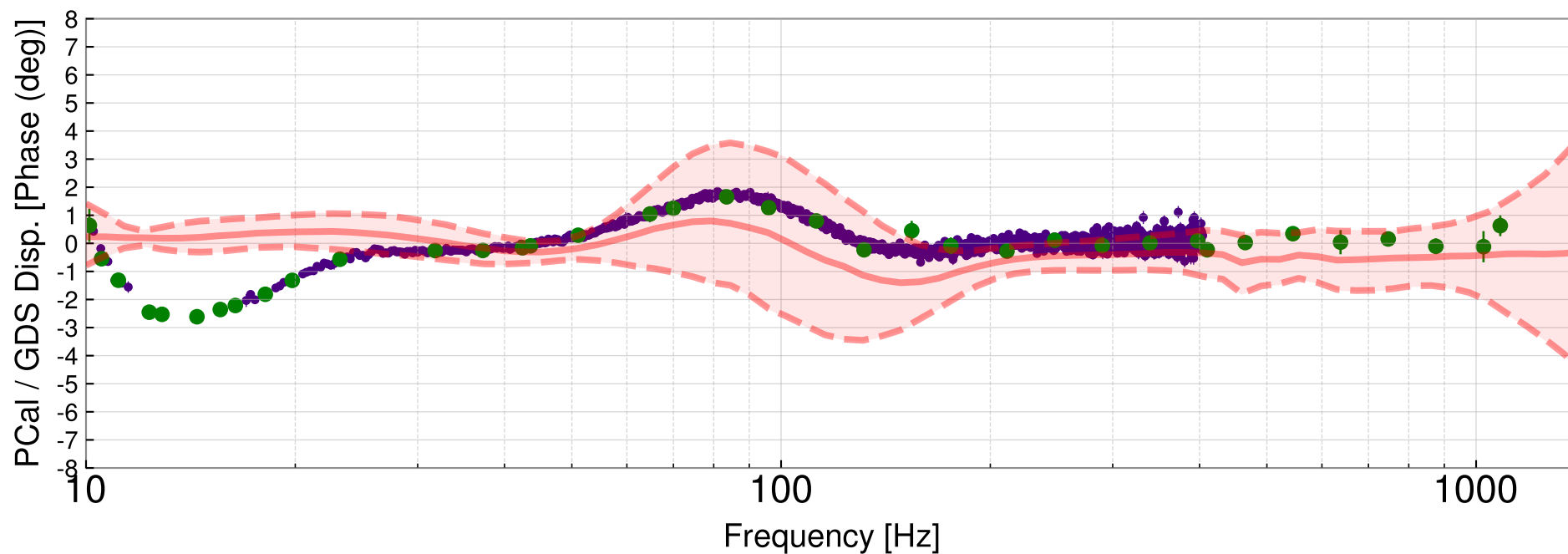
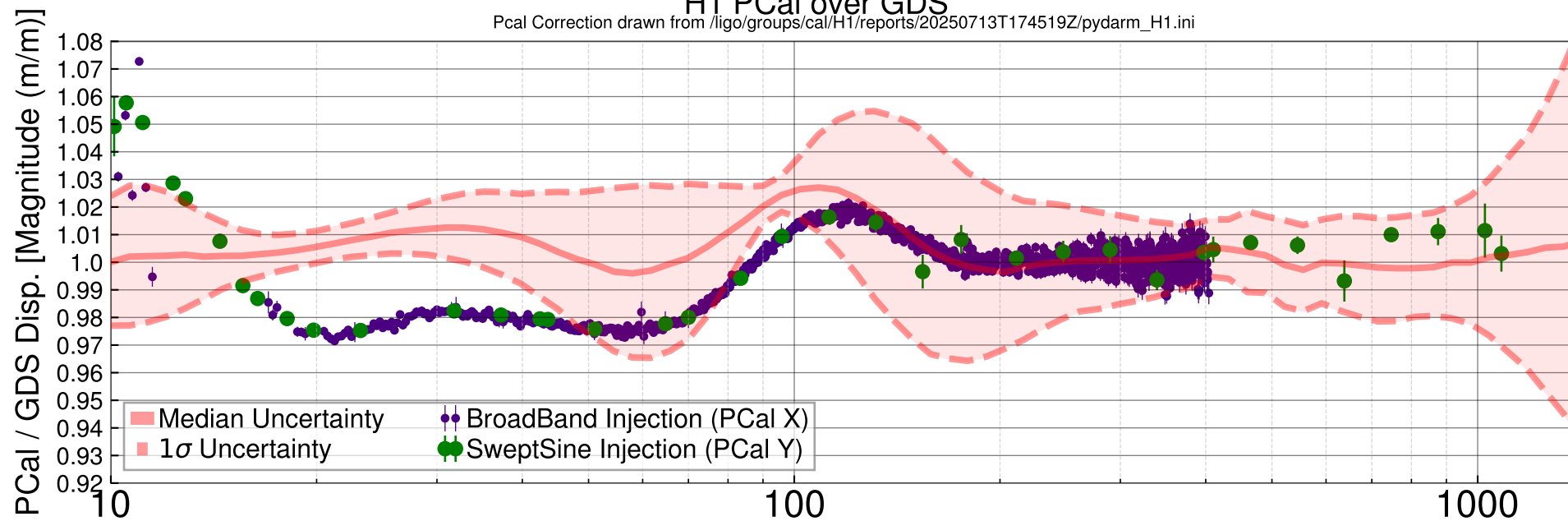


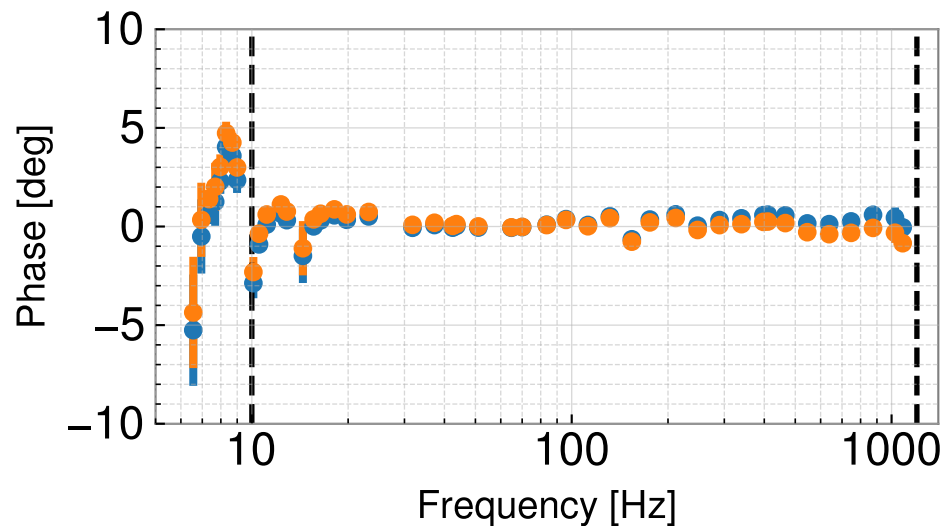
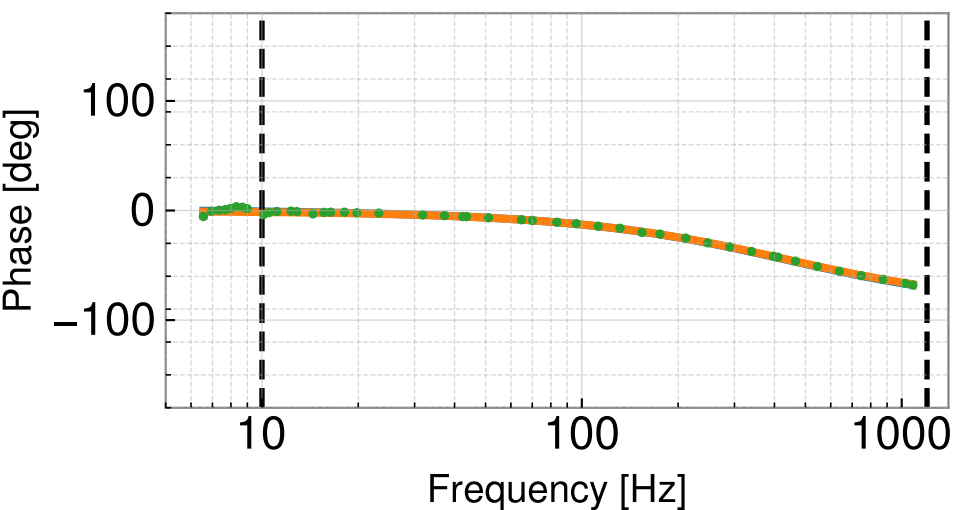
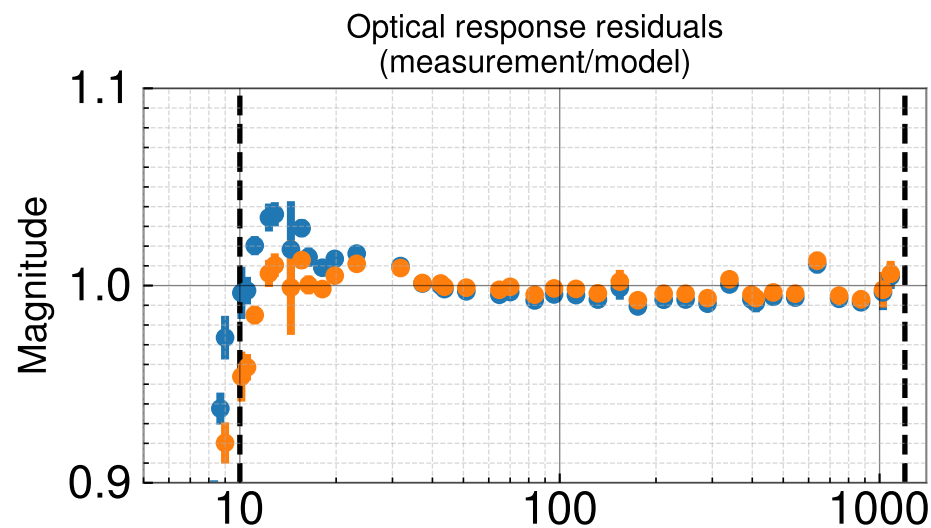
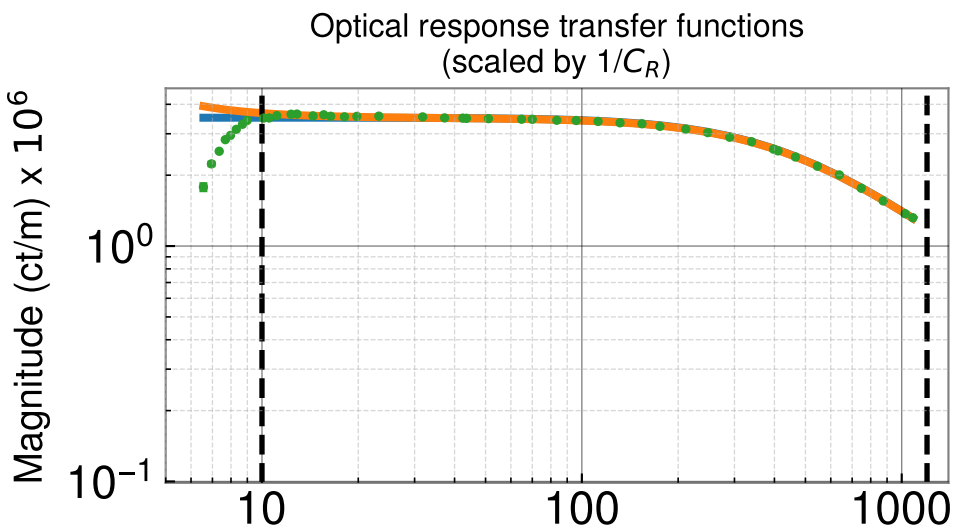
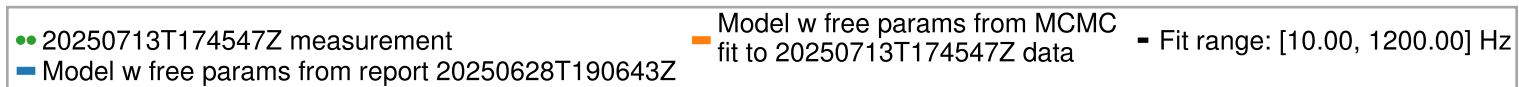
H1 PCal over GDS

Pcal Correction drawn from /ligo/groups/cal/H1/reports/20250713T174519Z/pydarm_H1.ini



H1 sensing model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250713T174519Z/pydarm_H1.ini

