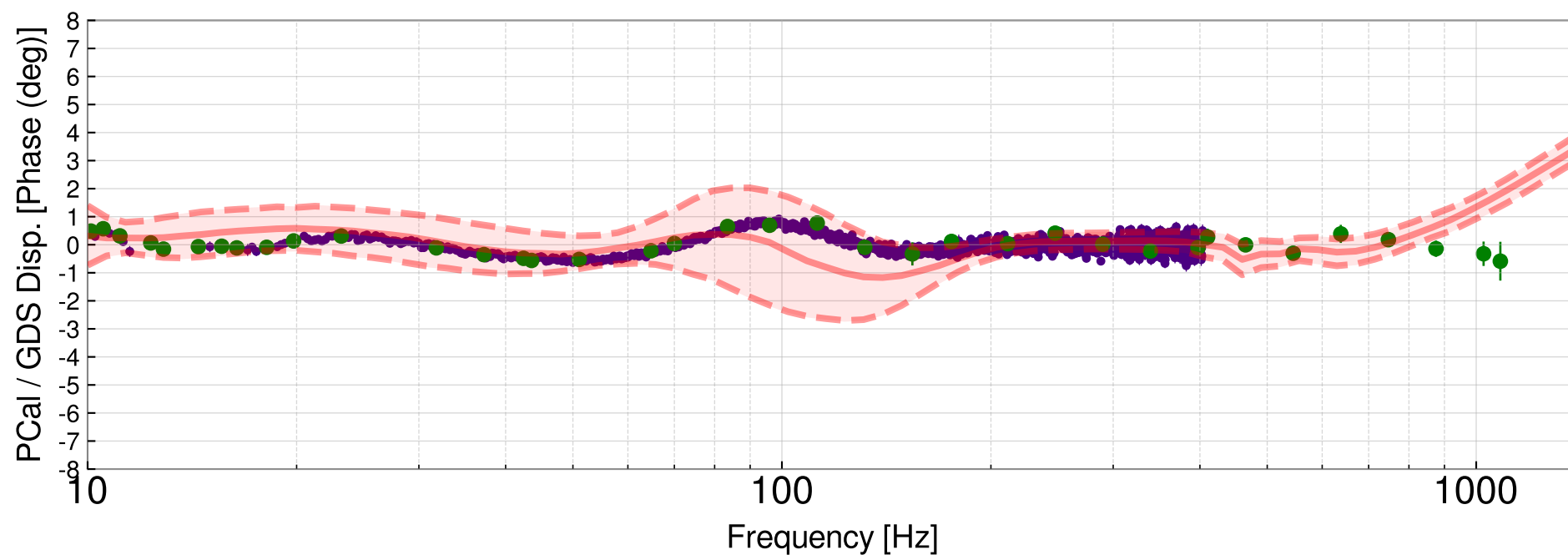
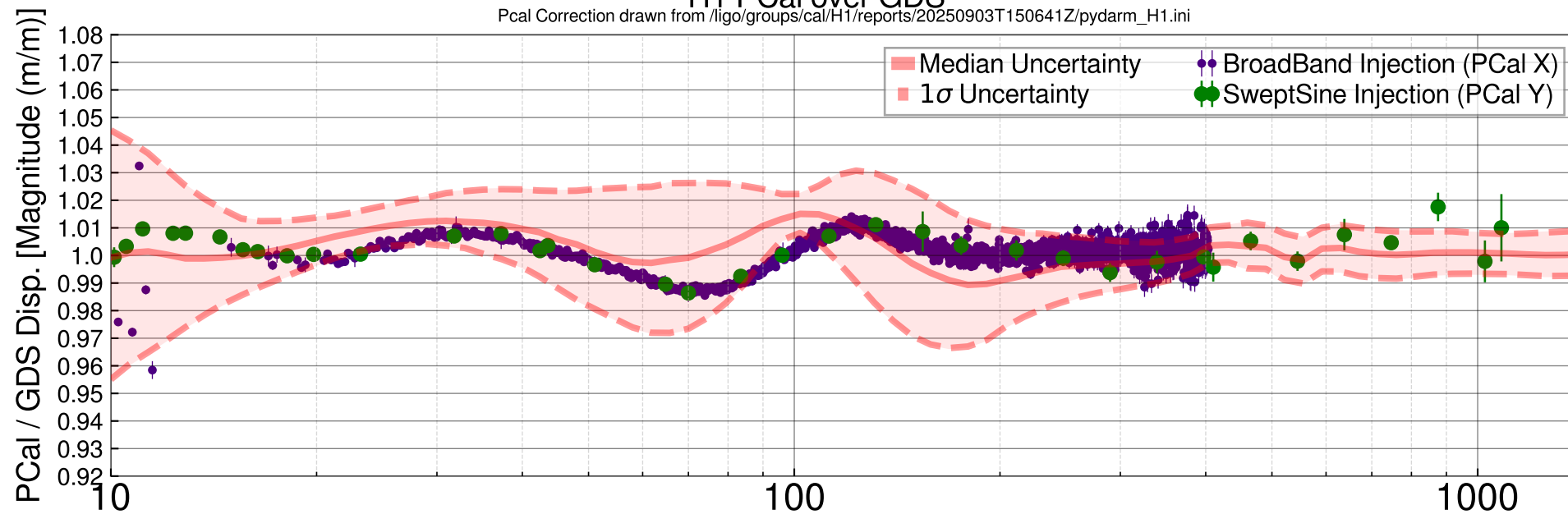


