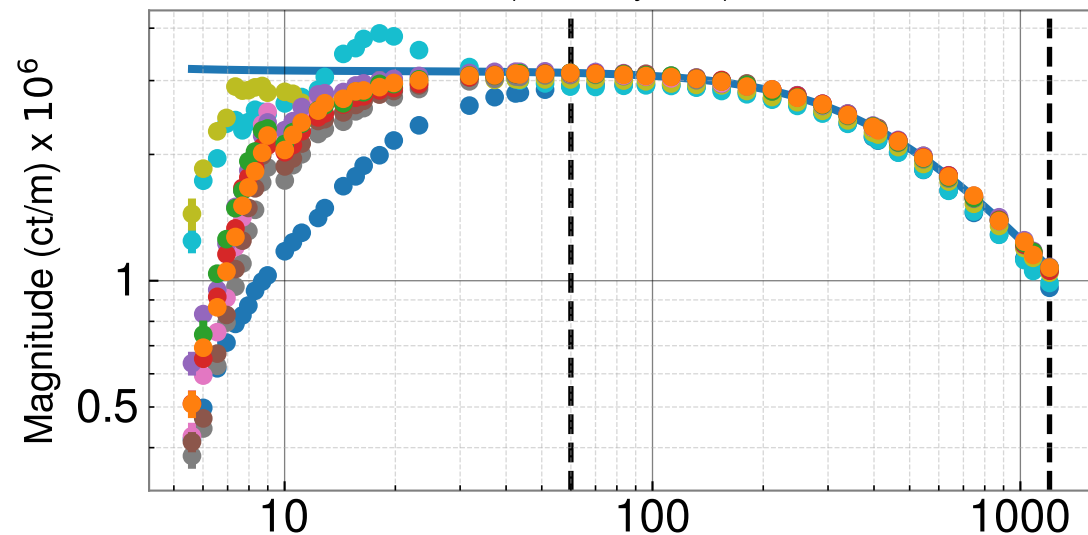


H1 sensing model history

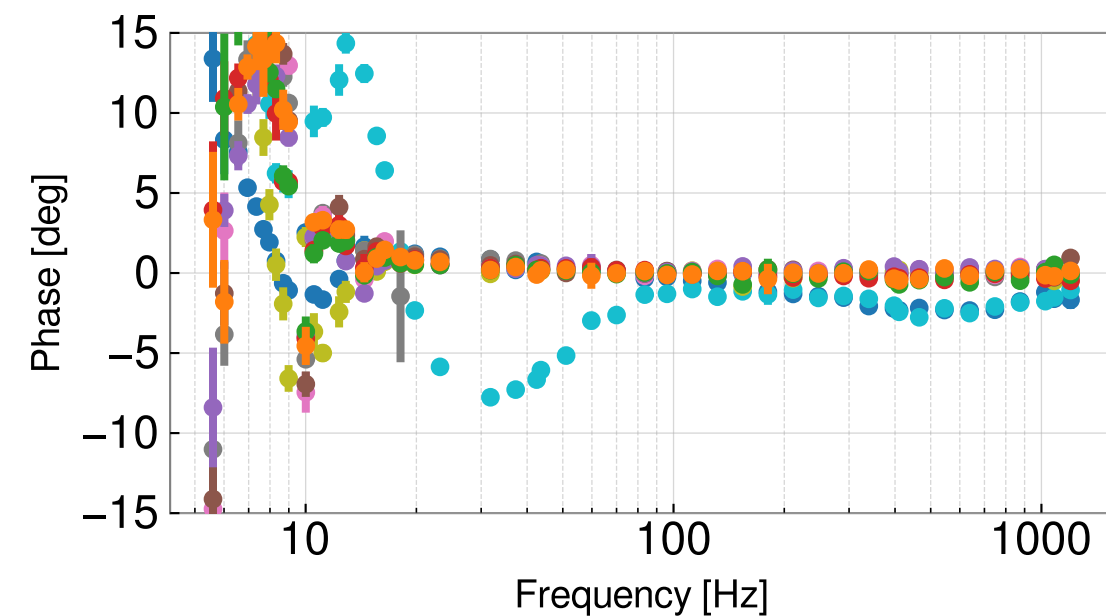
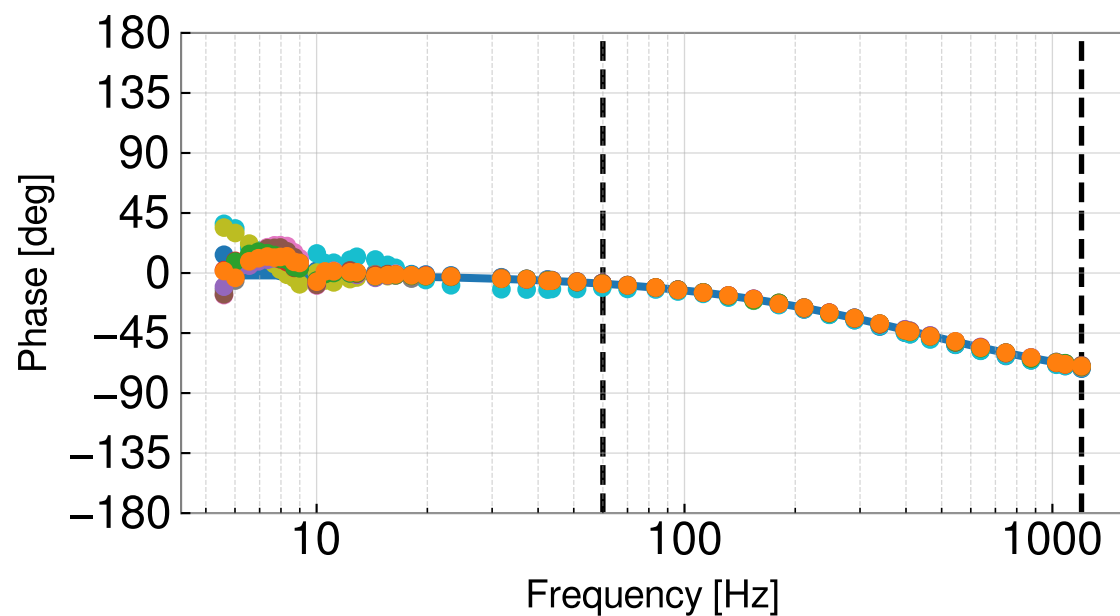
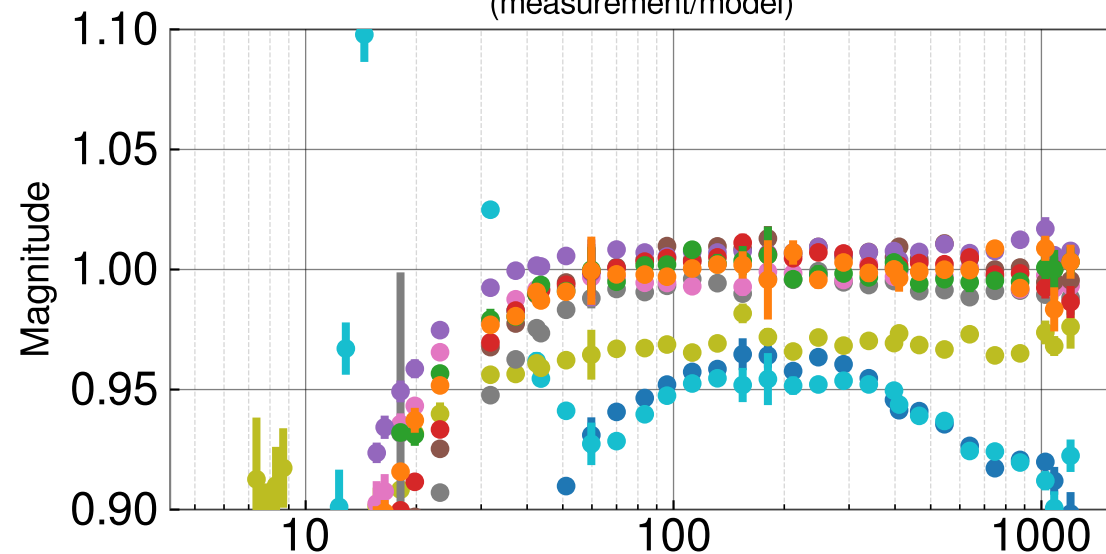
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20230505T012609Z/pydarm_H1.ini`