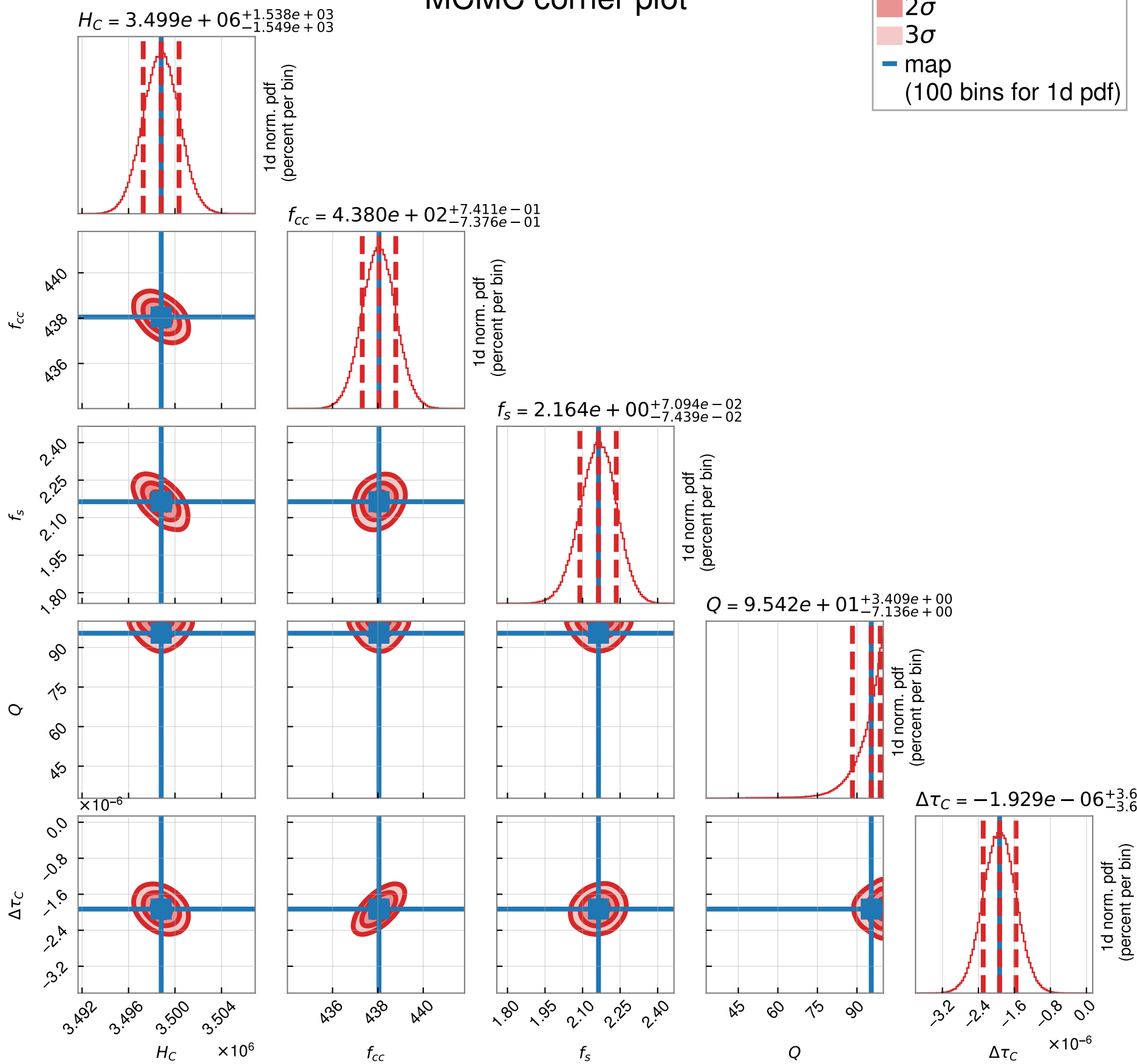


Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.499e+06	1538 (0.04%)	1549 (0.04%)
Cavity_pole, f_{cc} (Hz)	438	0.7411 (0.17%)	0.7376 (0.17%)
Detuned SRC spring frequency, f_s (Hz)	2.164	0.07094 (3.28%)	0.07439 (3.44%)
Detuned SRC spring quality factor, Q_s	95.42	3.409 (3.57%)	7.136 (7.48%)
Residual time delay, τ_c (s)	-1.929e-06	3.644e-07 (-18.89%)	3.643e-07 (-18.88%)

2d pdf contours

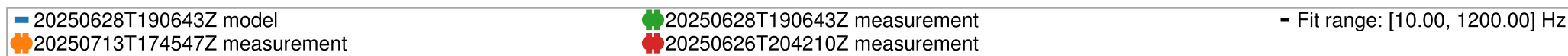
- 1 σ
- 2 σ
- 3 σ
- map

(100 bins for 1d pdf)

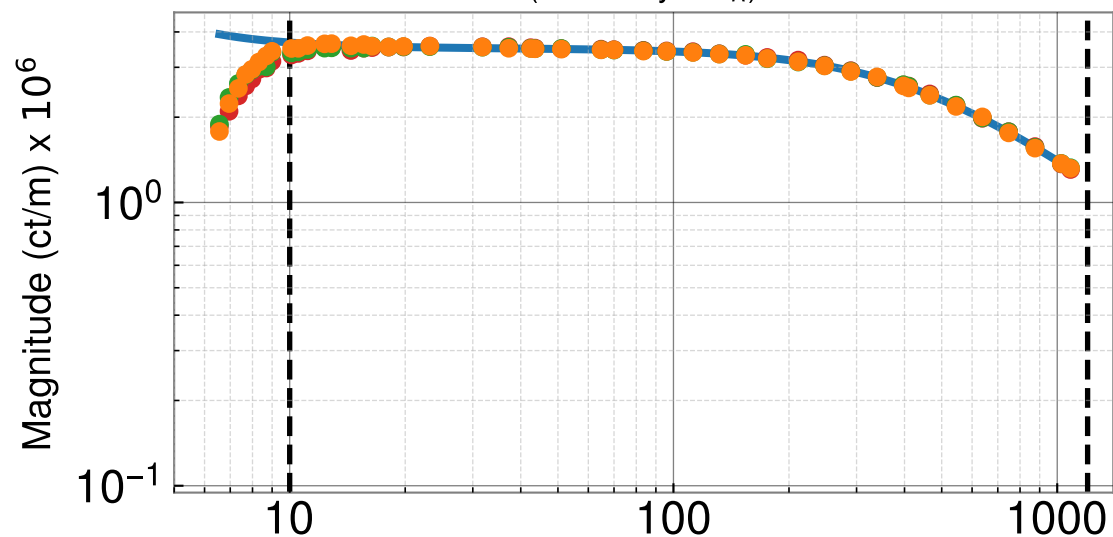


H1 sensing model history (last 9 measurements)

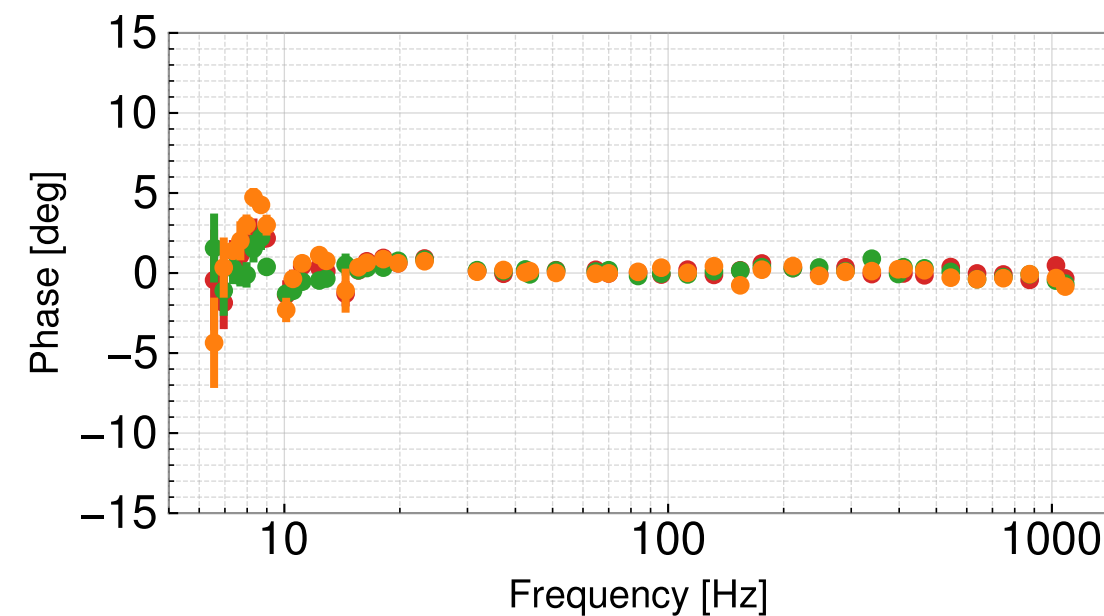
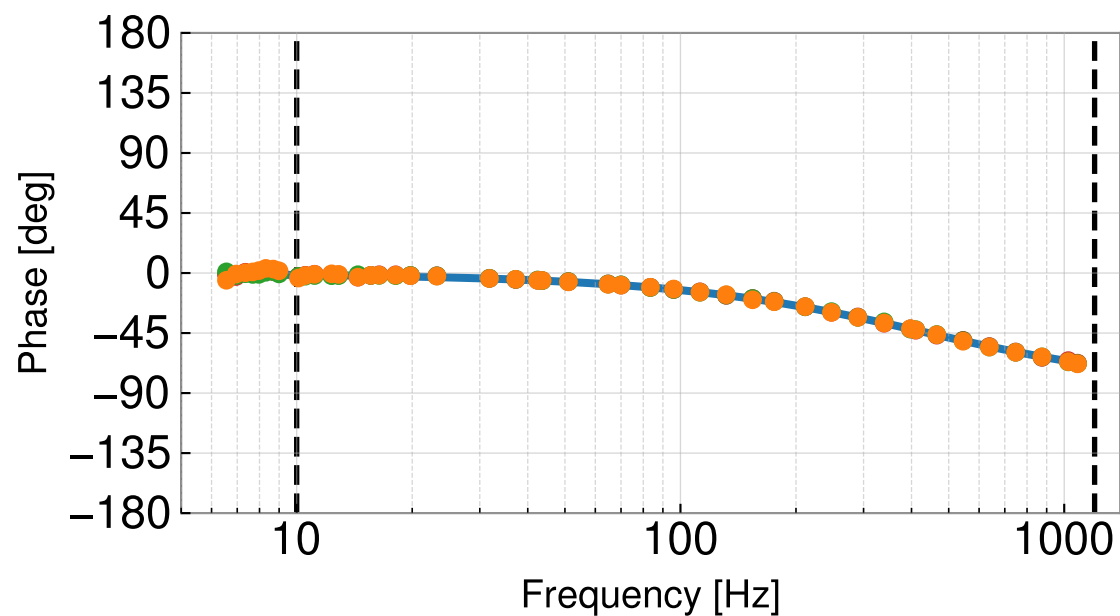
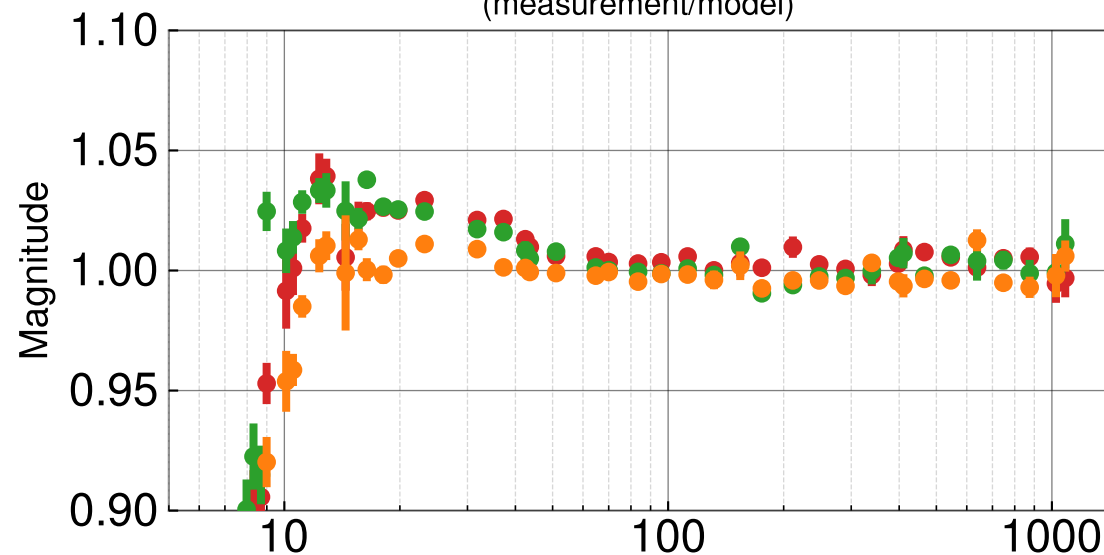
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250713T174519Z/pydarm_H1.ini



