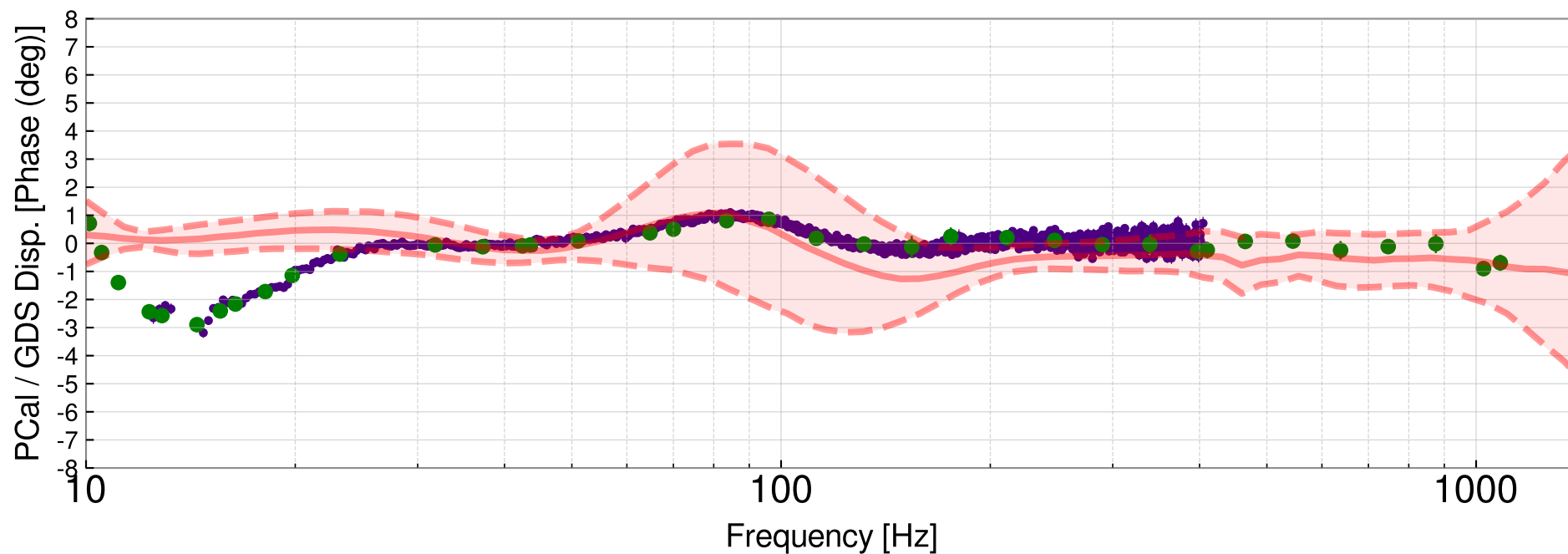
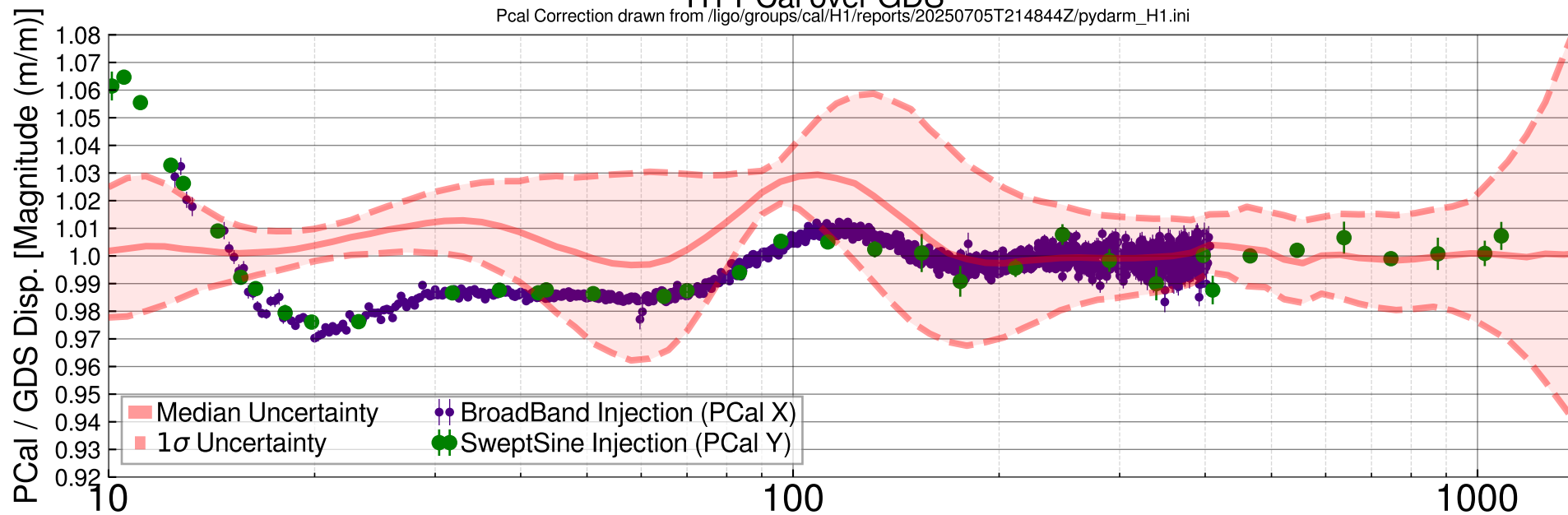


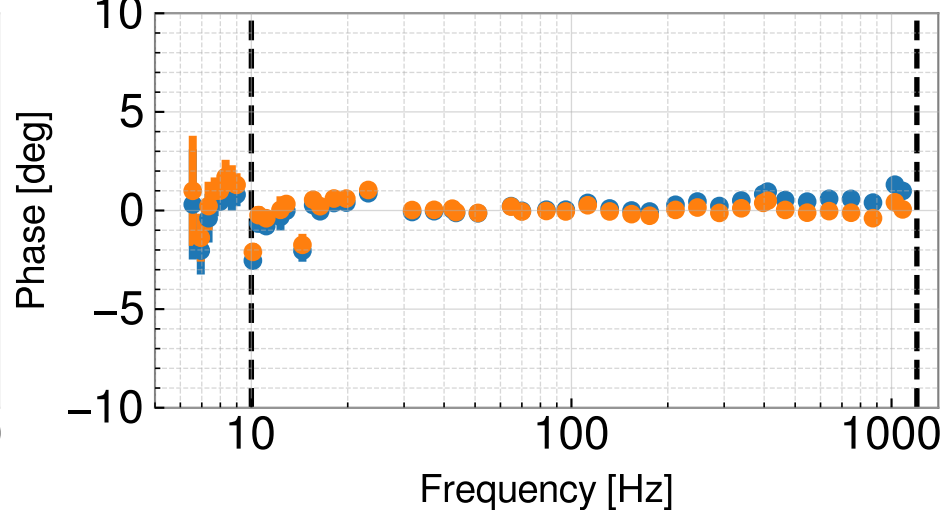
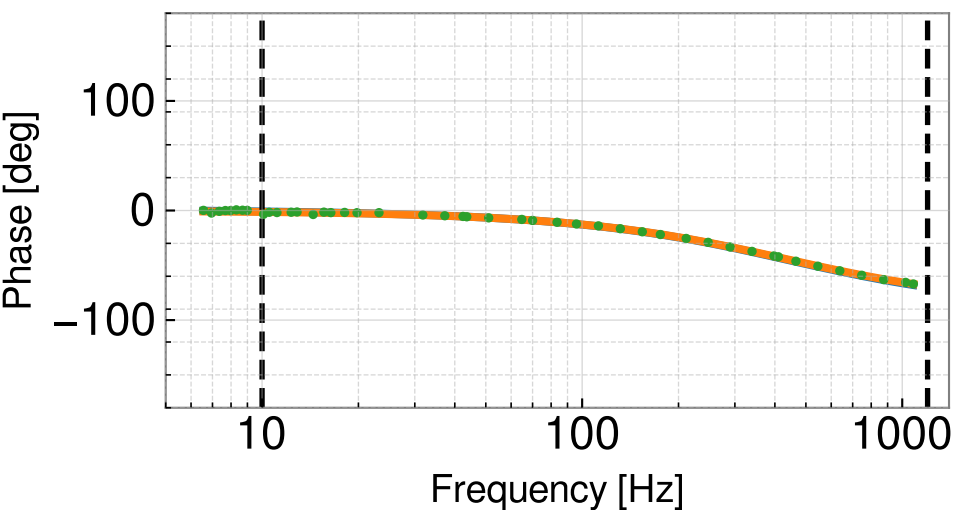
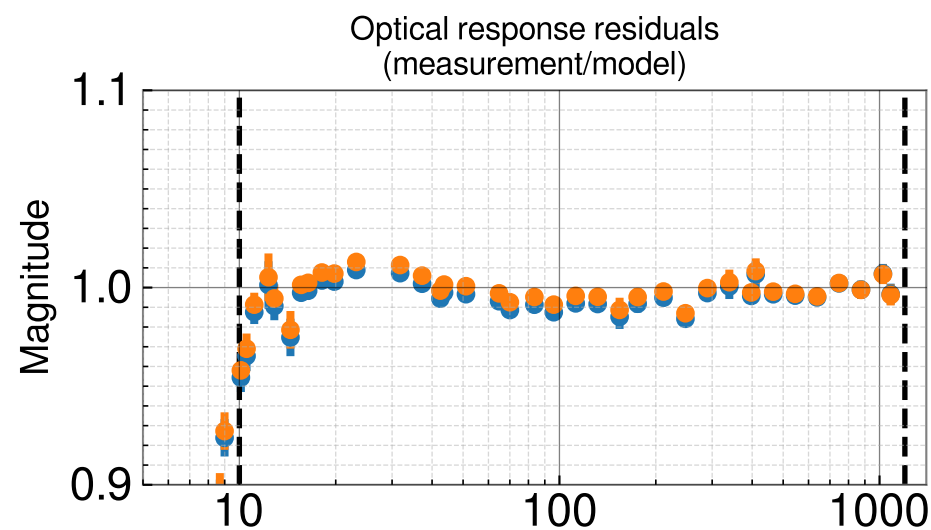
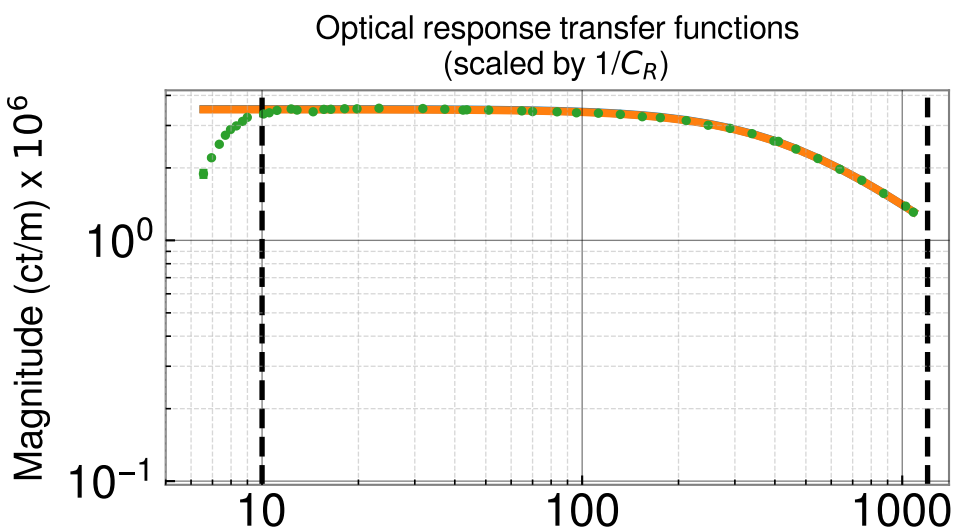
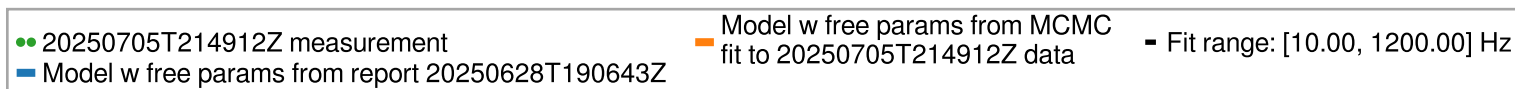
H1 PCal over GDS

Pcal Correction drawn from /ligo/groups/cal/H1/reports/20250705T214844Z/pydarm_H1.ini



H1 sensing model MCMC summary

All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20250705T214844Z/pydarm_H1.ini`