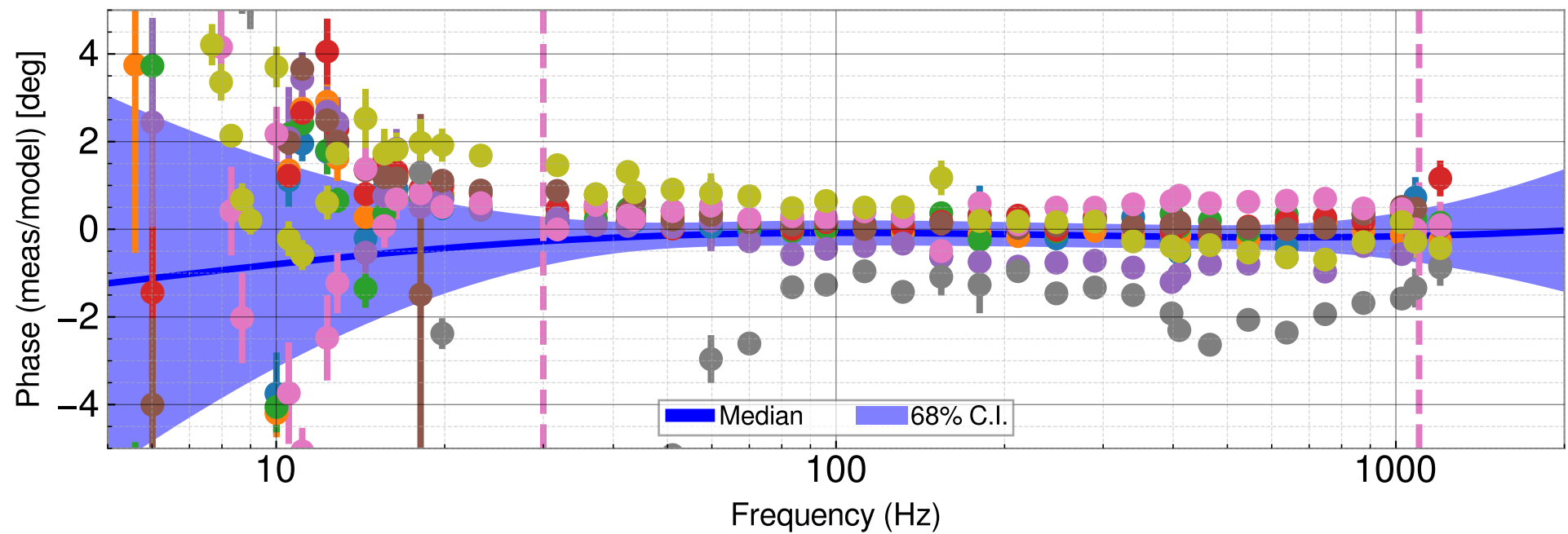
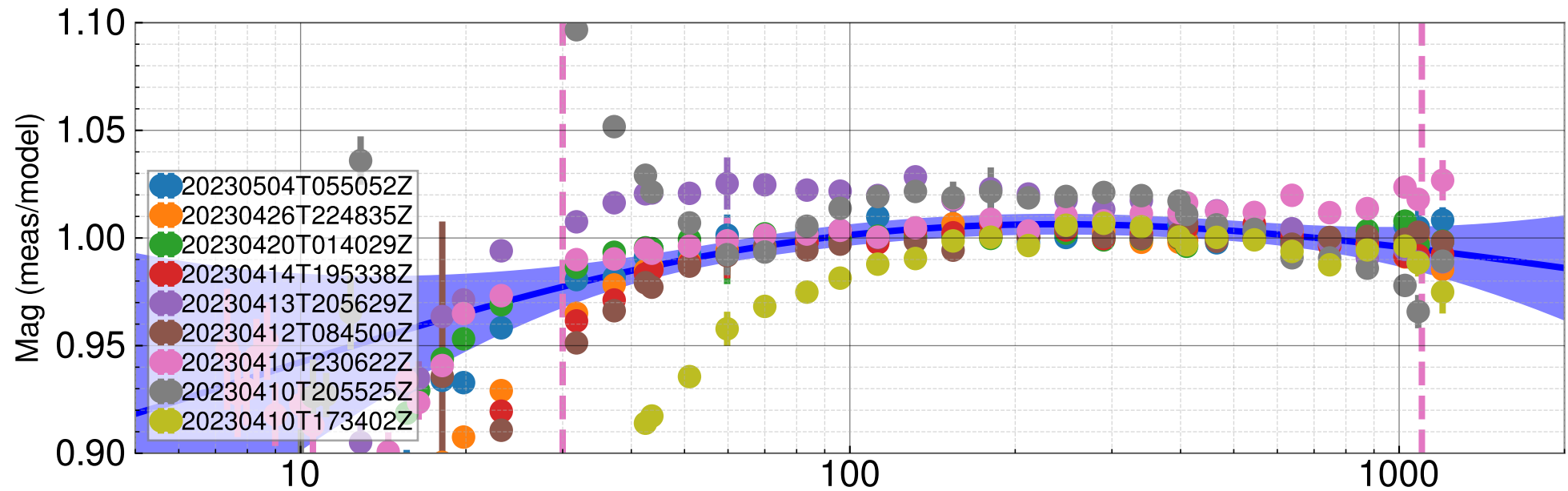
Optical response transfer functions
(scaled by $1/C_R$)



Optical response residuals
(measurement/model)



Sensing GPR



H1SUSEX L1 actuation model MCMC summary

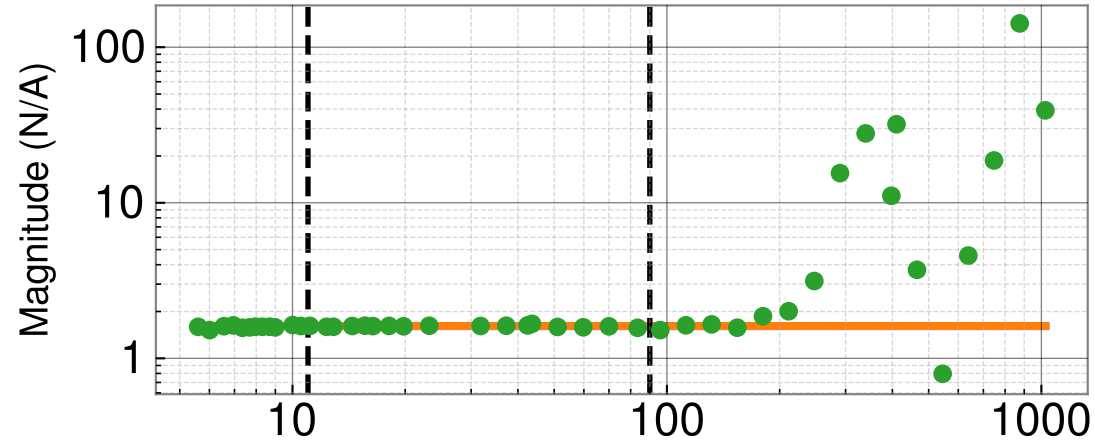
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230505T012609Z/pydarm_H1.ini

— Model w free params from report 20230505T012609Z

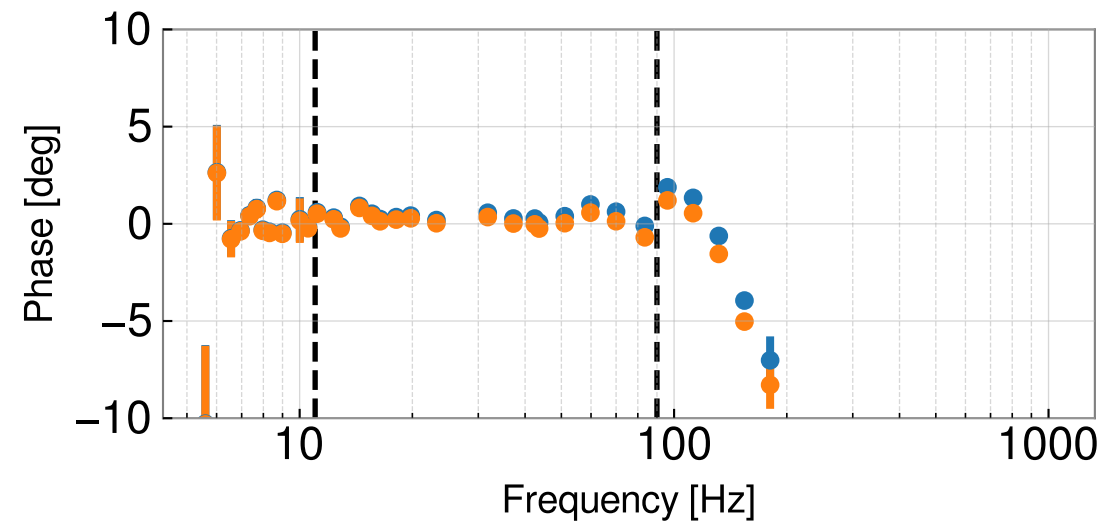
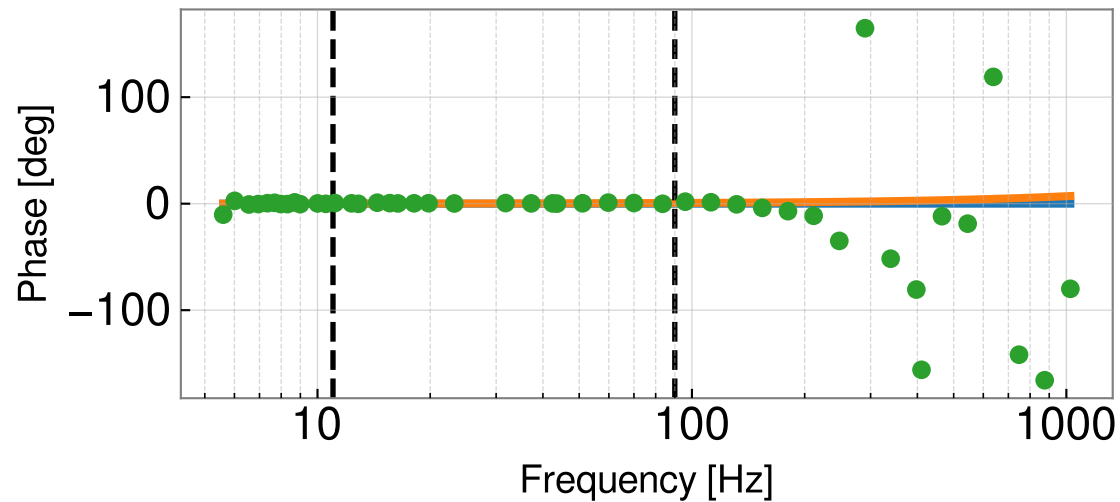
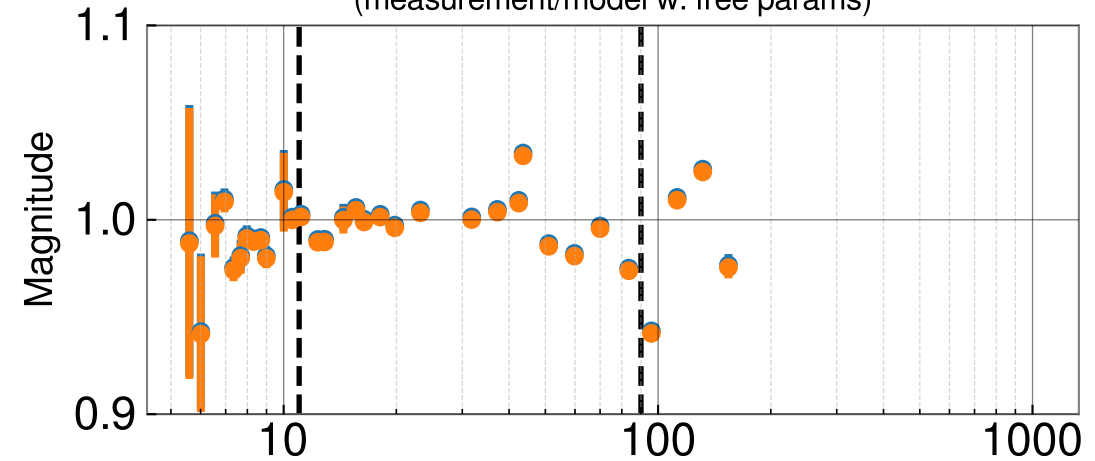
— Model w free params from
MCMC fit to 20230505T003821Z data