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

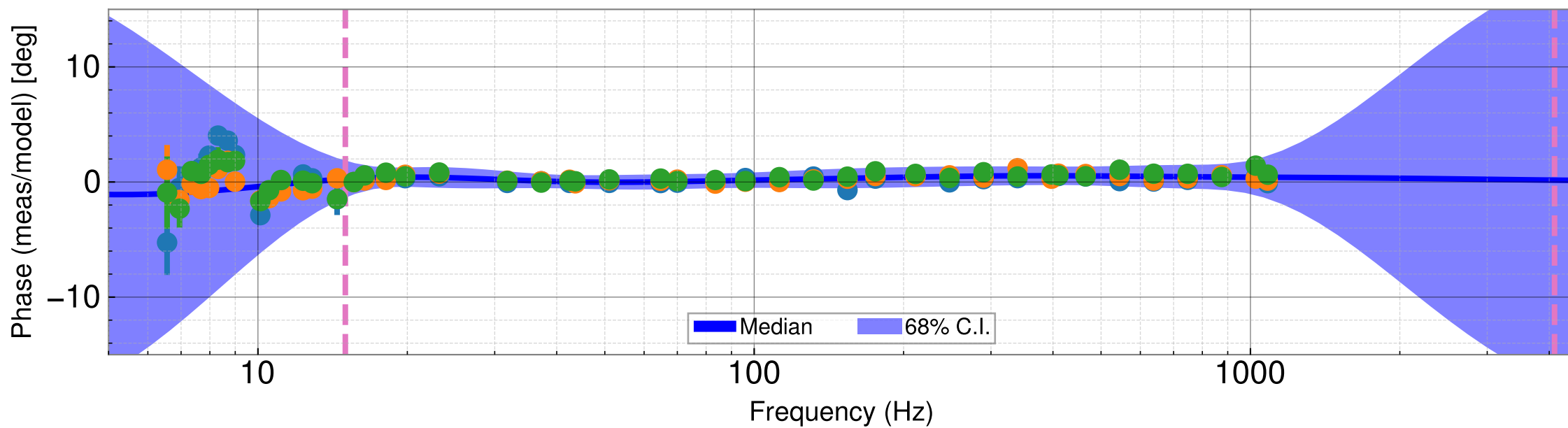
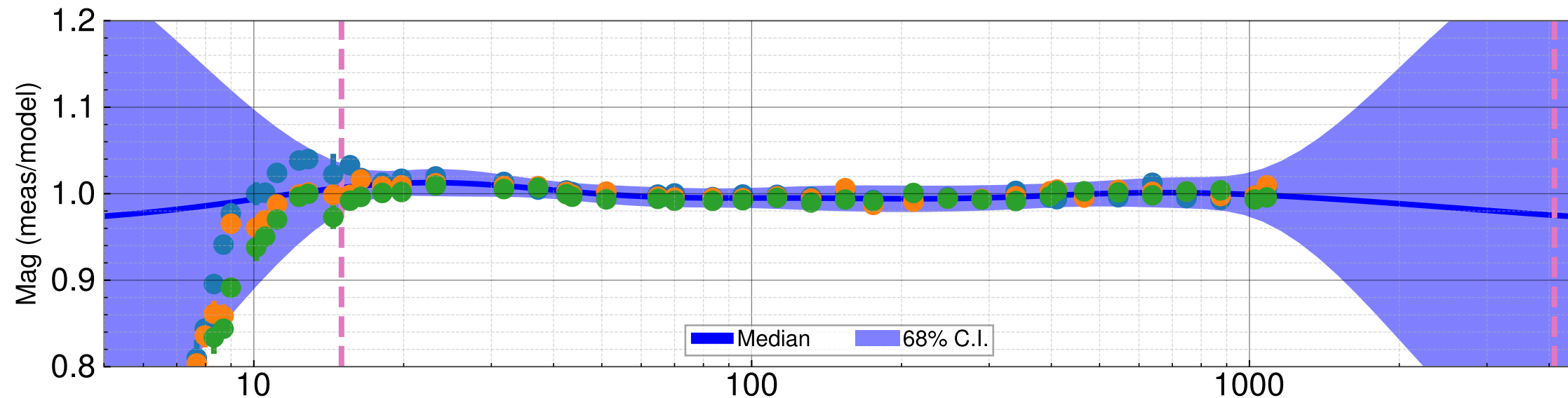


Optical response residuals
(measurement/model)



Sensing GPR

meas. 20250713T174547Z of report 20250713T174519 meas. 20250628T190710Z of report 20250628T190643 meas. 20250626T204238Z of report 20250626T204210Z

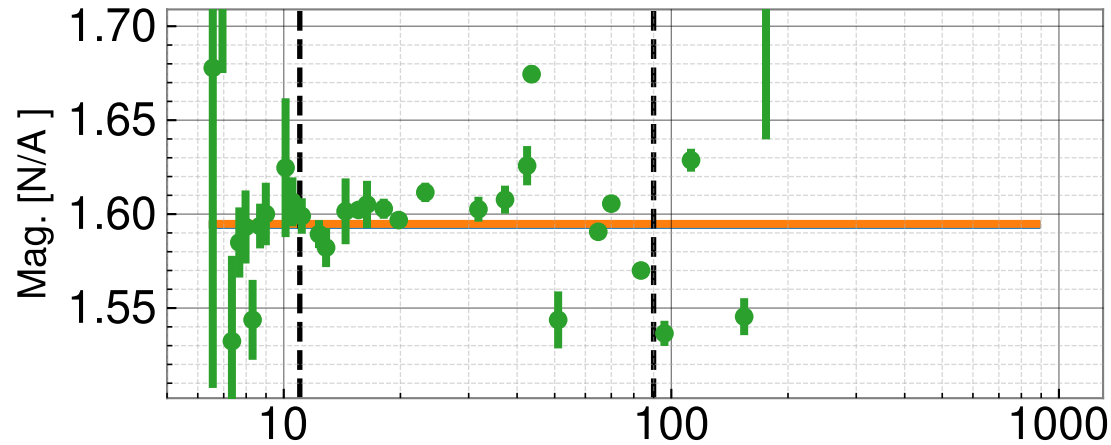


H1SUSEX L1 actuation model MCMC summary

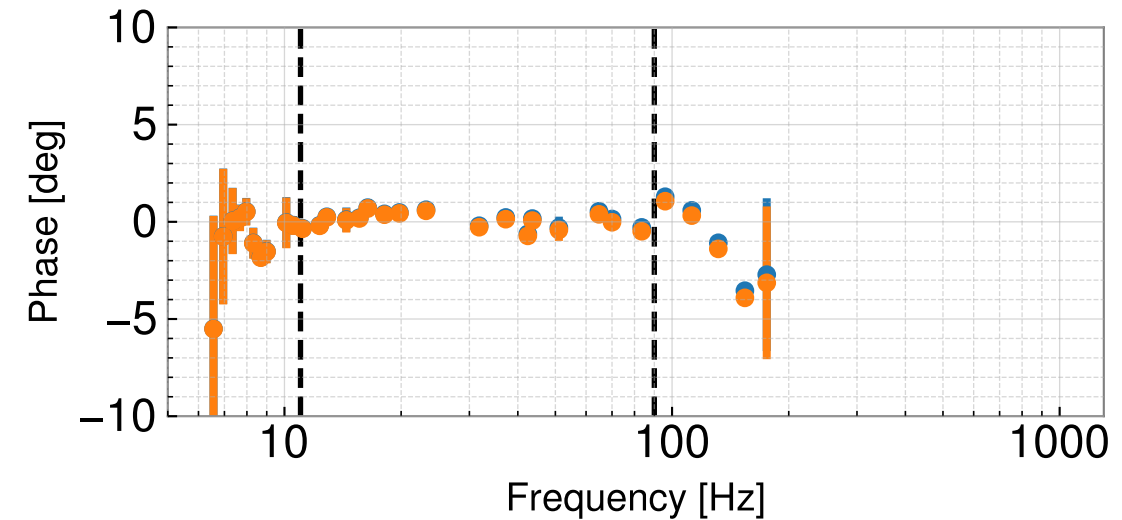
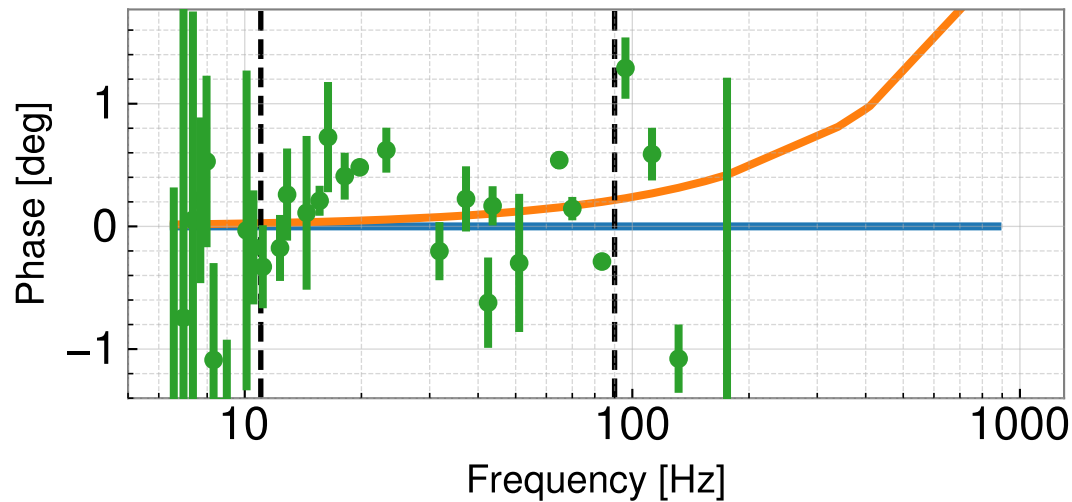
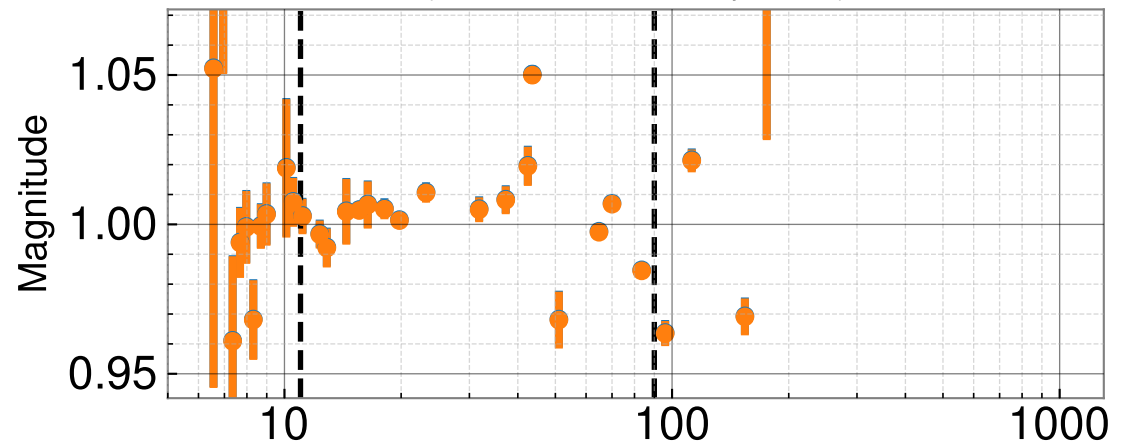
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250713T174519Z/pydarm_H1.ini

— Model w free params from report 20250628T190643Z
— Model w free params from
— MCMC fit to 20250713T174547Z data
■ 20250713T174547Z measurement
— Fit range 11.0 to 90.0 Hz