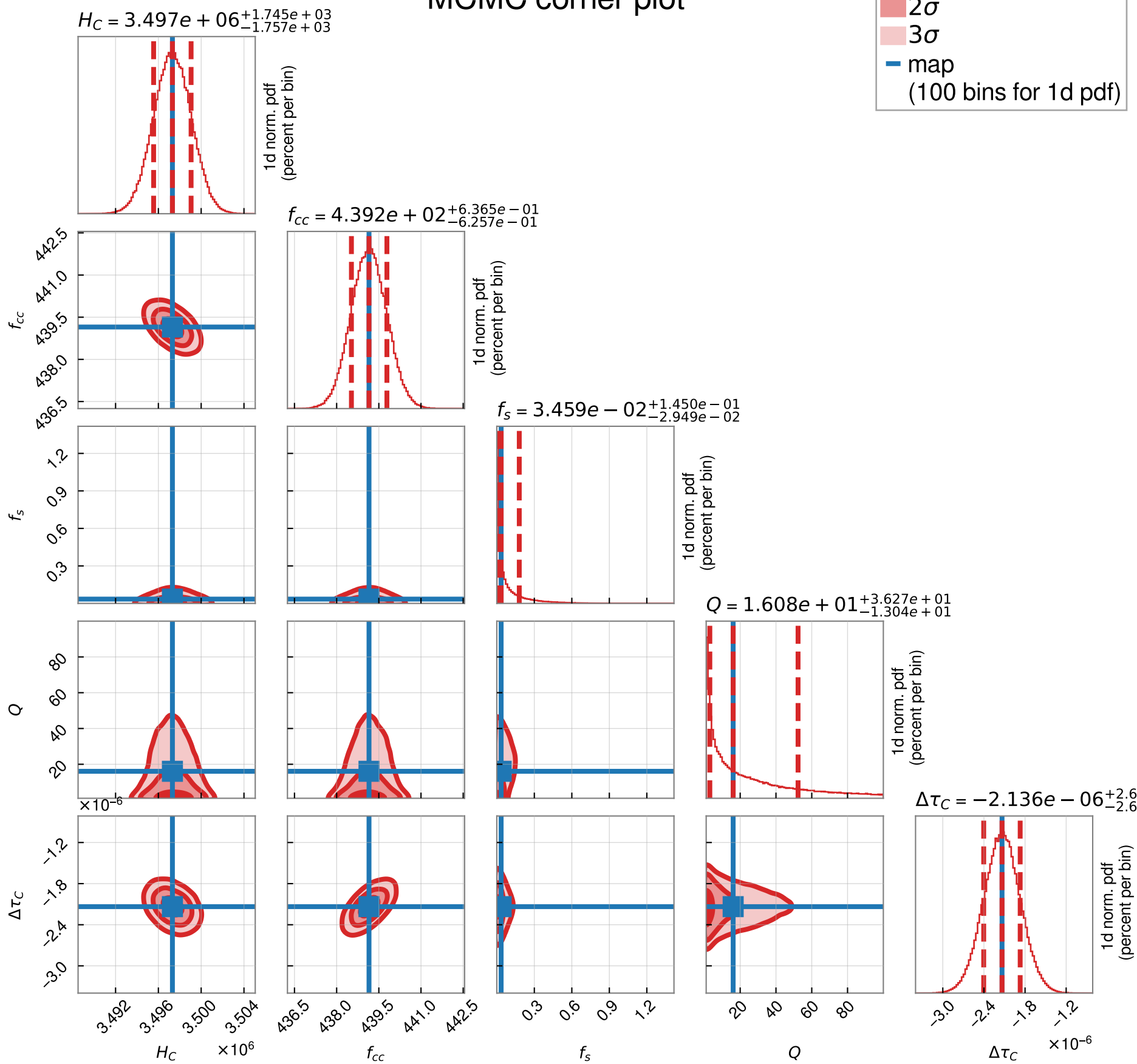


Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.497e+06	1745 (0.05%)	1757 (0.05%)
Cavity_pole, f_cc (Hz)	439.2	0.6365 (0.14%)	0.6257 (0.14%)
Detuned SRC spring frequency, f_s (Hz)	0.03459	0.145 (419.21%)	0.02949 (85.24%)
Detuned SRC spring quality factor, Q_s	16.08	36.27 (225.62%)	13.04 (81.09%)
Residual time delay, tau_c (s)	-2.136e-06	2.648e-07 (-12.40%)	2.676e-07 (-12.53%)

2d pdf contours

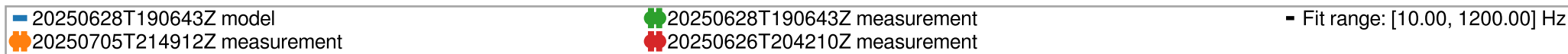
- 1σ
- 2σ
- 3σ
- map

(100 bins for 1d pdf)

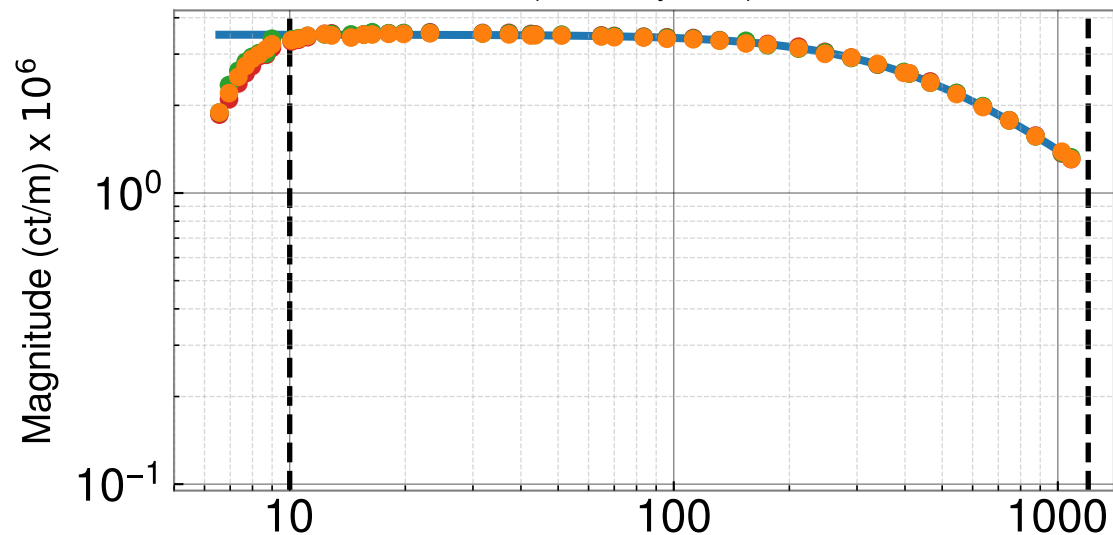


H1 sensing model history (last 9 measurements)

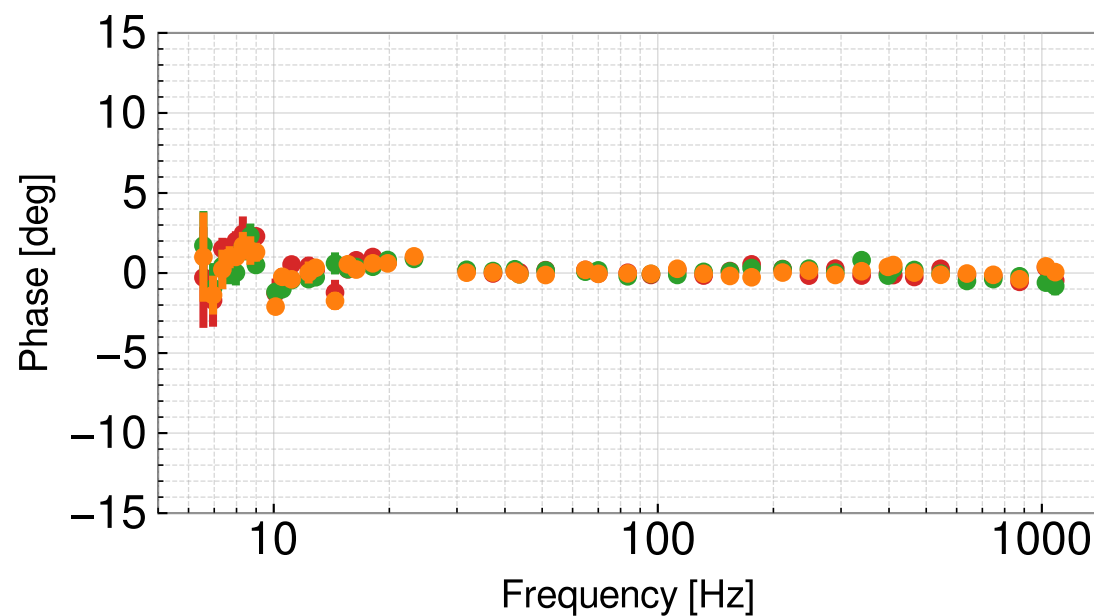
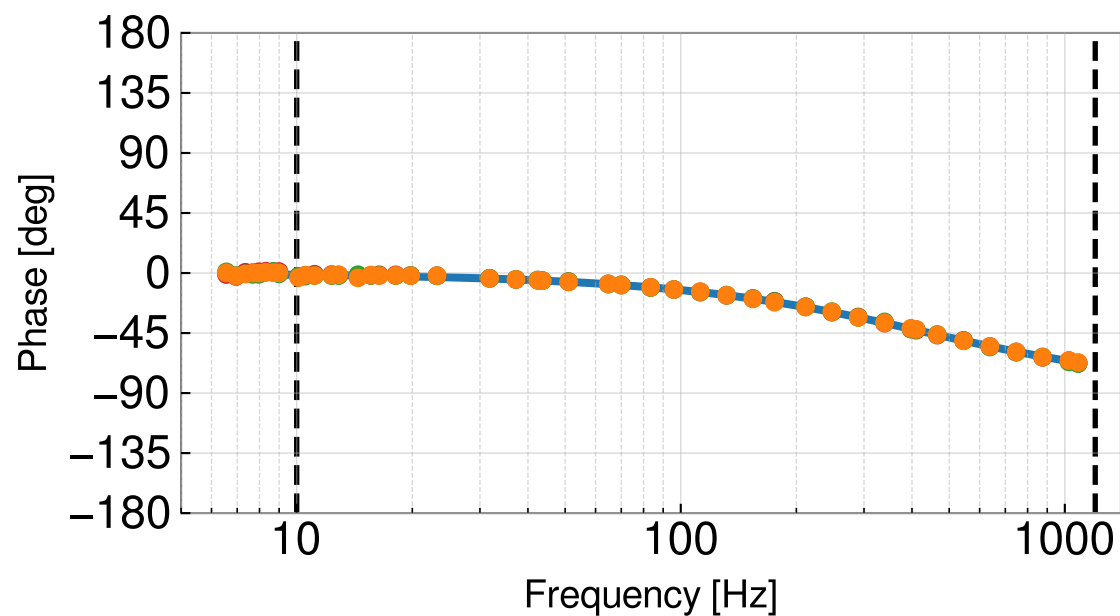
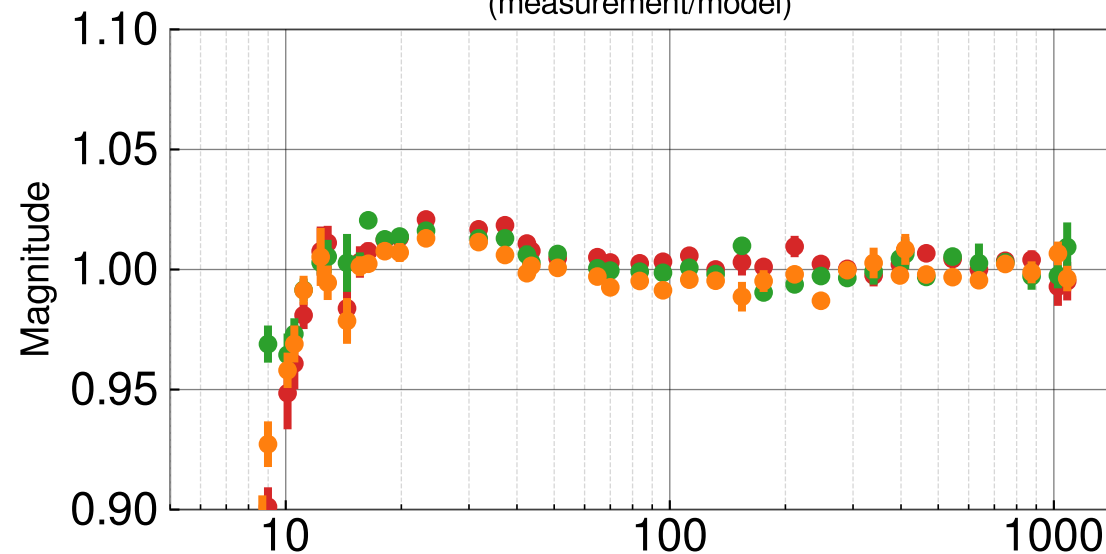
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250705T214844Z/pydarm_H1.ini