— Fit range 11.0 to 90.0 Hz

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

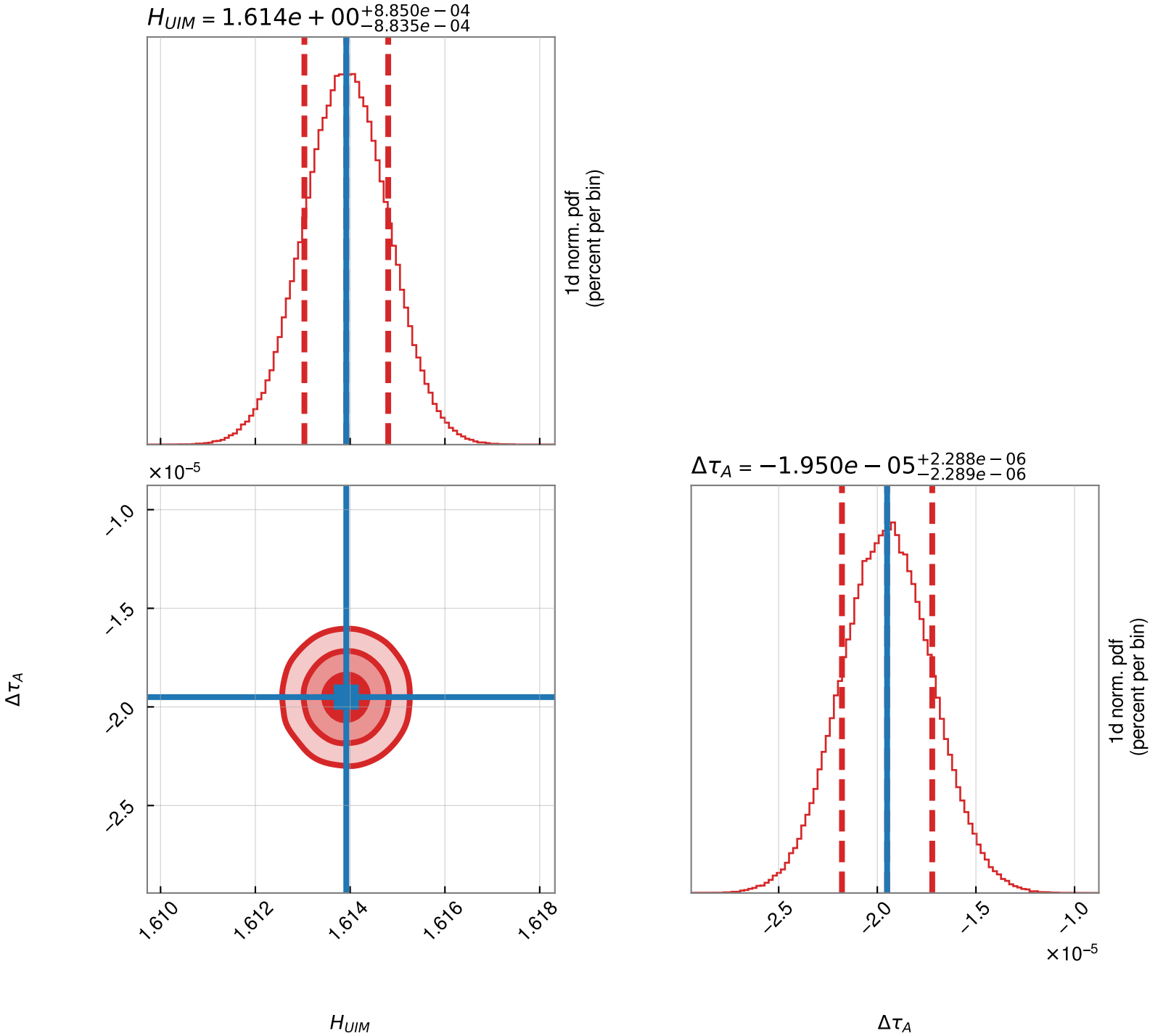
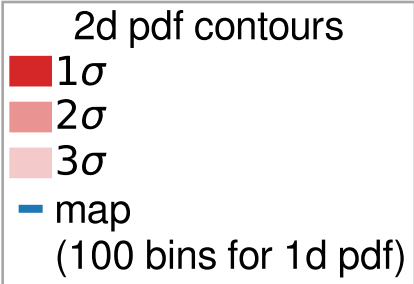


Actuation strength residuals
(measurement/model w. free params)



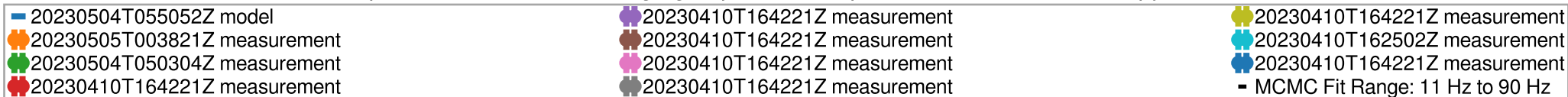
Parameter	(value +/-) value	+	-
Actuation Gain, Hau (N/A)	1.614	0.000885 (0.05%)	0.0008835 (0.05%)
Residual time delay, tau_A (s)	-1.95e-05	2.288e-06 (-11.73%)	2.289e-06 (-11.74%)