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

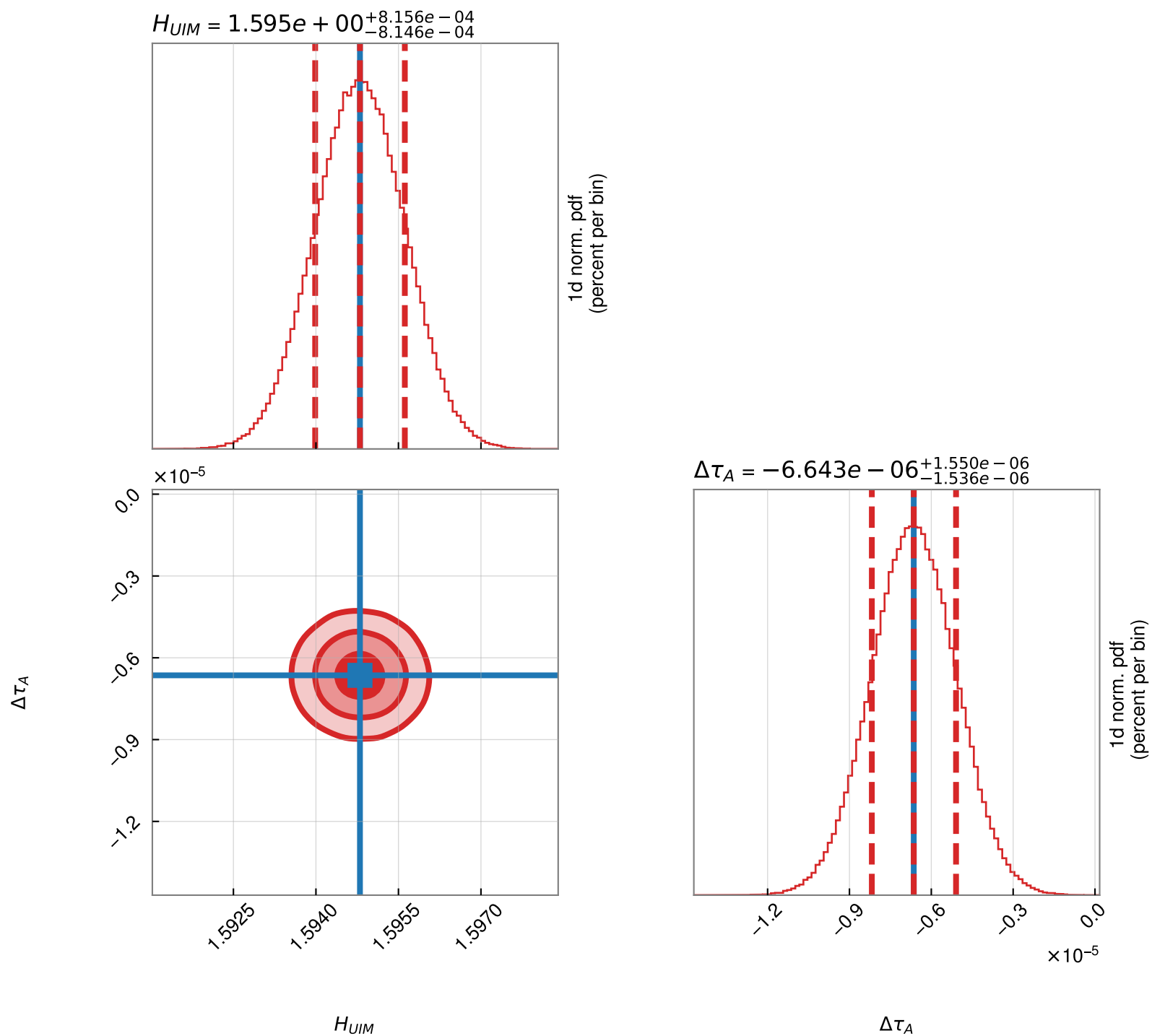
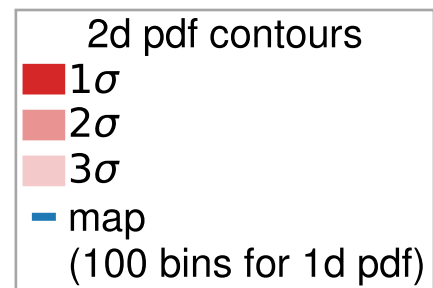


Actuation strength residuals
(meas./model w. free params)



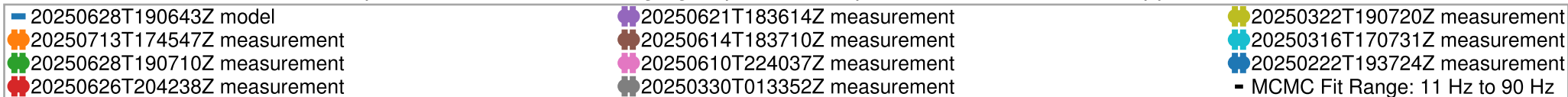
Parameter	(value +/-) value	+	-
Actuation Gain, Hau (N/A)	1.595	0.0008156 (0.05%)	0.0008146 (0.05%)
Residual time delay, tau_A (s)	-6.643e-06	1.55e-06 (-23.34%)	1.536e-06 (-23.12%)

20250713T174547Z EX L1 actuation MCMC corner plot



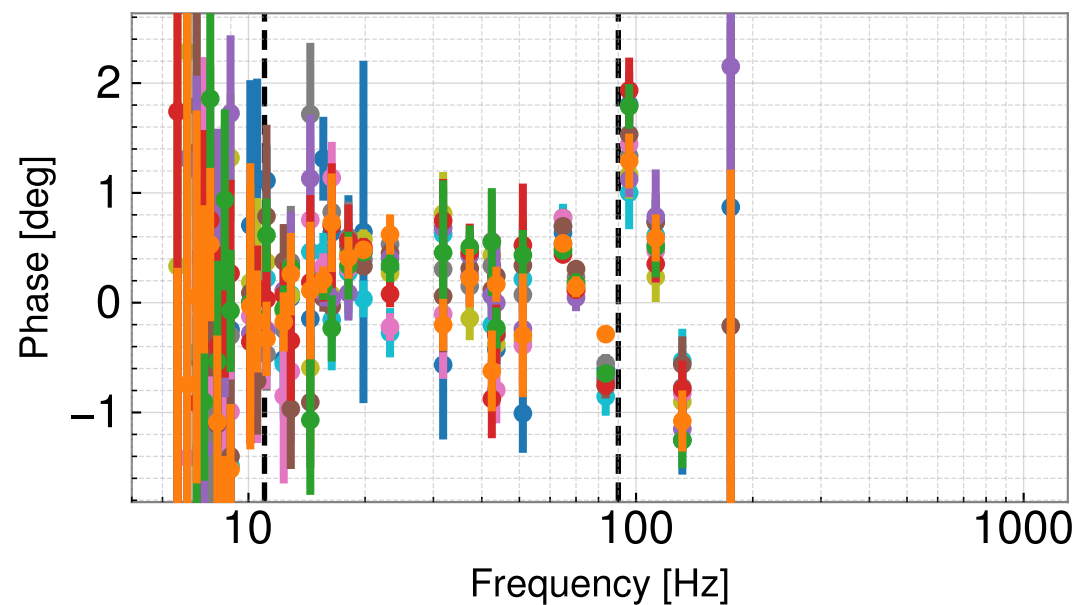
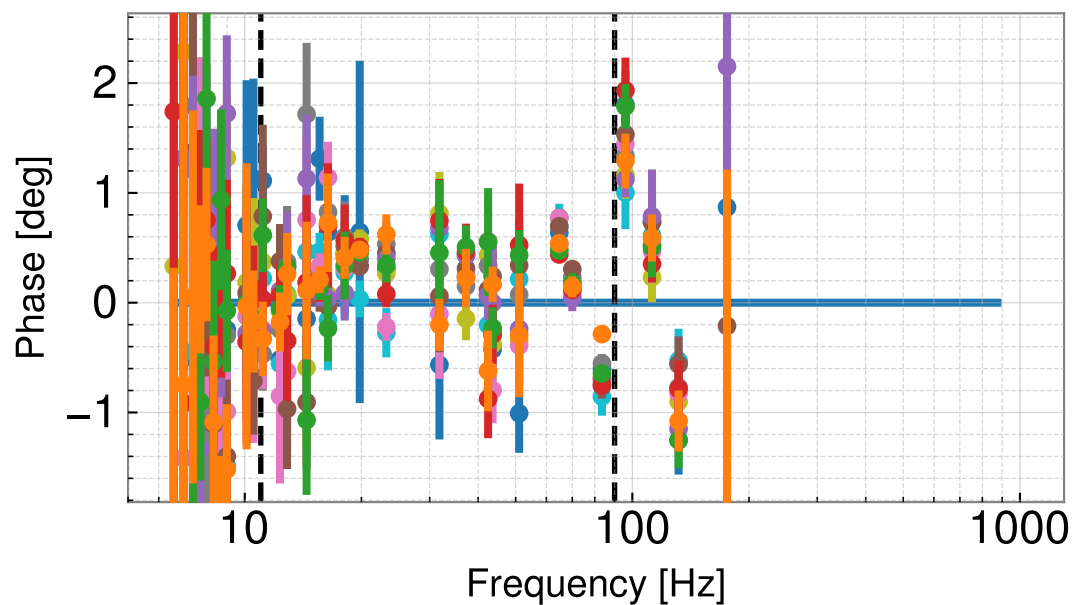
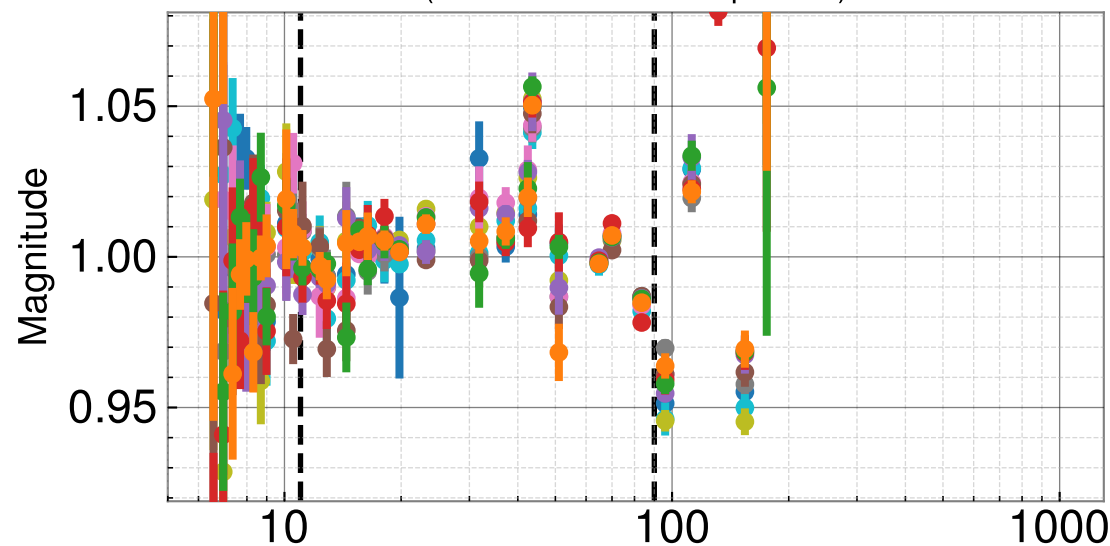
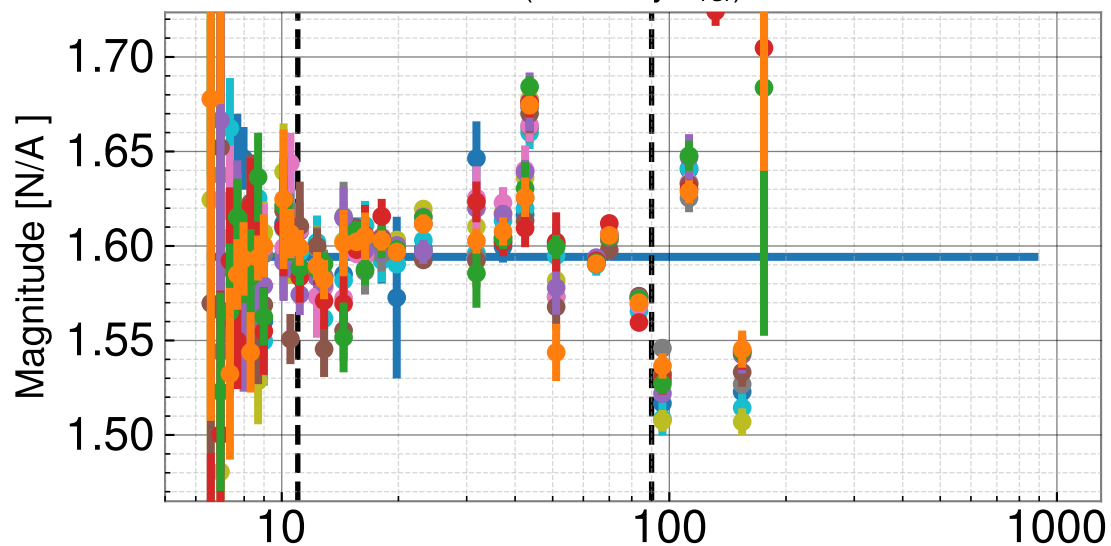
H1SUSEX L1 actuation model history (last 9 measurements)

All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20250713T174519Z/pydarm_H1.ini`



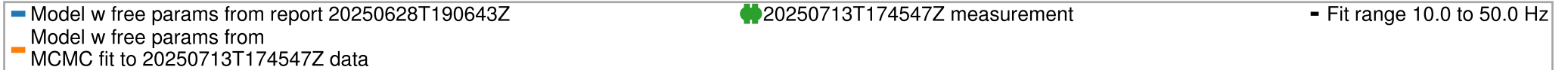
Actuation strength transfer functions
(scaled by H_{ref})