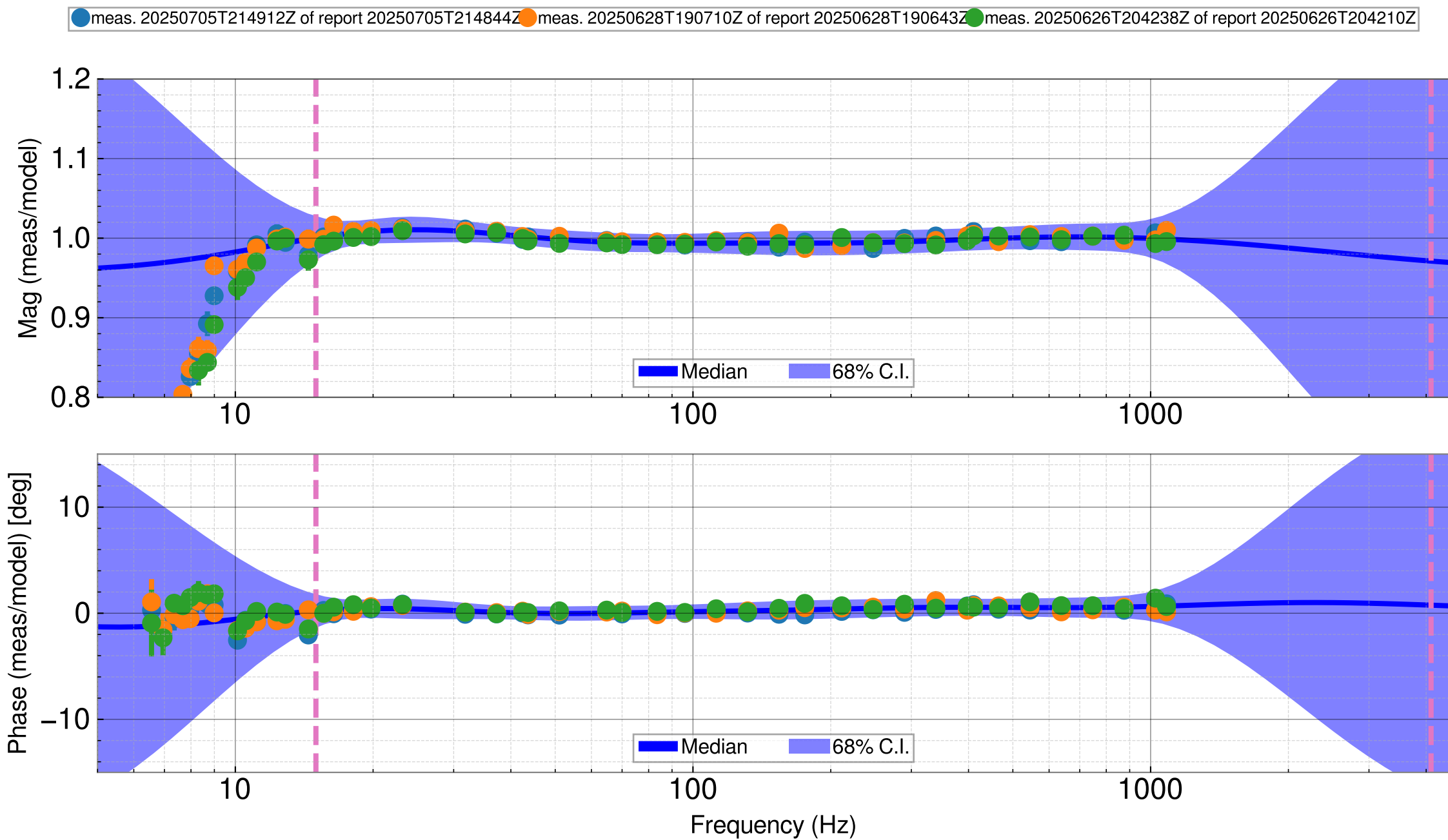
Optical response transfer functions
(scaled by $1/C_R$)



Optical response residuals
(measurement/model)



Sensing GPR

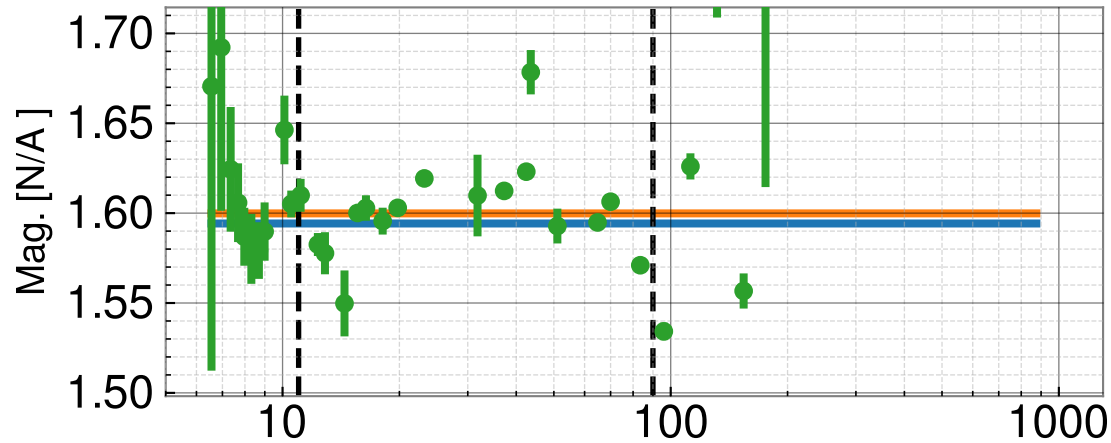


H1SUSEX L1 actuation model MCMC summary

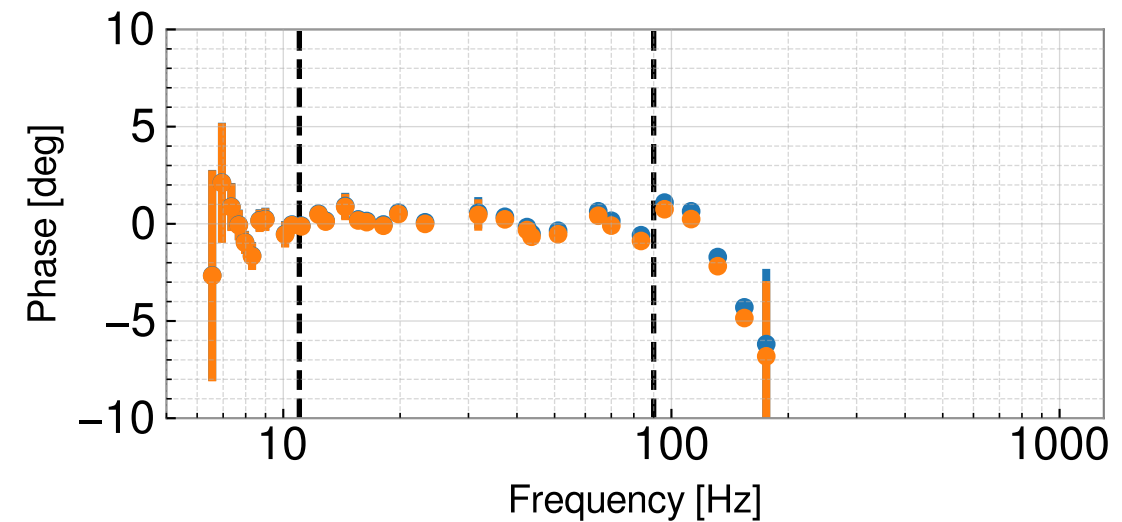
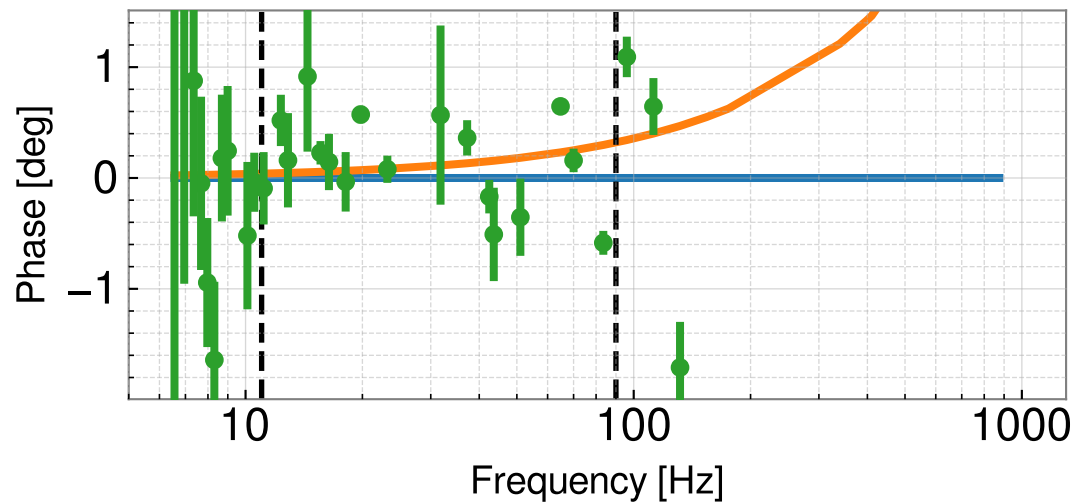
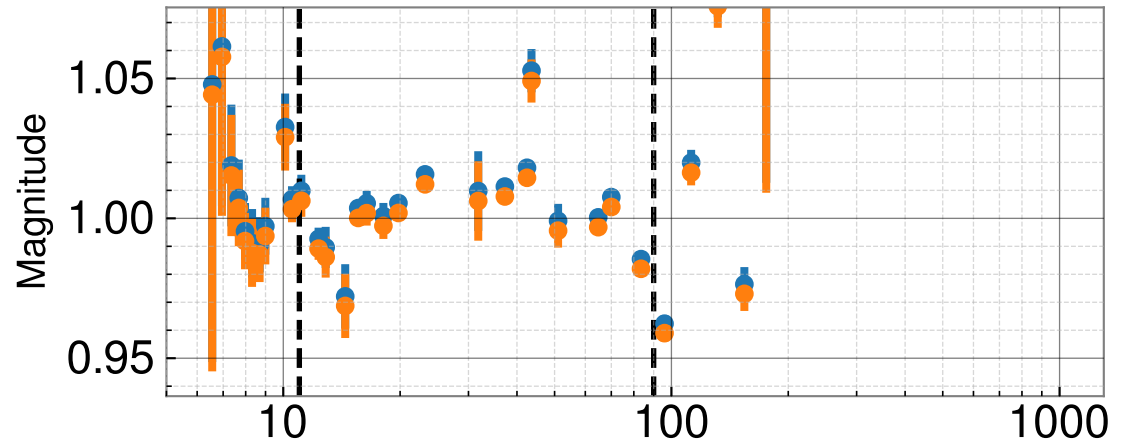
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250705T214844Z/pydarm_H1.ini



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

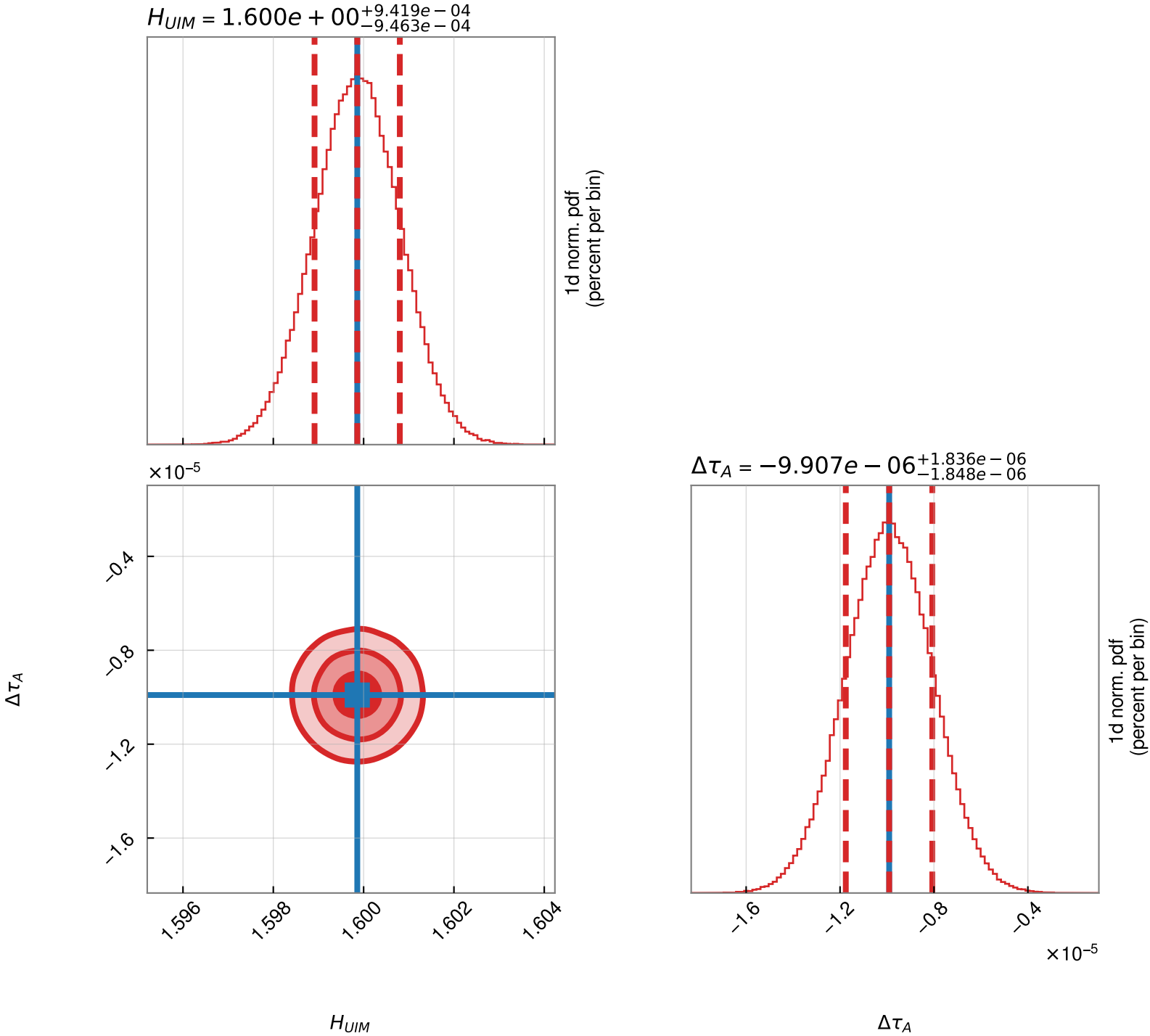
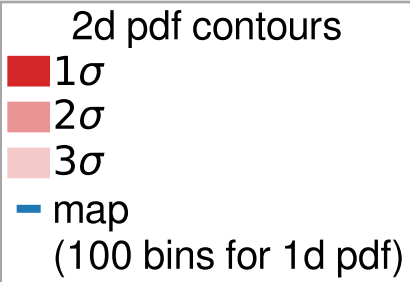