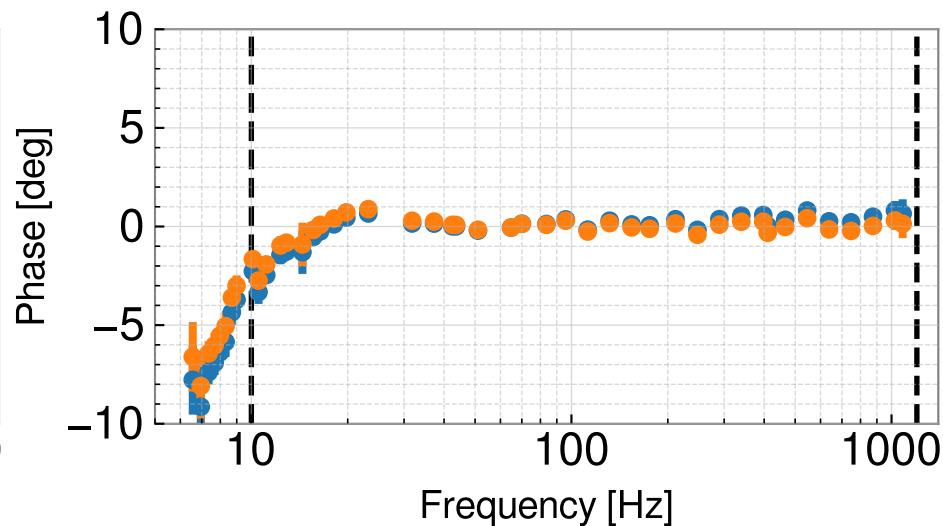
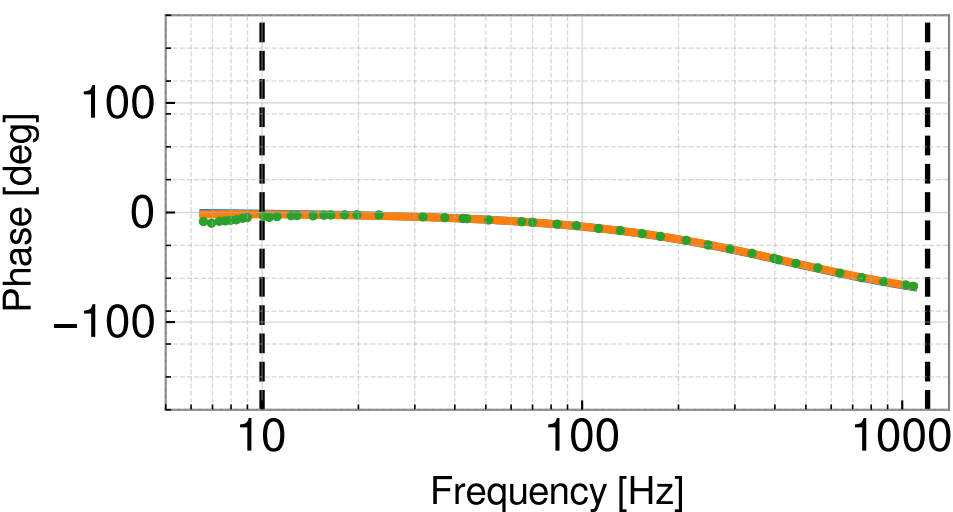
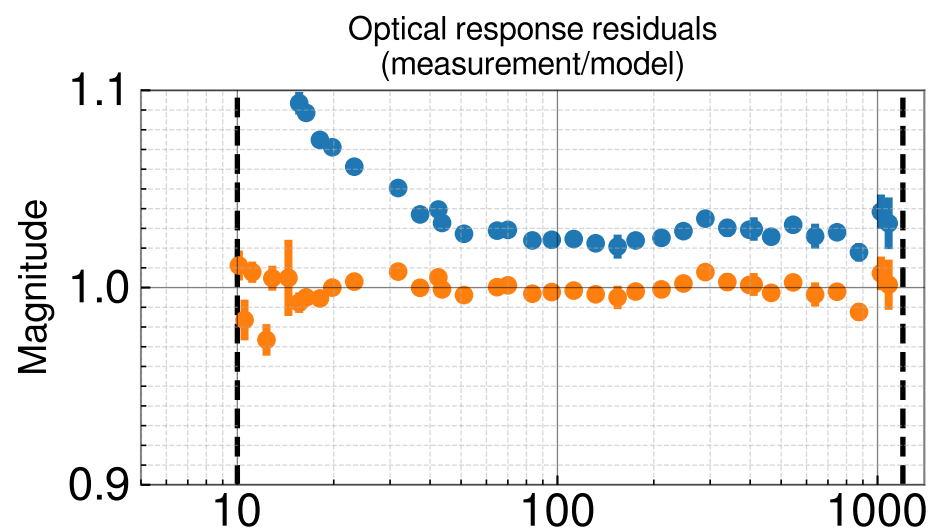
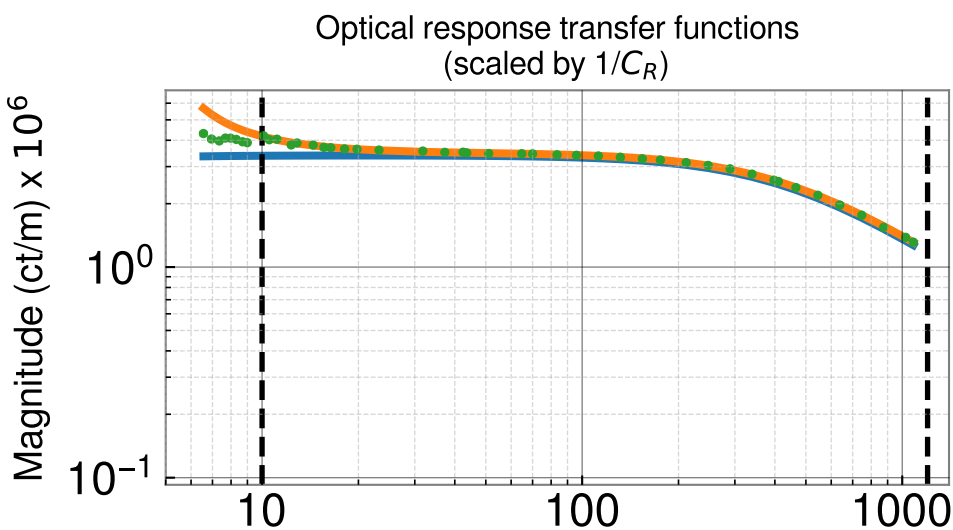
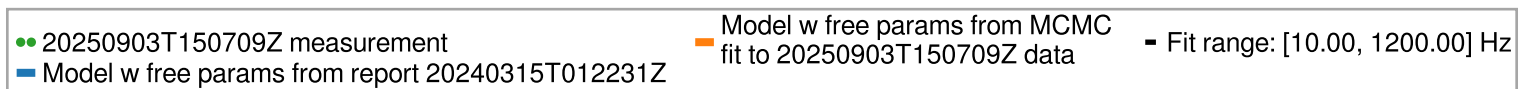
H1 PCal over GDS

Pcal Correction drawn from /ligo/groups/cal/H1/reports/20250903T150641Z/pydarm_H1.ini



H1 sensing model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250903T150641Z/pydarm_H1.ini

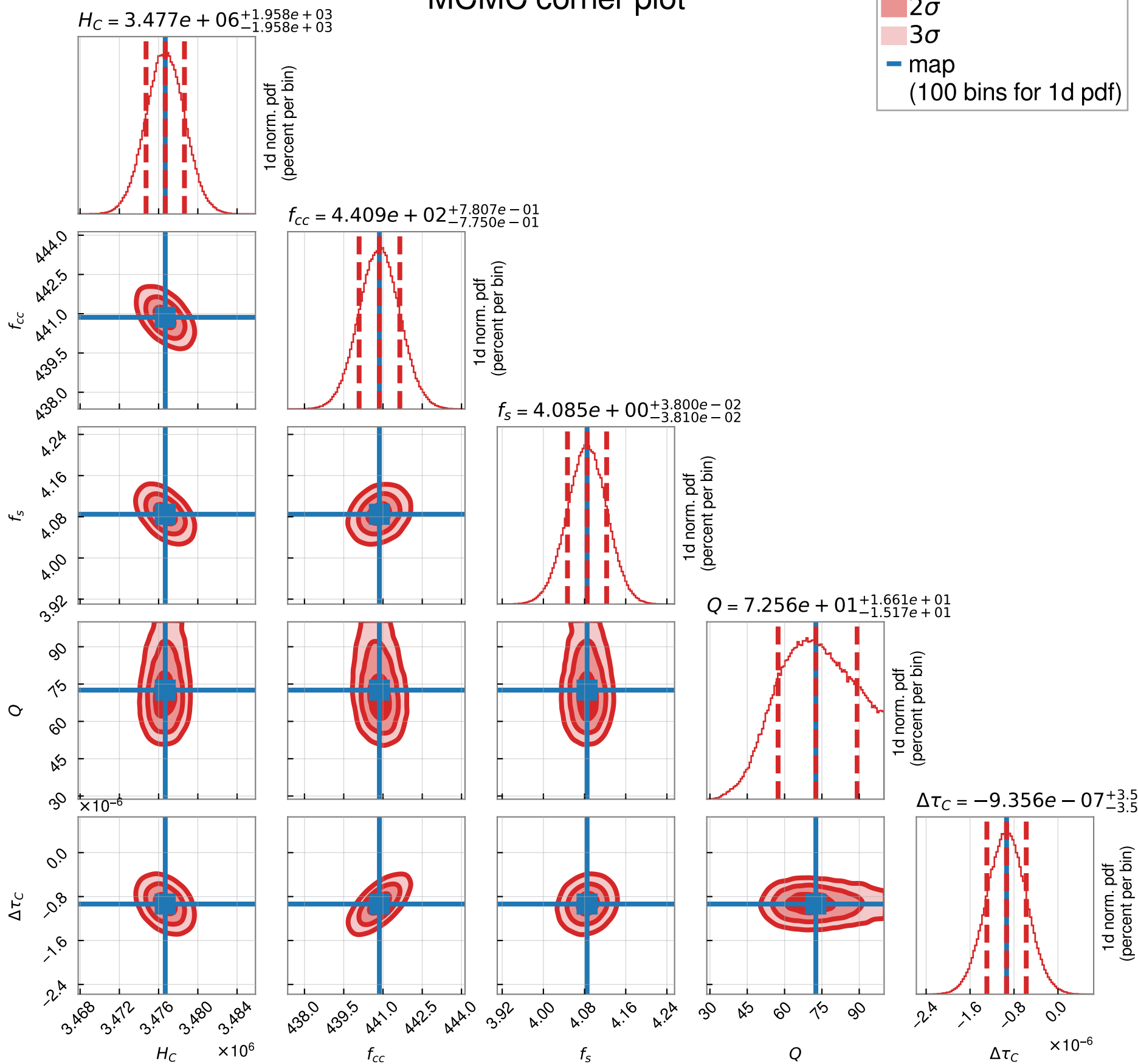


Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.477e+06	1958 (0.06%)	1958 (0.06%)
Cavity_pole, f_cc (Hz)	440.9	0.7807 (0.18%)	0.775 (0.18%)
Detuned SRC spring frequency, f_s (Hz)	4.085	0.038 (0.93%)	0.0381 (0.93%)
Detuned SRC spring quality factor, Q_s	72.56	16.61 (22.89%)	15.17 (20.91%)
Residual time delay, tau_c (s)	-9.356e-07	3.585e-07 (-38.31%)	3.585e-07 (-38.32%)