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

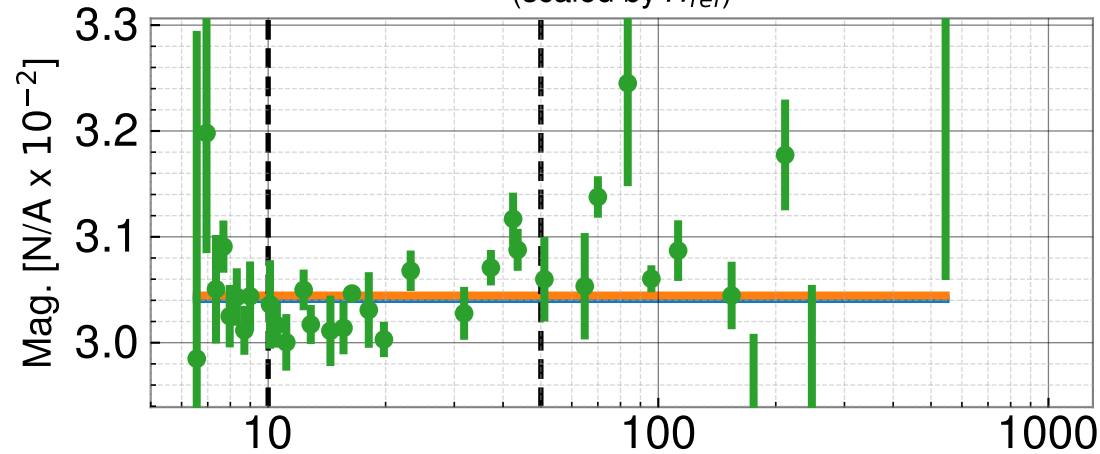


H1SUSEX L2 actuation model MCMC summary

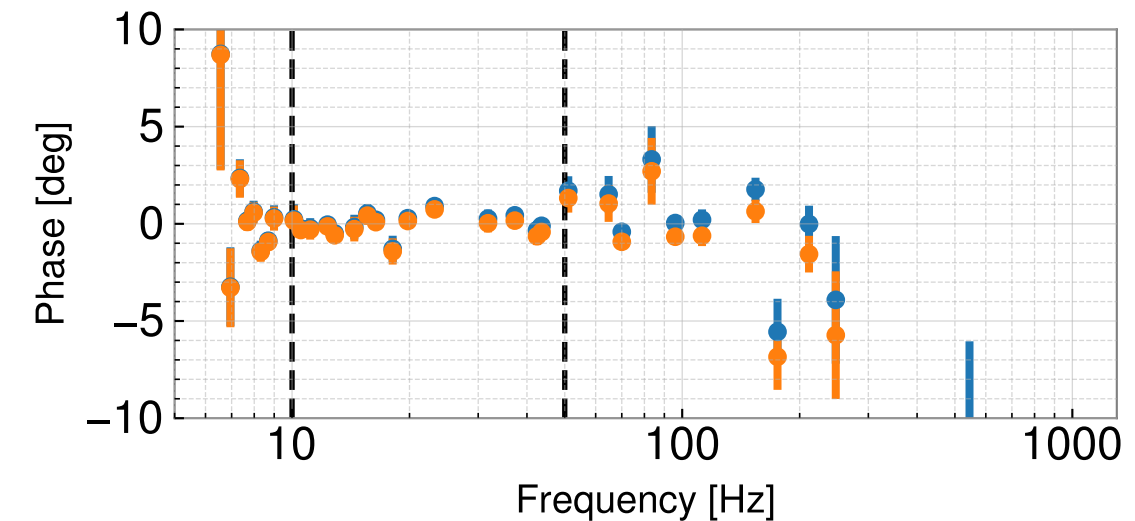
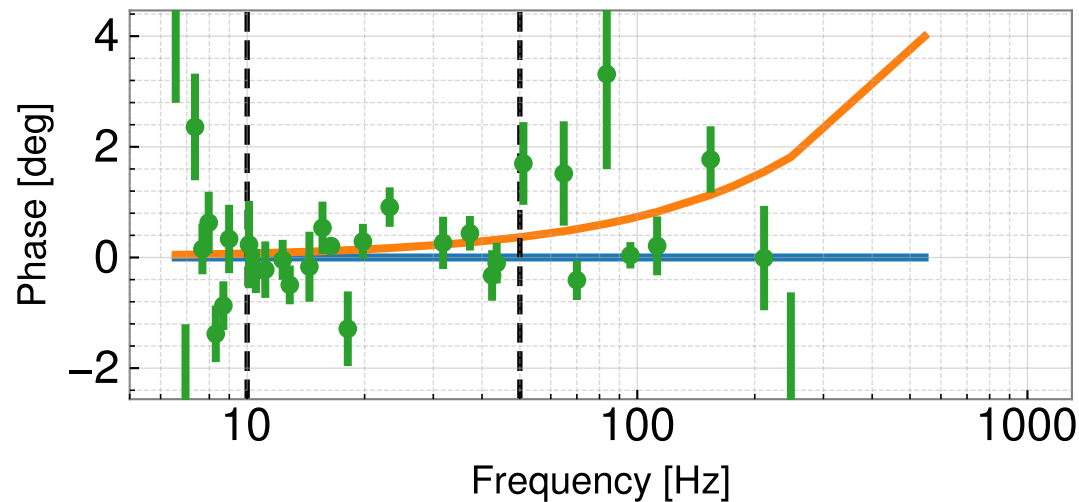
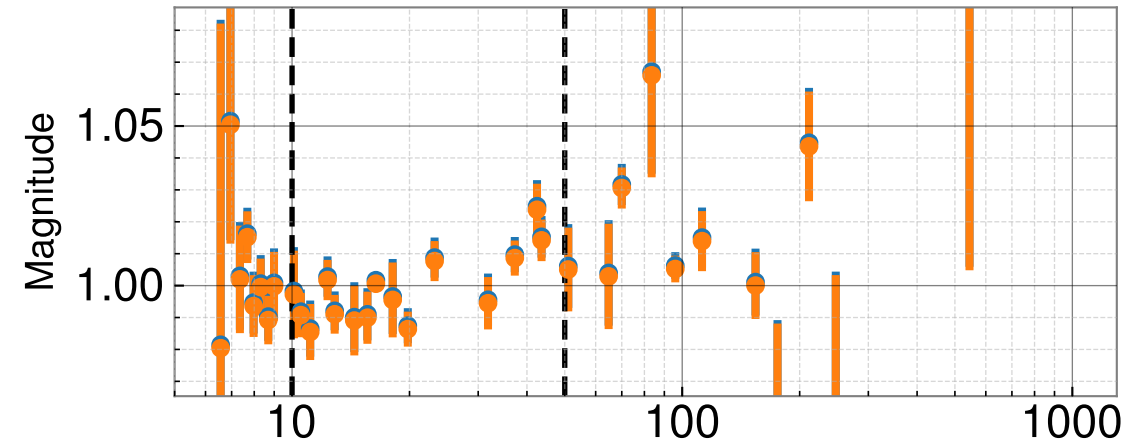
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250713T174519Z/pydarm_H1.ini



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

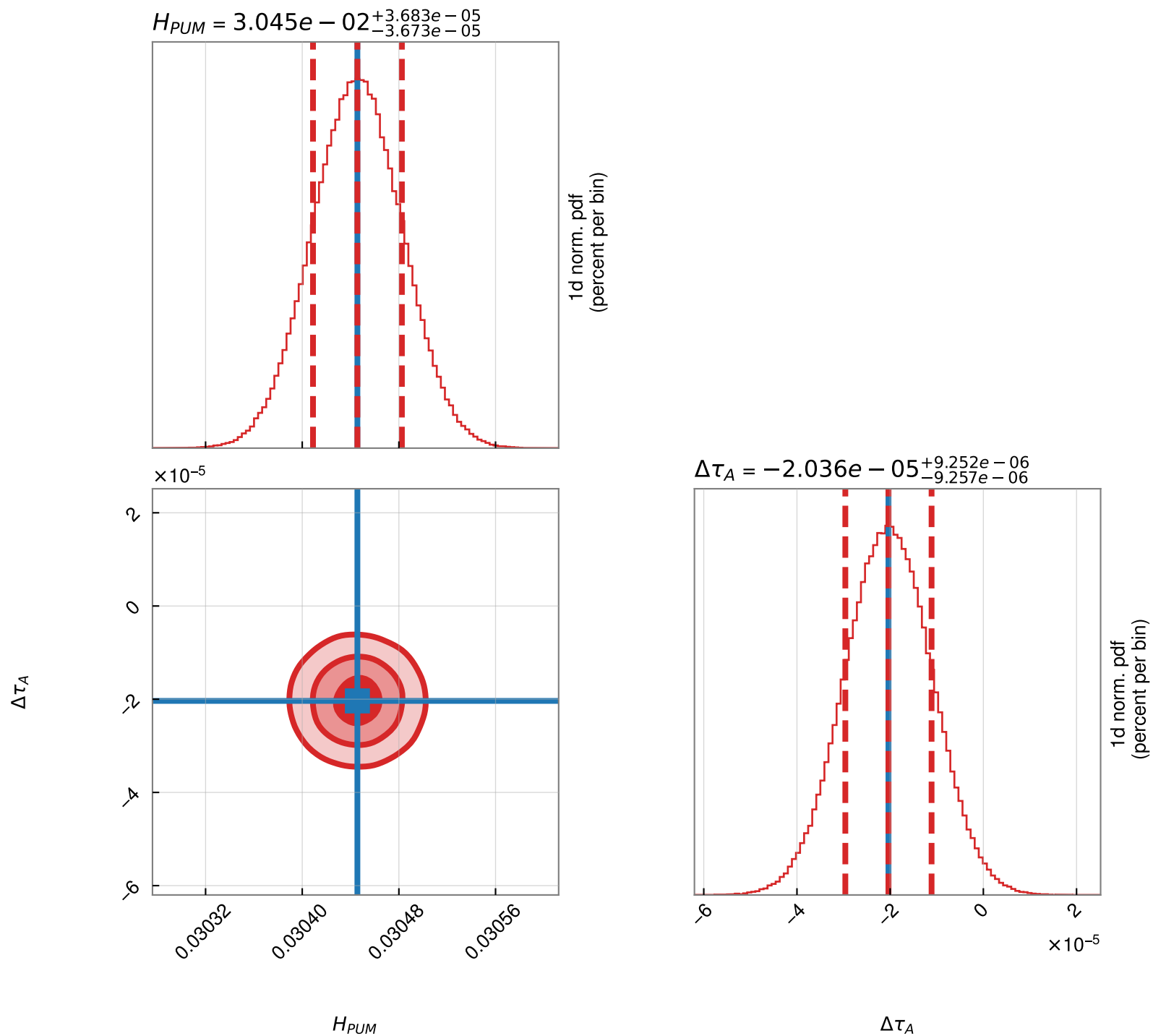
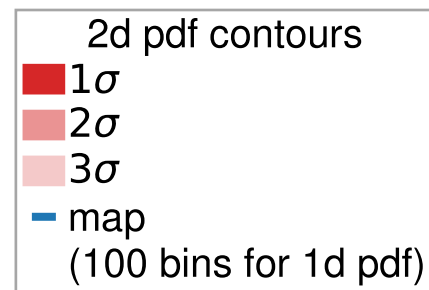


Actuation strength residuals
(meas./model w. free params)



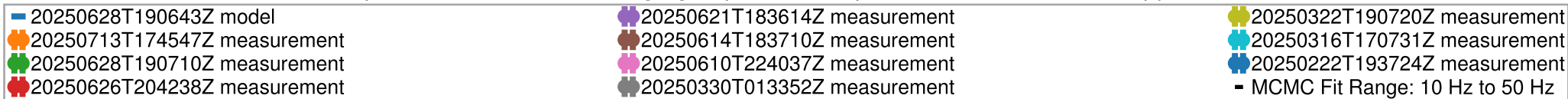
Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.03045	3.683e-05 (0.12%)	3.673e-05 (0.12%)
Residual time delay, tau_A (s)	-2.036e-05	9.252e-06 (-45.43%)	9.257e-06 (-45.45%)

20250713T174547Z EX L2 actuation MCMC corner plot

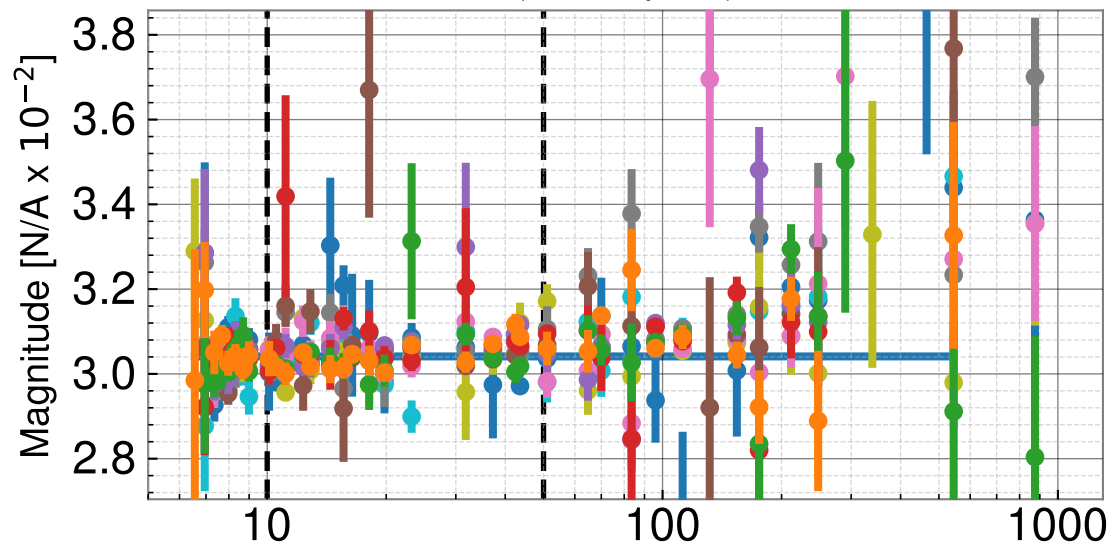


H1SUSEX L2 actuation model history (last 9 measurements)