Actuation strength residuals
(meas./model w. free params)



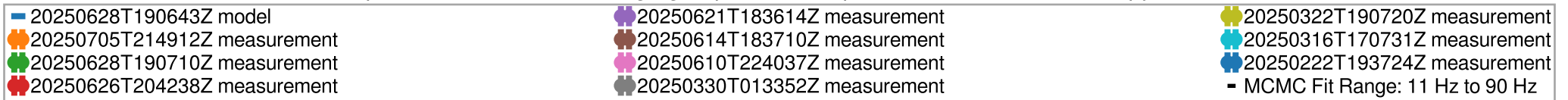
Parameter	(value +/-)	value	+	-
Actuation Gain, Hau (N/A)	1.6	0.0009419 (0.06%)	0.0009463 (0.06%)	
Residual time delay, tau A (s)	-9.907e-06	1.836e-06 (-18.53%)	1.848e-06 (-18.66%)	

20250705T214912Z EX L1 actuation
MCMC corner plot

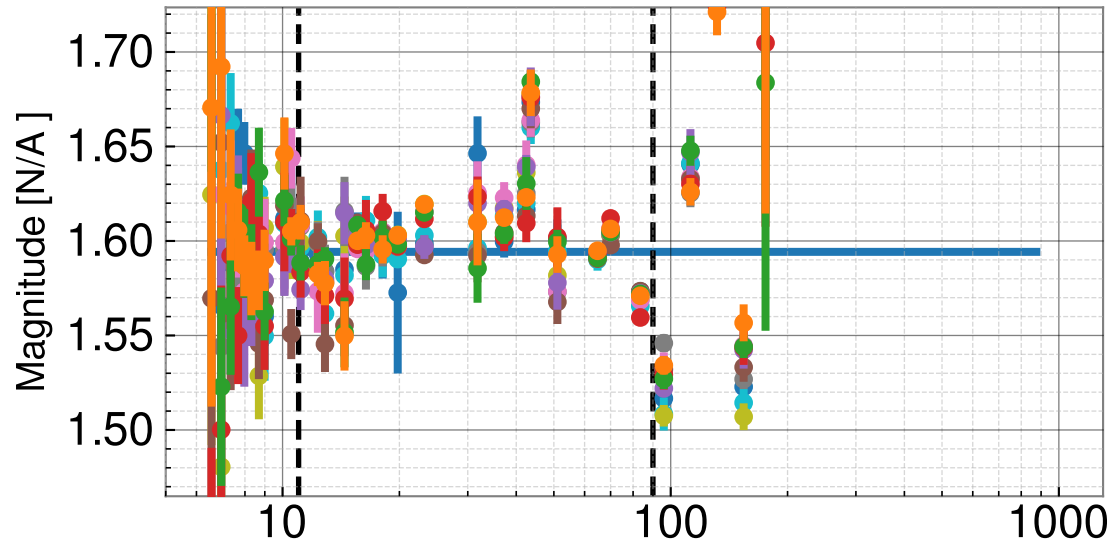


H1SUSEX L1 actuation model history (last 9 measurements)

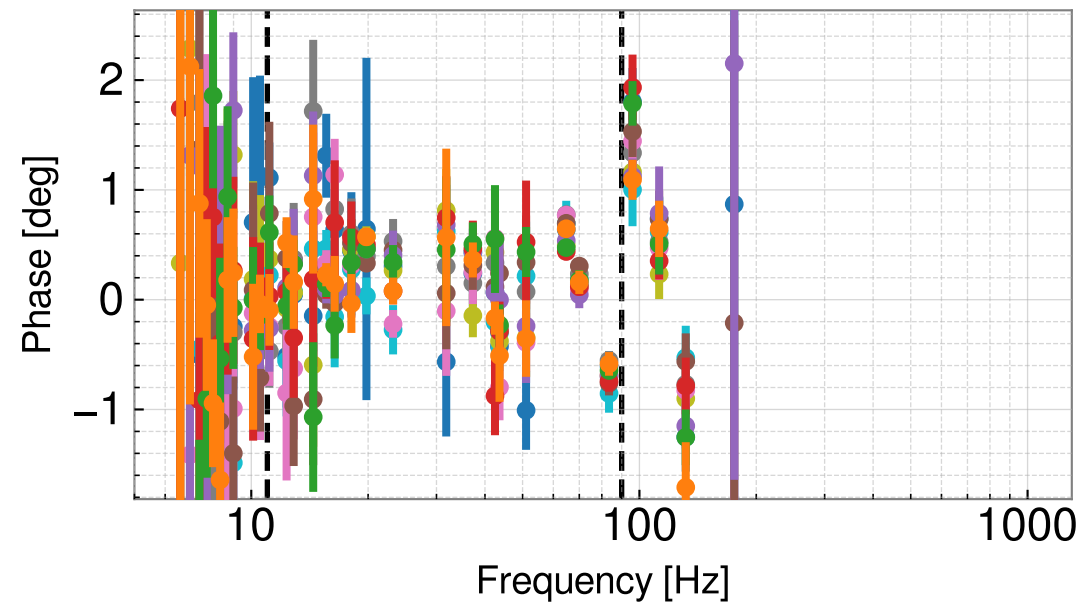
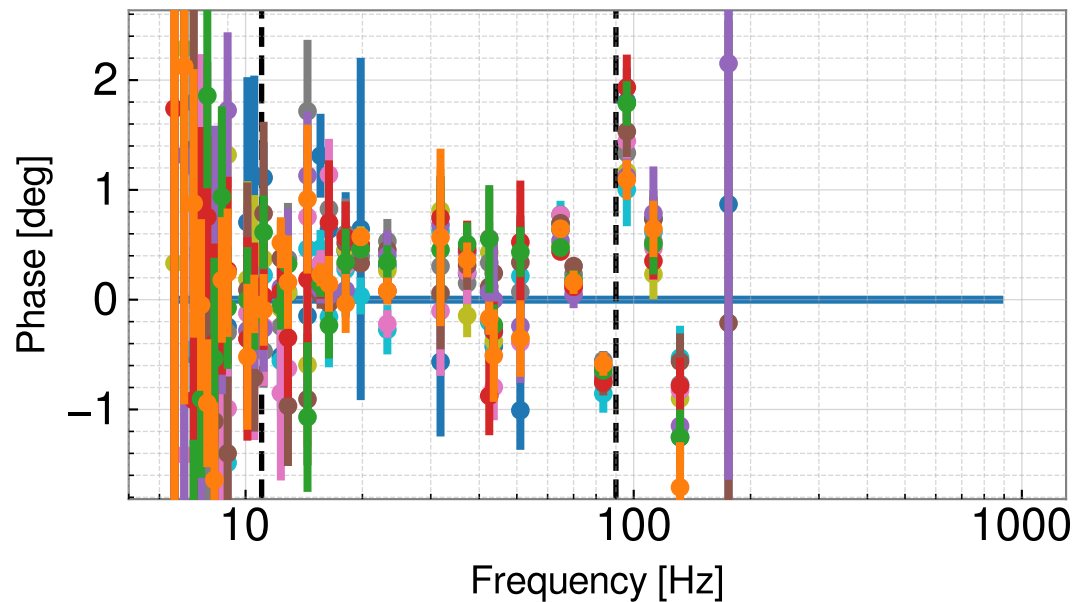
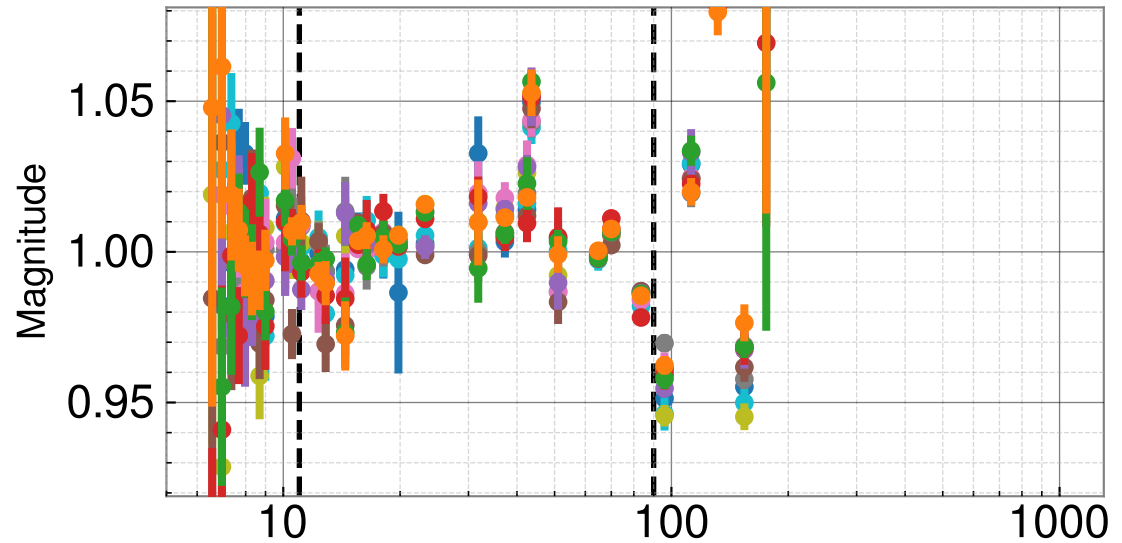
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250705T214844Z/pydarm_H1.ini



