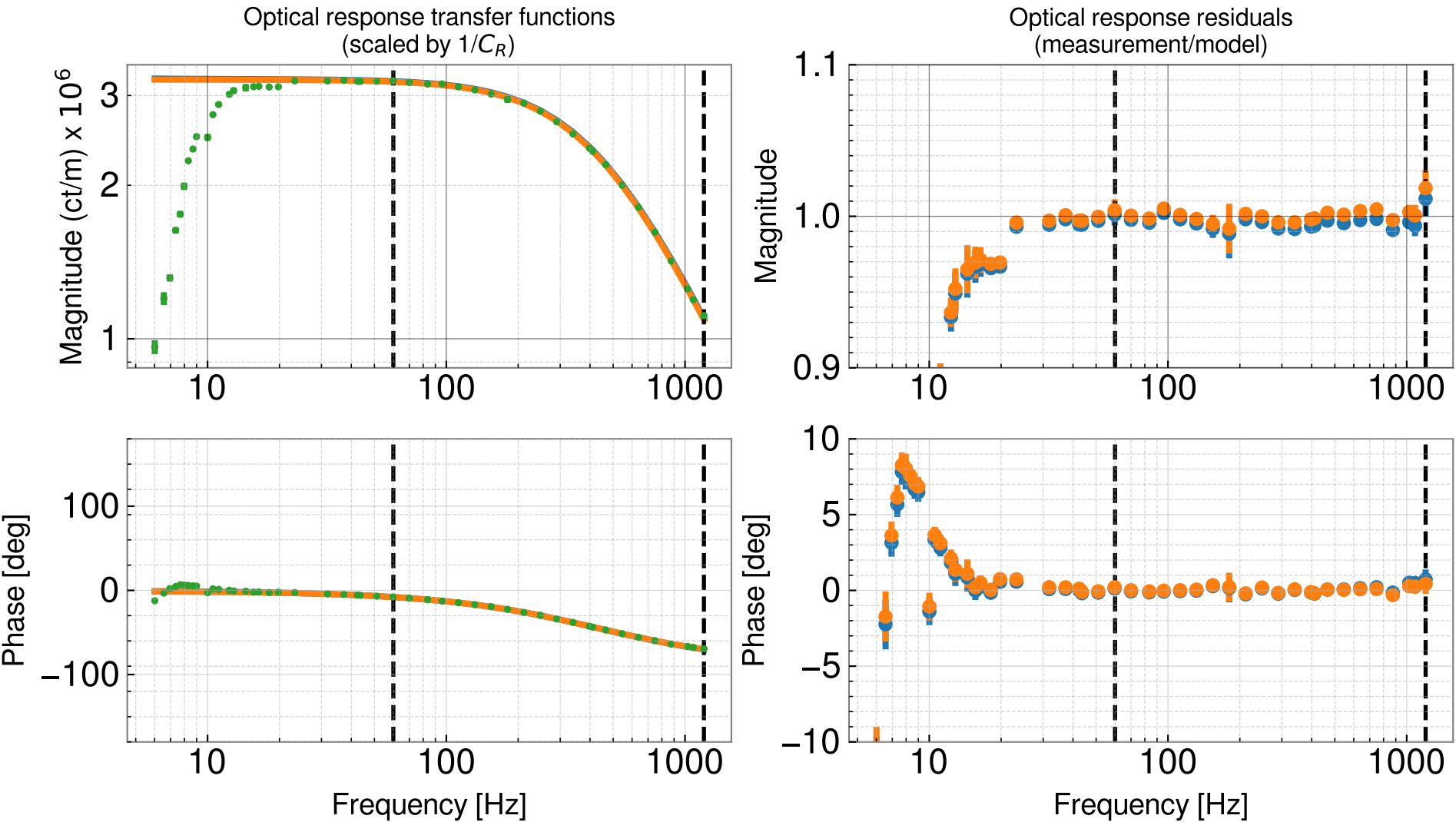
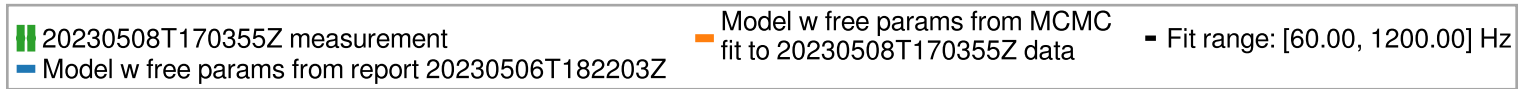


H1 sensing model MCMC summary

All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20230508T180014Z/pydarm_H1.ini`

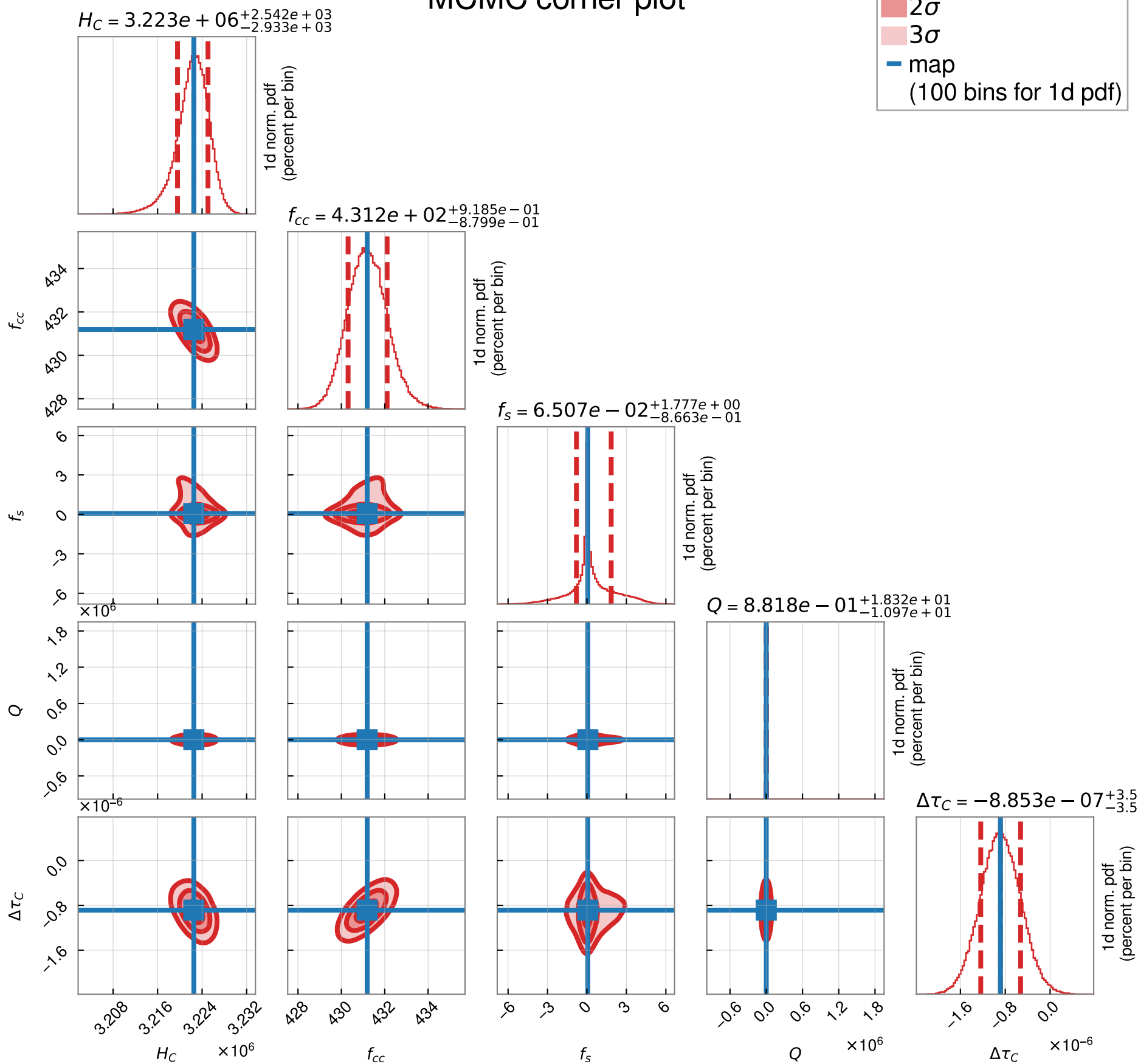


Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.223e+06	2542 (0.08%)	2933 (0.09%)
Cavity_pole, f_cc (Hz)	431.2	0.9185 (0.21%)	0.8799 (0.20%)
Detuned SRC spring frequency, f_s (Hz)	0.06507	1.777 (2730.69%)	0.8663 (1331.32%)
Detuned SRC spring quality factor, Q_s	0.8818	18.32 (2077.99%)	10.97 (1244.57%)
Residual time delay, tau_c (s)	-8.853e-07	3.587e-07 (-40.52%)	3.519e-07 (-39.75%)

2d pdf contours

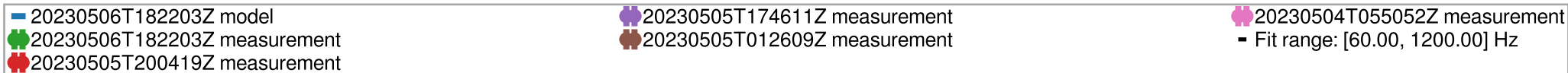
- 1 σ
- 2 σ
- 3 σ
- map

(100 bins for 1d pdf)