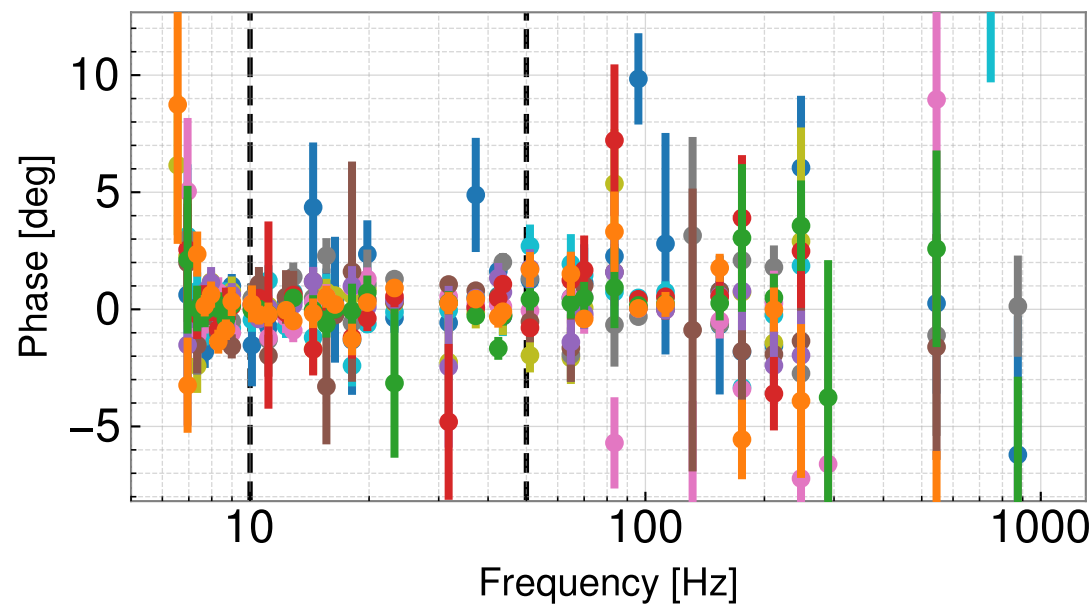
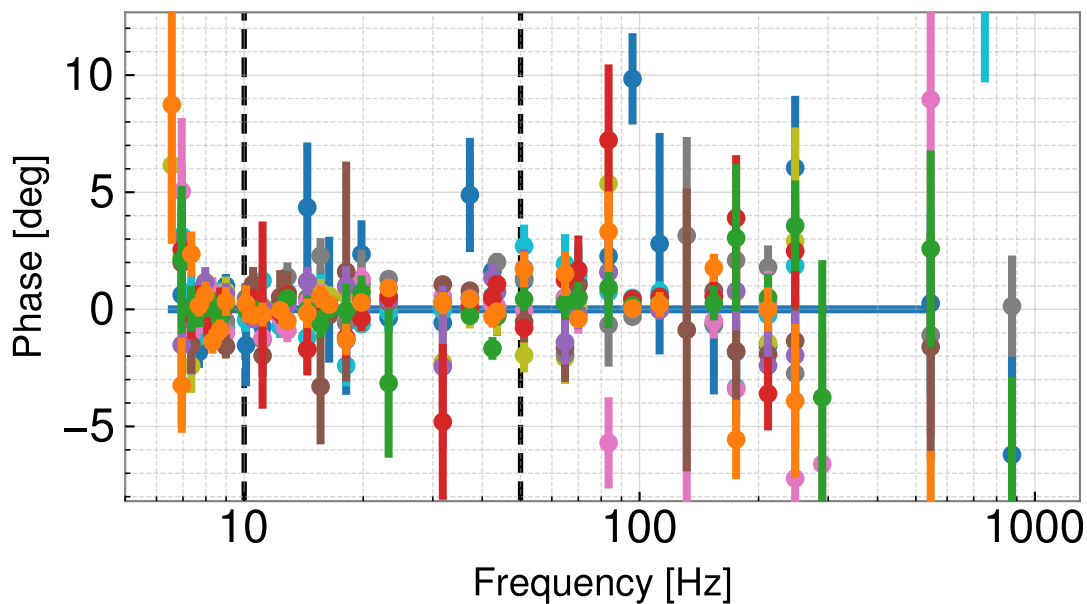
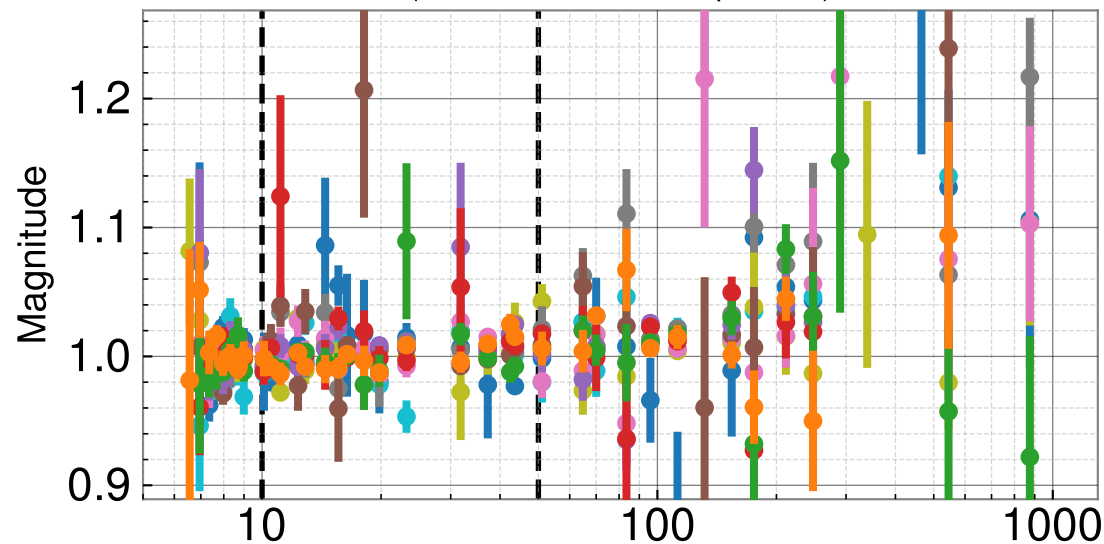
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20250713T174519Z/pydarm_H1.ini`



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

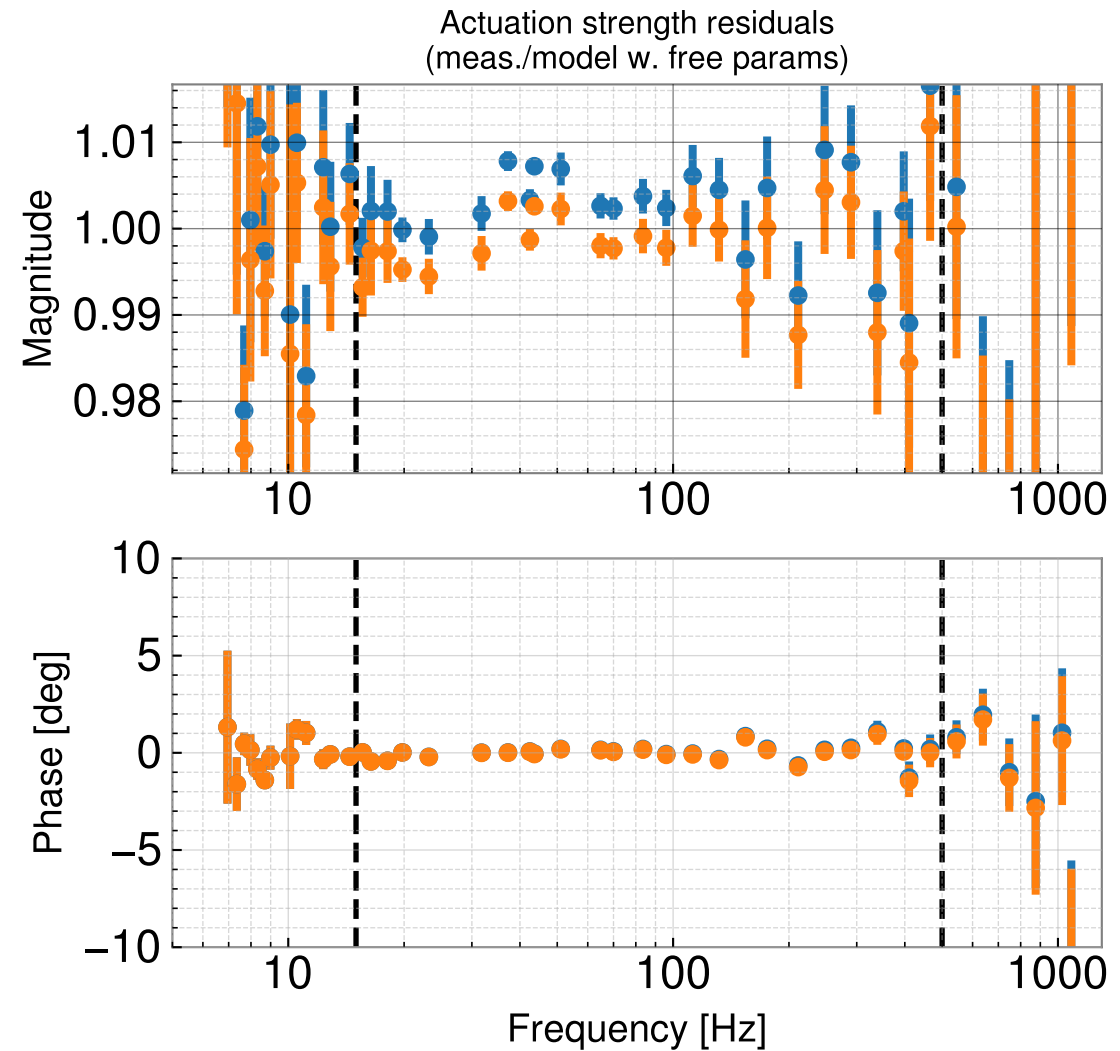
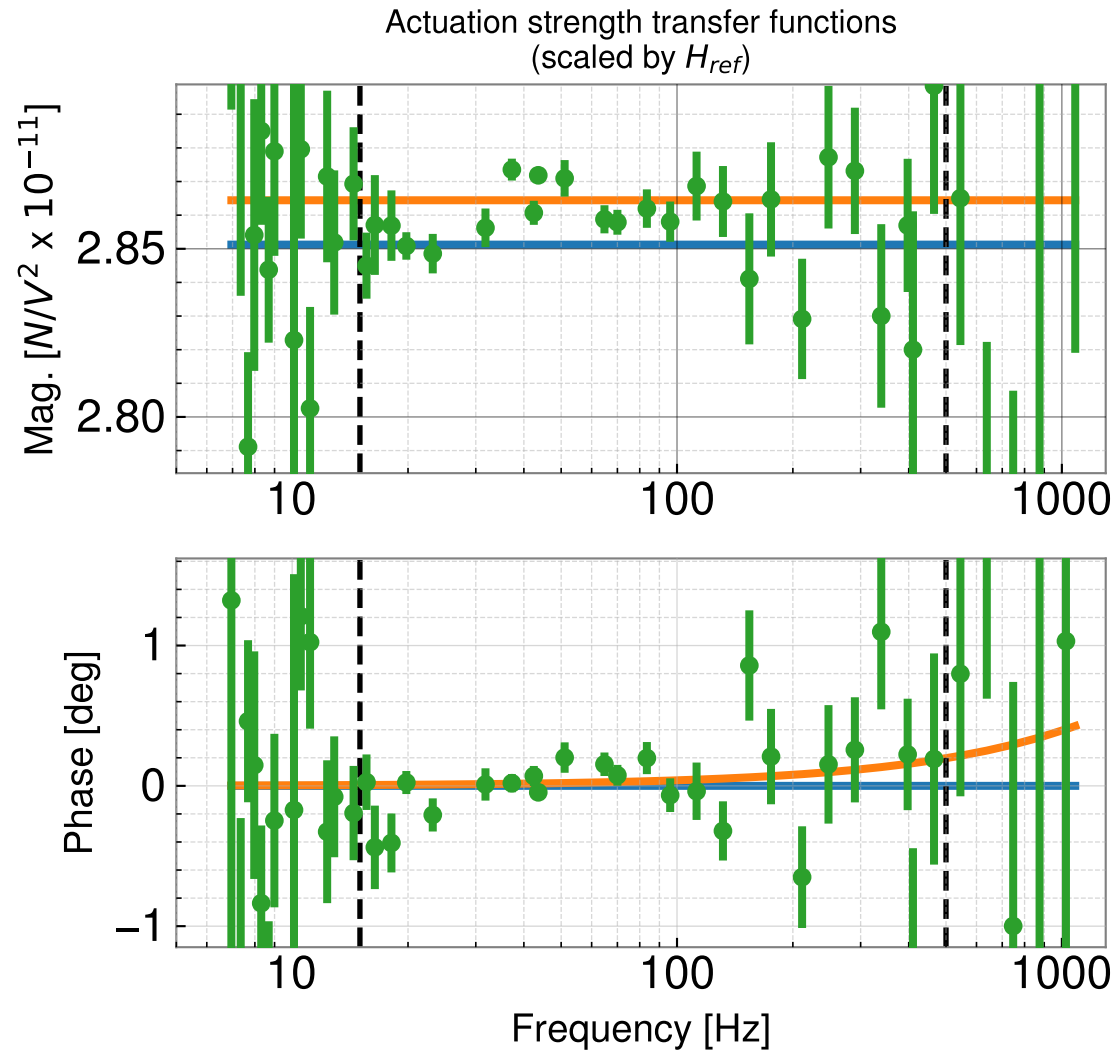