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

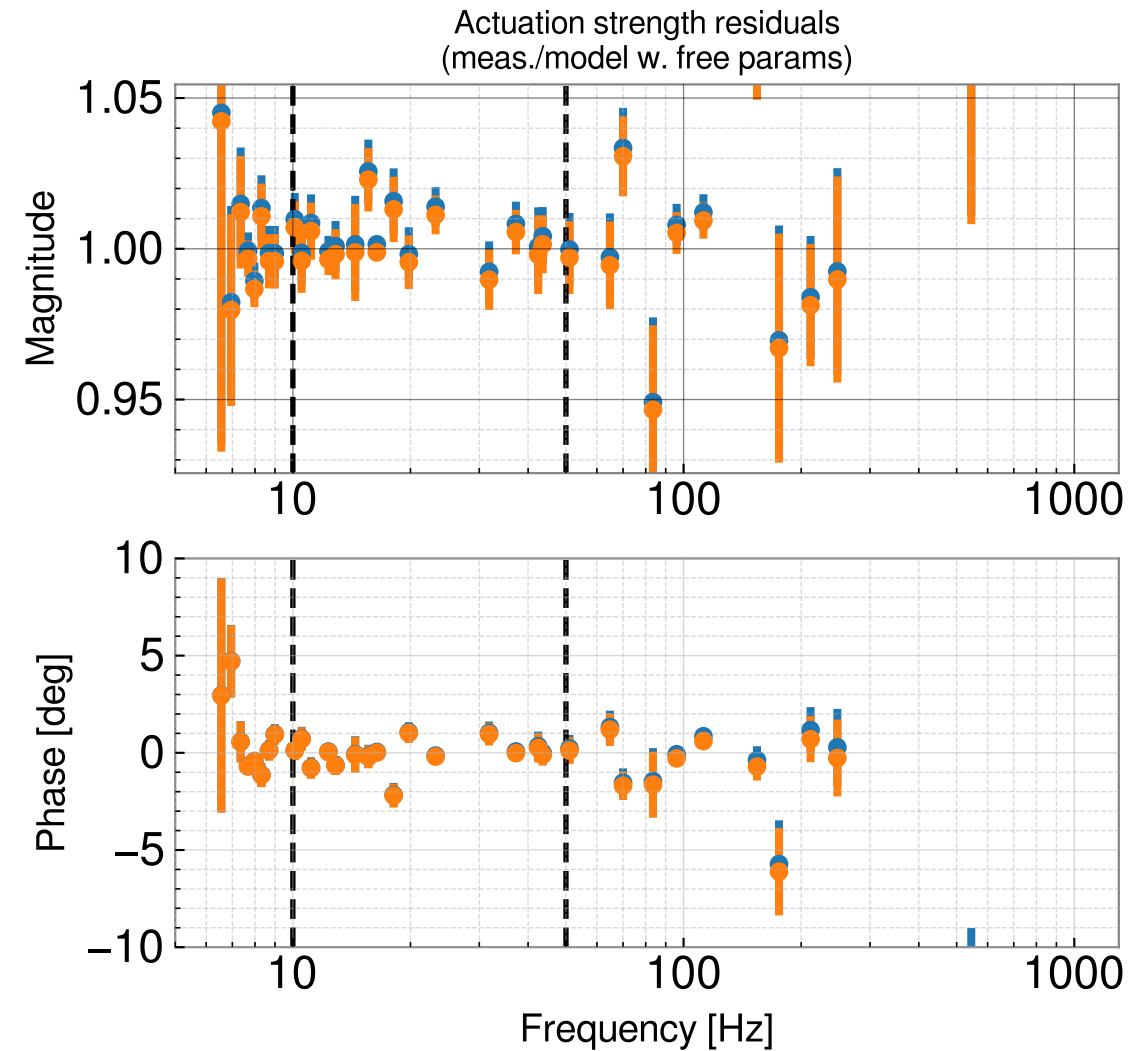
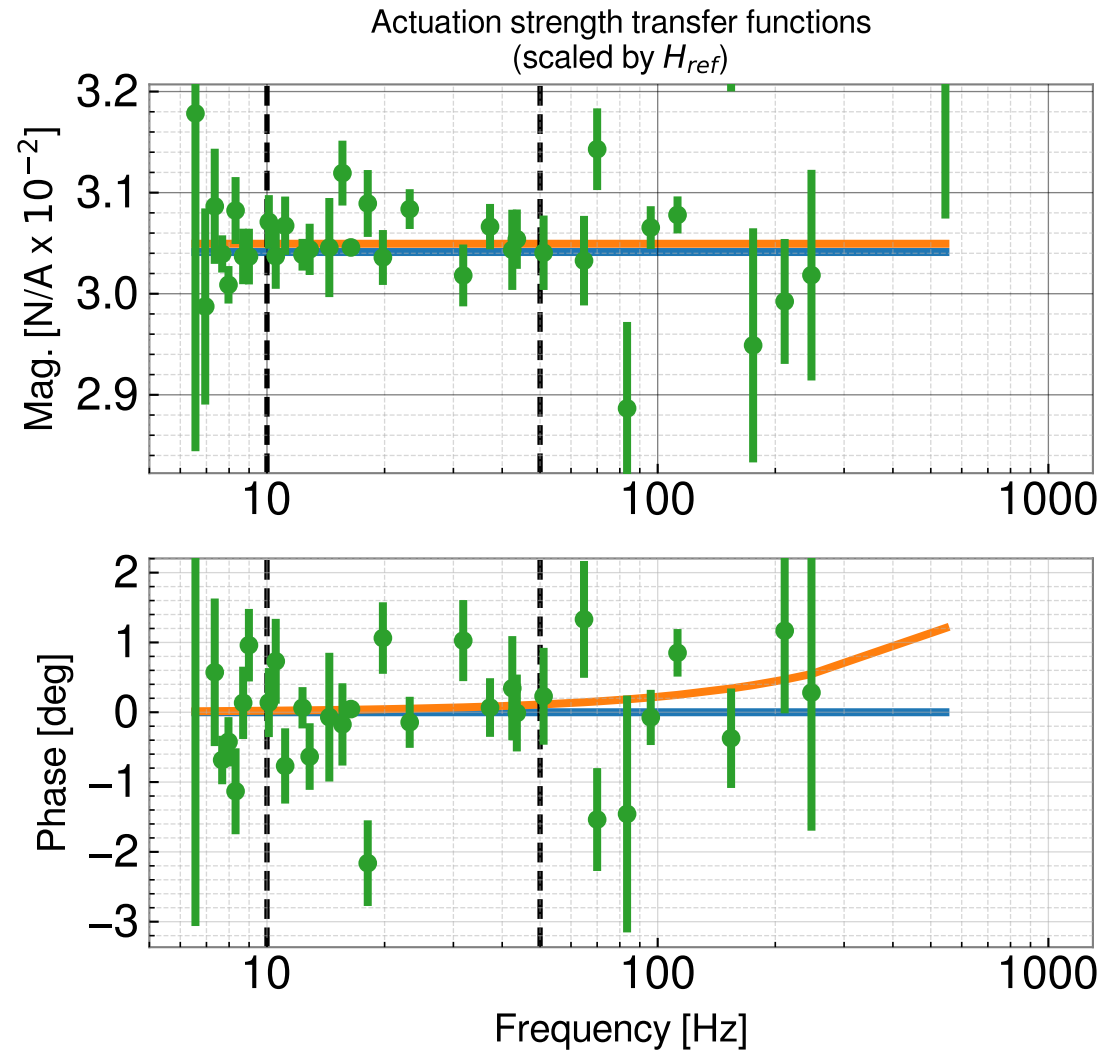


Actuation strength residuals
(meas./model w. free params)



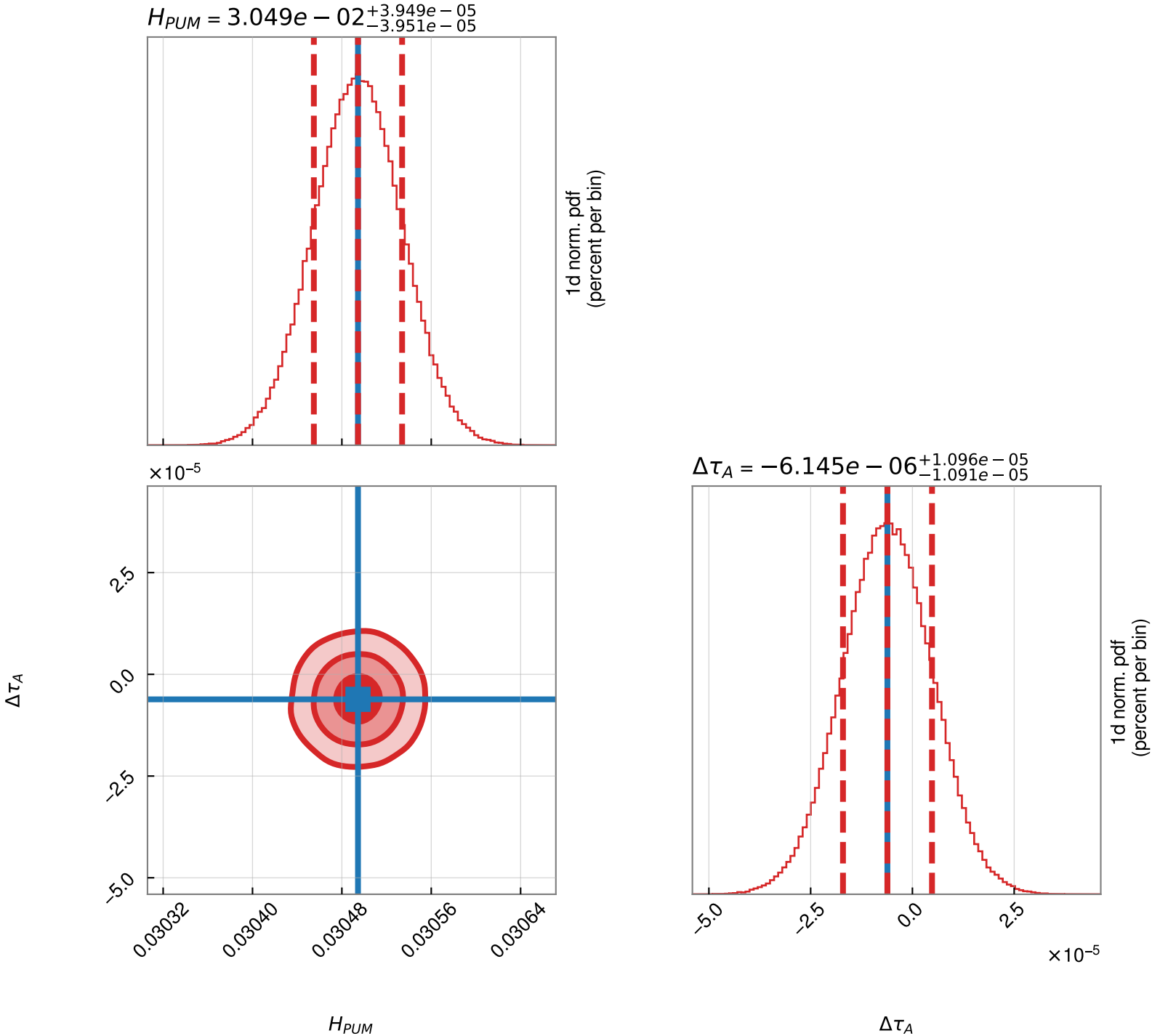
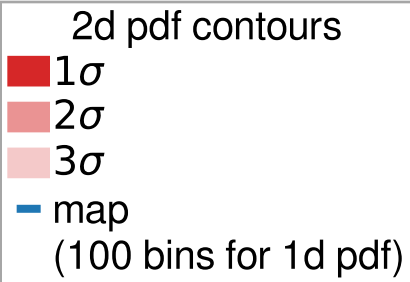
H1SUSEX L2 actuation model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250705T214844Z/pydarm_H1.ini



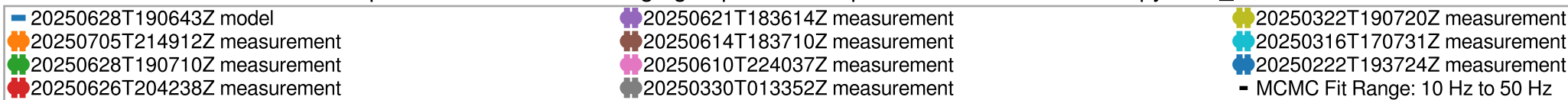
Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.03049	3.949e-05 (0.13%)	3.951e-05 (0.13%)
Residual time delay, tau_A (s)	-6.145e-06	1.096e-05 (-178.31%)	1.091e-05 (-177.54%)

20250705T214912Z EX L2 actuation
MCMC corner plot

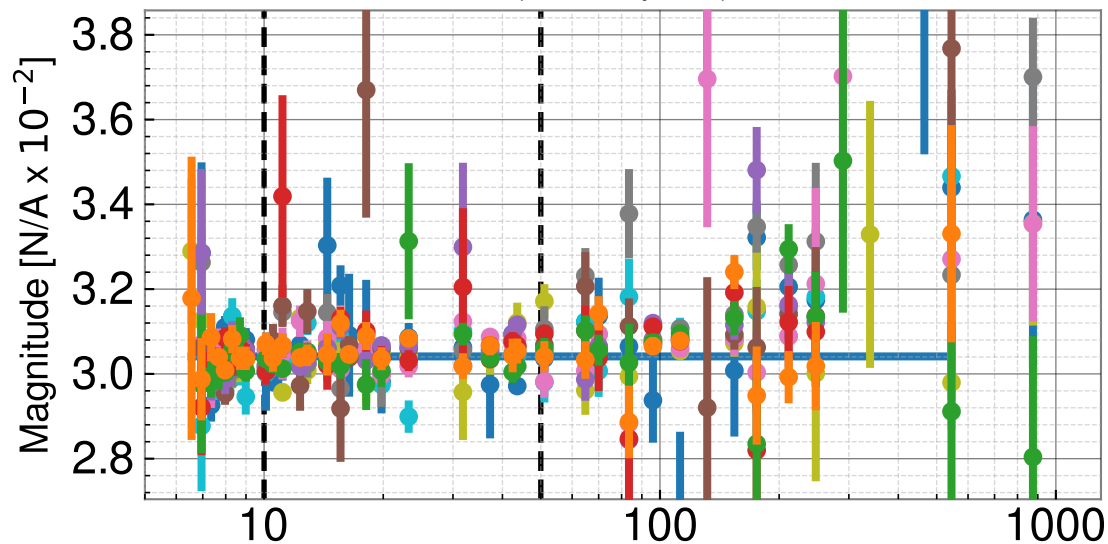


H1SUSEX L2 actuation model history (last 9 measurements)