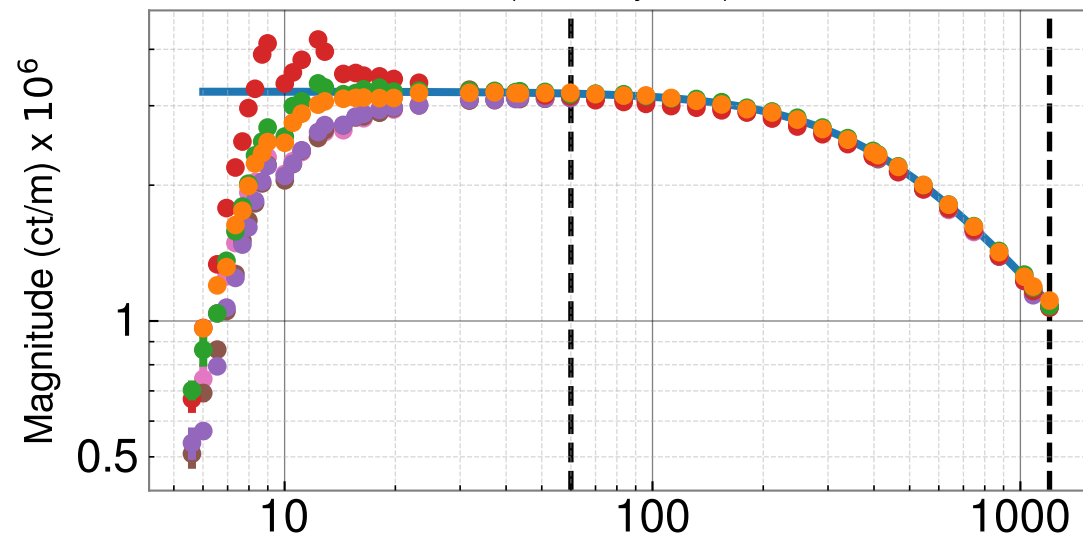


H1 sensing model history

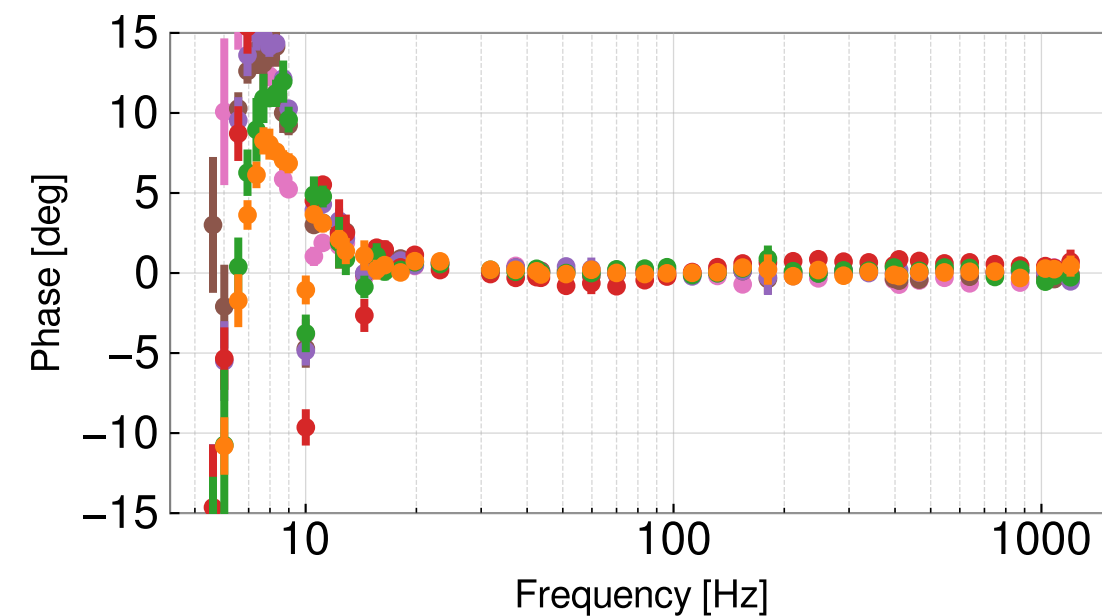
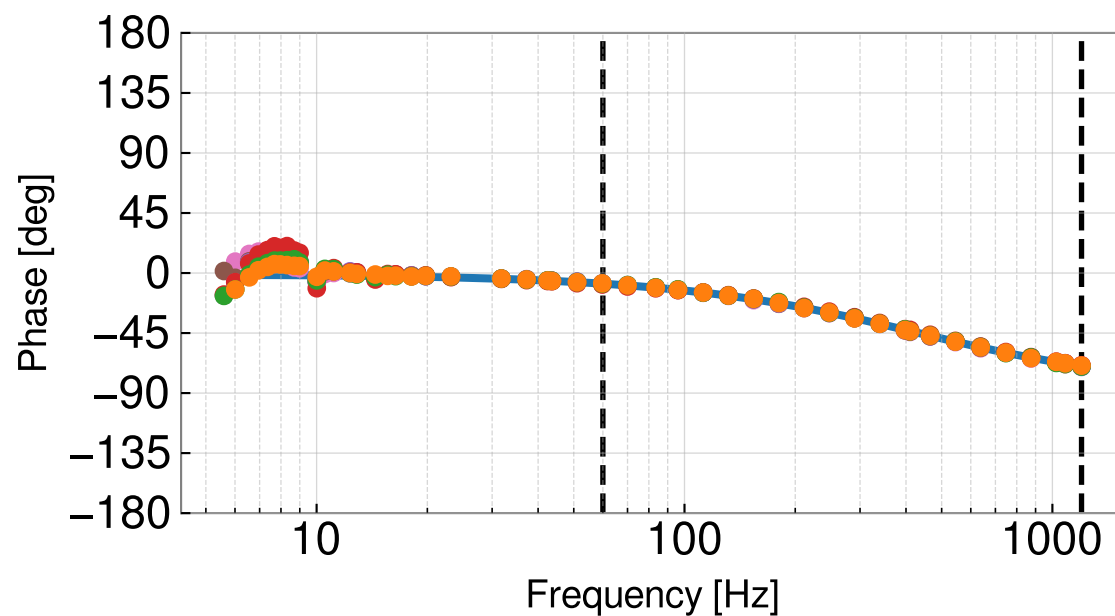
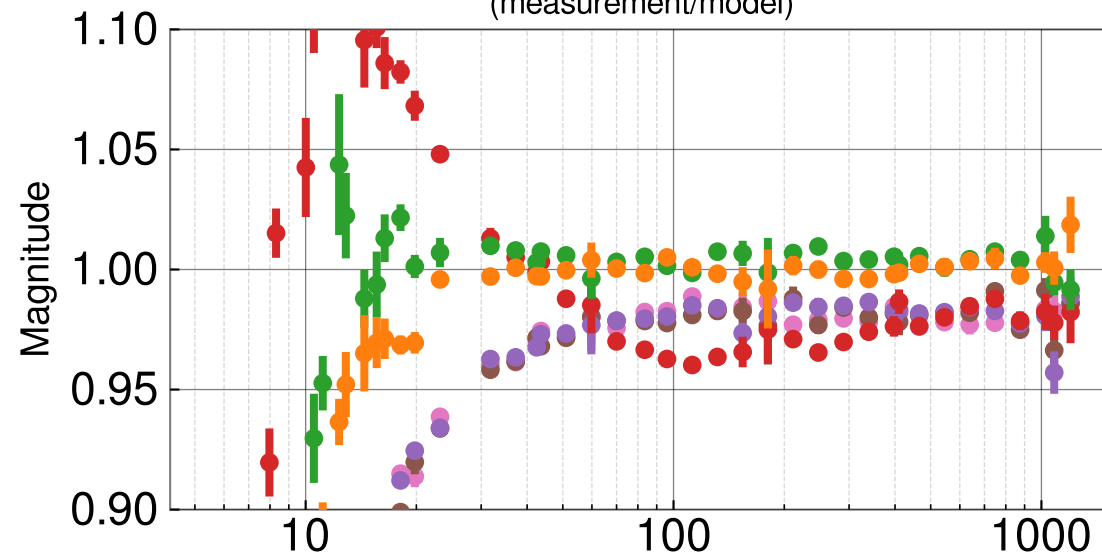
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230508T180014Z/pydarm_H1.ini



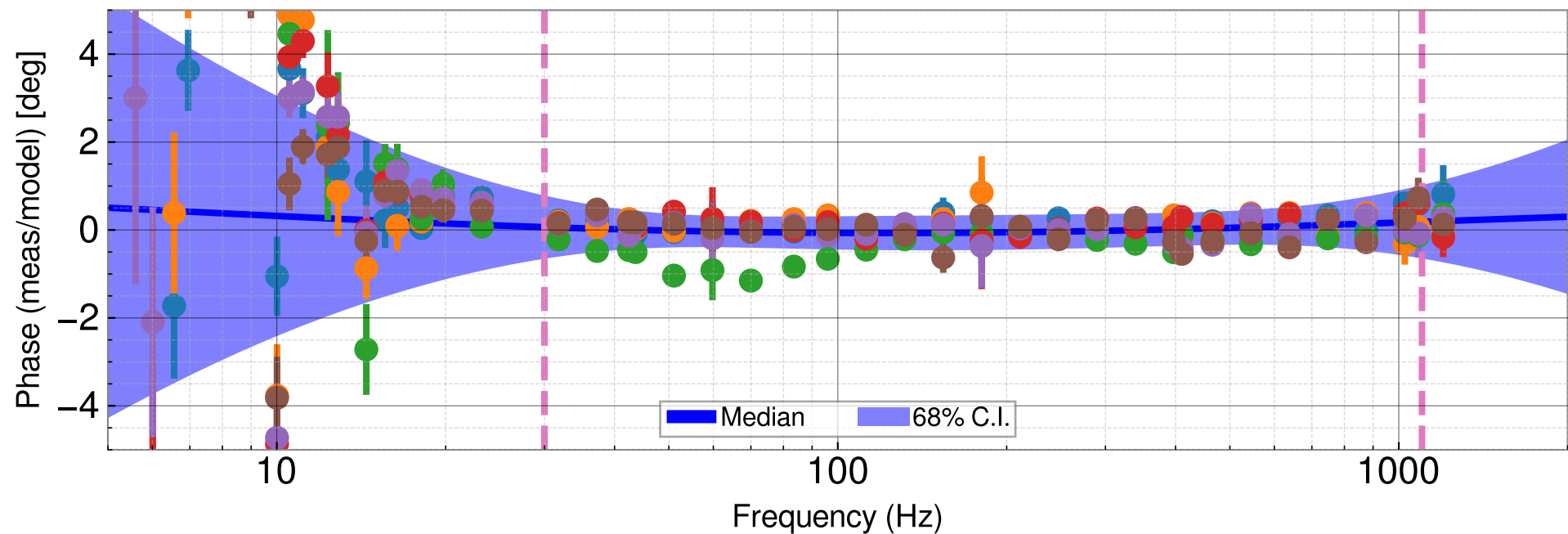
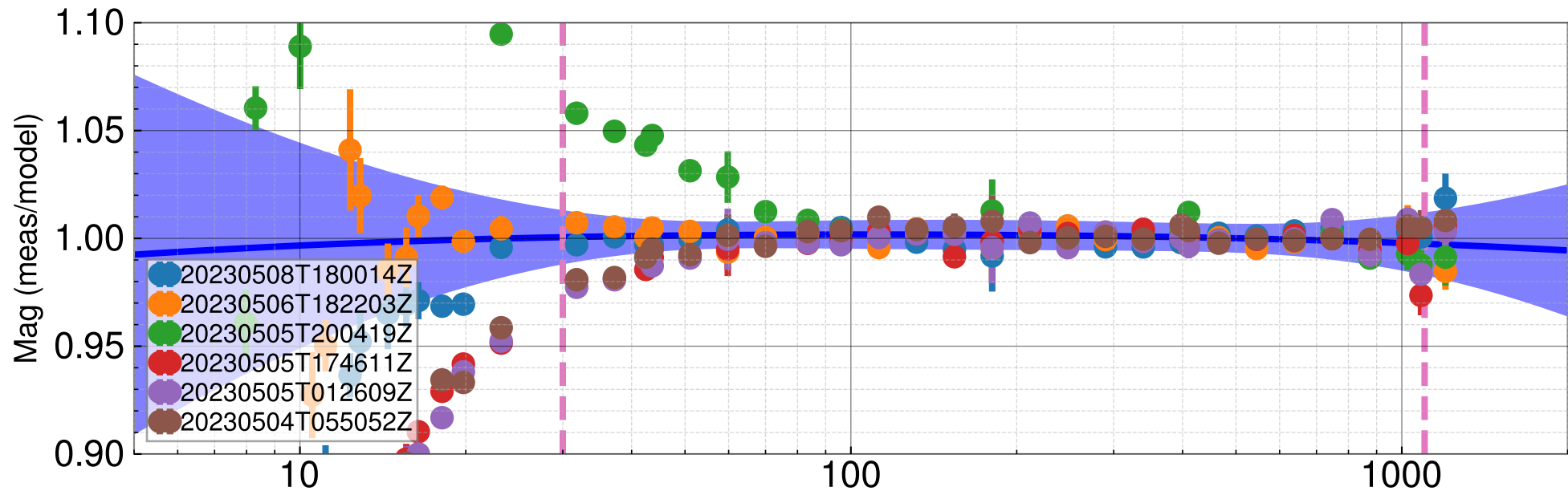
Optical response transfer functions
(scaled by $1/C_R$)



Optical response residuals
(measurement/model)