Actuation strength residuals
(meas./model w. free params)



H1SUSEX L3 actuation model MCMC summary

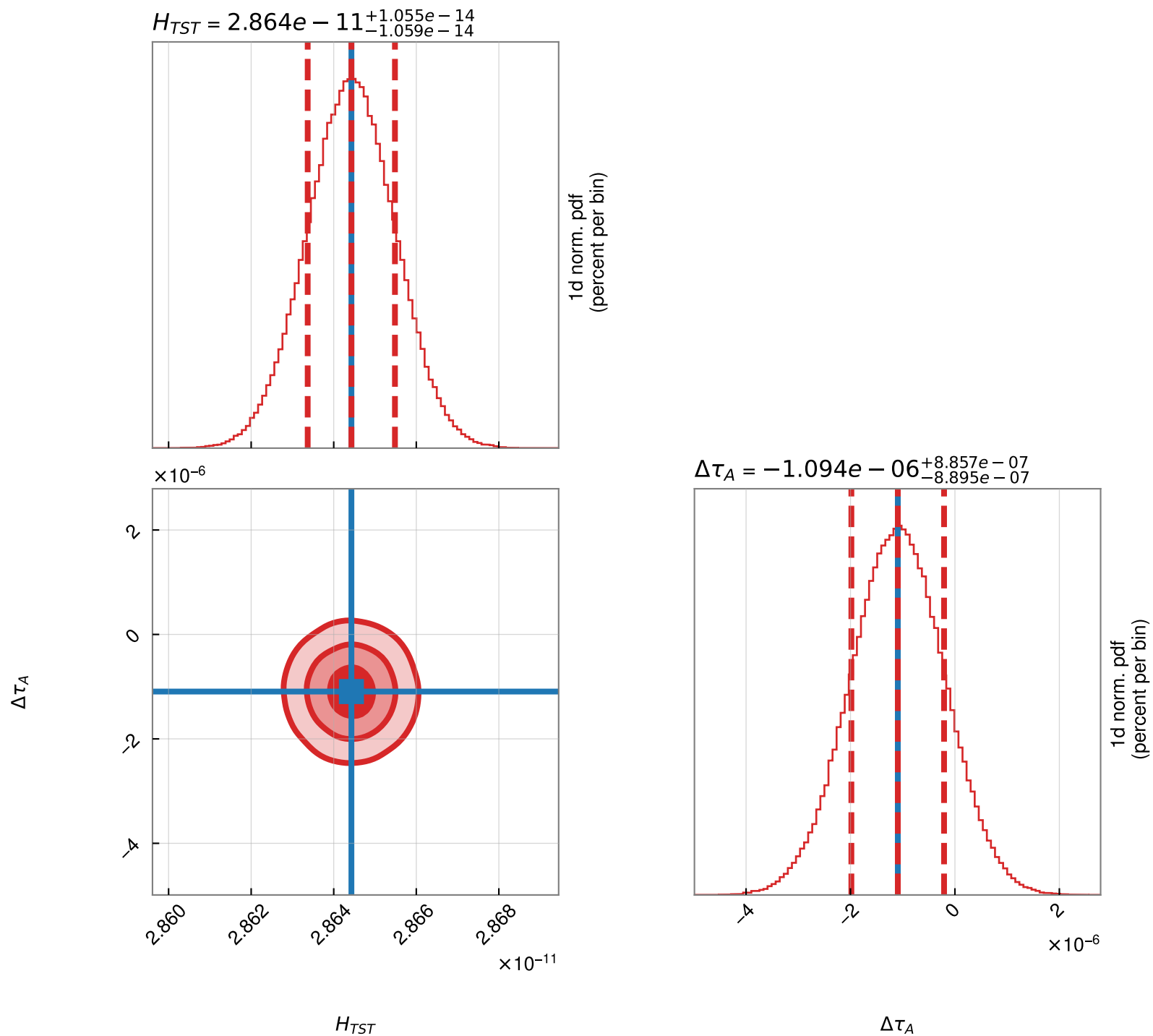
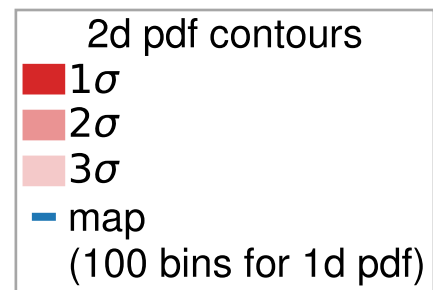
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250713T174519Z/pydarm_H1.ini



Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V^{**2})	2.864e-11	1.055e-14 (0.04%)	1.059e-14 (0.04%)
Residual time delay, tau_A (s)	-1.094e-06	8.857e-07 (-80.98%)	8.895e-07 (-81.33%)

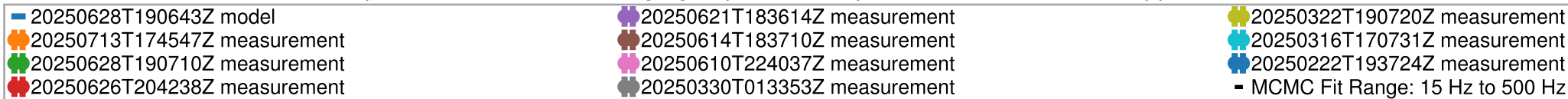
20250713T174547Z EX L3 actuation

MCMC corner plot

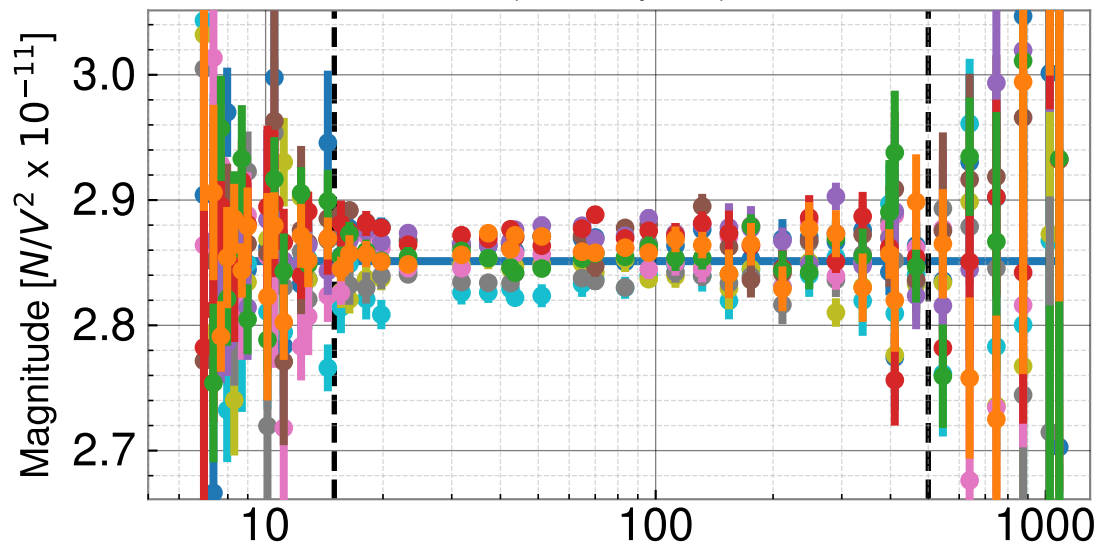


H1SUSEX L3 actuation model history (last 9 measurements)

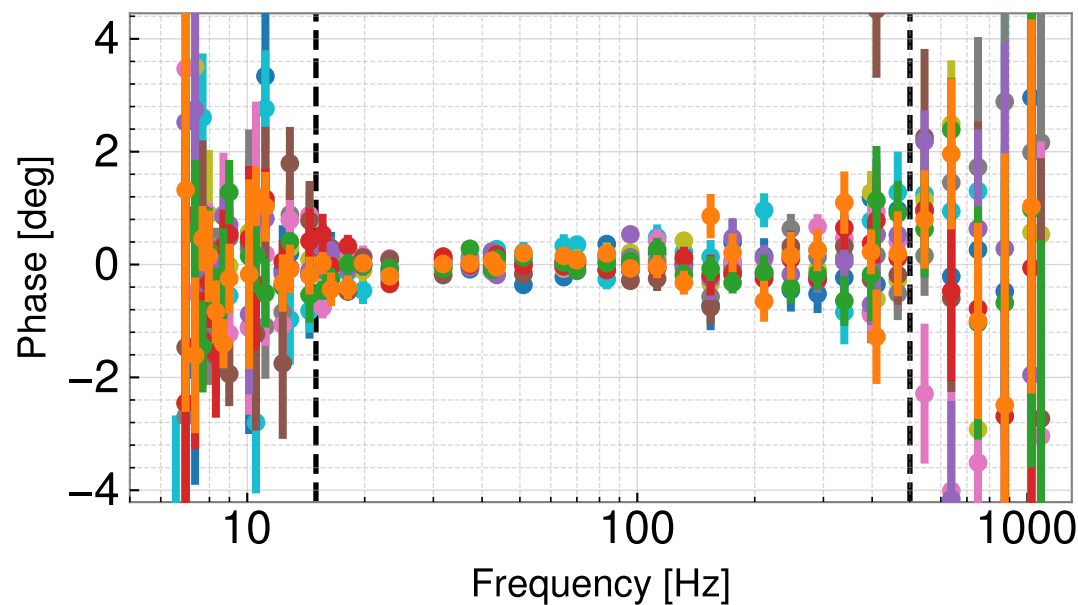
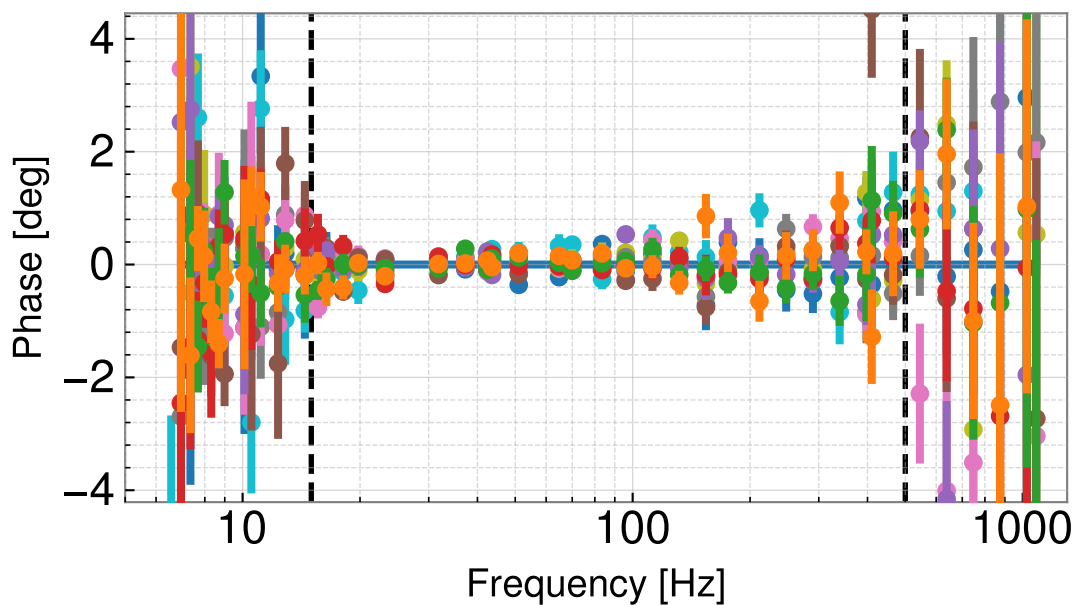
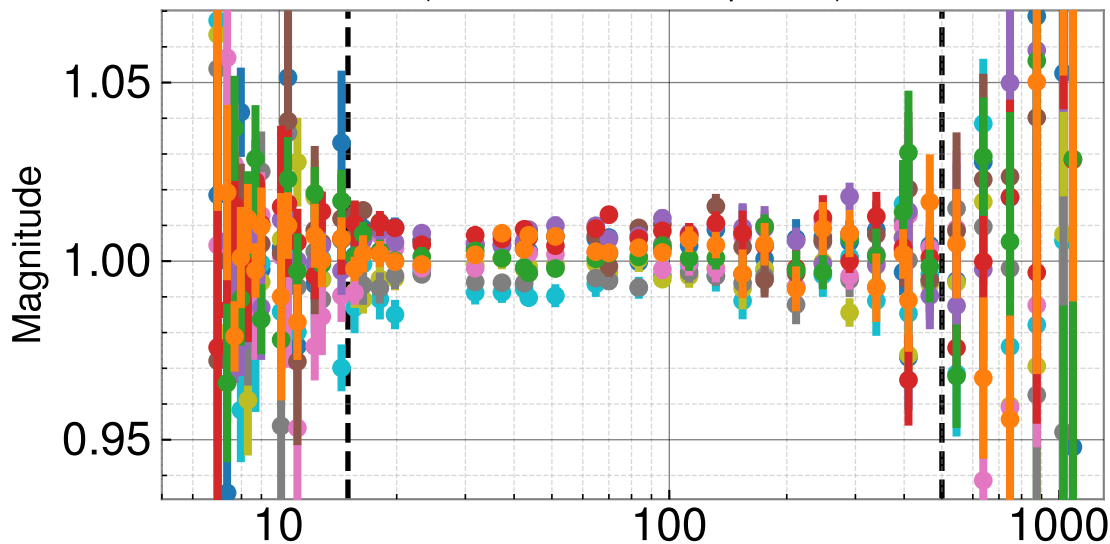
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250713T174519Z/pydarm_H1.ini