20230505T003821Z EX L1 actuation
MCMC corner plot

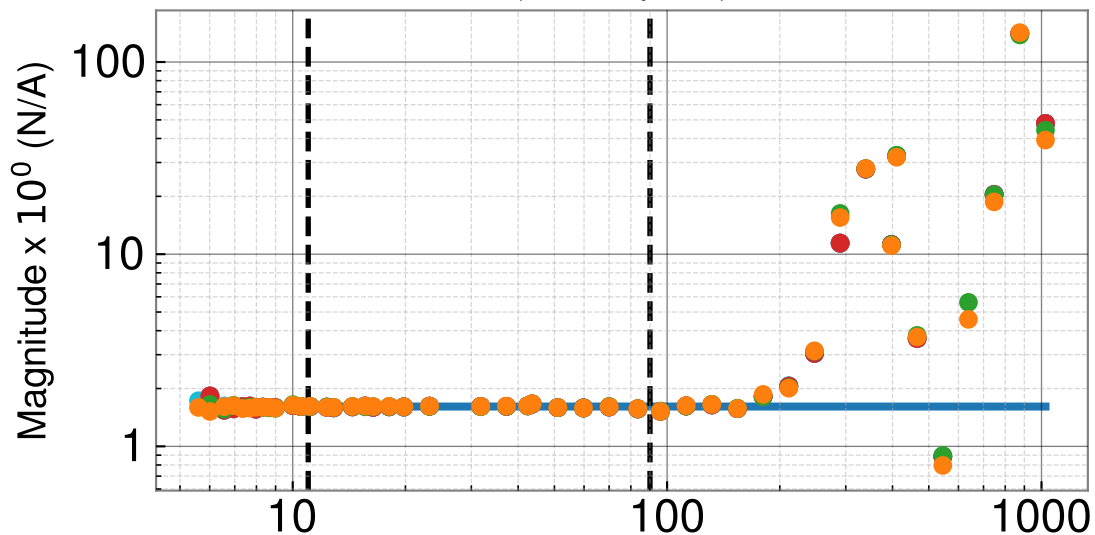


H1SUSEX L1 actuation model history

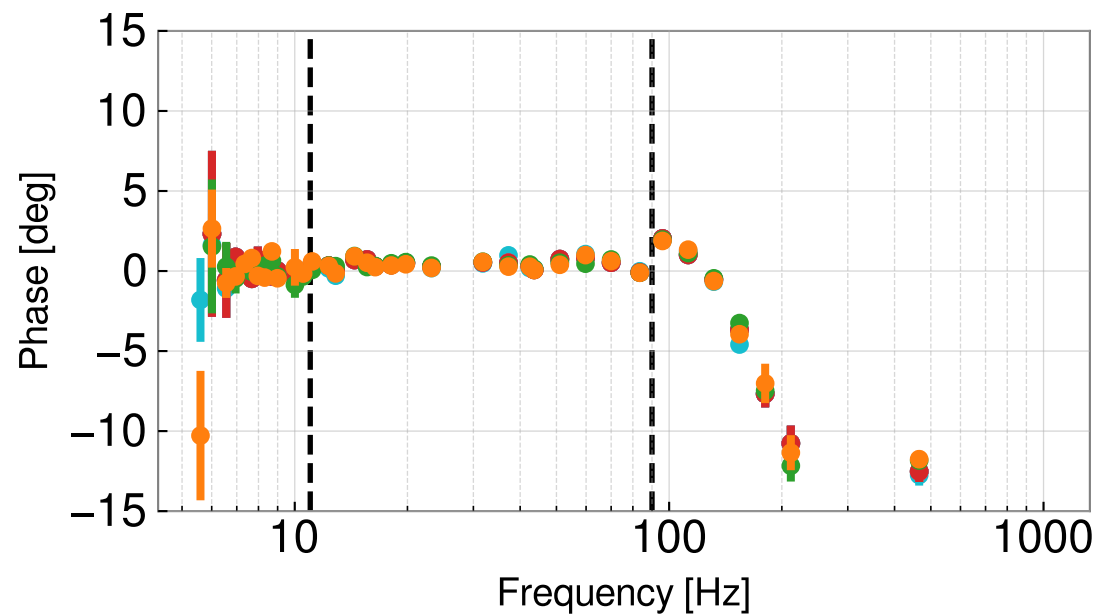
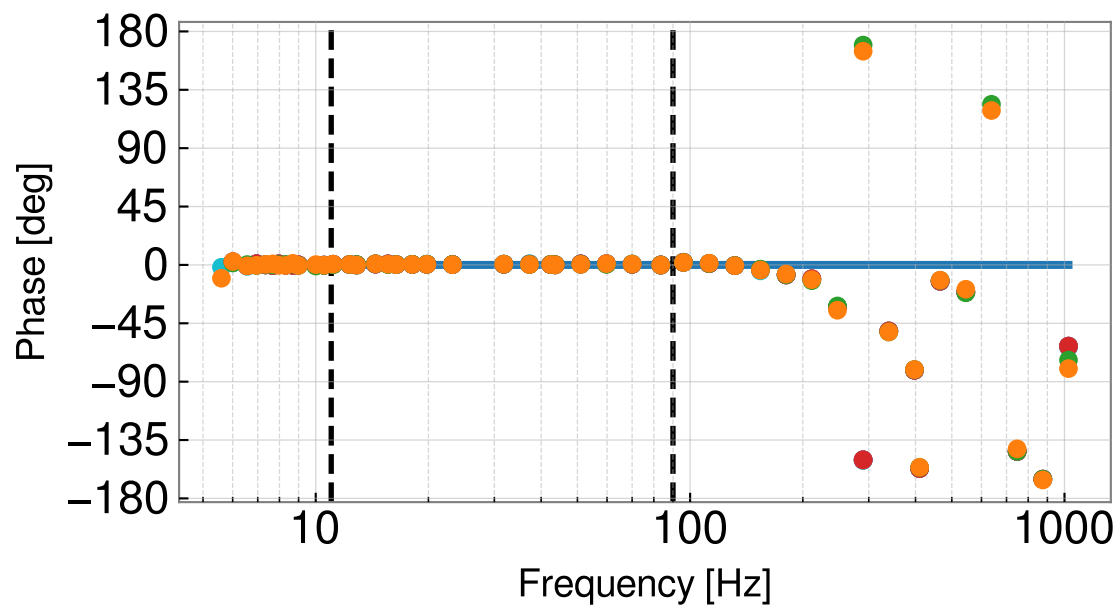
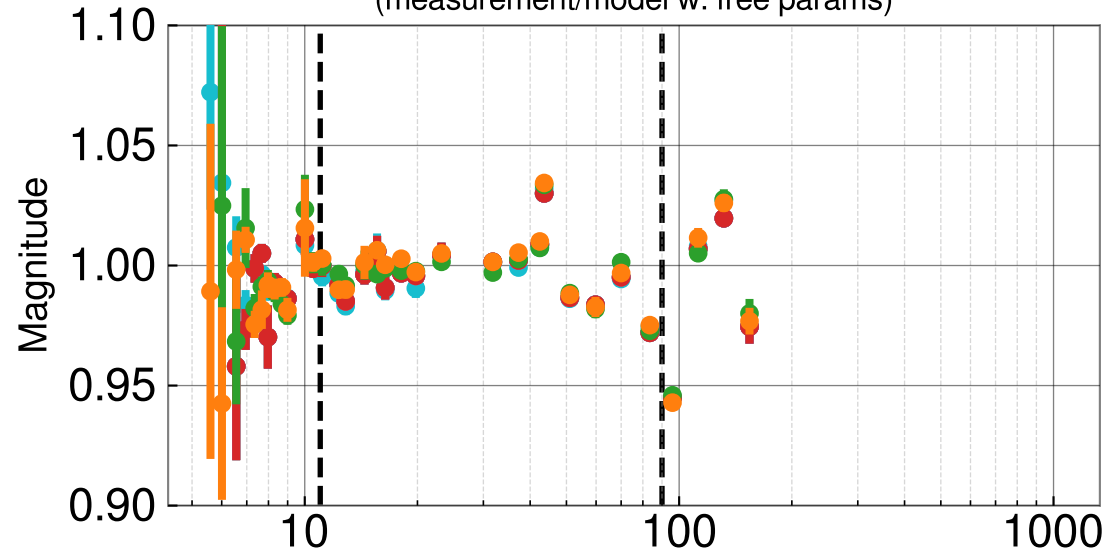
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20230505T012609Z/pydarm_H1.ini`



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

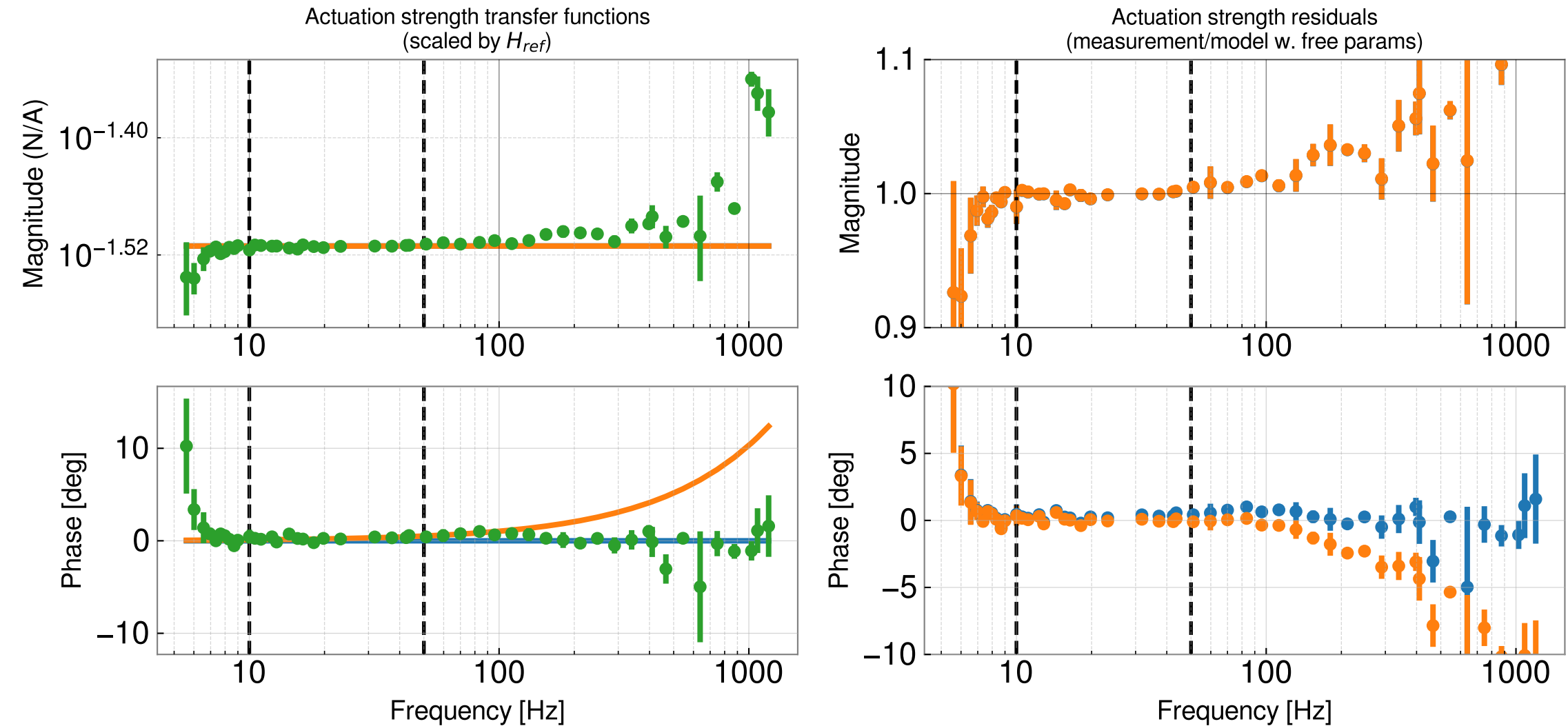
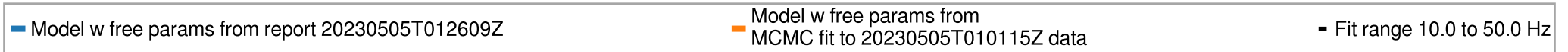


Actuation strength residuals
(measurement/model w. free params)



H1SUSEX L2 actuation model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230505T012609Z/pydarm_H1.ini

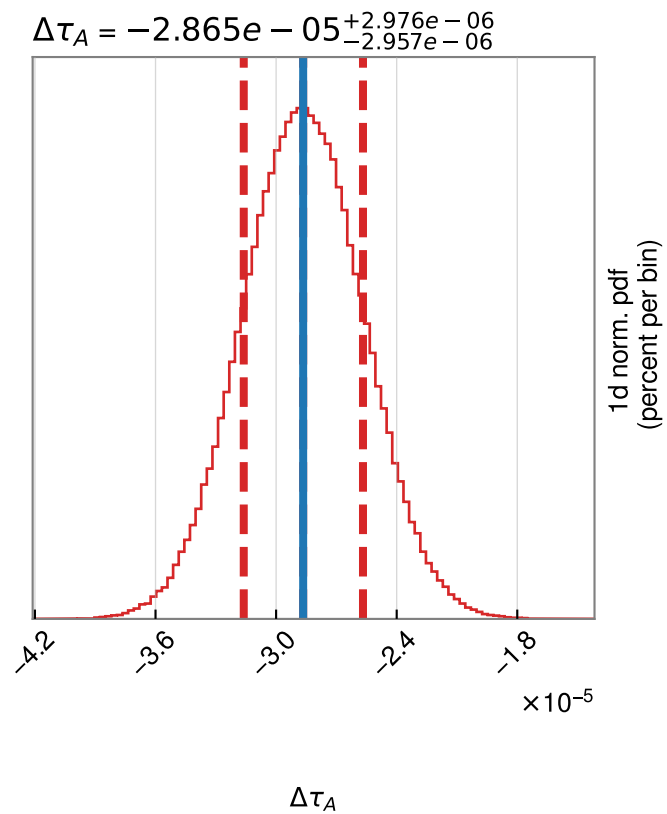


Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.03066	1.804e-05 (0.06%)	1.827e-05 (0.06%)
Residual time delay, tau_A (s)	-2.865e-05	2.976e-06 (-10.39%)	2.957e-06 (-10.32%)