Sensing GPR

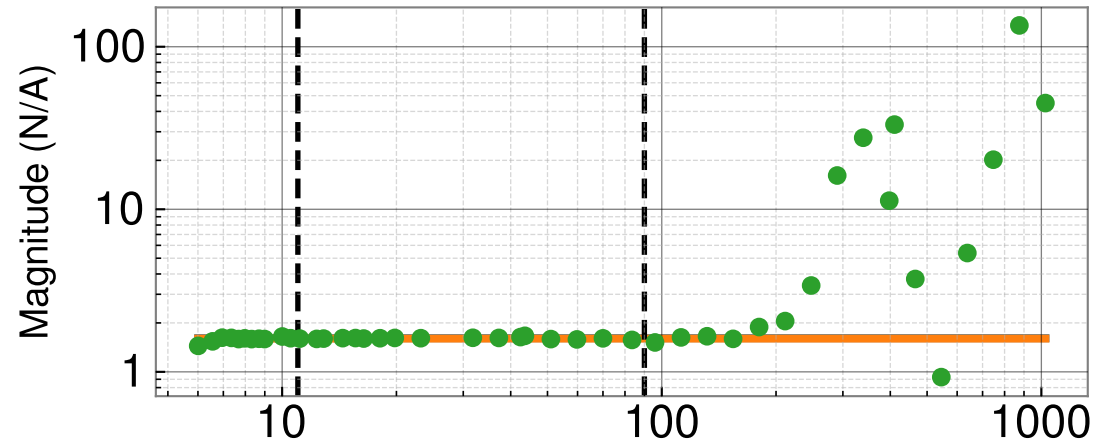


H1SUSEX L1 actuation model MCMC summary

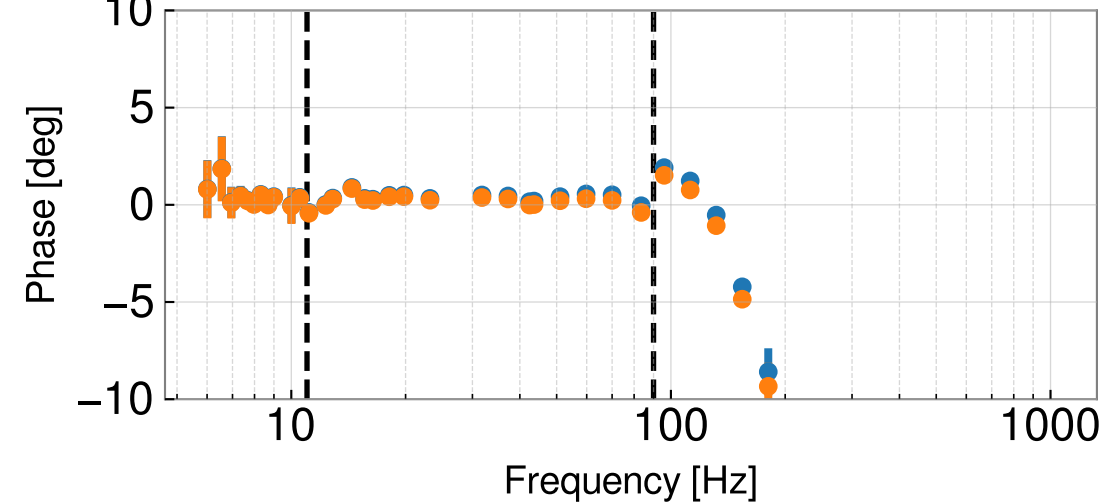
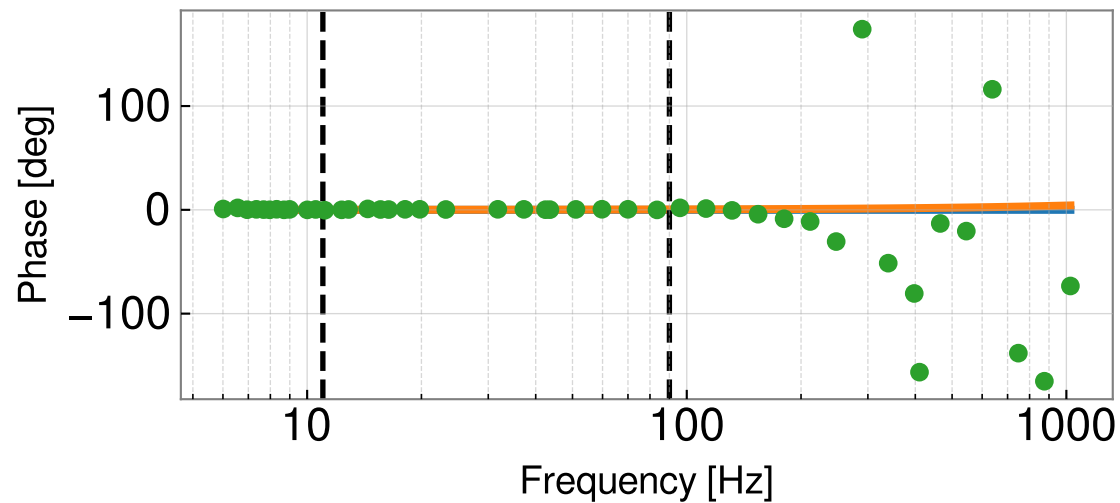
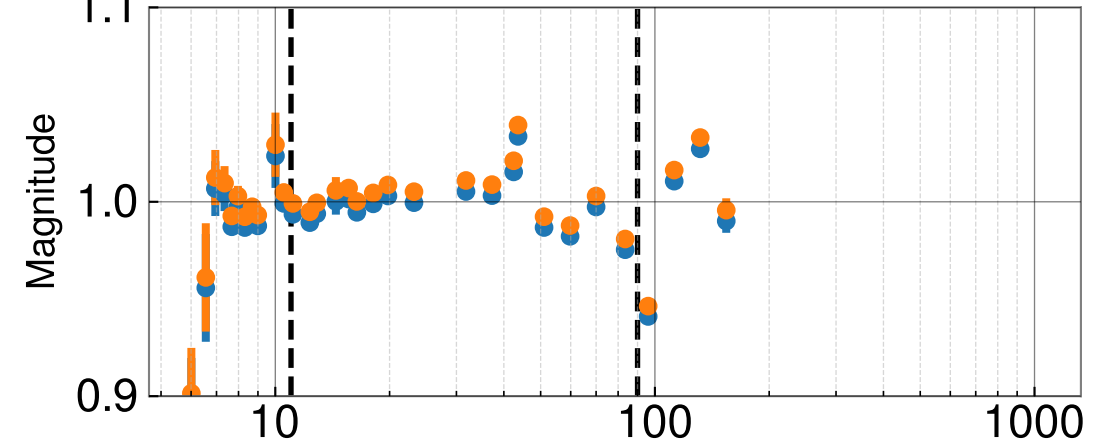
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230508T180014Z/pydarm_H1.ini



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

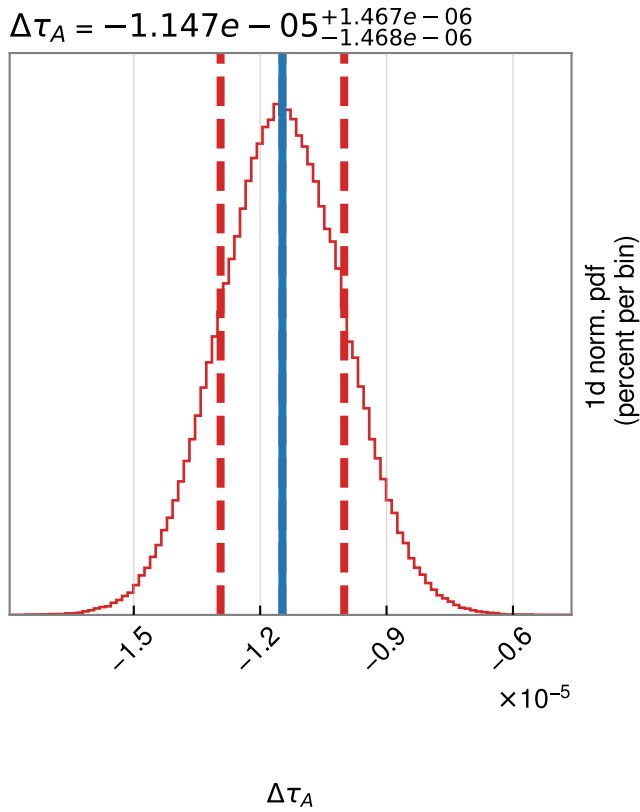
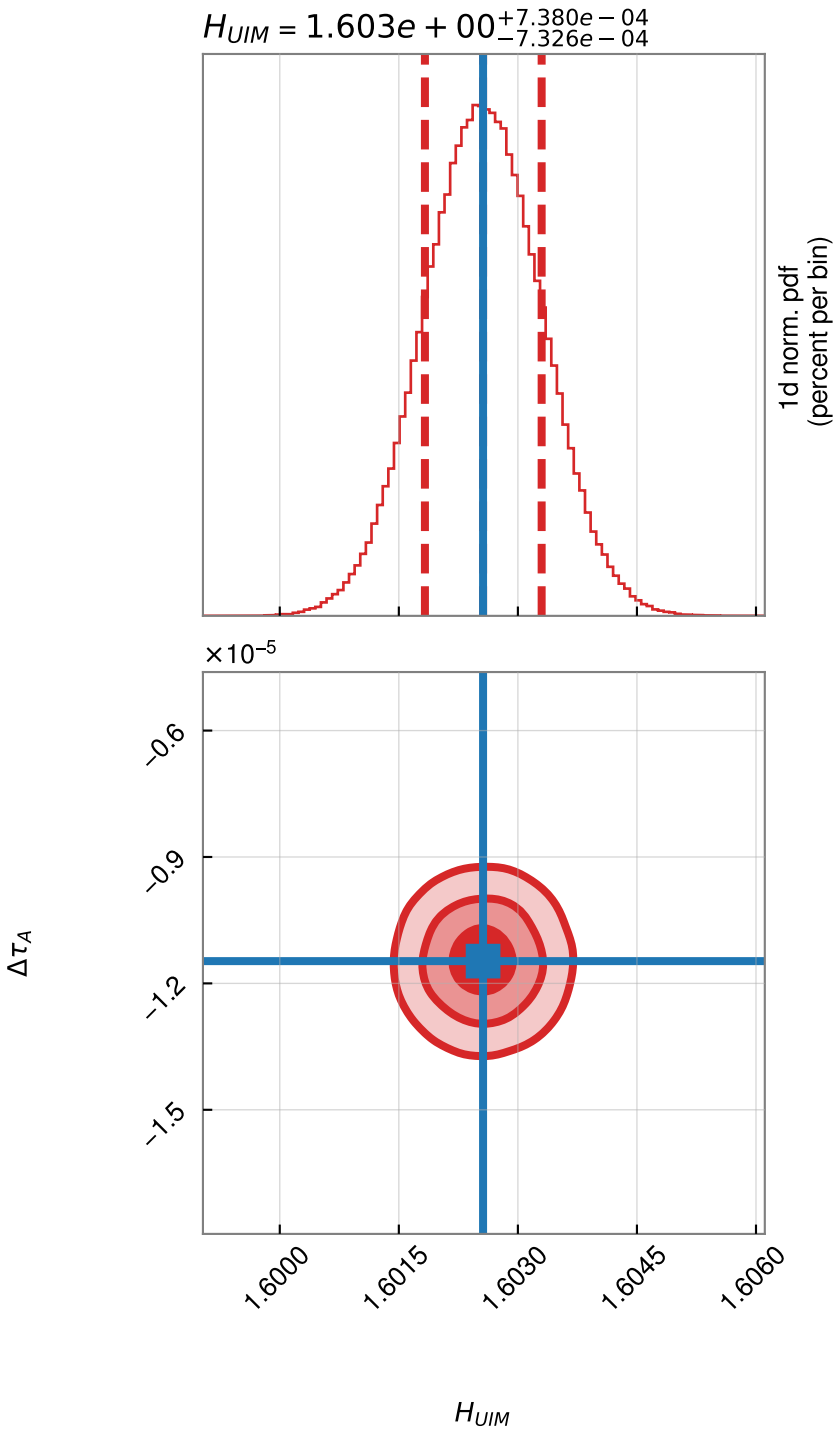
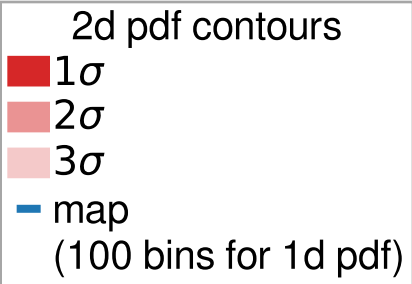