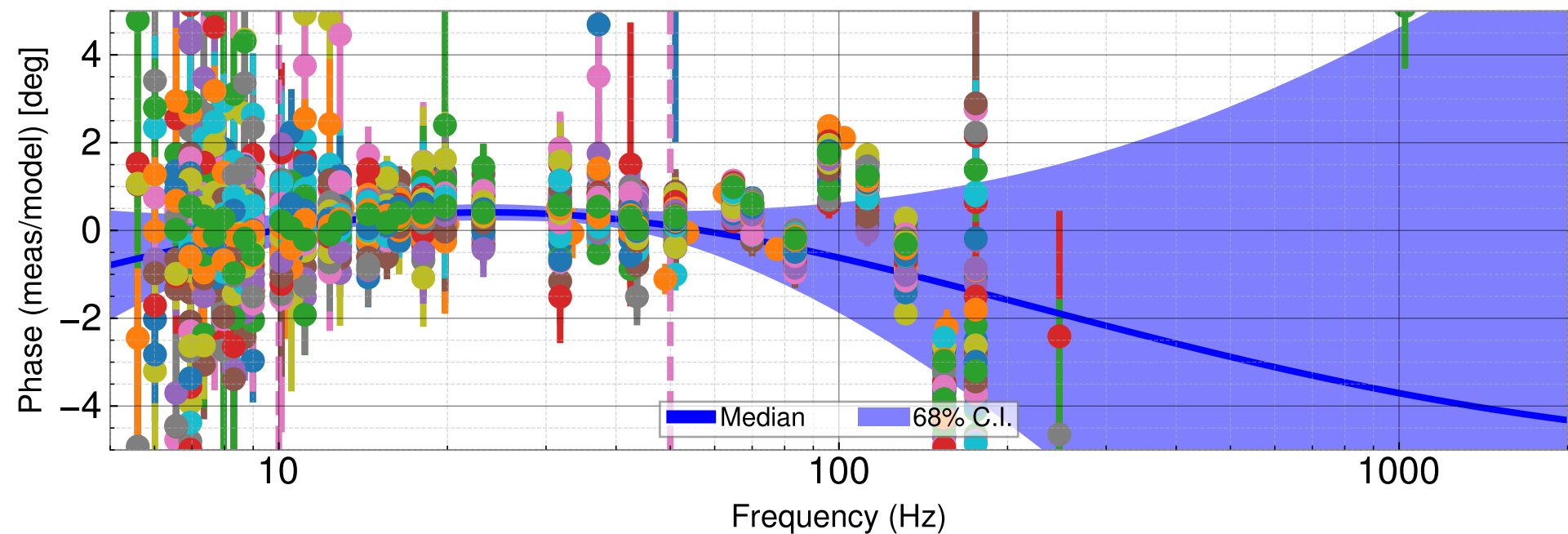
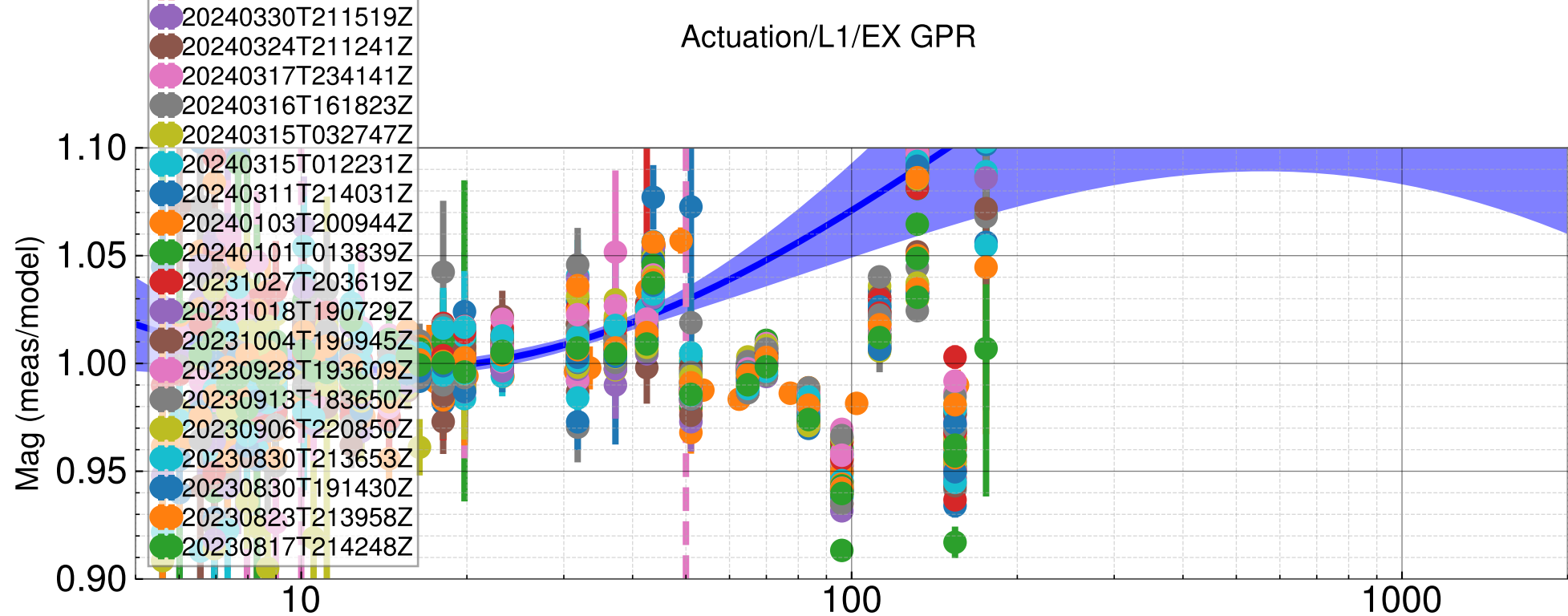
Actuation strength transfer functions
(scaled by H_{ref})



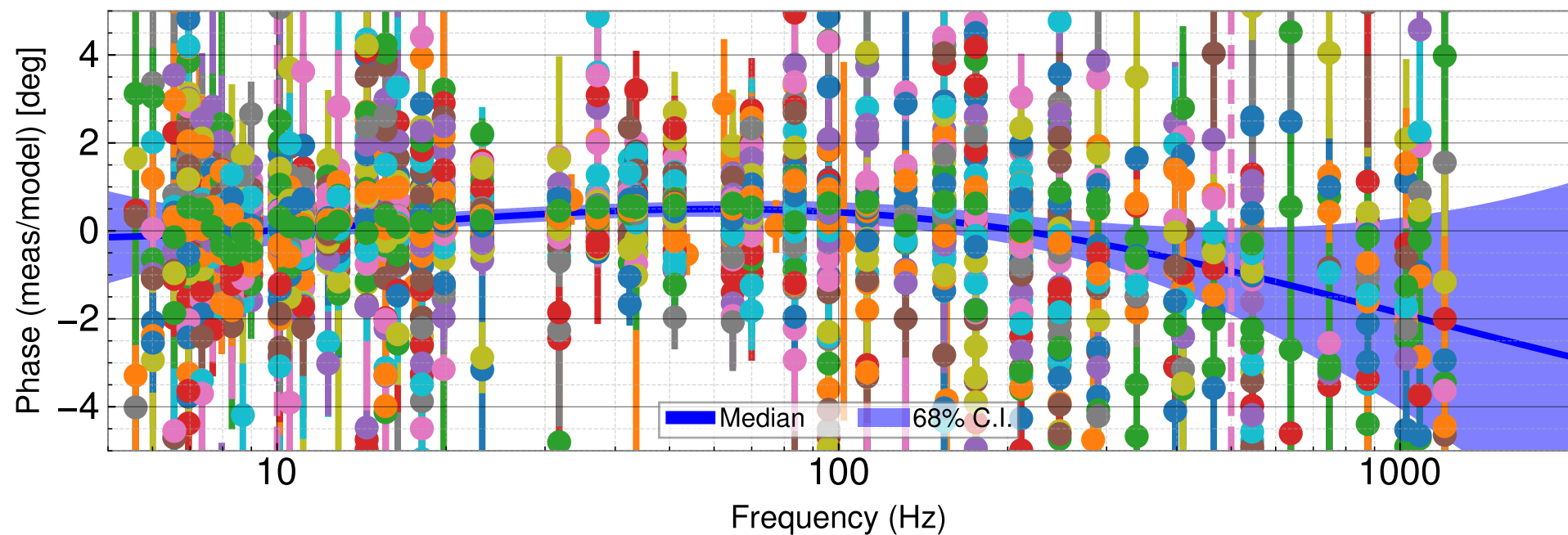
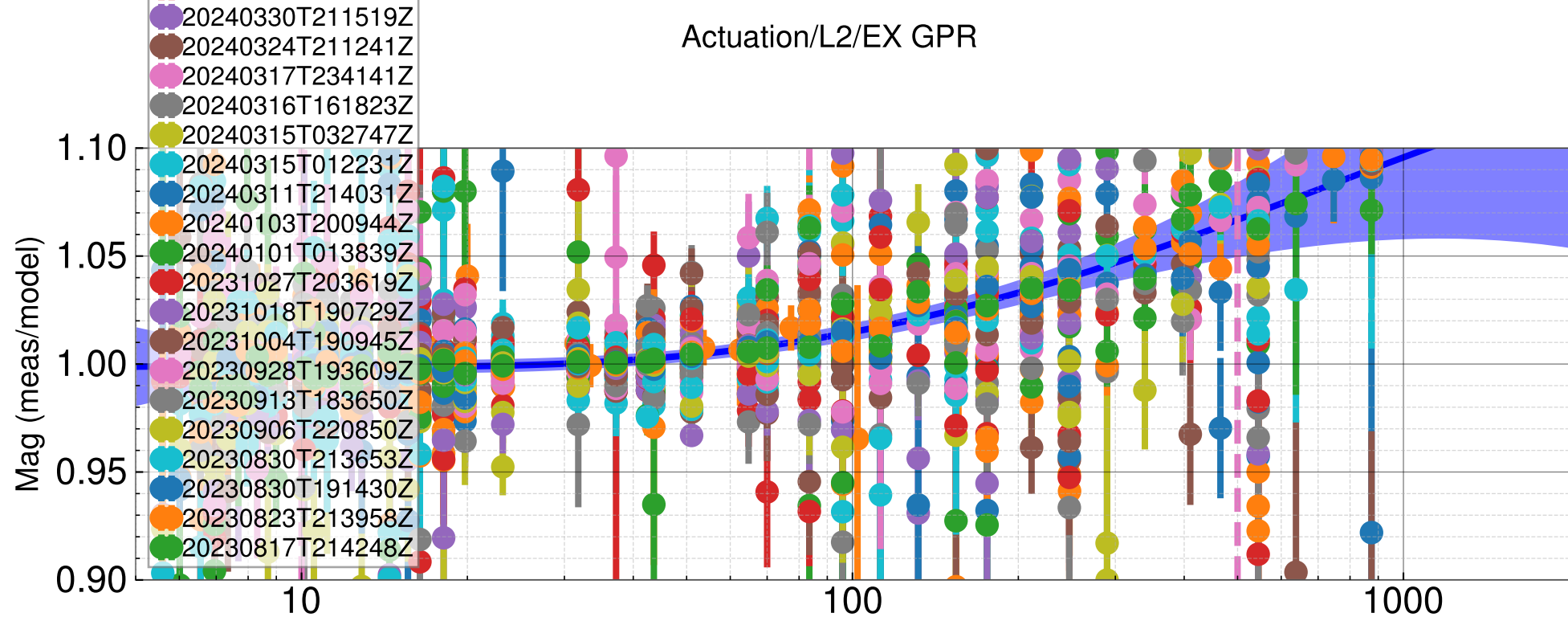
Actuation strength residuals
(meas./model w. free params)



Actuation/L1/EX GPR



Actuation/L2/EX GPR



Actuation/L3/EX GPR