2d pdf contours

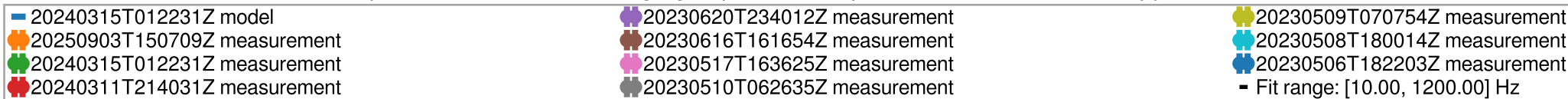
- 1σ
- 2σ
- 3σ
- map

(100 bins for 1d pdf)

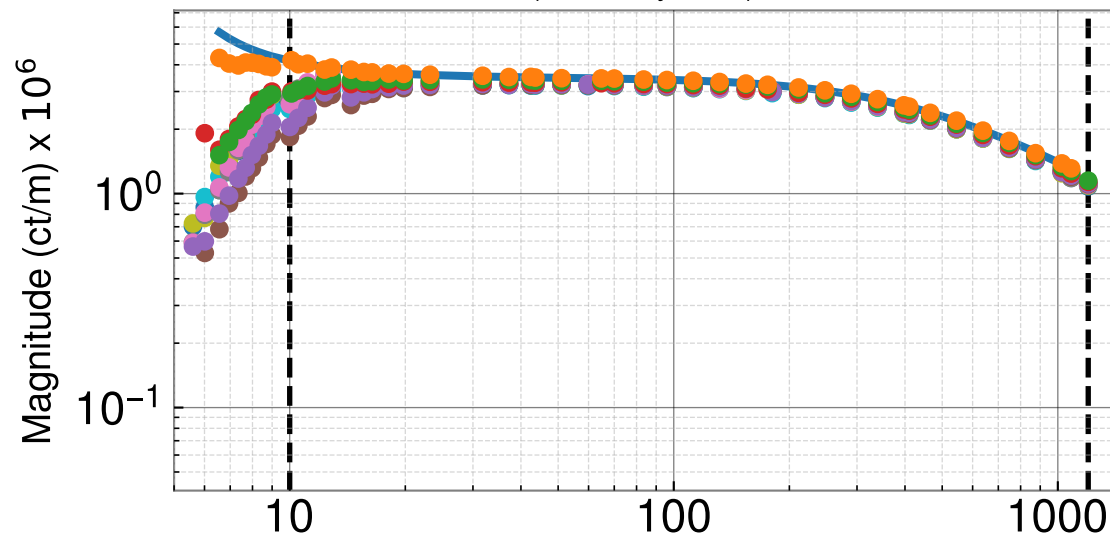


H1 sensing model history (last 9 measurements)

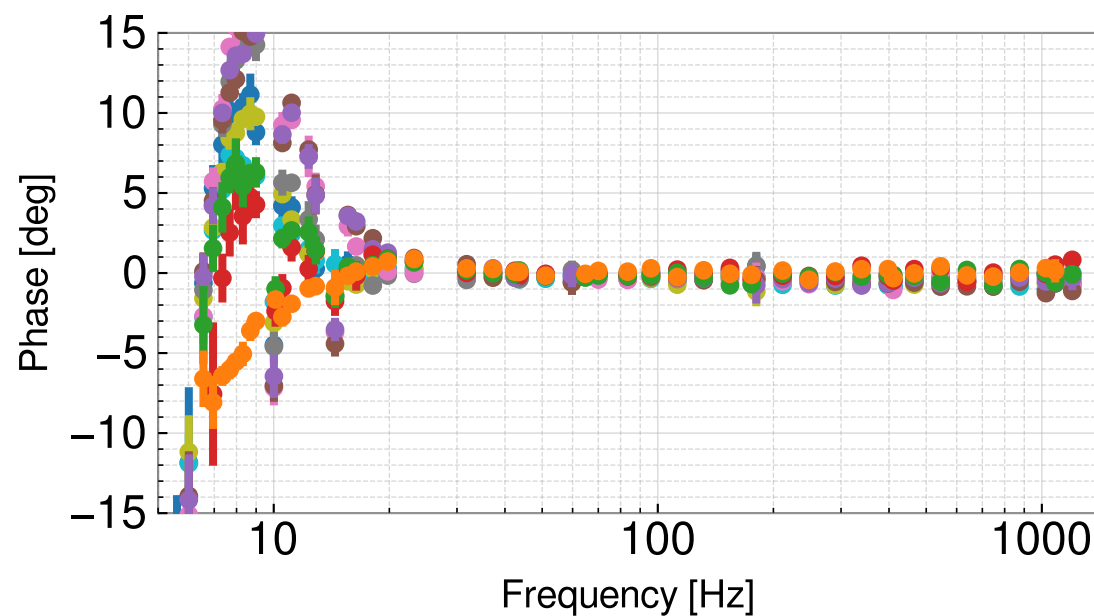
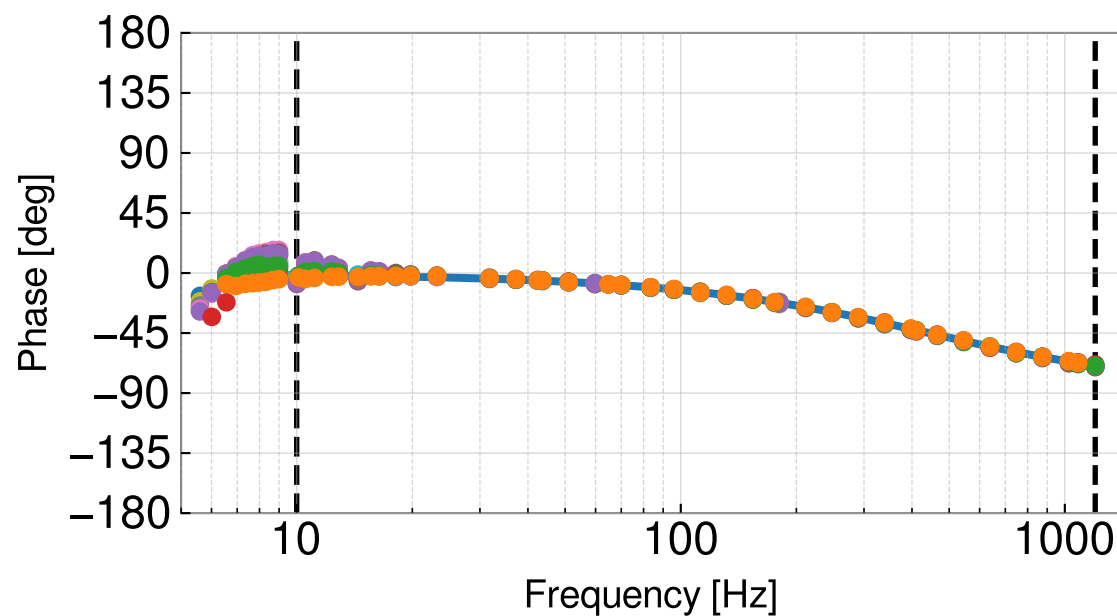
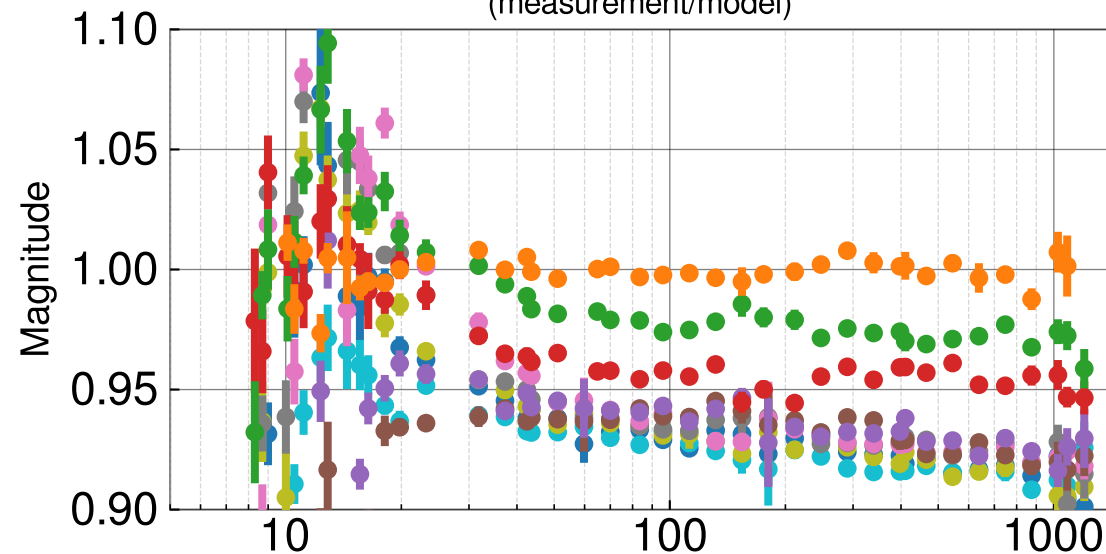
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250903T150641Z/pydarm_H1.ini