Actuation strength residuals
(measurement/model w. free params)



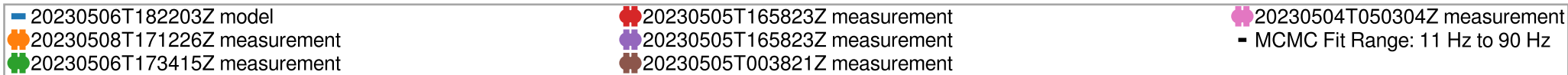
Parameter	(value +/-) value	+	-
Actuation Gain, Hau (N/A)	1.603	0.000738 (0.05%)	0.0007326 (0.05%)
Residual time delay, tau_A (s)	-1.147e-05	1.467e-06 (-12.78%)	1.468e-06 (-12.79%)

20230508T171226Z EX L1 actuation
MCMC corner plot

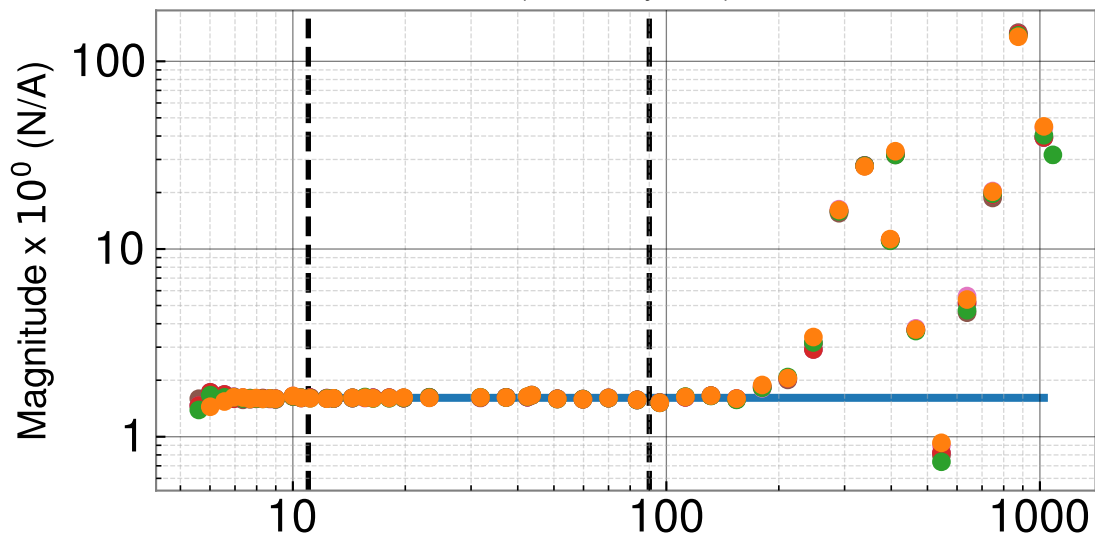


H1SUSEX L1 actuation model history

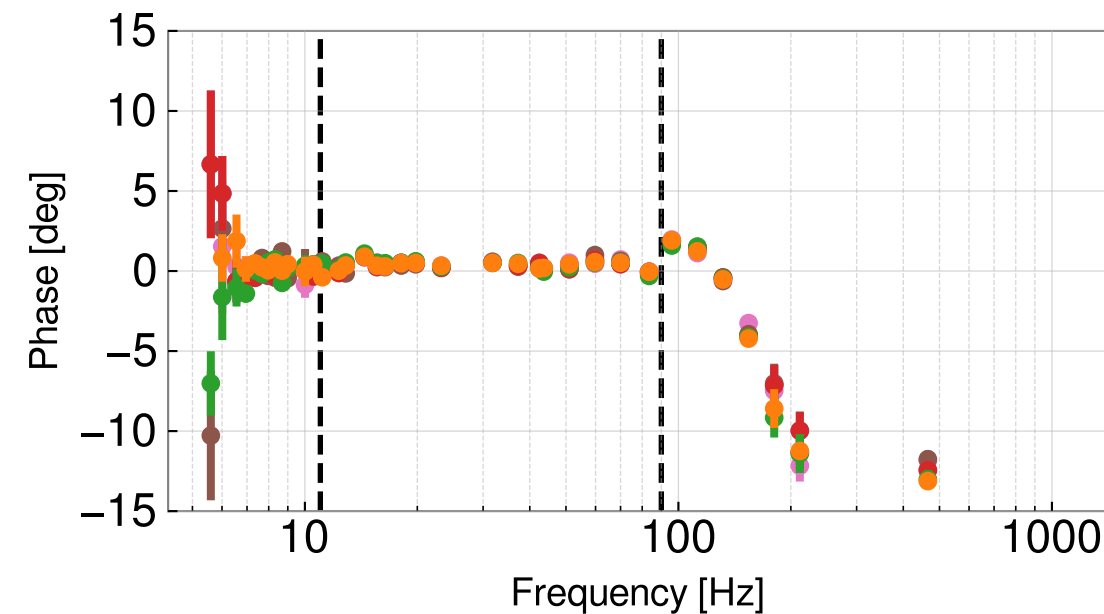
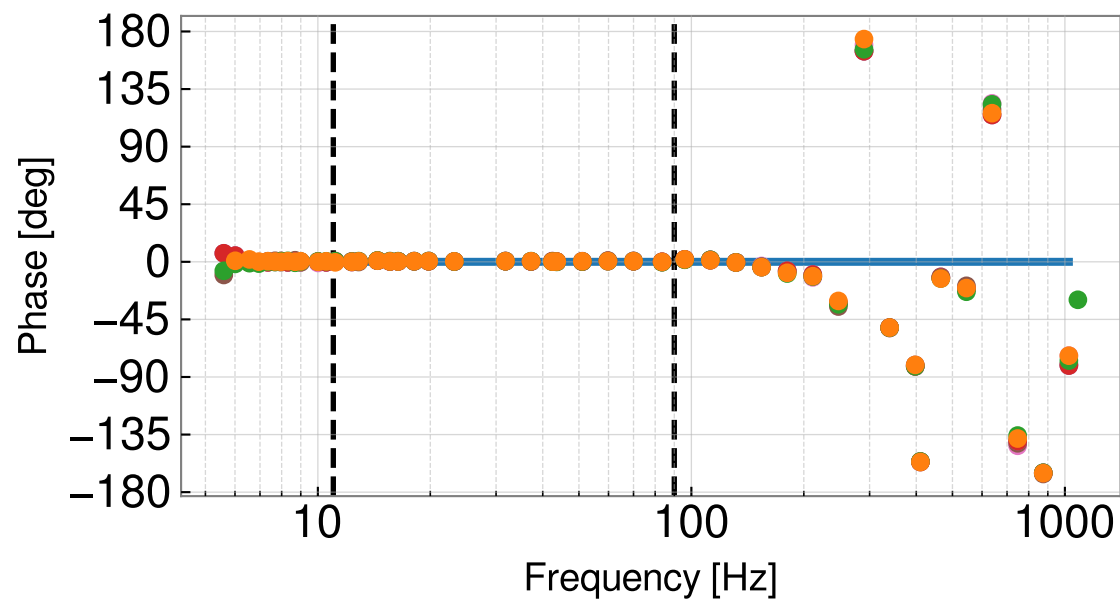
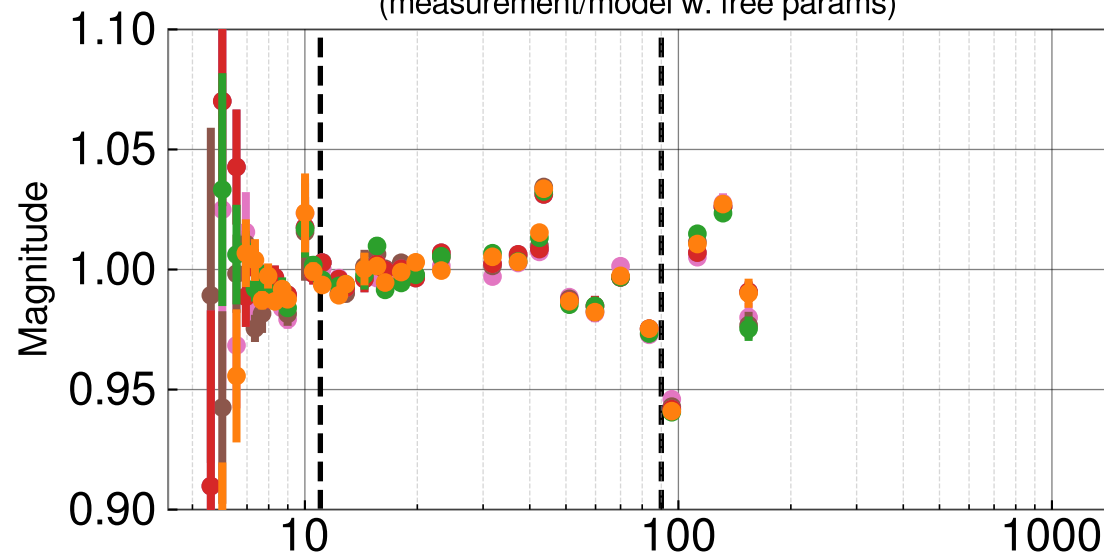
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230508T180014Z/pydarm_H1.ini