2d pdf contours

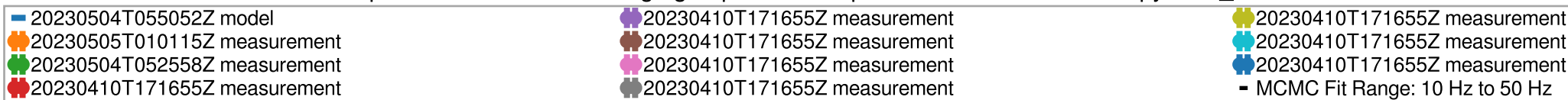
- 1 σ
- 2 σ
- 3 σ
- map

(100 bins for 1d pdf)

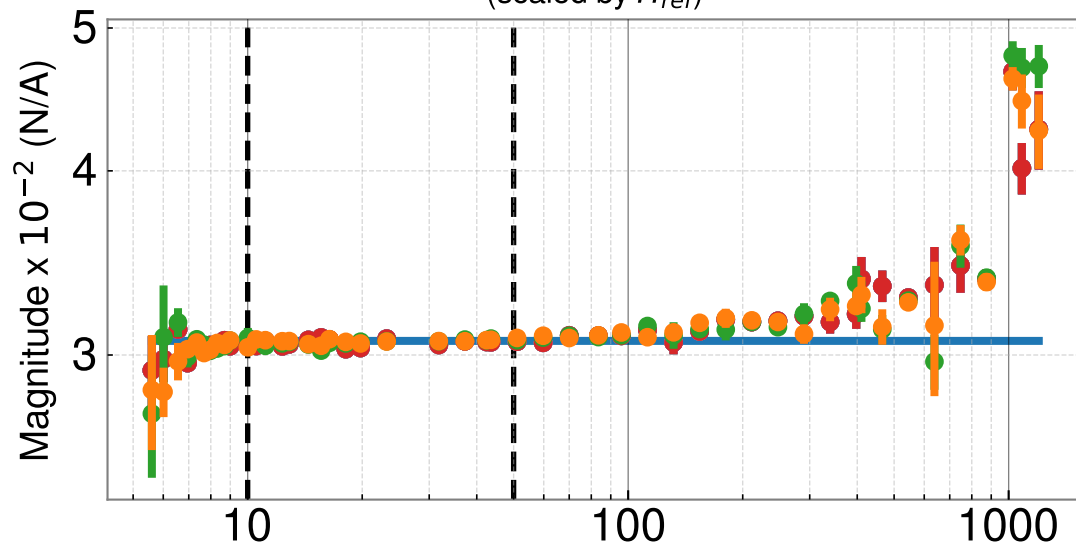


H1 SUSEX L2 actuation model history

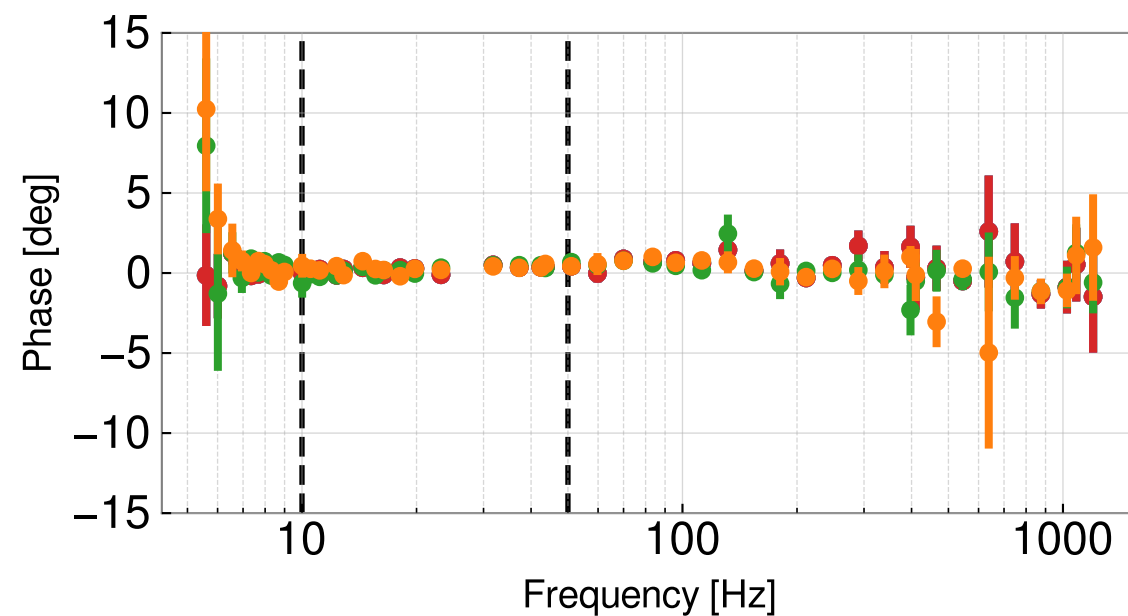
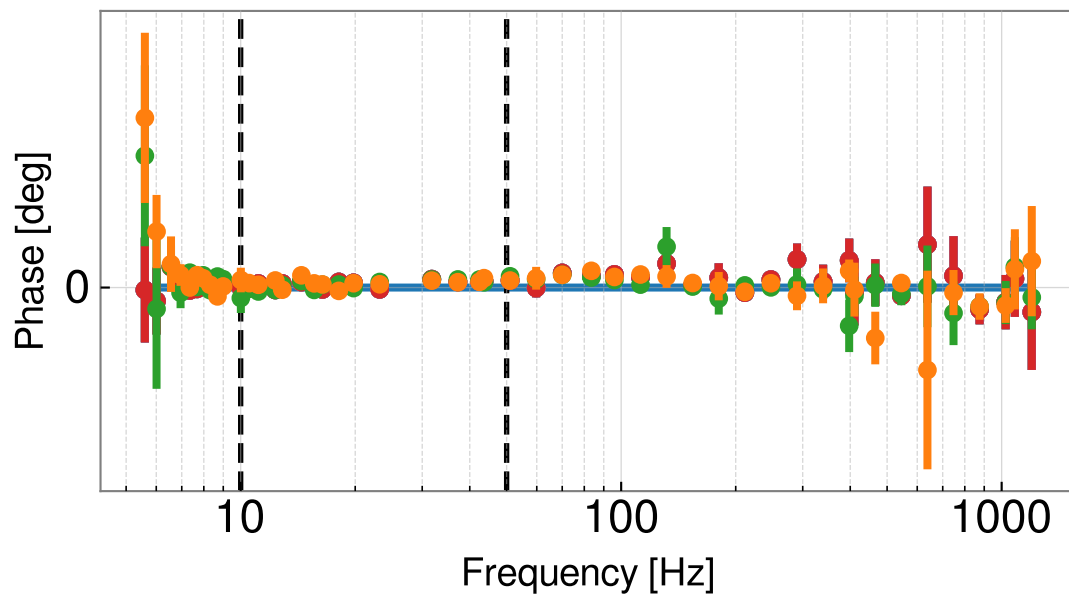
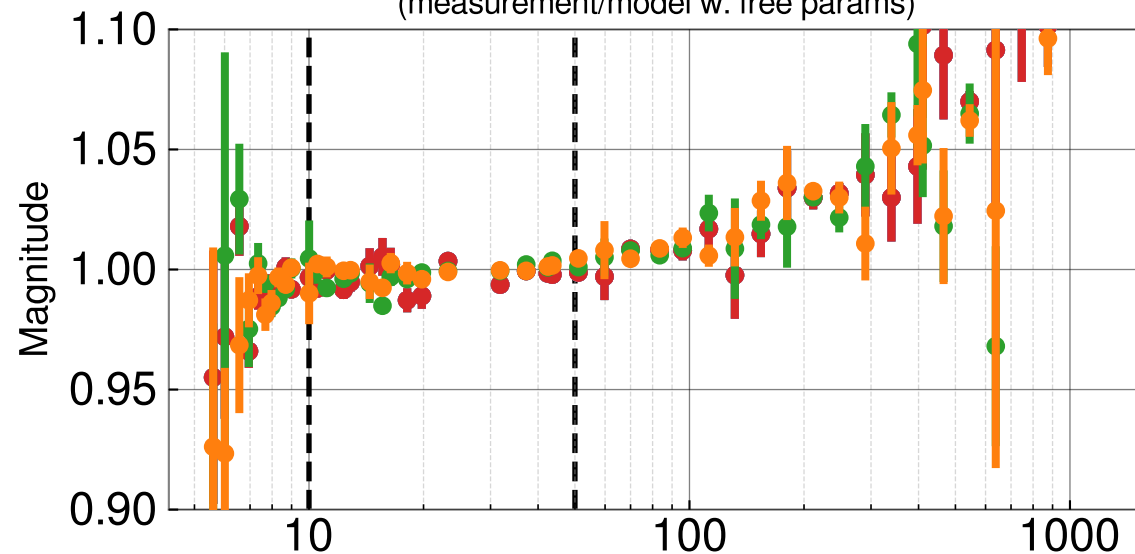
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230505T012609Z/pydarm_H1.ini



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

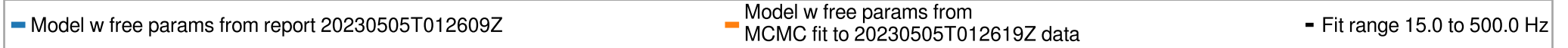


Actuation strength residuals
(measurement/model w. free params)