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

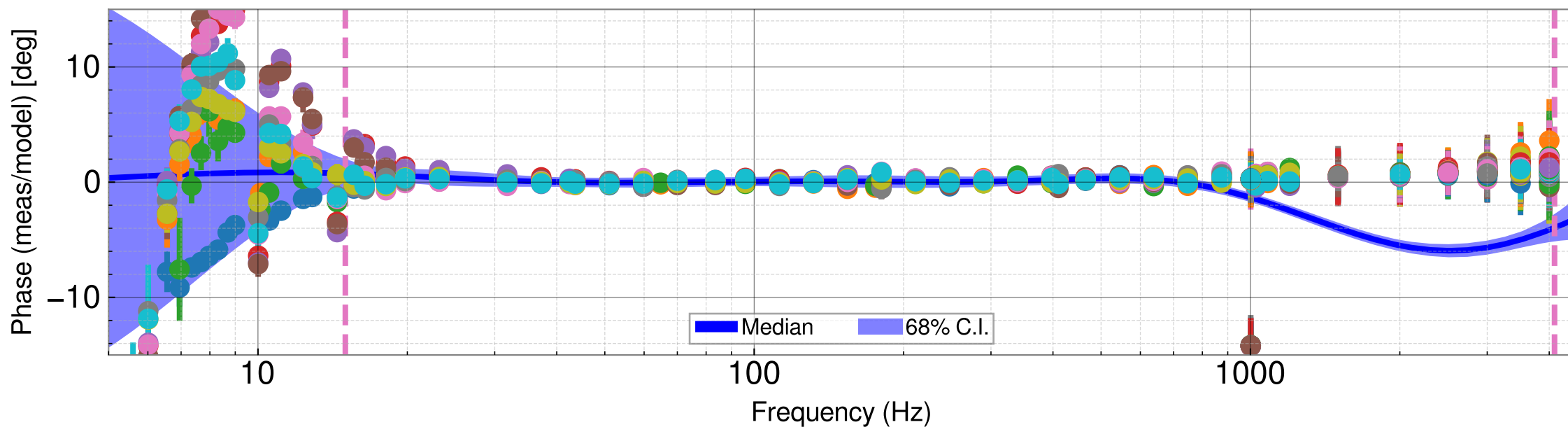
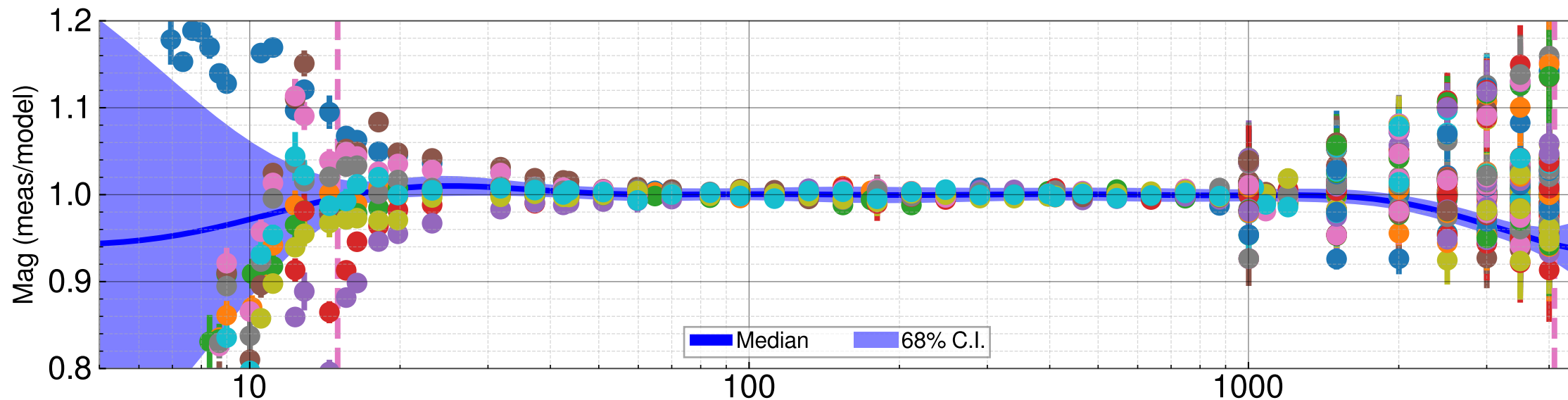


Optical response residuals
(measurement/model)



Sensing GPR

● meas. 20250903T150709Z of report 20250903T150641Z ● meas. 20230616T163421Z of report 20230616T161654Z ● meas. 20230509T061135Z of report 20230509T070754Z
 ● meas. 20240315T012251Z of report 20240315T012231Z ● meas. 20230517T154006Z of report 20230517T163625Z ● meas. 20230508T170355Z of report 20230508T180014Z
 ● meas. 20240311T214051Z of report 20240311T214031Z ● meas. 20230510T064402Z of report 20230510T062635Z ● meas. 20230506T172544Z of report 20230506T182203Z
 ● meas. 20230620T235739Z of report 20230620T234012Z