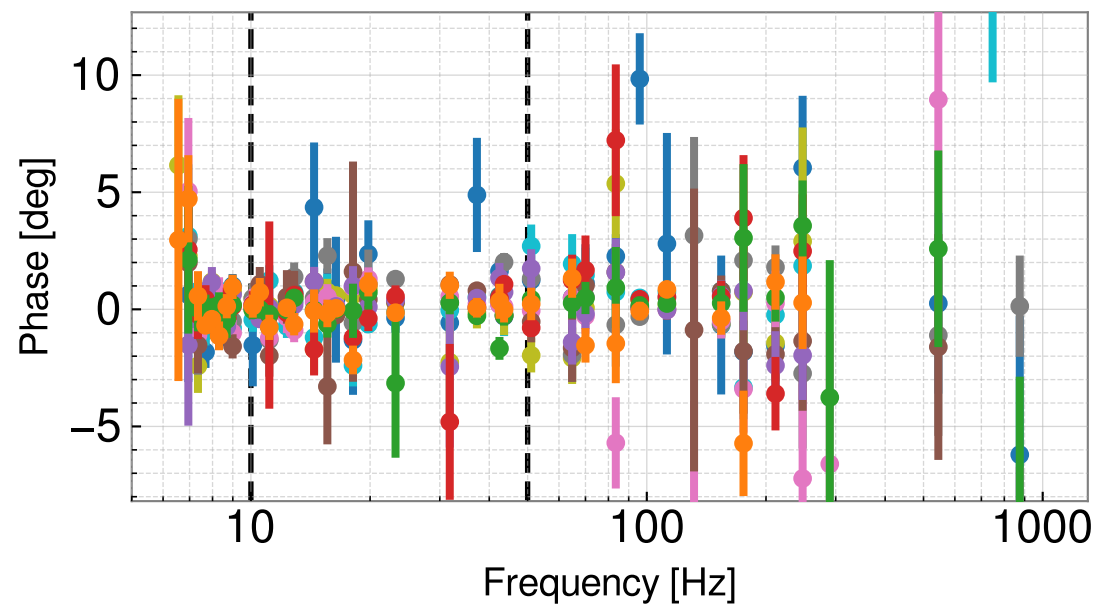
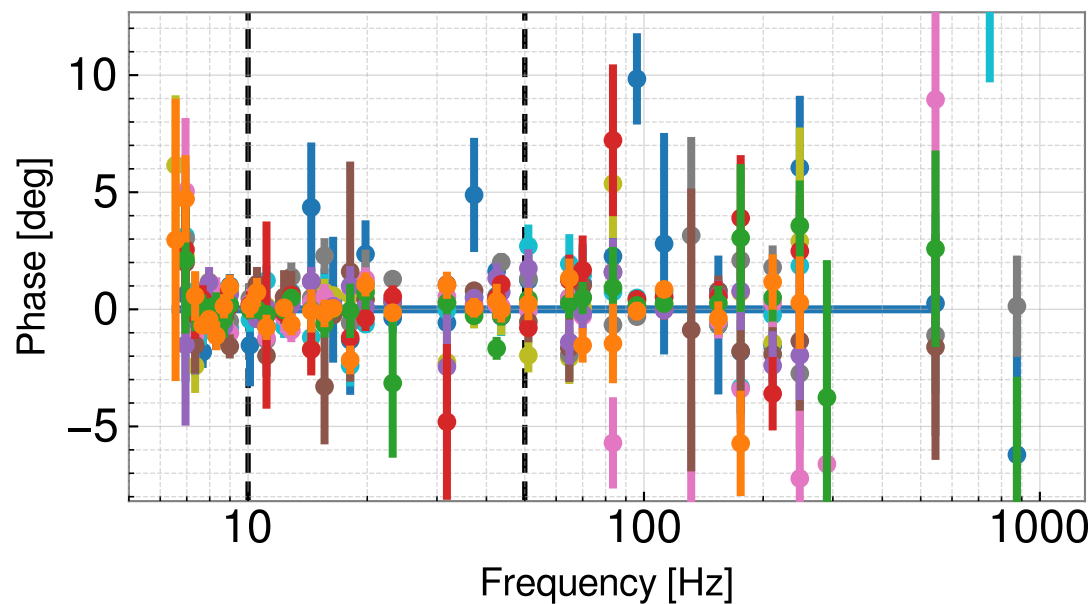
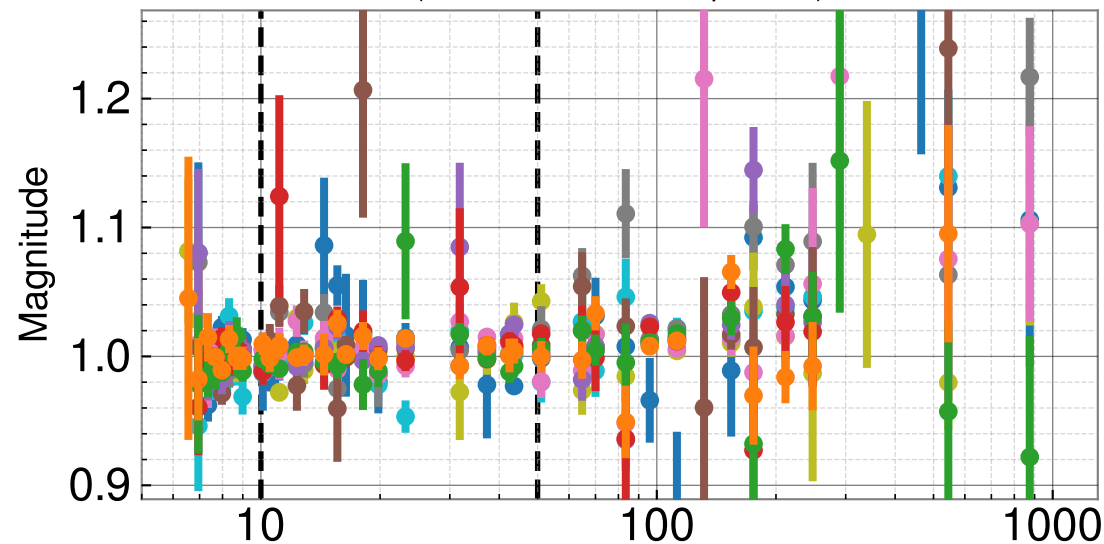
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250705T214844Z/pydarm_H1.ini



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

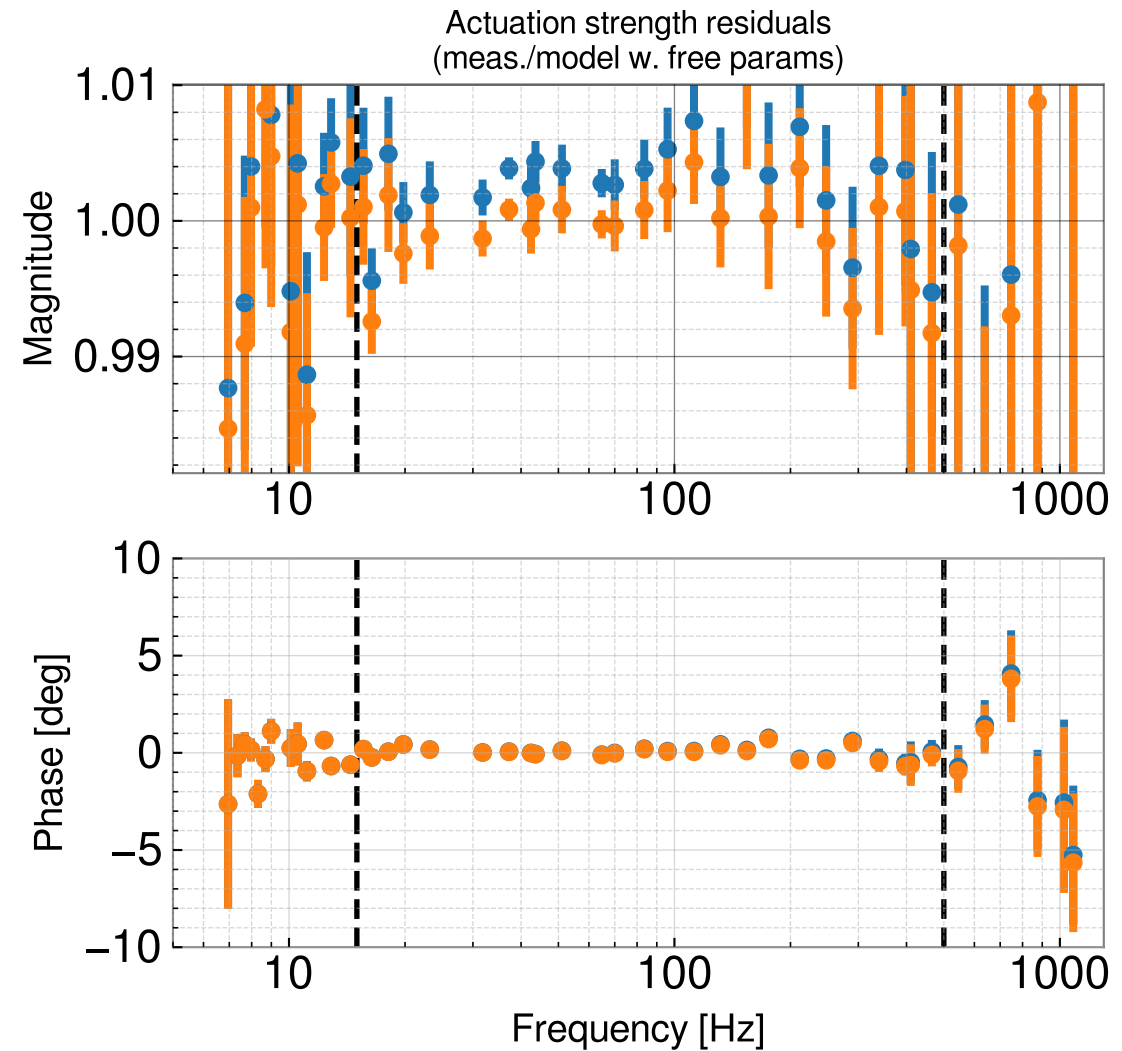
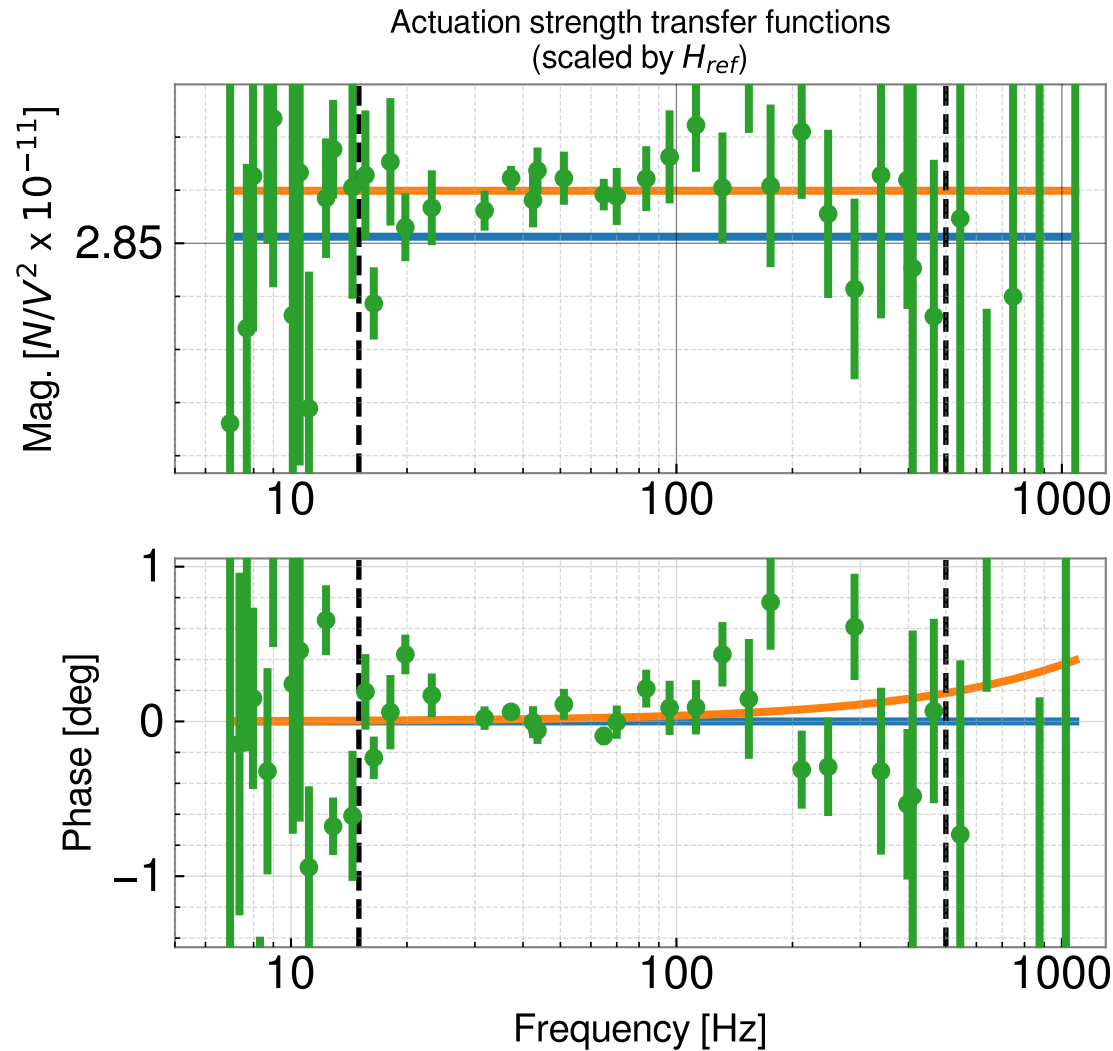