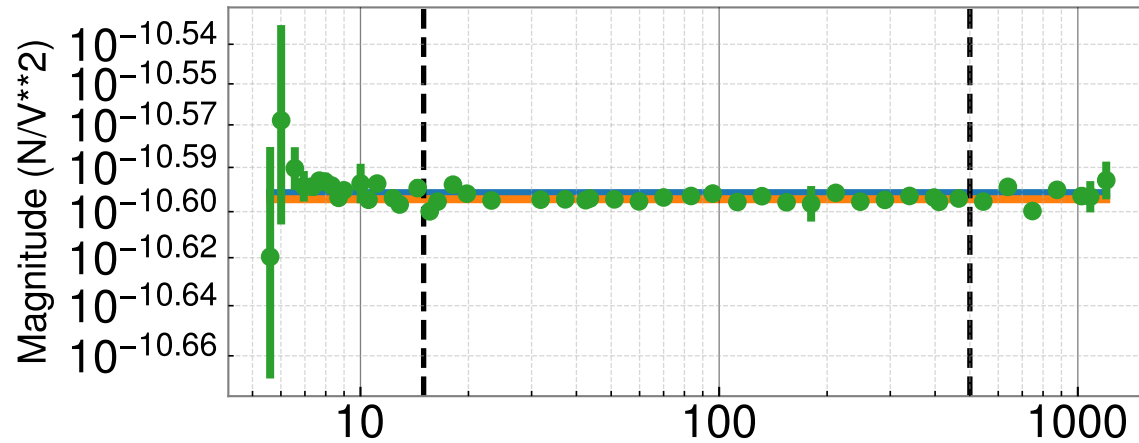


H1SUSEX L3 actuation model MCMC summary

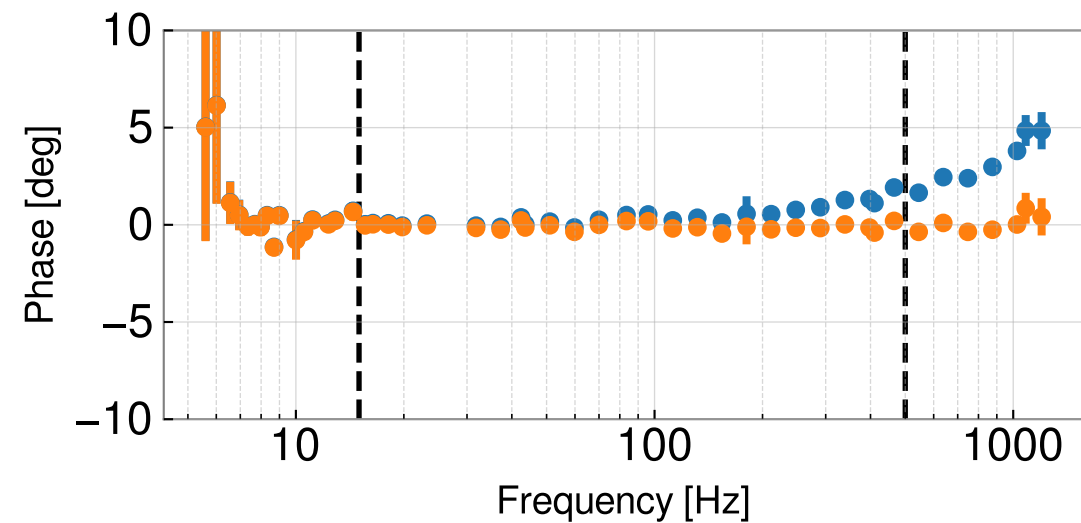
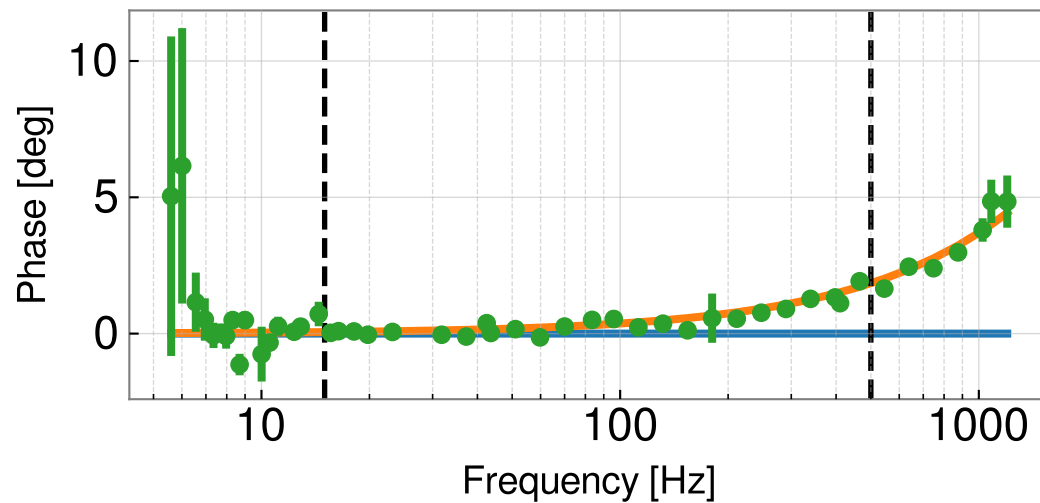
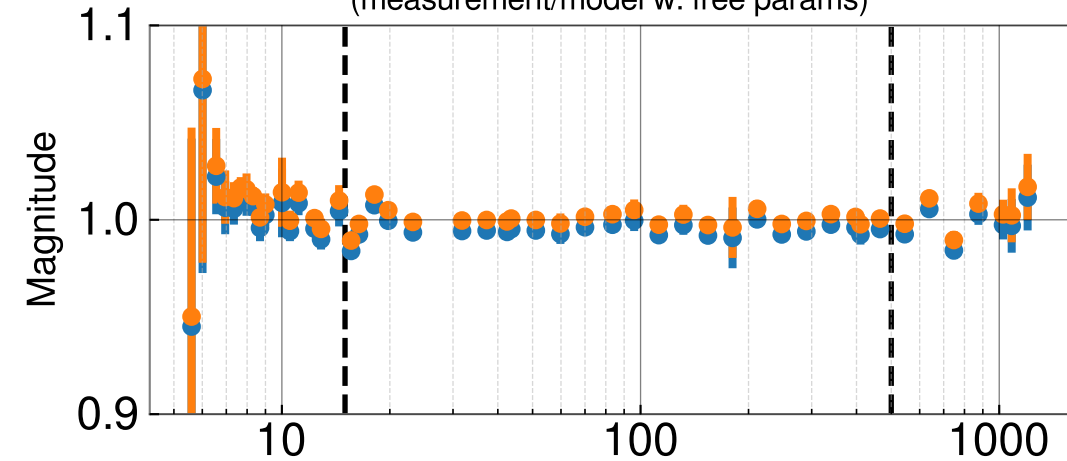
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230505T012609Z/pydarm_H1.ini



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

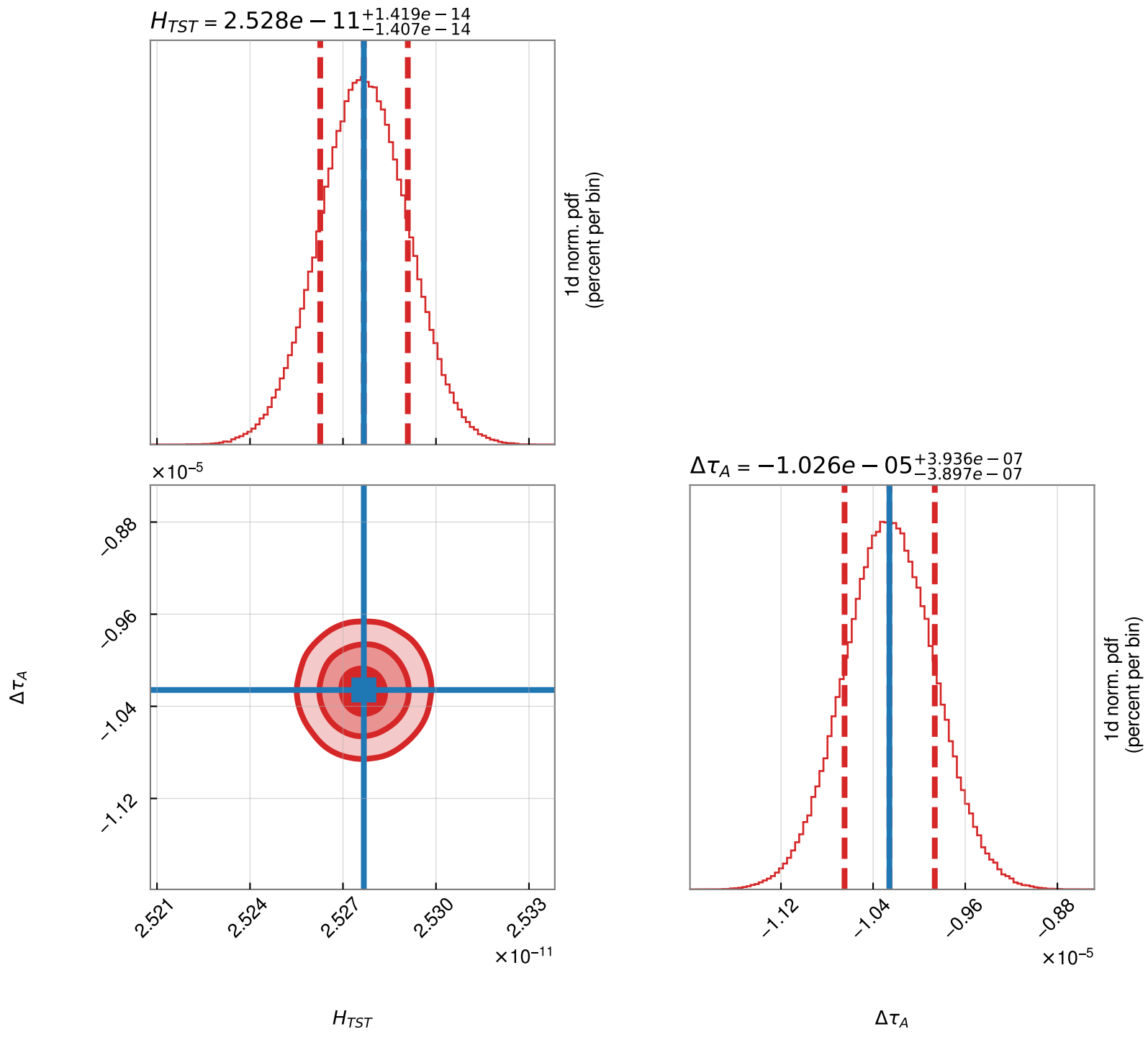
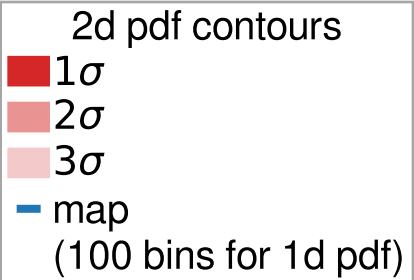