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

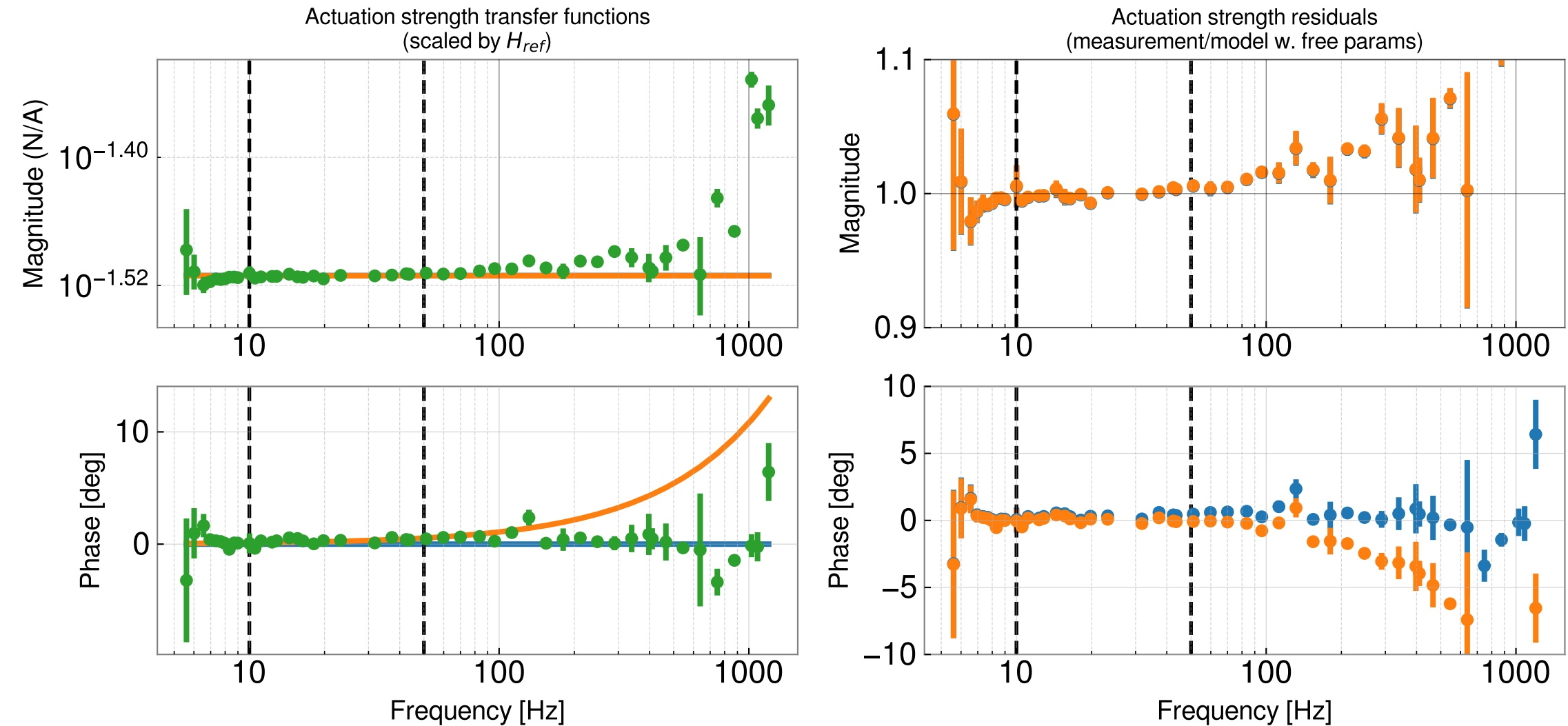
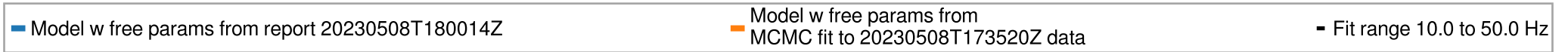


Actuation strength residuals
(measurement/model w. free params)



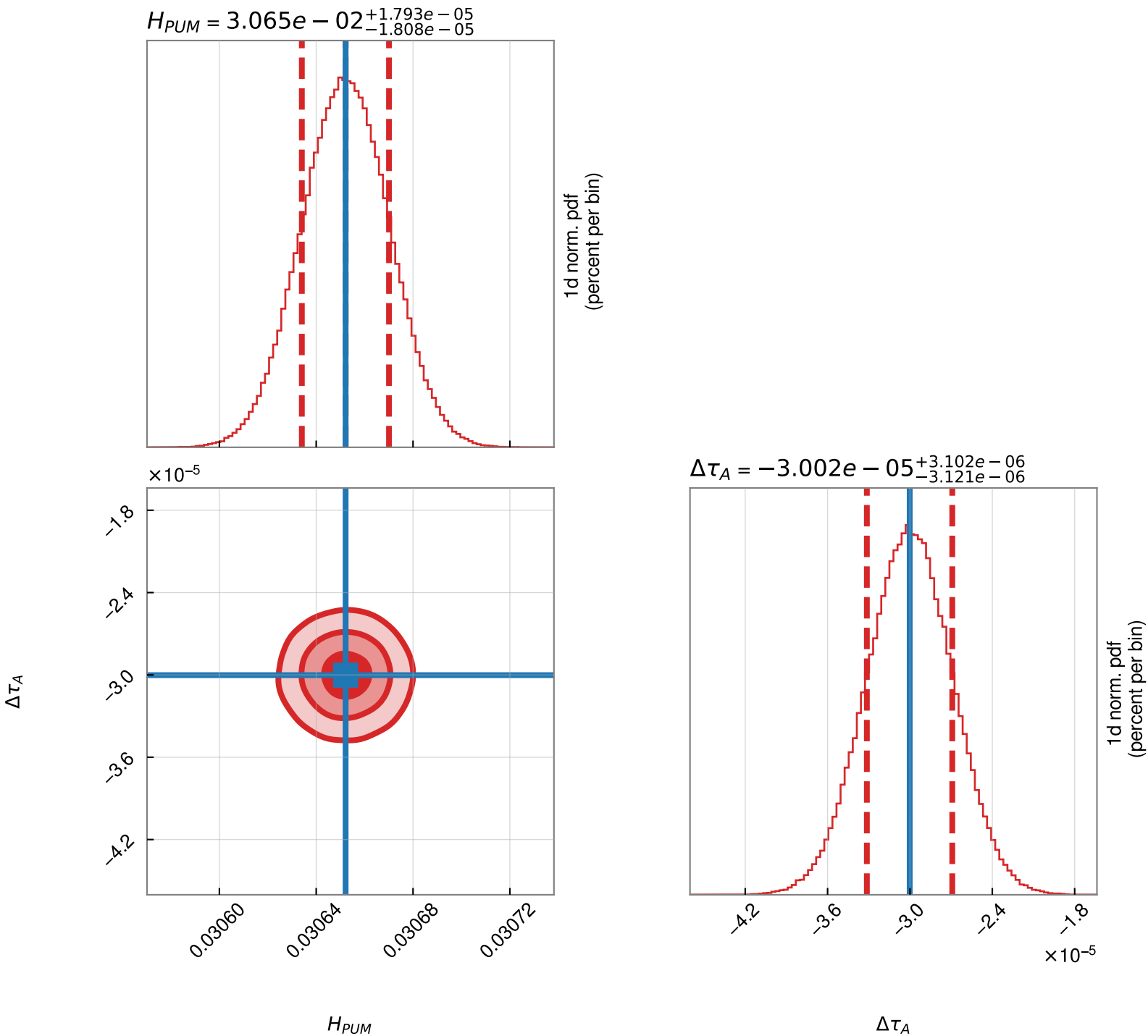
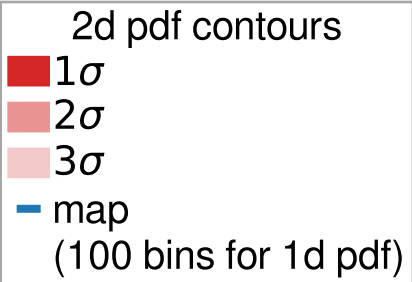
H1SUSEX L2 actuation model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230508T180014Z/pydarm_H1.ini



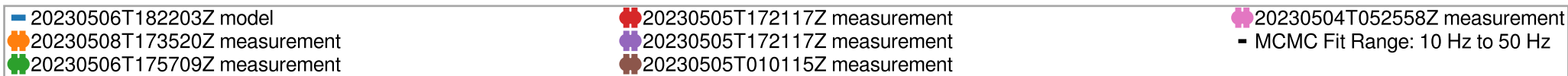
Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.03065	1.793e-05 (0.06%)	1.808e-05 (0.06%)
Residual time delay, tau_A (s)	-3.002e-05	3.102e-06 (-10.33%)	3.121e-06 (-10.40%)