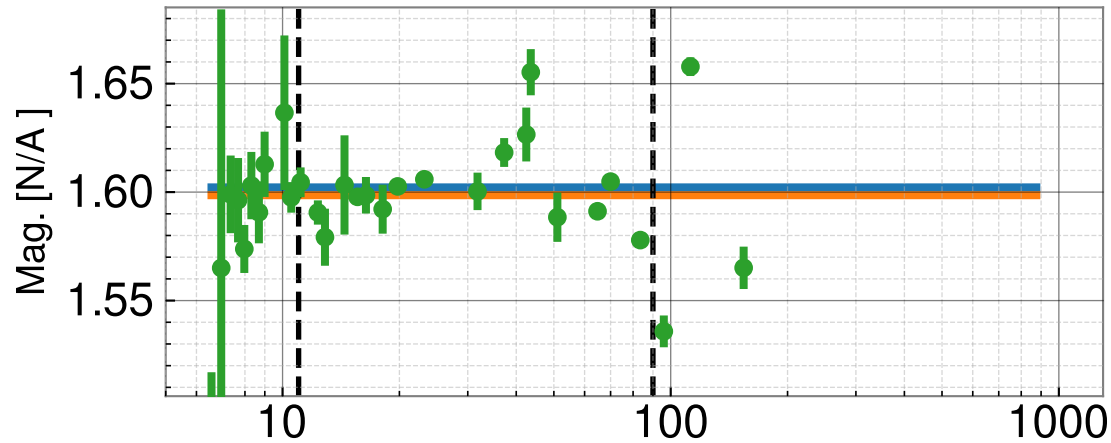


H1SUSEX L1 actuation model MCMC summary

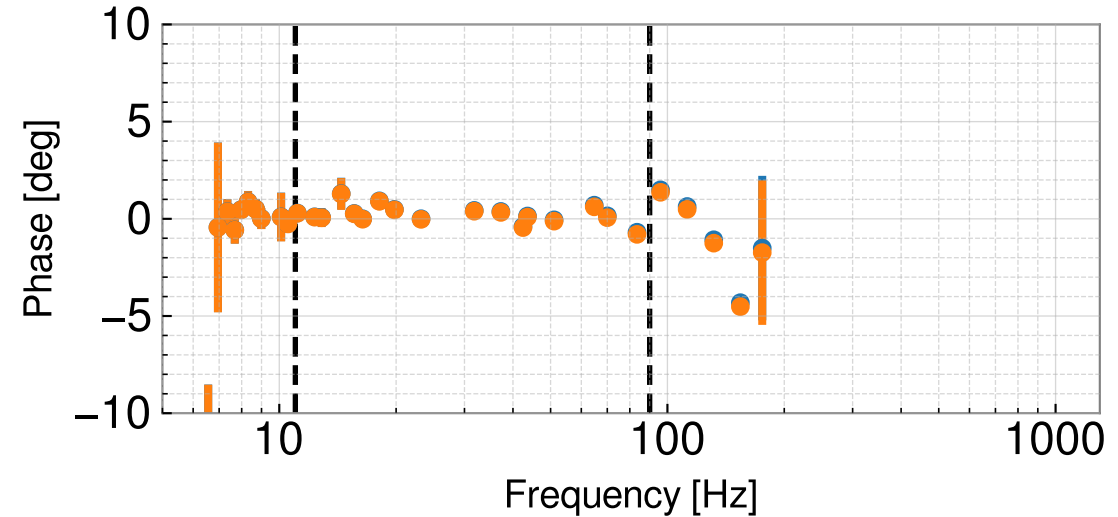
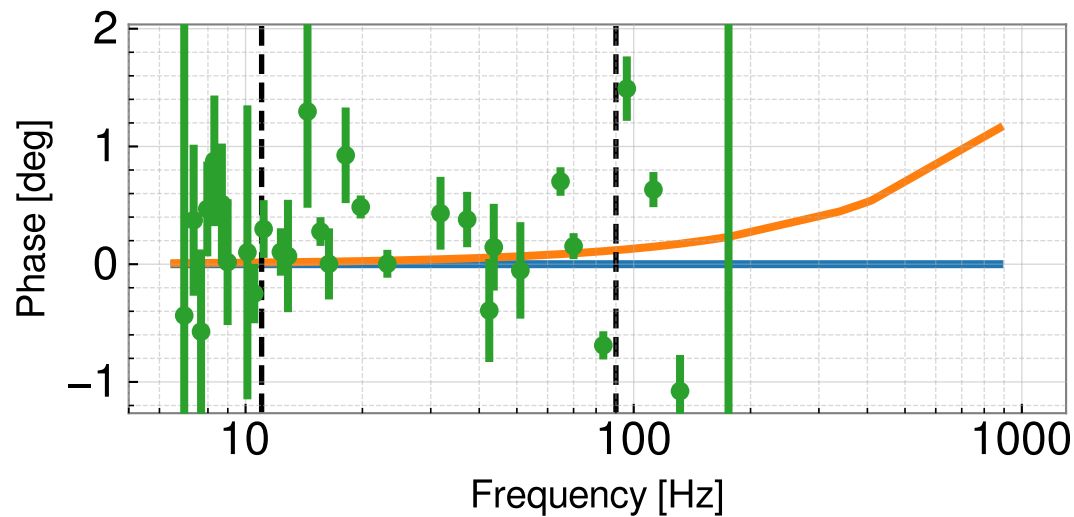
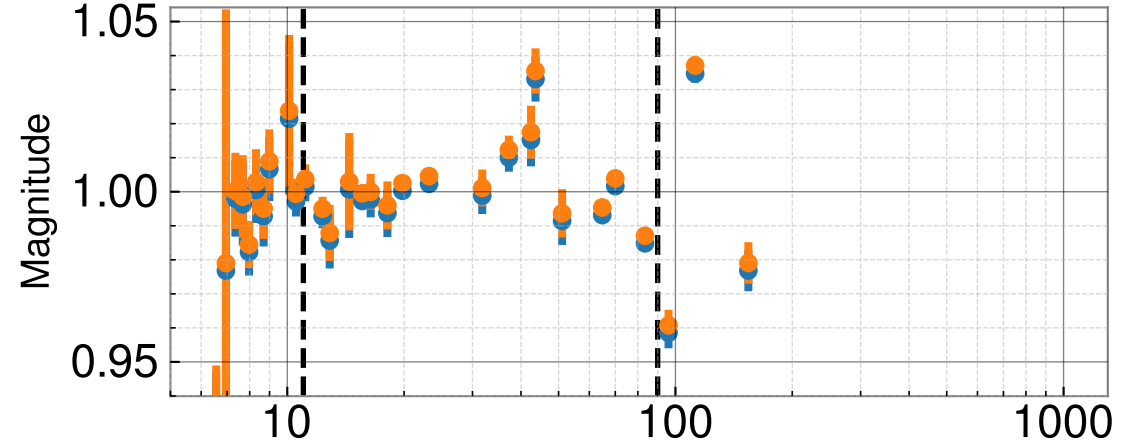
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250903T150641Z/pydarm_H1.ini