Actuation strength residuals
(measurement/model w. free params)



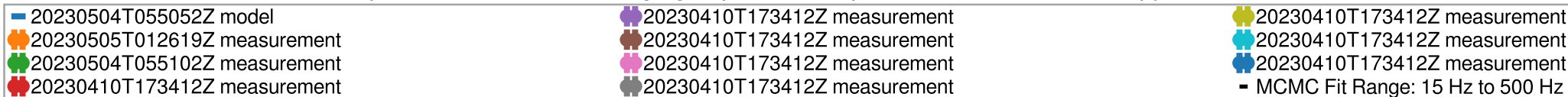
Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V**2)	2.528e-11	1.419e-14 (0.06%)	1.407e-14 (0.06%)
Residual time delay, tau_A (s)	-1.026e-05	3.936e-07 (-3.84%)	3.897e-07 (-3.80%)

20230505T012619Z EX L3 actuation
MCMC corner plot

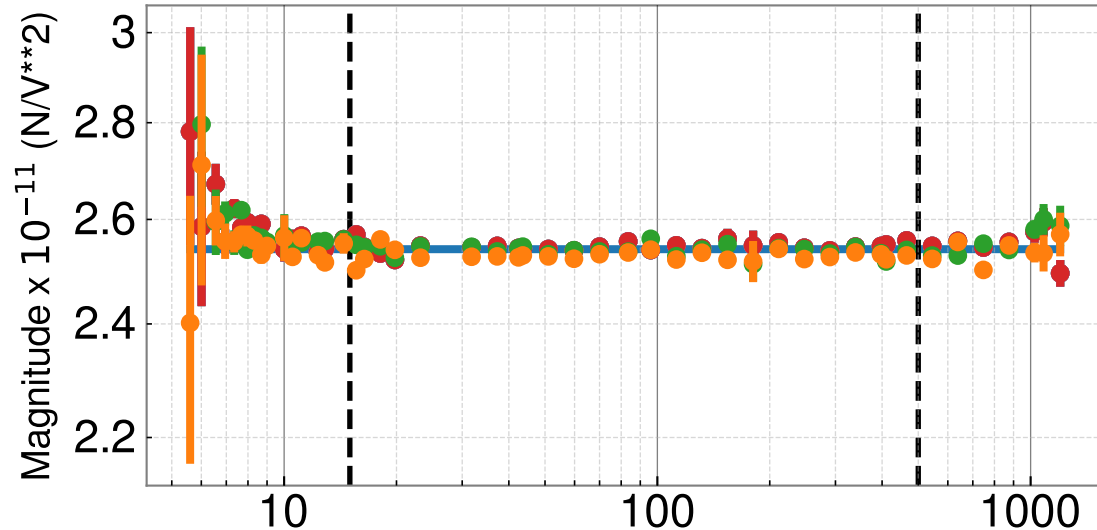


H1 SUSEX L3 actuation model history

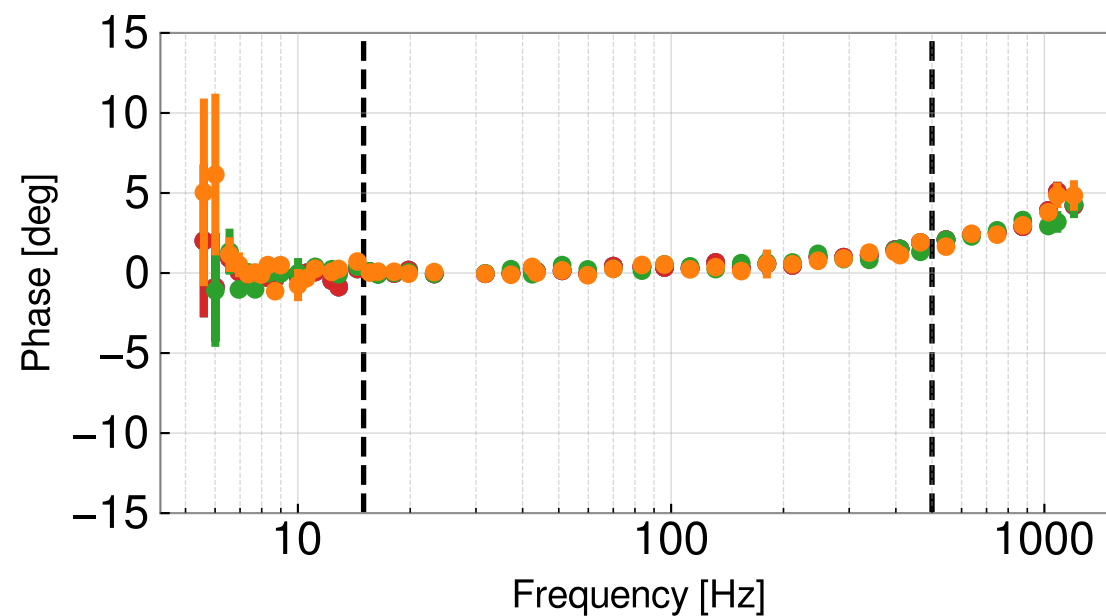
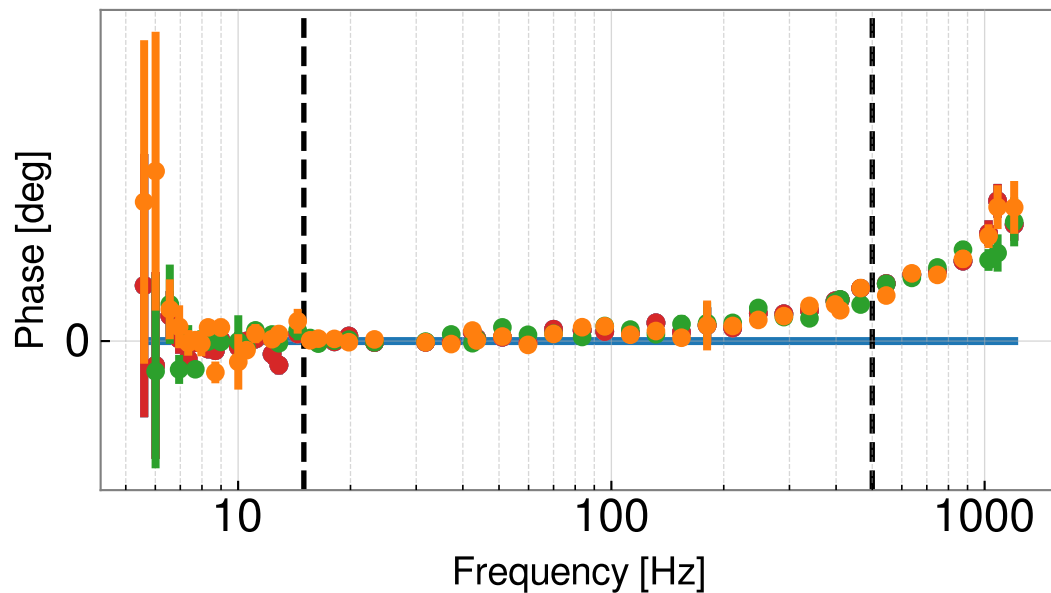
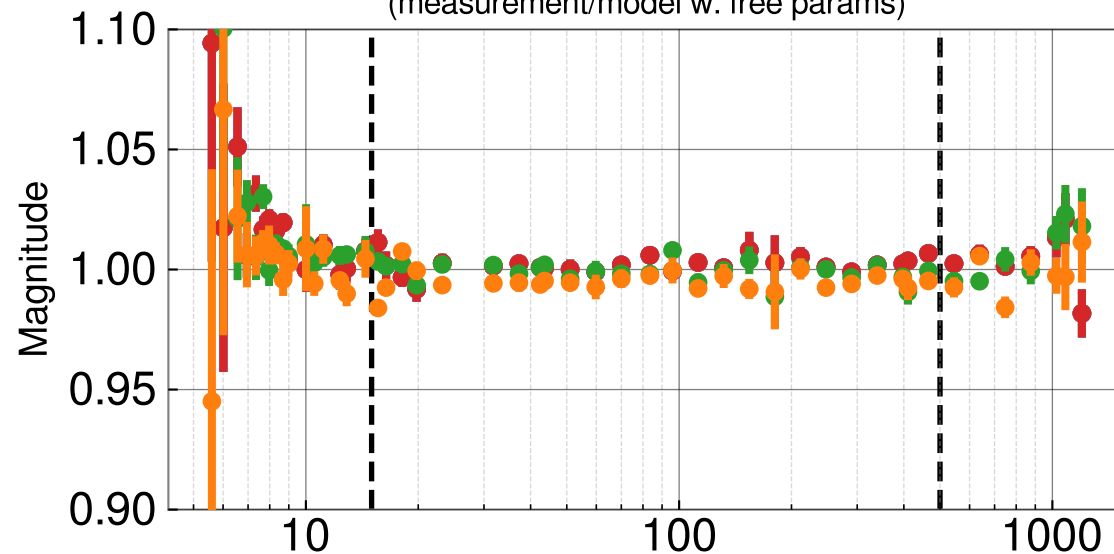
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230505T012609Z/pydarm_H1.ini