20230508T173520Z EX L2 actuation
MCMC corner plot

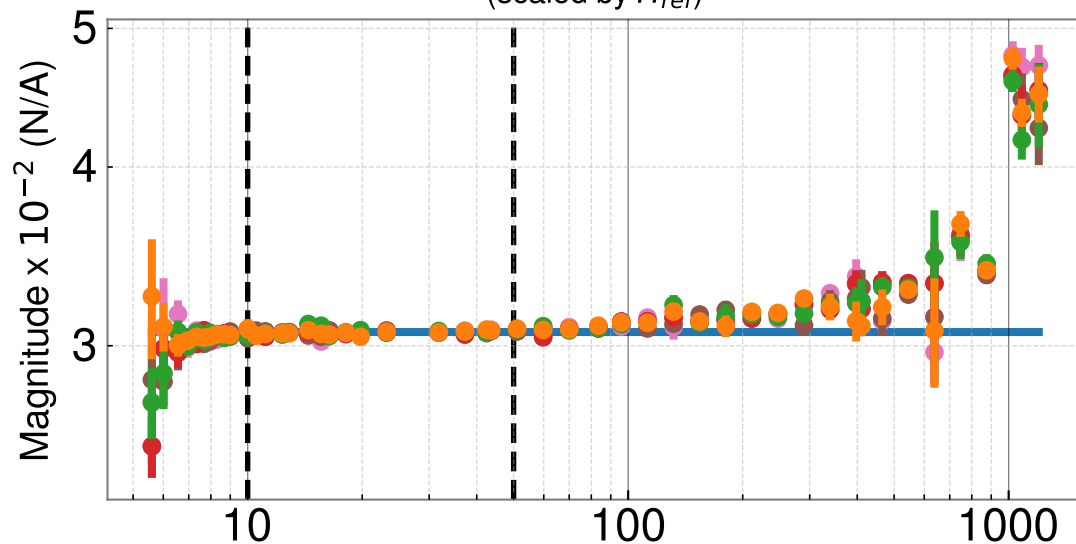


H1 SUSEX L2 actuation model history

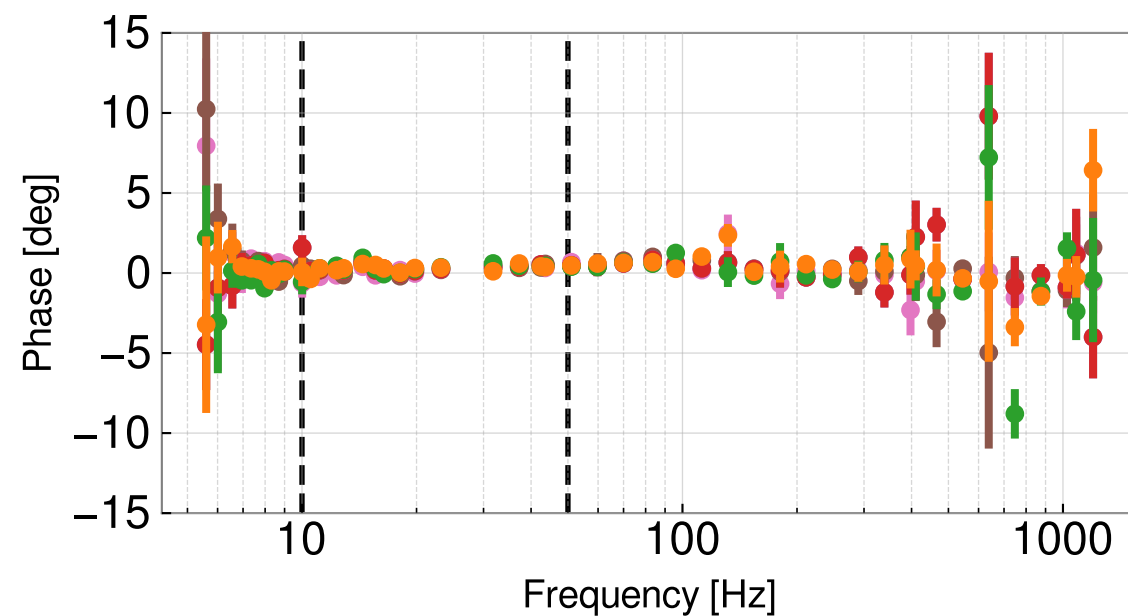
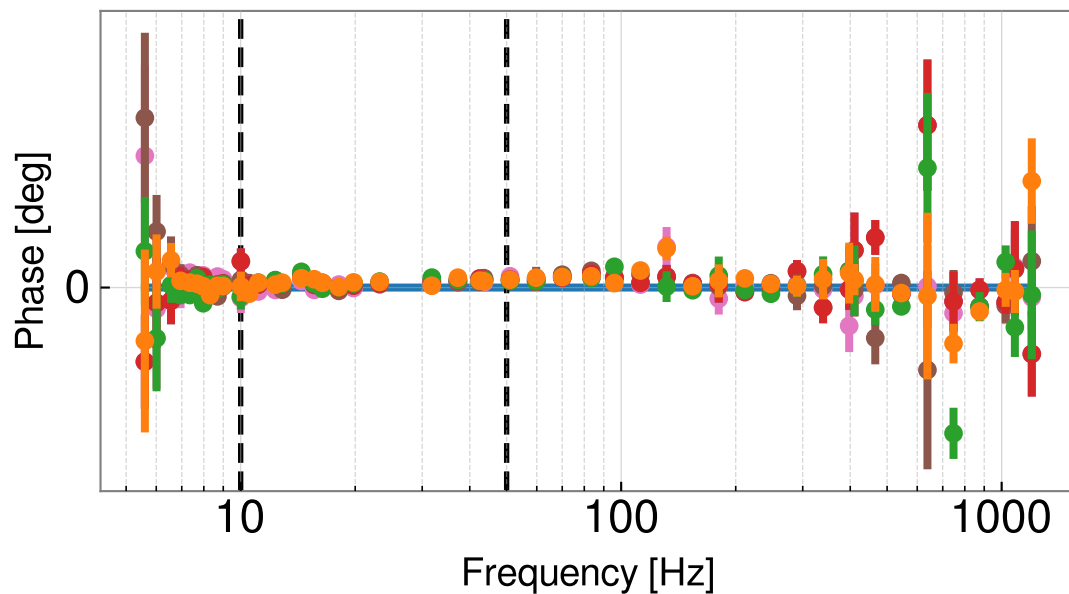
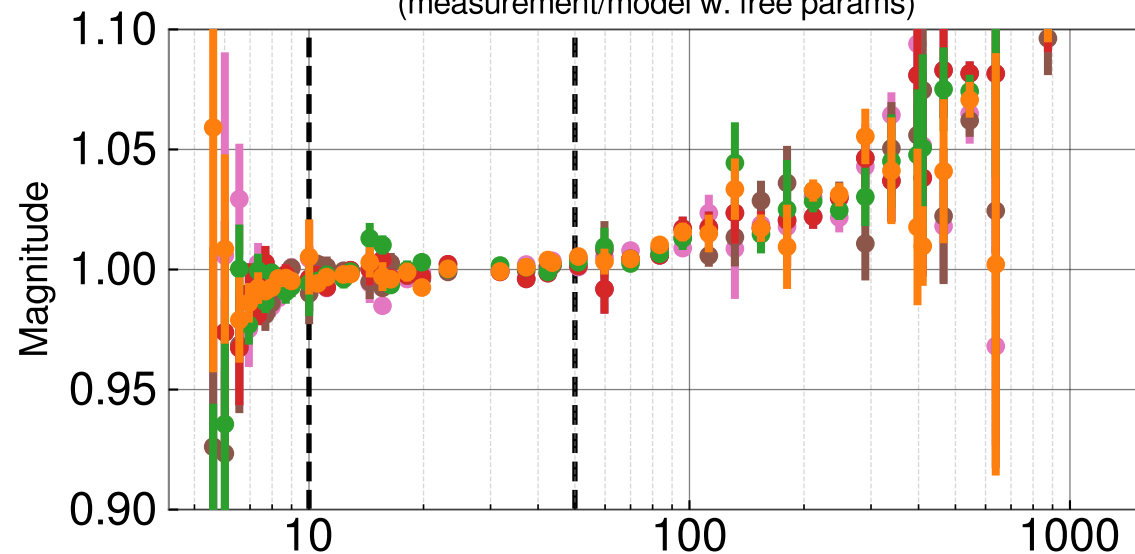
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20230508T180014Z/pydarm_H1.ini`



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



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



H1SUSEX L3 actuation model MCMC summary

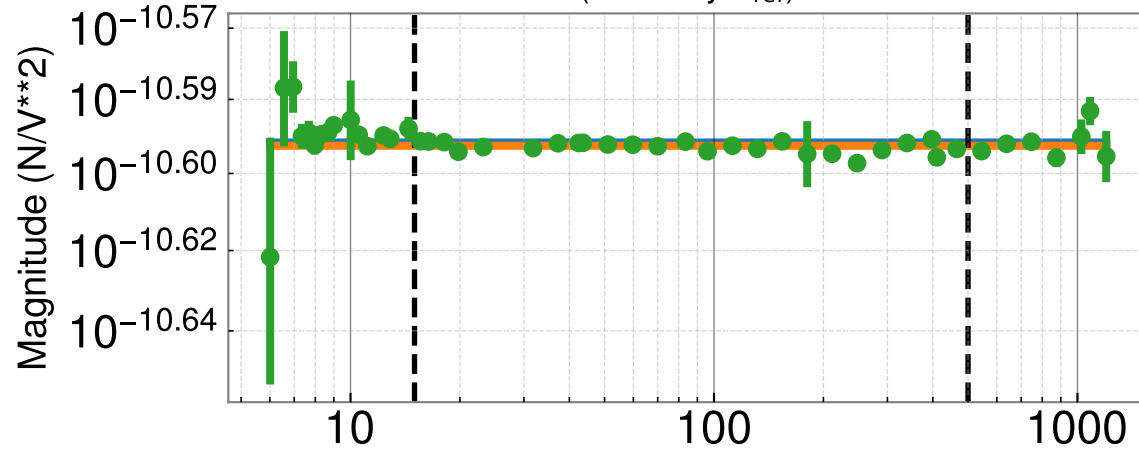
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20230508T180014Z/pydarm_H1.ini

Model w free params from report 20230508T180014Z

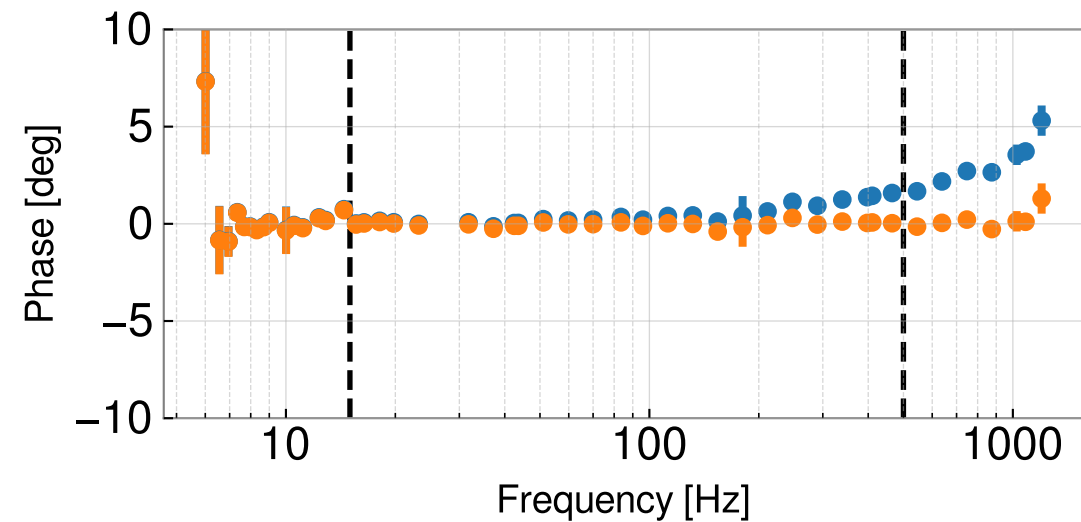
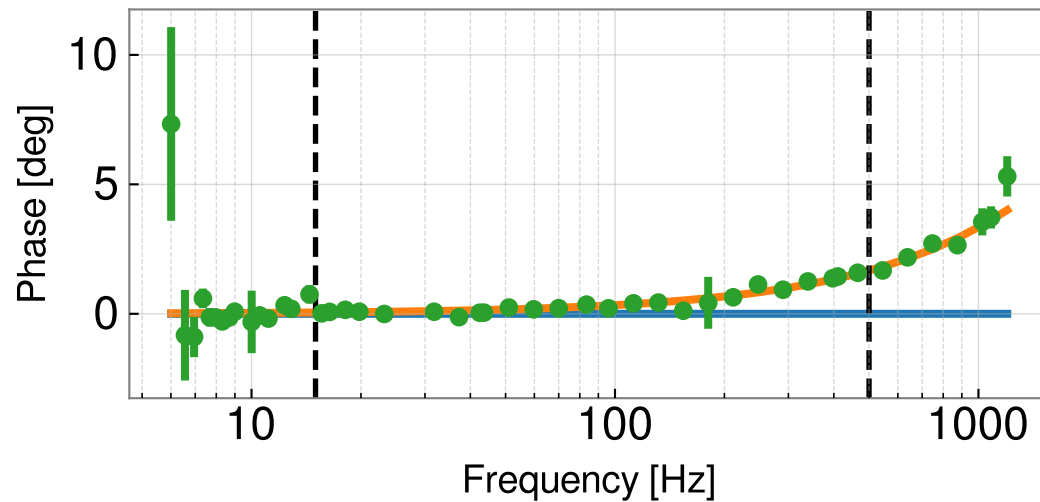
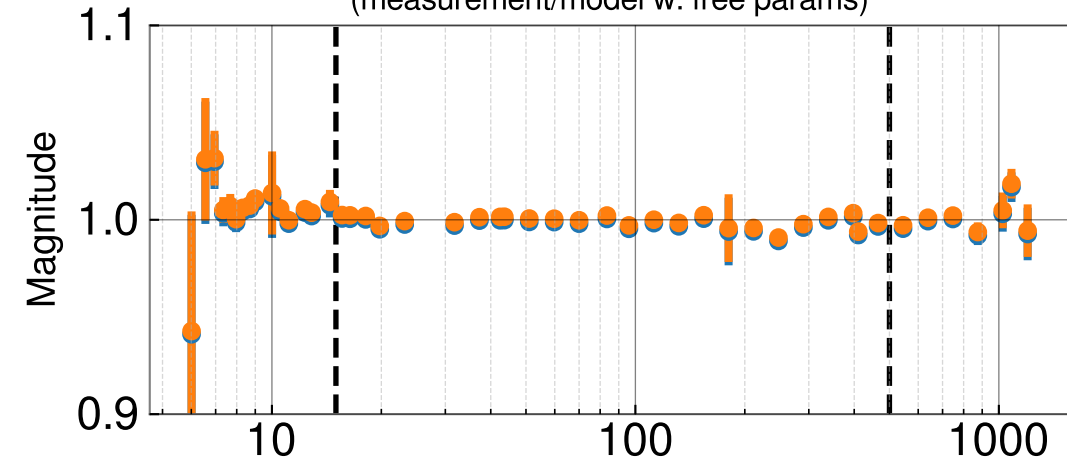
Model w free params from
MCMC fit to 20230508T180024Z data