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

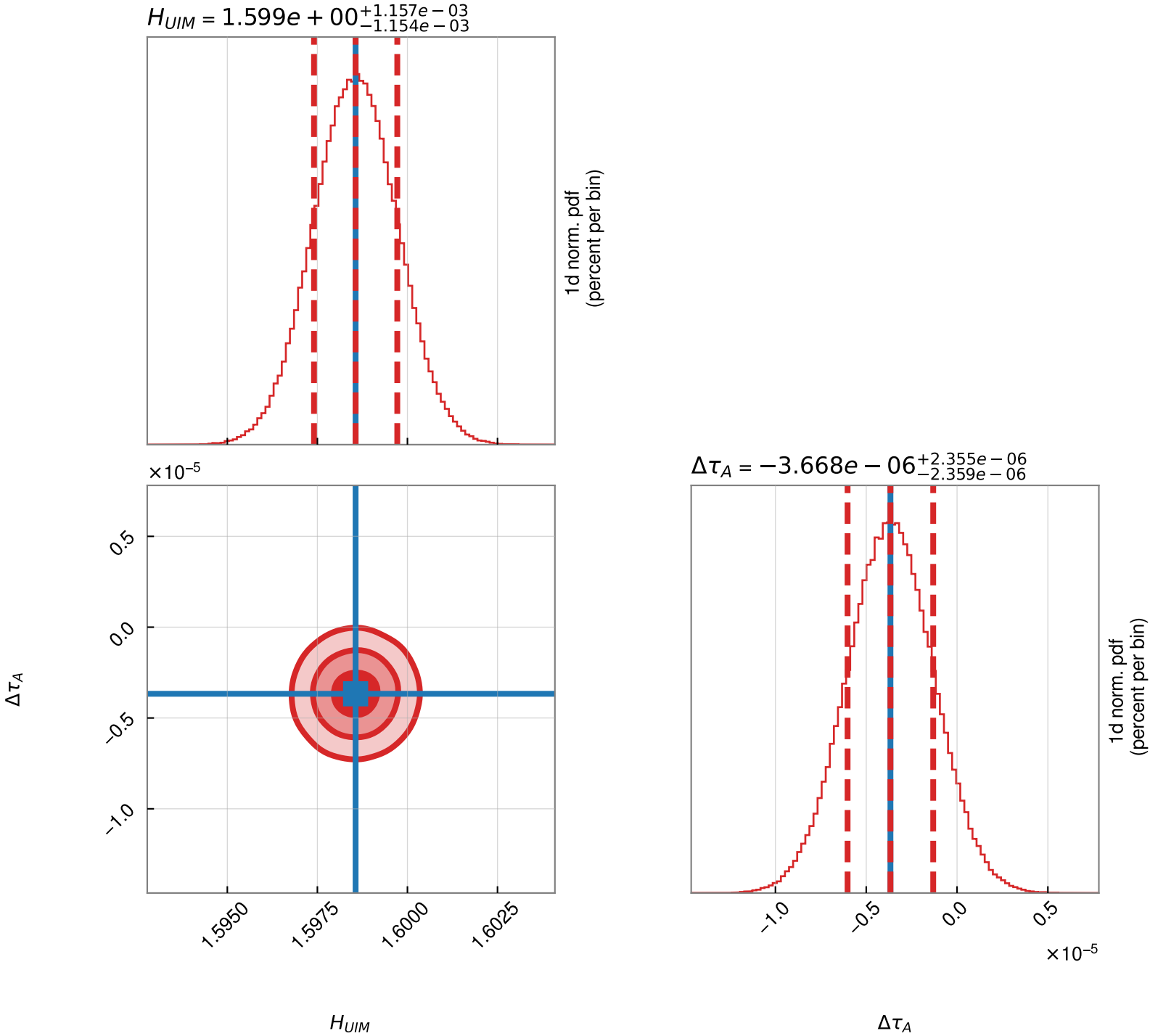
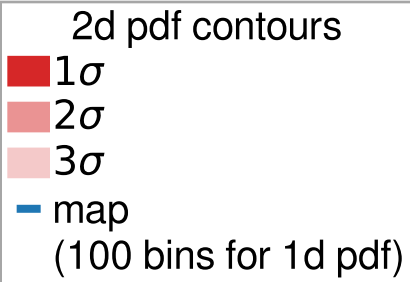


Actuation strength residuals
(meas./model w. free params)



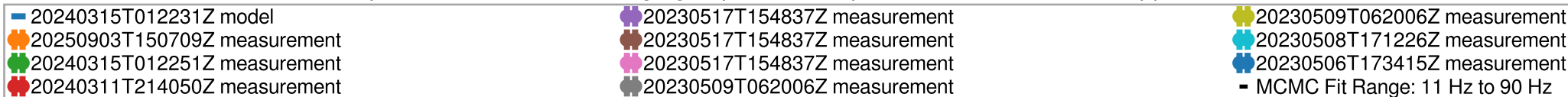
Parameter	(value +/-) value	+	-
Actuation Gain, Hau (N/A)	1.599	0.001157 (0.07%)	0.001154 (0.07%)
Residual time delay, tau_A (s)	-3.668e-06	2.355e-06 (-64.21%)	2.359e-06 (-64.31%)

20250903T150709Z EX L1 actuation
MCMC corner plot

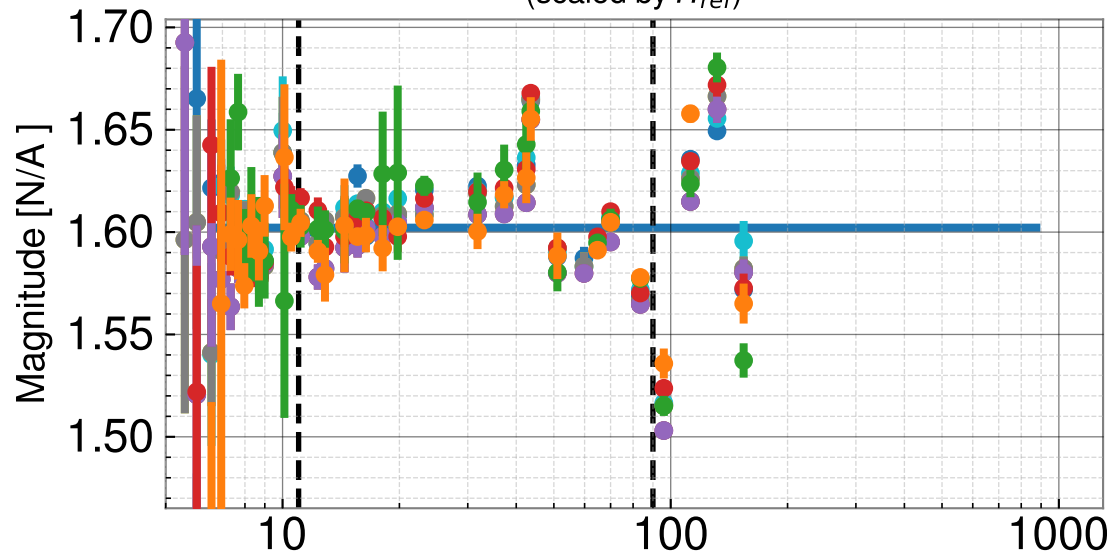


H1SUSEX L1 actuation model history (last 9 measurements)