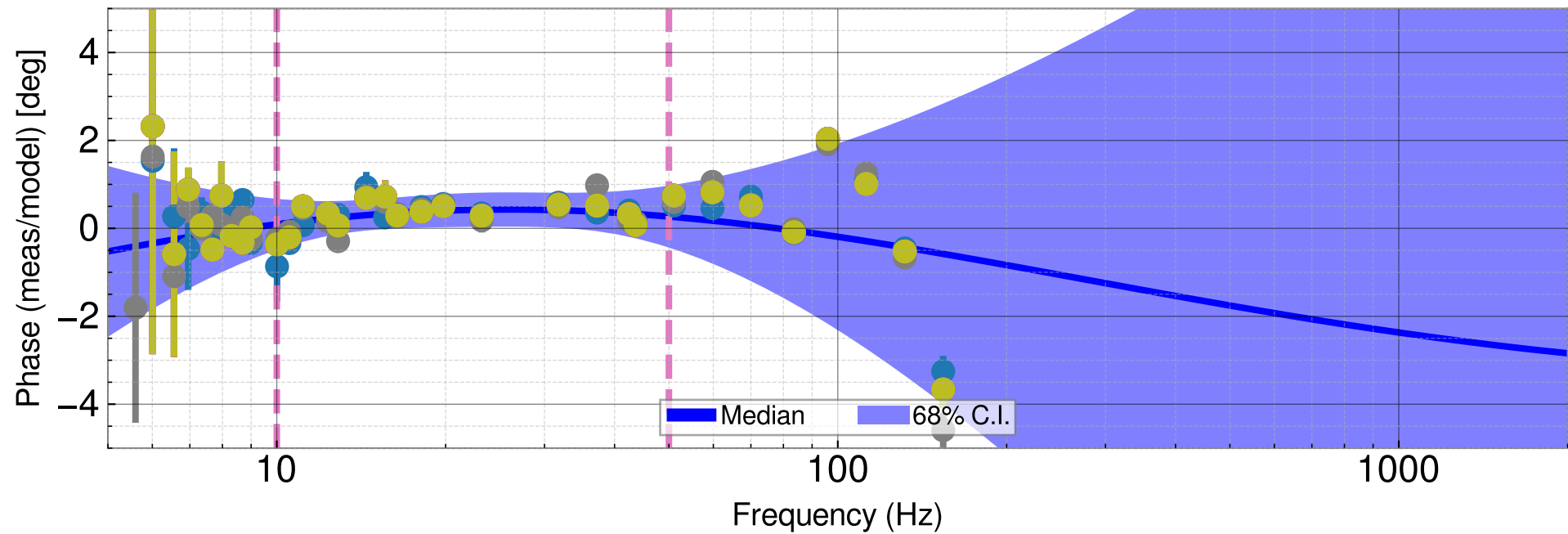
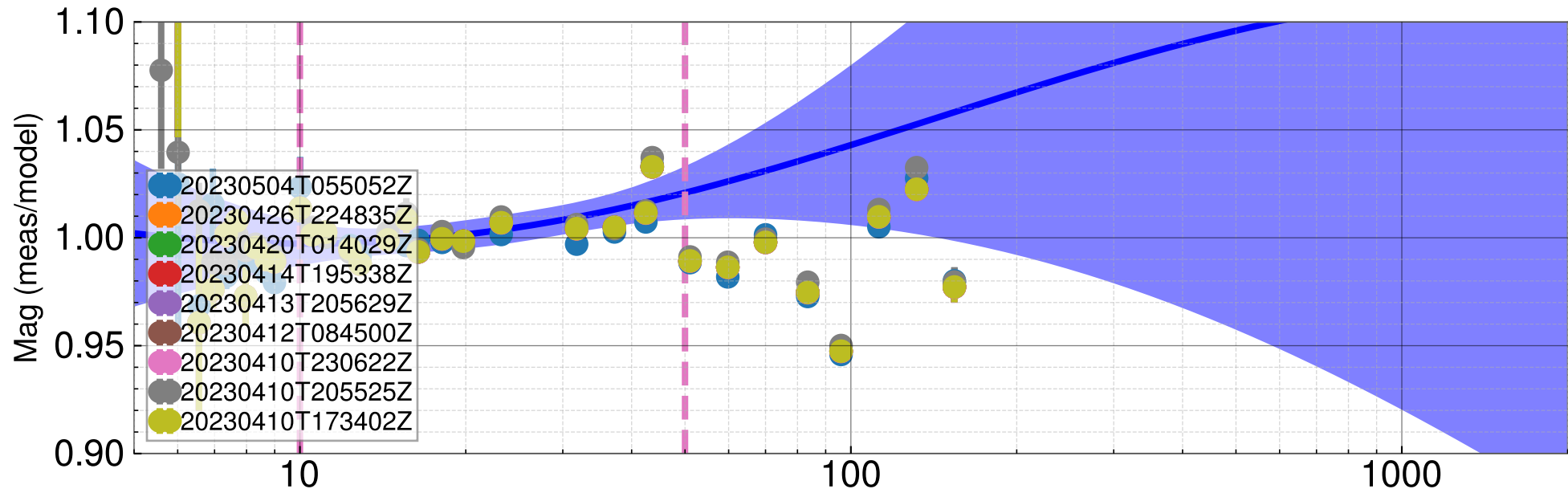
Actuation strength transfer functions
(scaled by H_{ref})



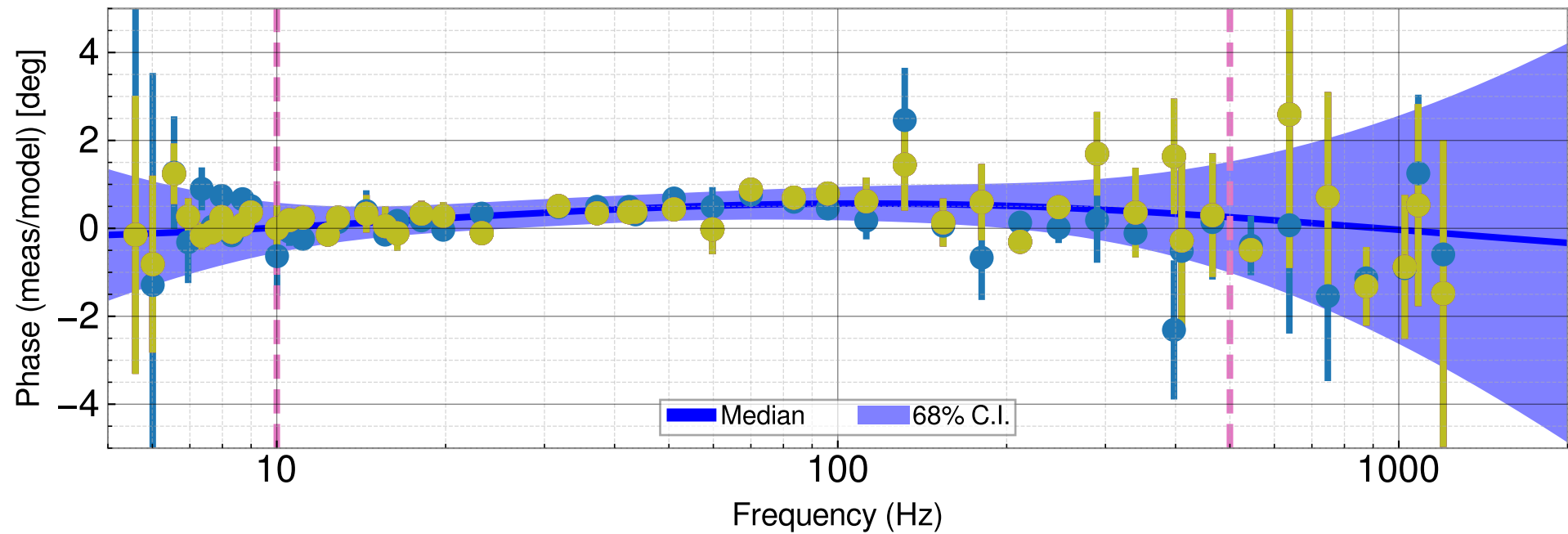
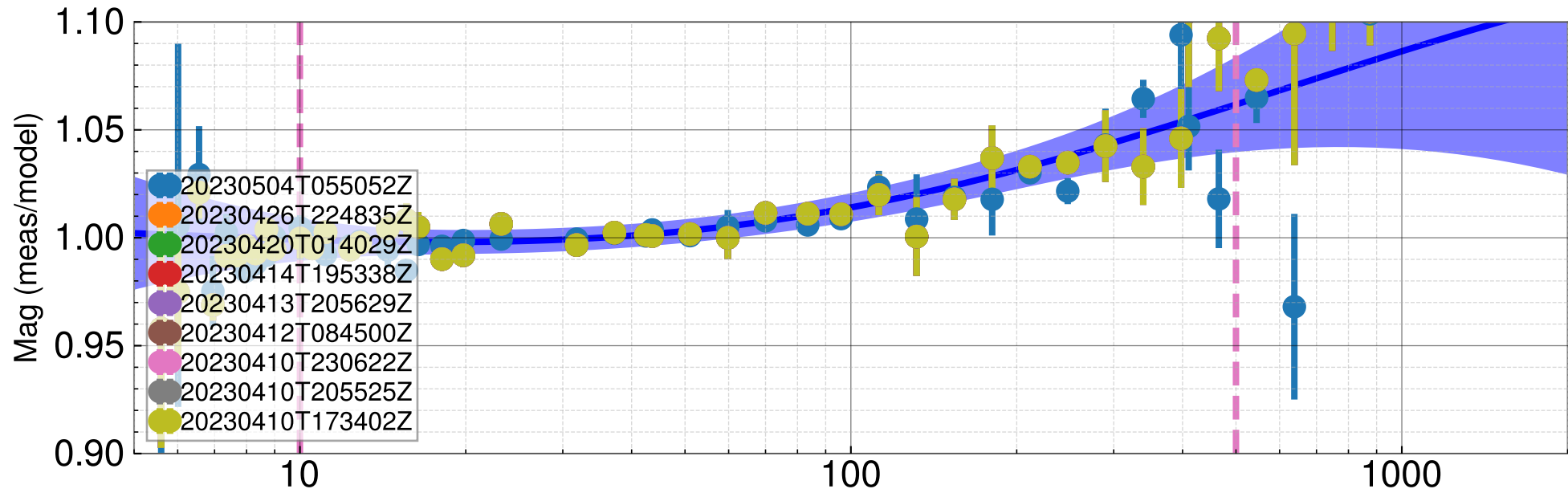
Actuation strength residuals
(measurement/model w. free params)



Actuation/L3/EX GPR



Actuation/L3/EX GPR



Actuation/L3/EX GPR