Fit range 15.0 to 500.0 Hz

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

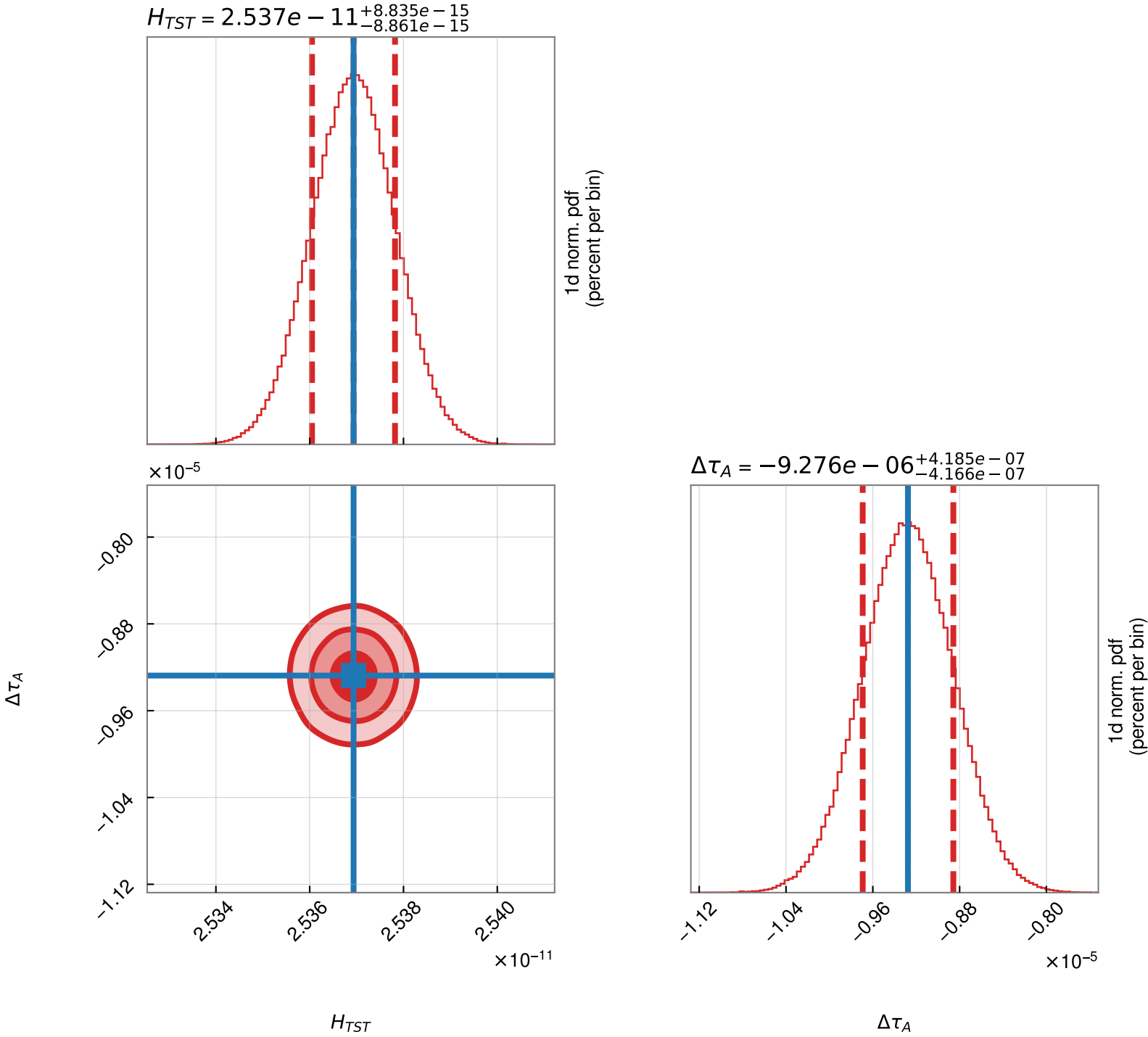
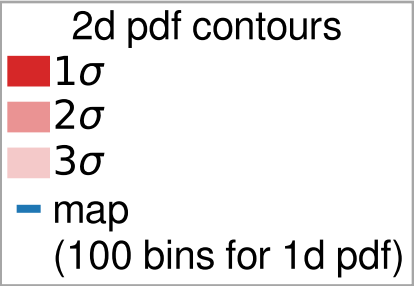


Actuation strength residuals
(measurement/model w. free params)



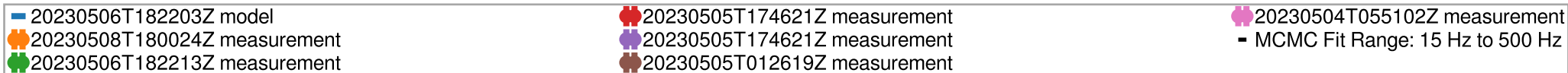
Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V**2)	2.537e-11	8.835e-15 (0.03%)	8.861e-15 (0.03%)
Residual time delay, tau_A (s)	-9.276e-06	4.185e-07 (-4.51%)	4.166e-07 (-4.49%)

20230508T180024Z EX L3 actuation
MCMC corner plot

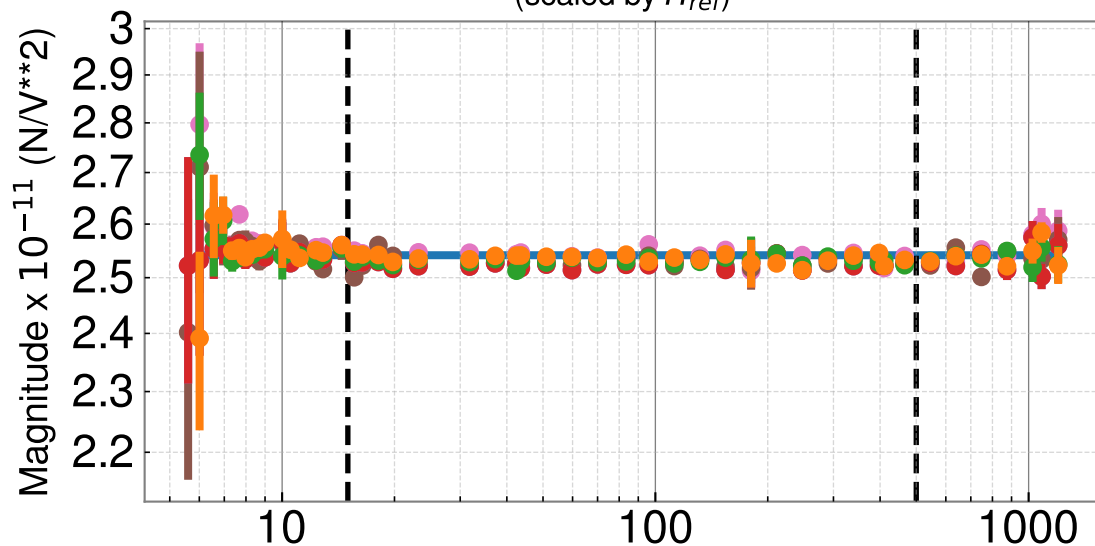


H1 SUSEX L3 actuation model history

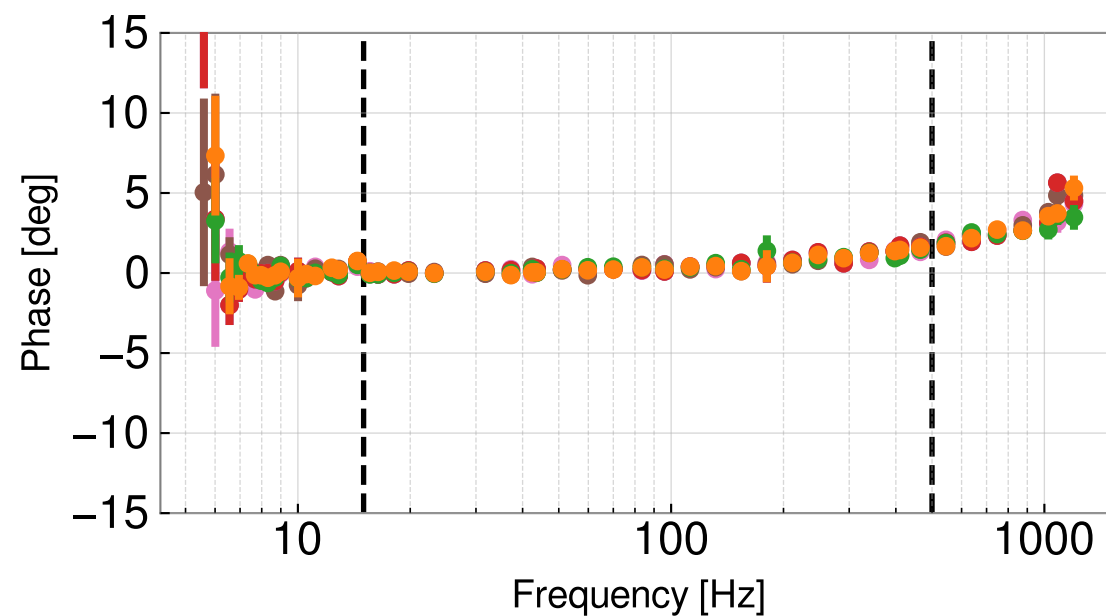
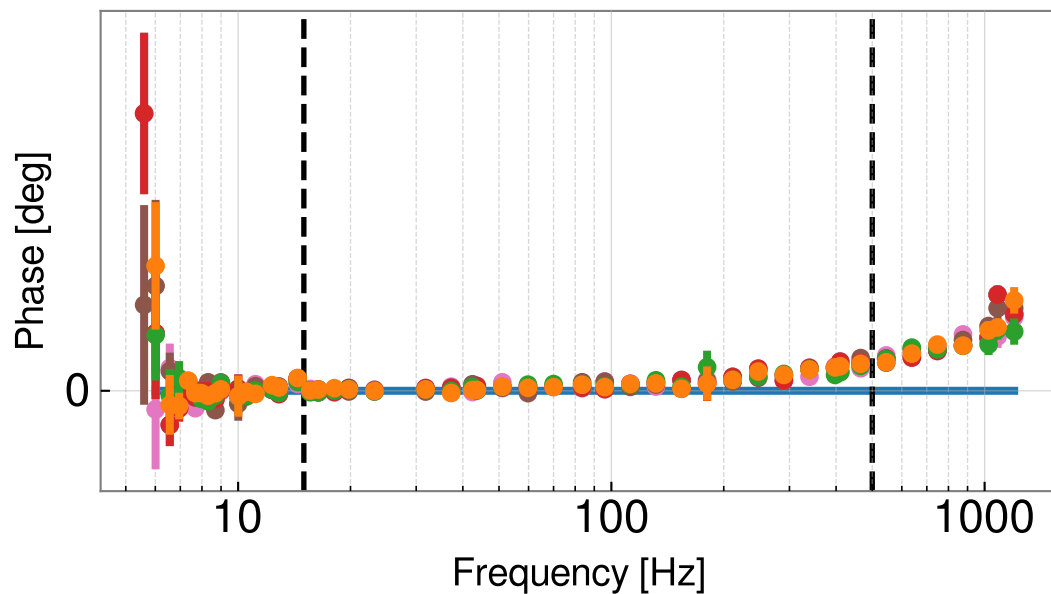
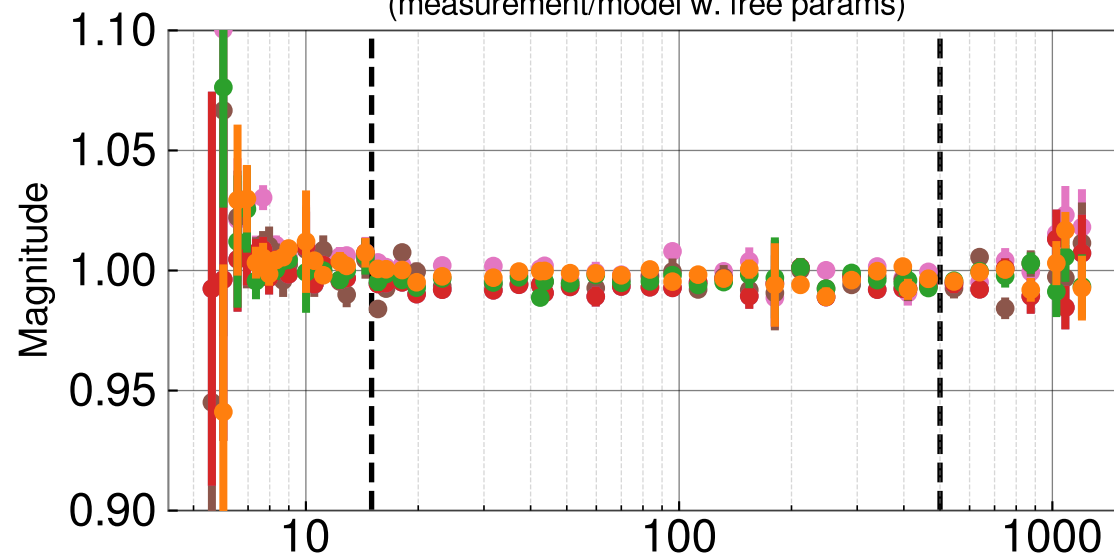
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20230508T180014Z/pydarm_H1.ini`