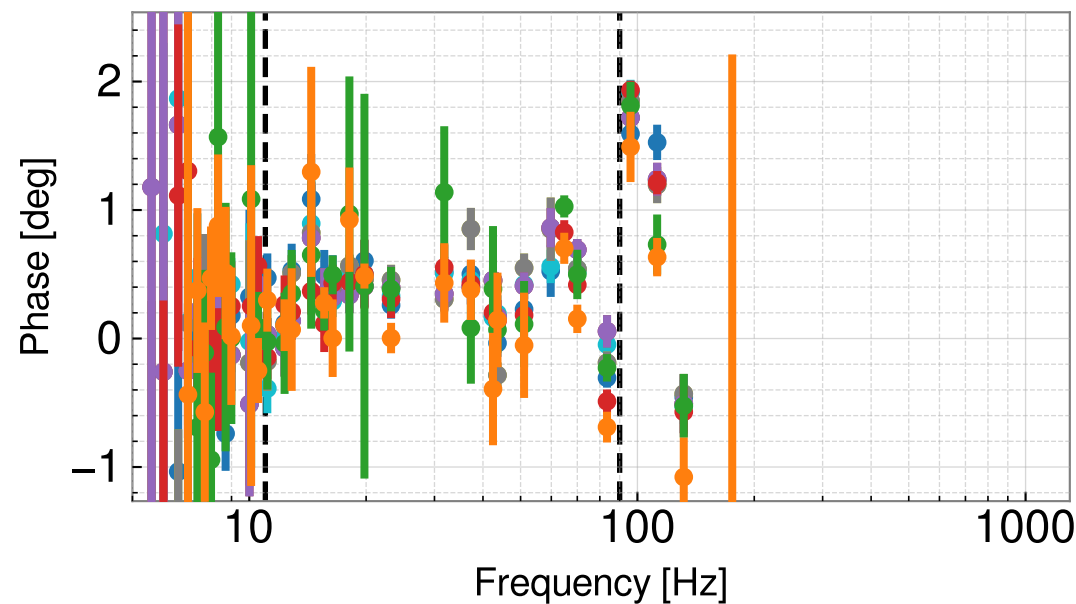
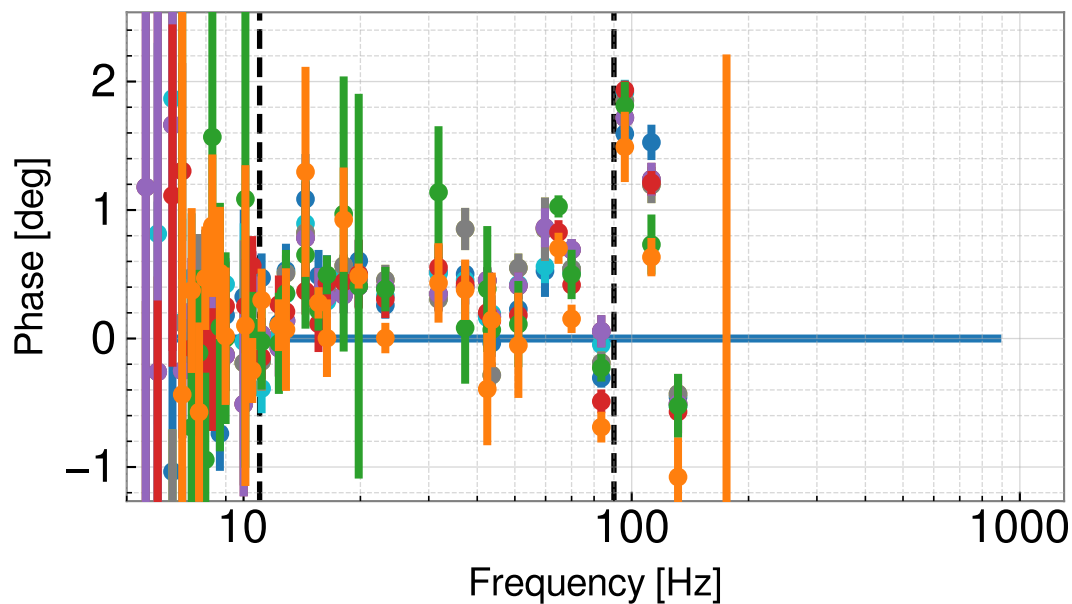
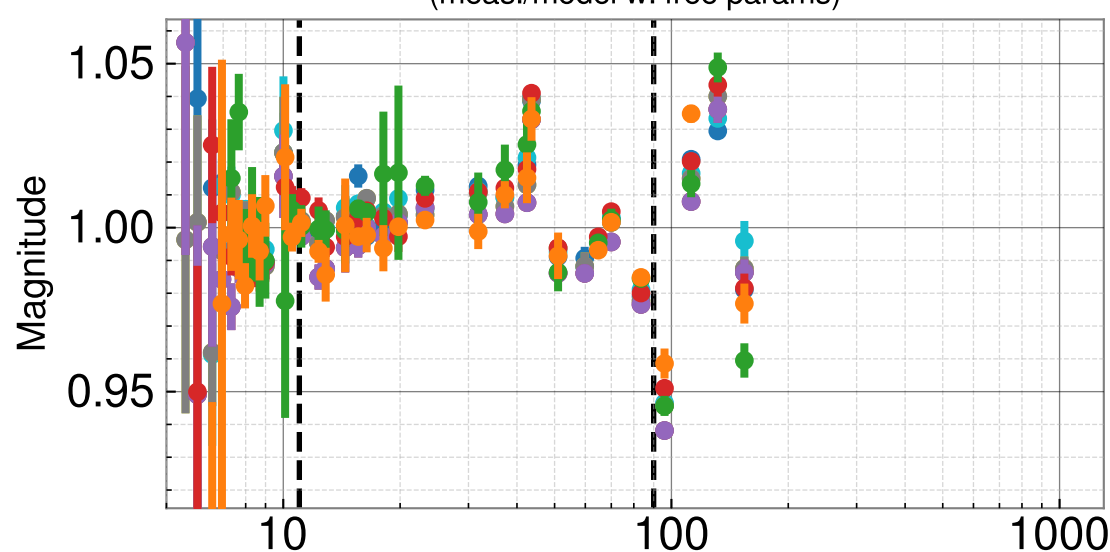
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250903T150641Z/pydarm_H1.ini



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

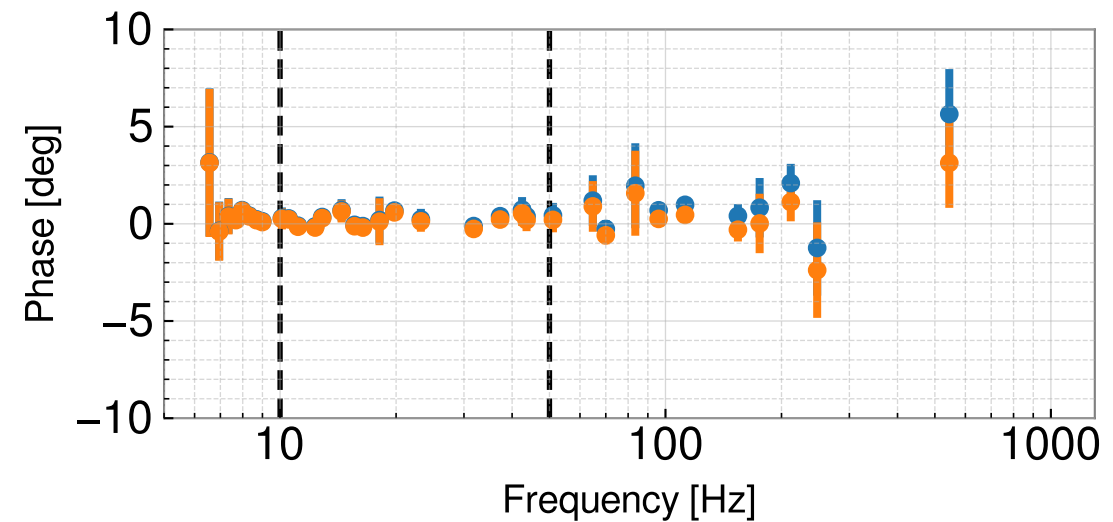
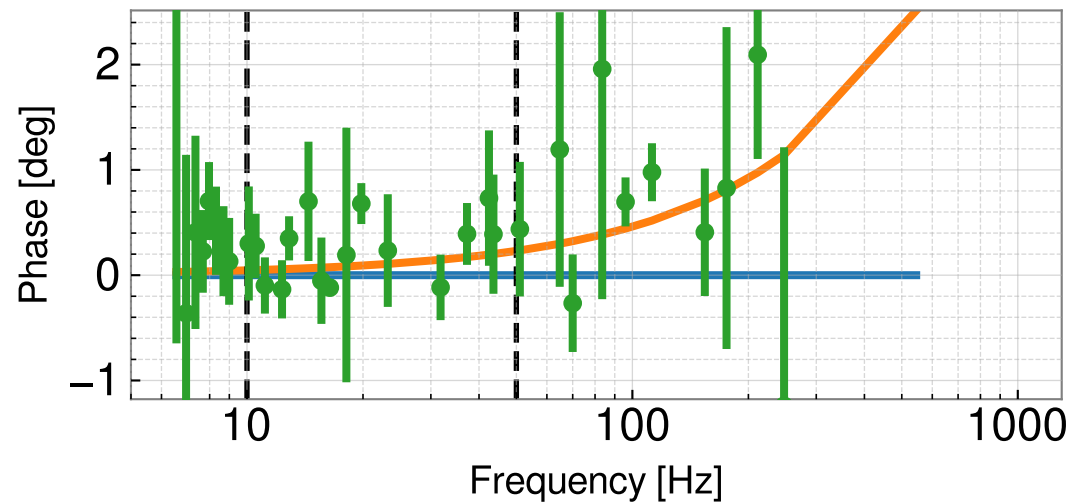
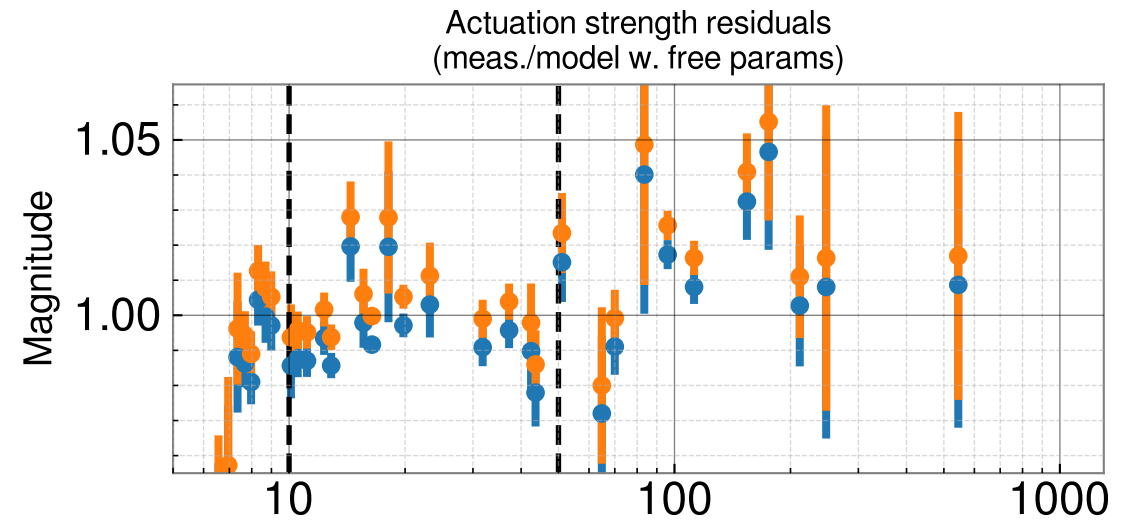
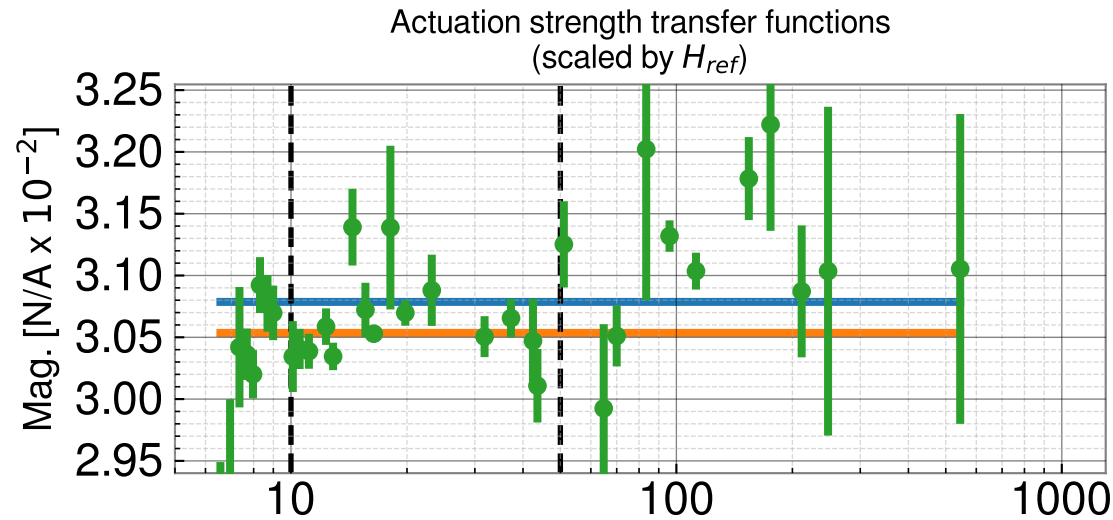