Actuation strength residuals
(meas./model w. free params)



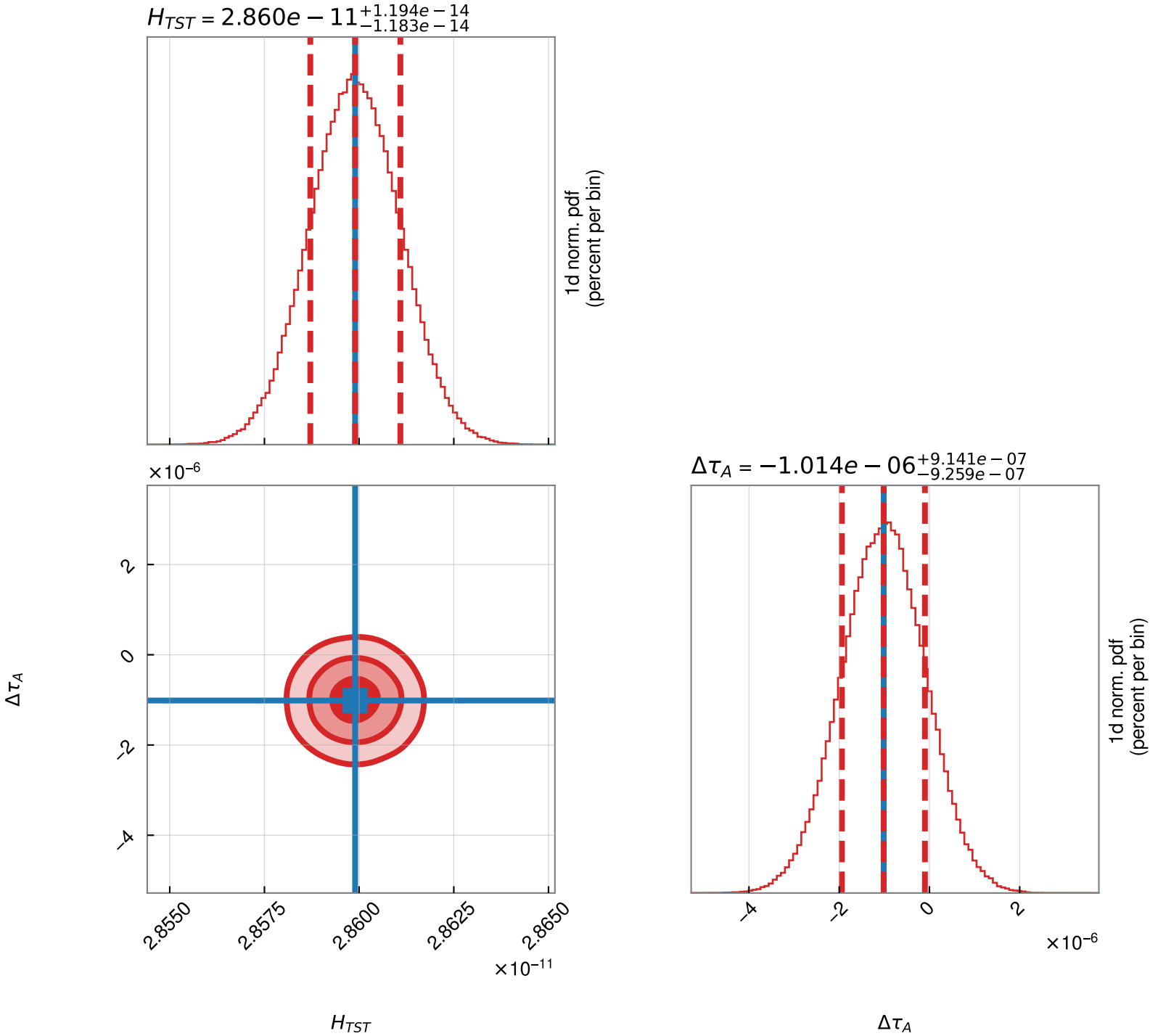
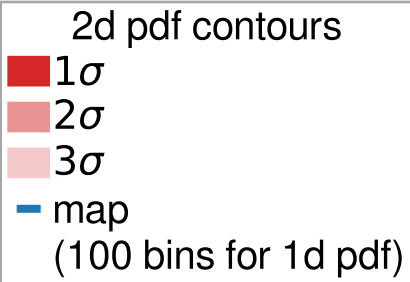
H1SUSEX L3 actuation model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250705T214844Z/pydarm_H1.ini



Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V^{**2})	2.86e-11	1.194e-14 (0.04%)	1.183e-14 (0.04%)
Residual time delay, tau_A (s)	-1.014e-06	9.141e-07 (-90.12%)	9.259e-07 (-91.29%)

20250705T214912Z EX L3 actuation
MCMC corner plot

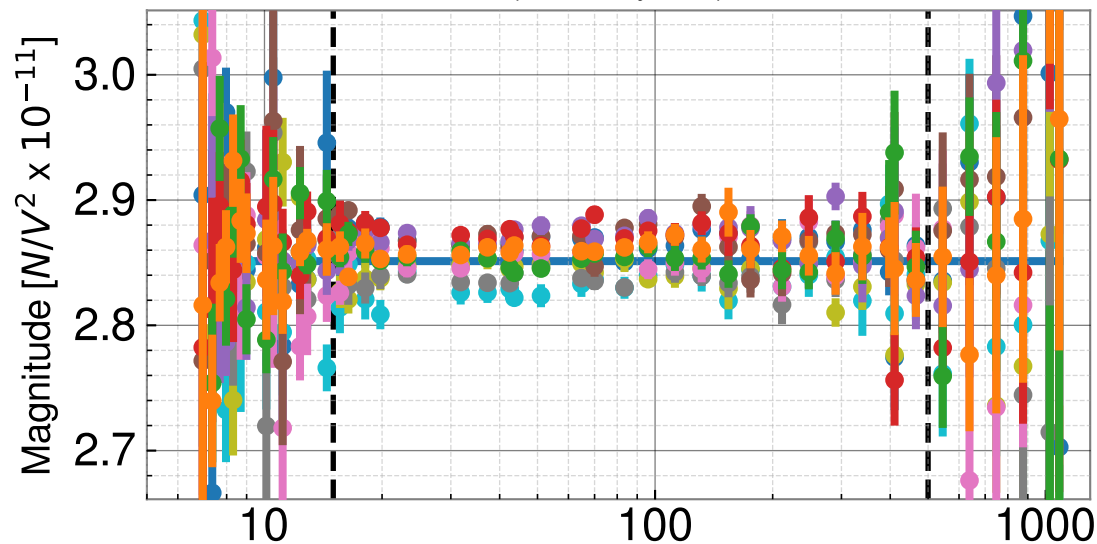


H1SUSEX L3 actuation model history (last 9 measurements)

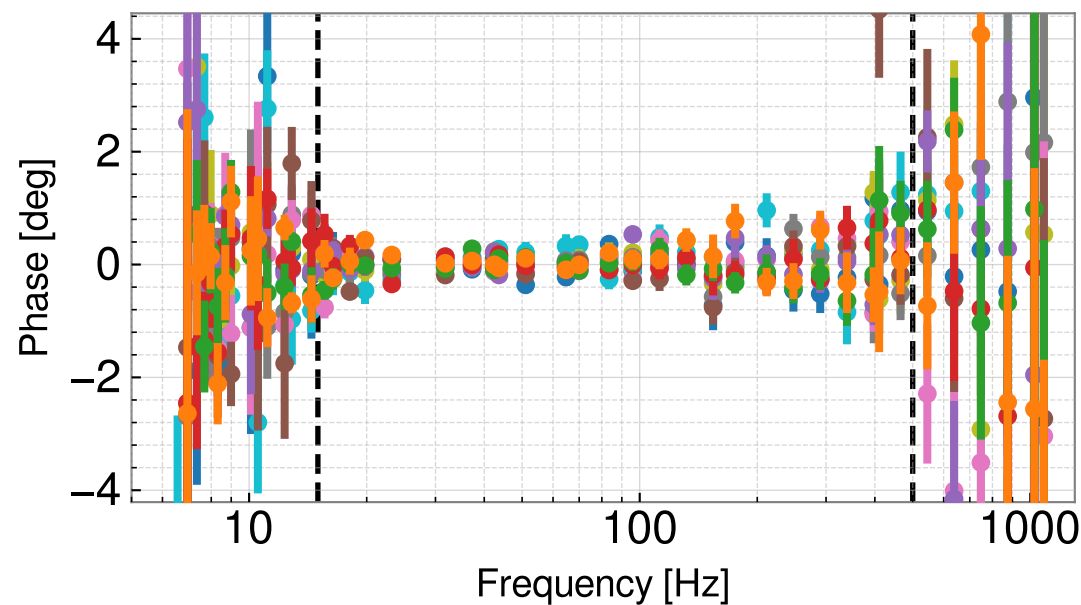
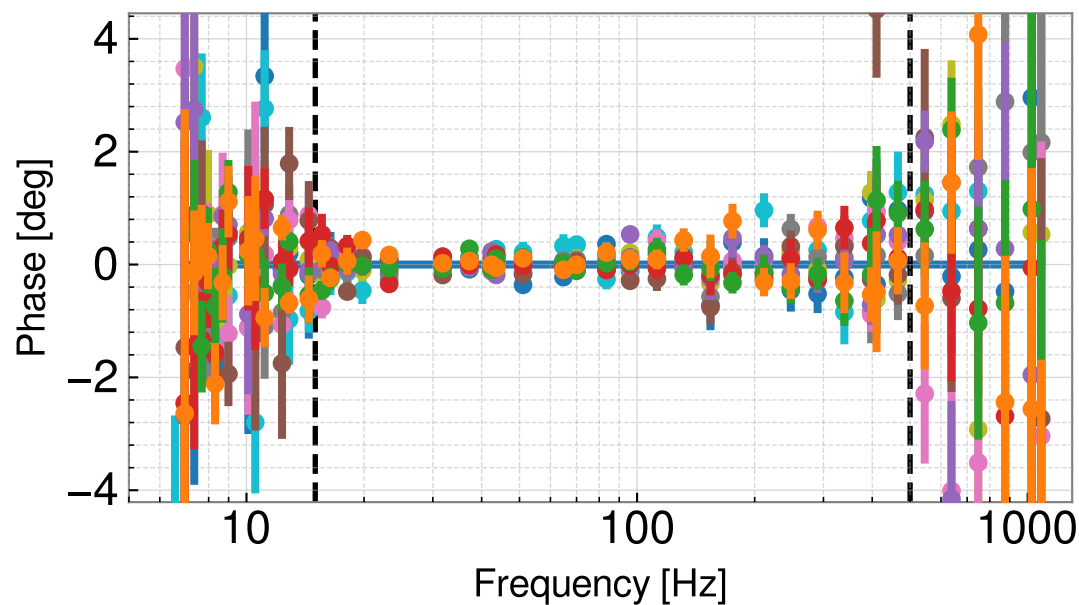
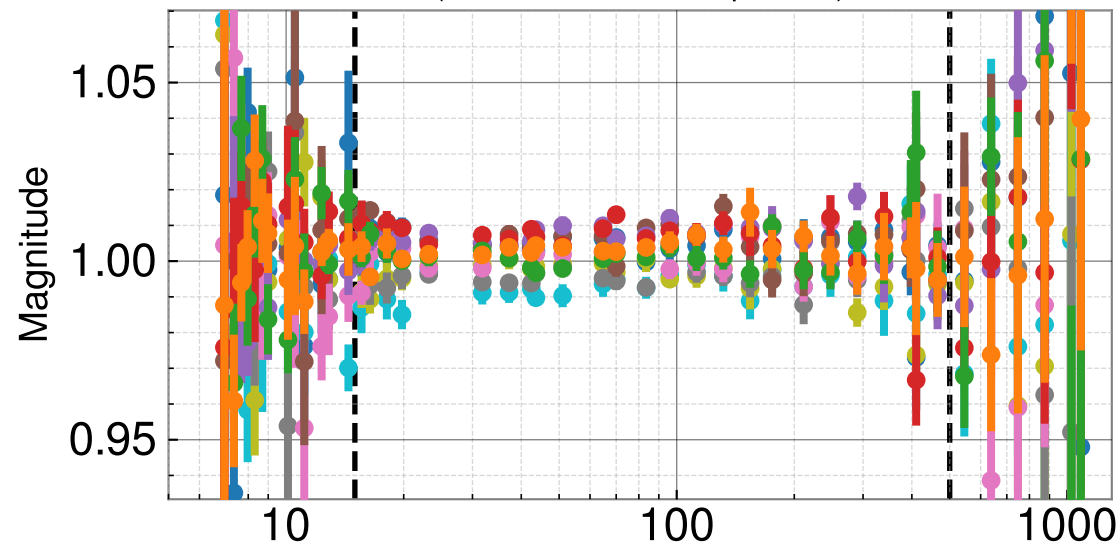
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250705T214844Z/pydarm_H1.ini