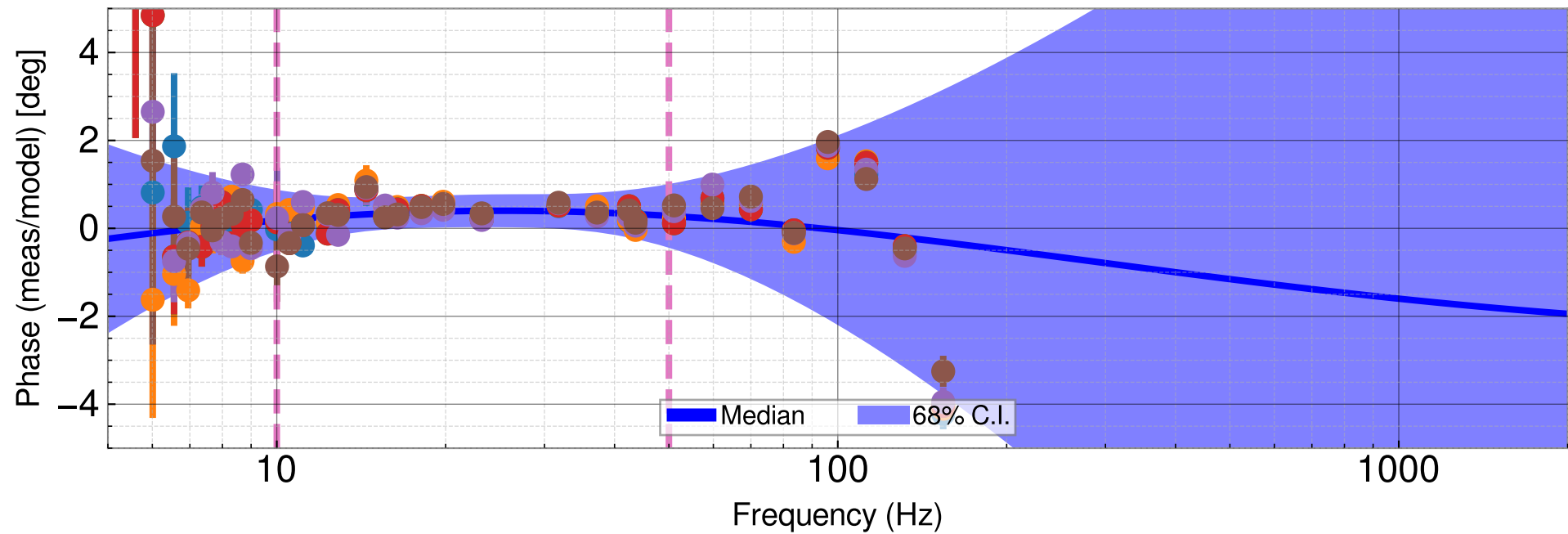
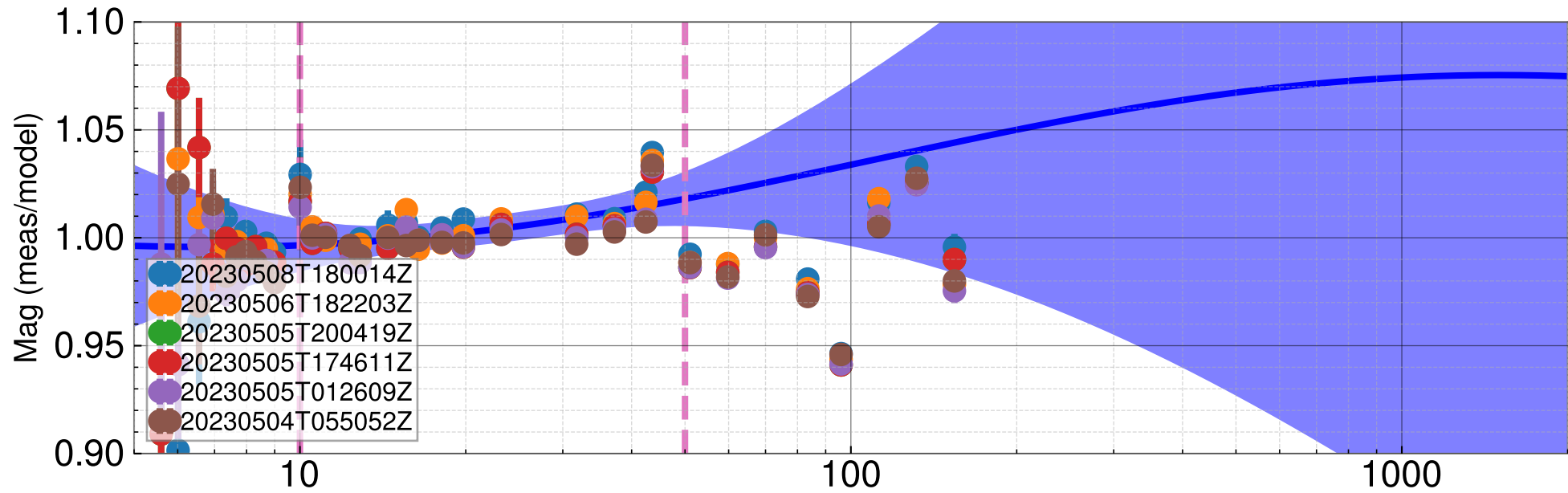
Actuation strength transfer functions
(scaled by H_{ref})



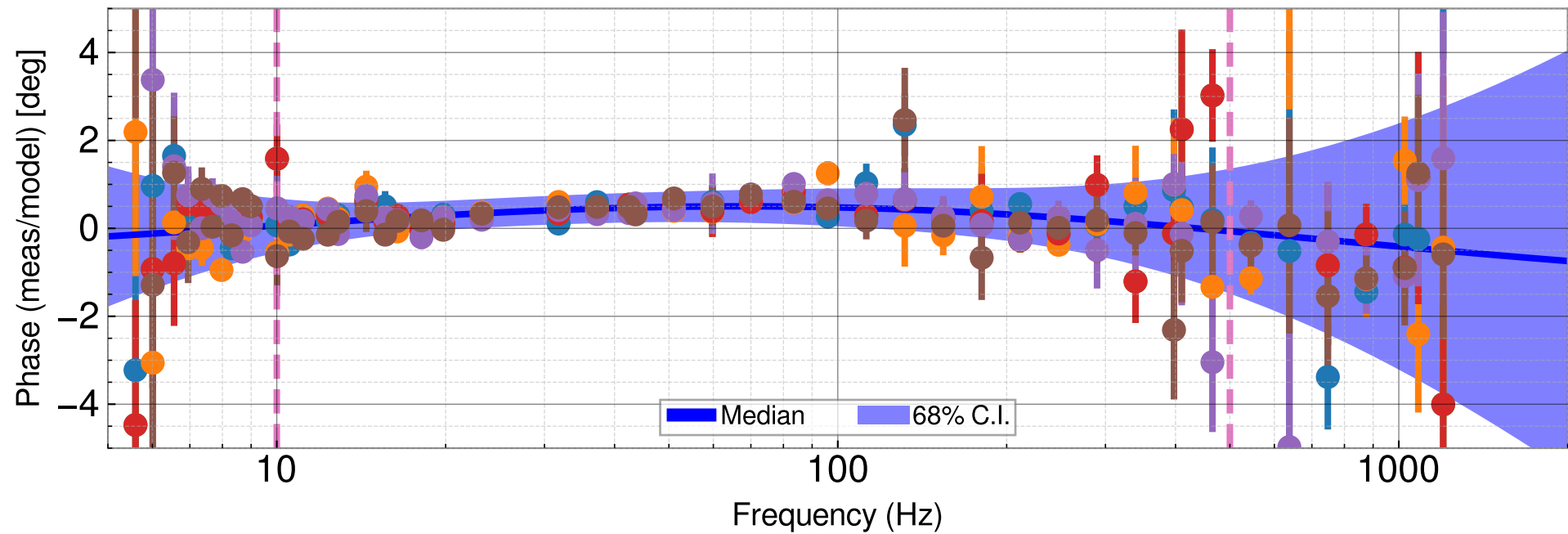
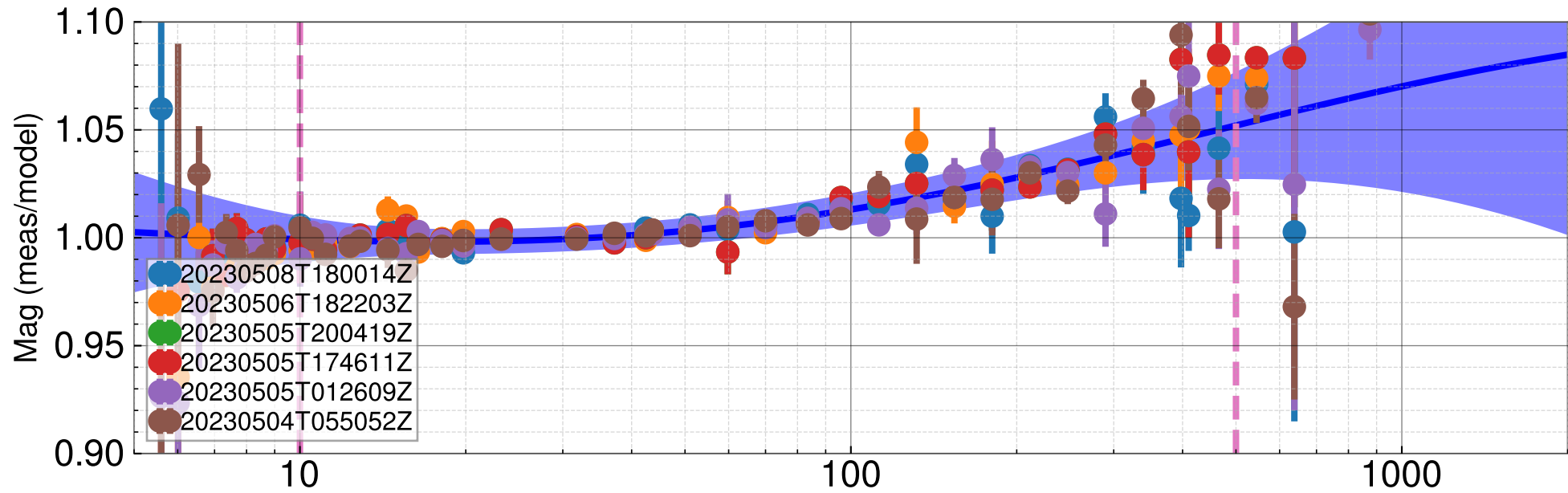
Actuation strength residuals
(measurement/model w. free params)



Actuation/L3/EX GPR



Actuation/L3/EX GPR



Actuation/L3/EX GPR