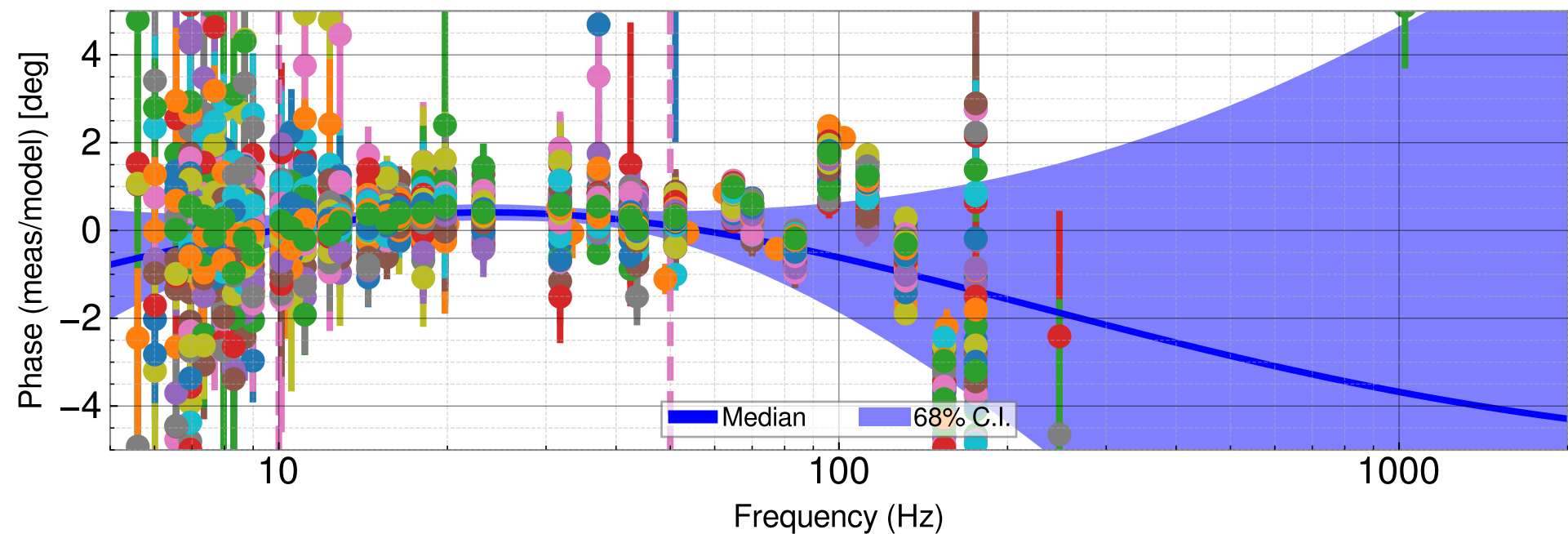
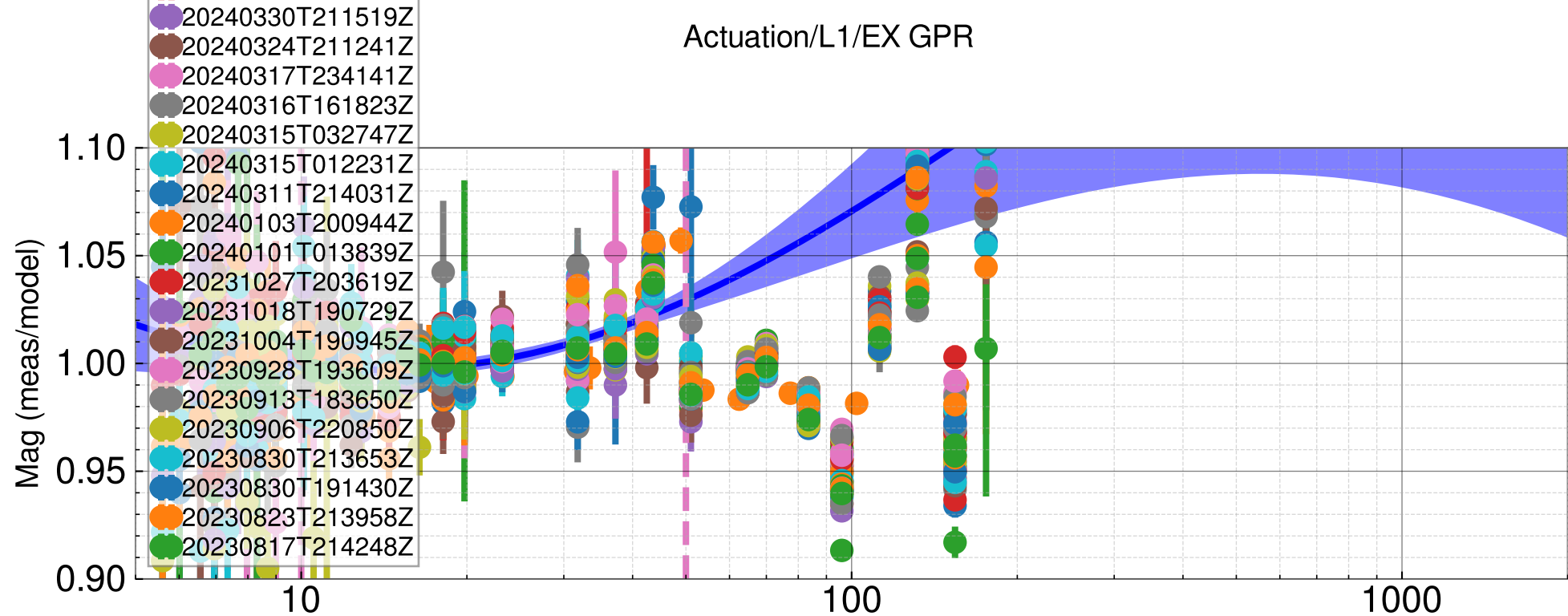
Actuation strength transfer functions
(scaled by H_{ref})



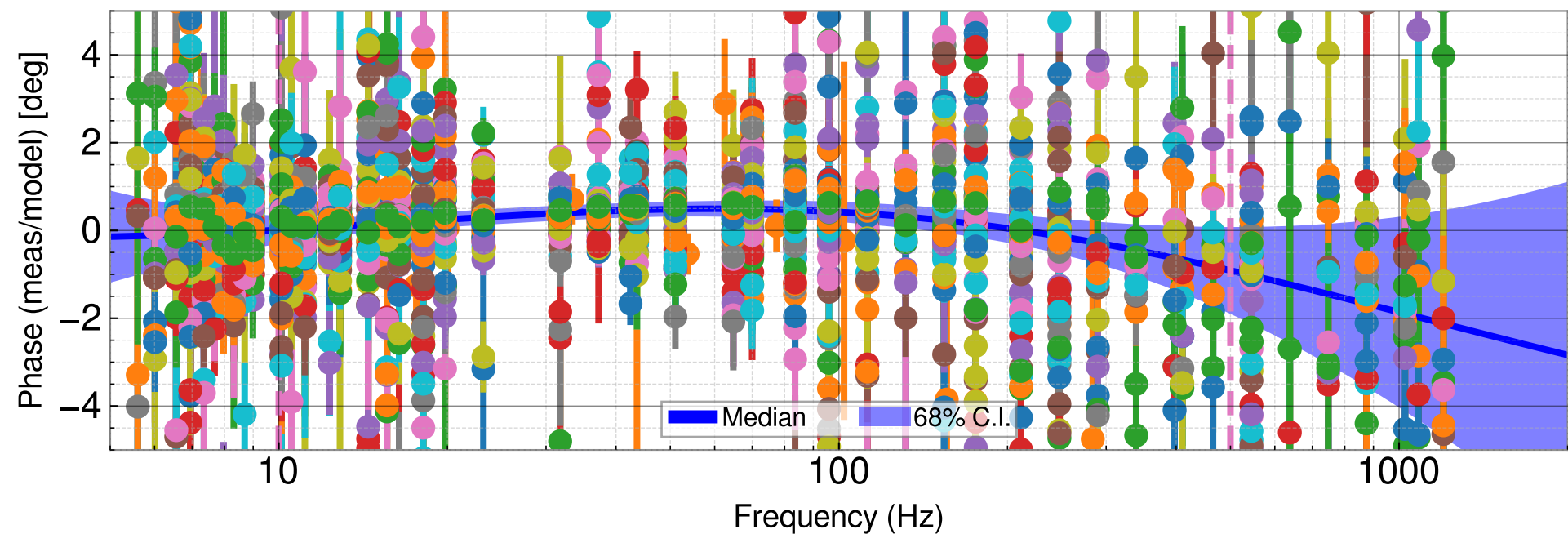
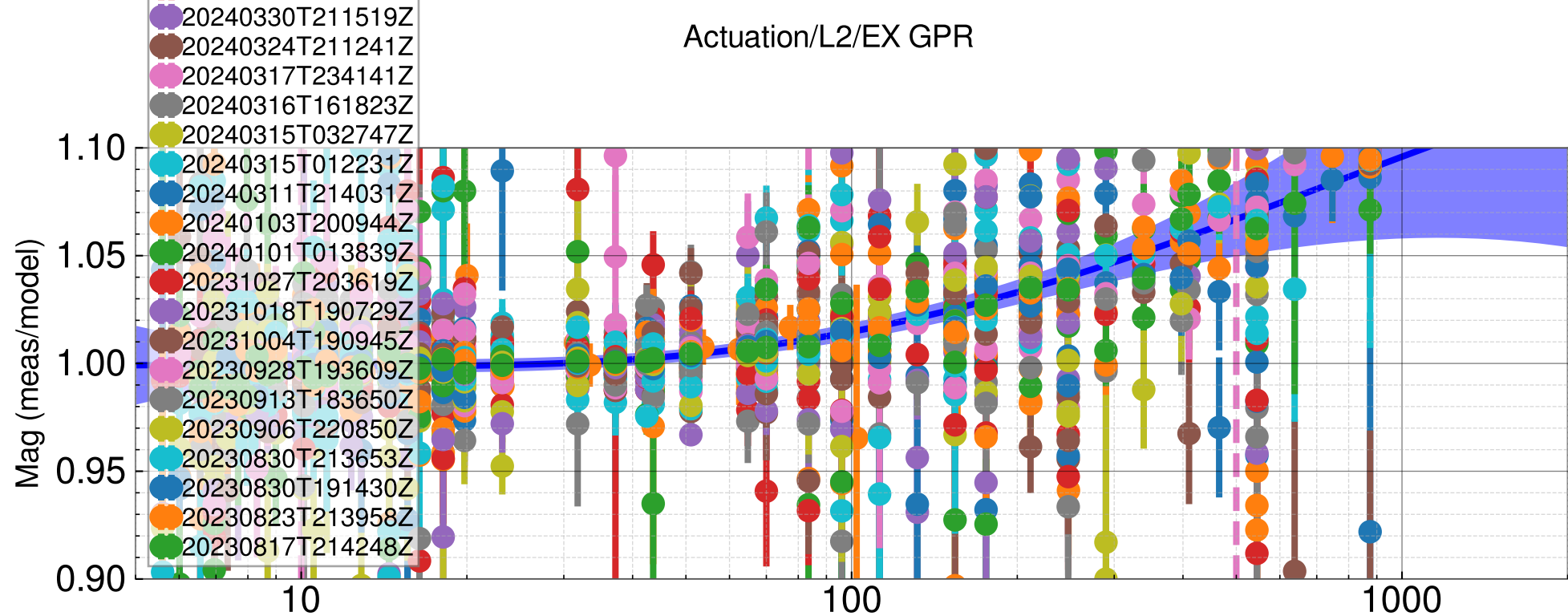
Actuation strength residuals
(meas./model w. free params)



Actuation/L1/EX GPR



Actuation/L2/EX GPR



Actuation/L3/EX GPR