Actuation strength residuals
(meas./model w. free params)



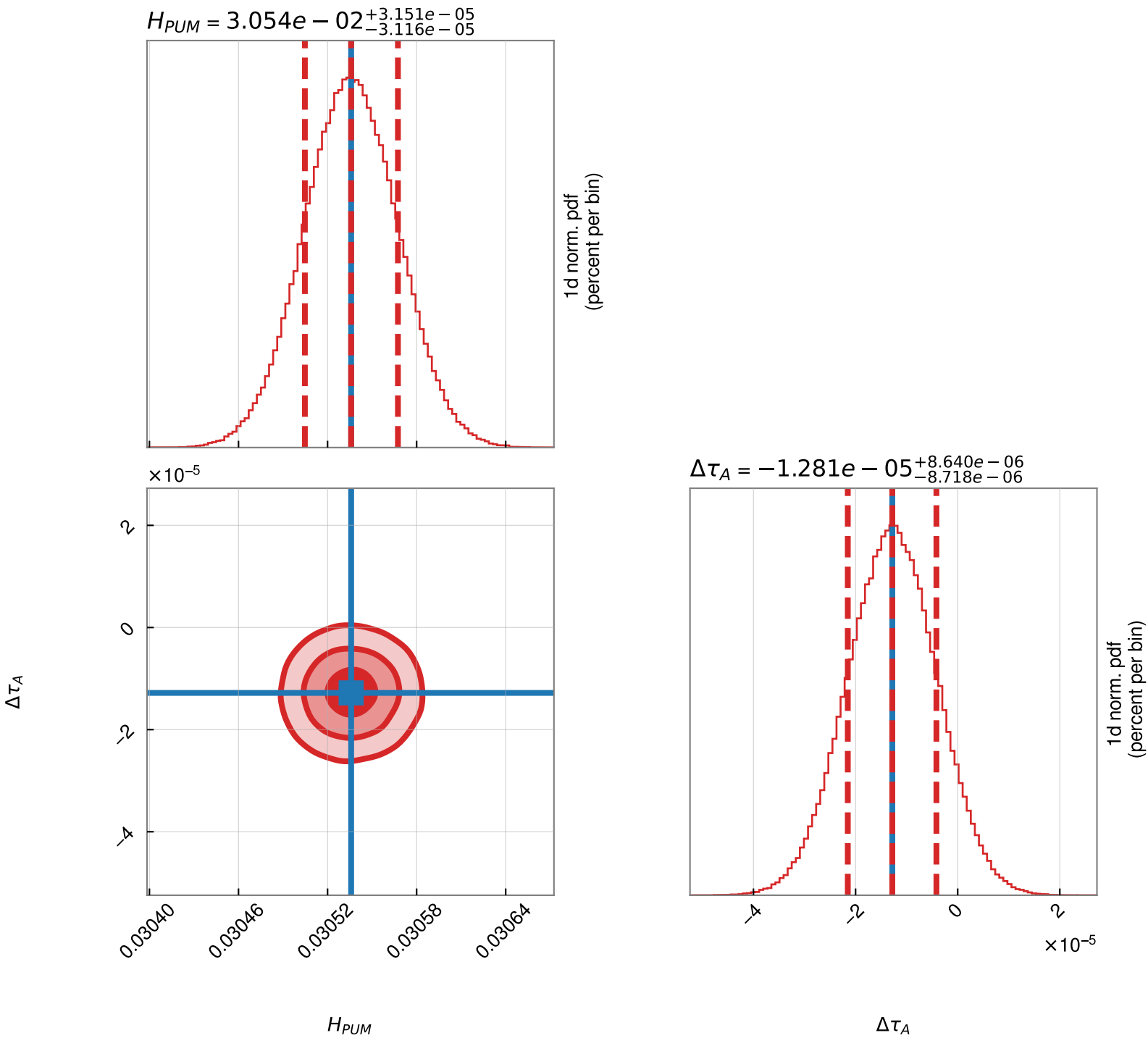
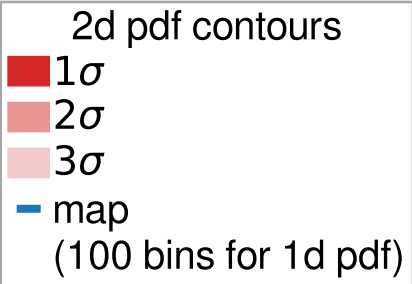
H1SUSEX L2 actuation model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250903T150641Z/pydarm_H1.ini



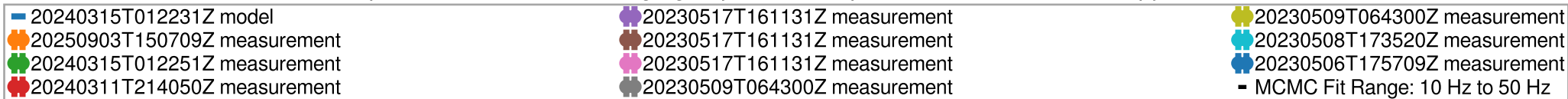
Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.03054	3.151e-05 (0.10%)	3.116e-05 (0.10%)
Residual time delay, tau_A (s)	-1.281e-05	8.64e-06 (-67.45%)	8.718e-06 (-68.06%)

20250903T150709Z EX L2 actuation
MCMC corner plot

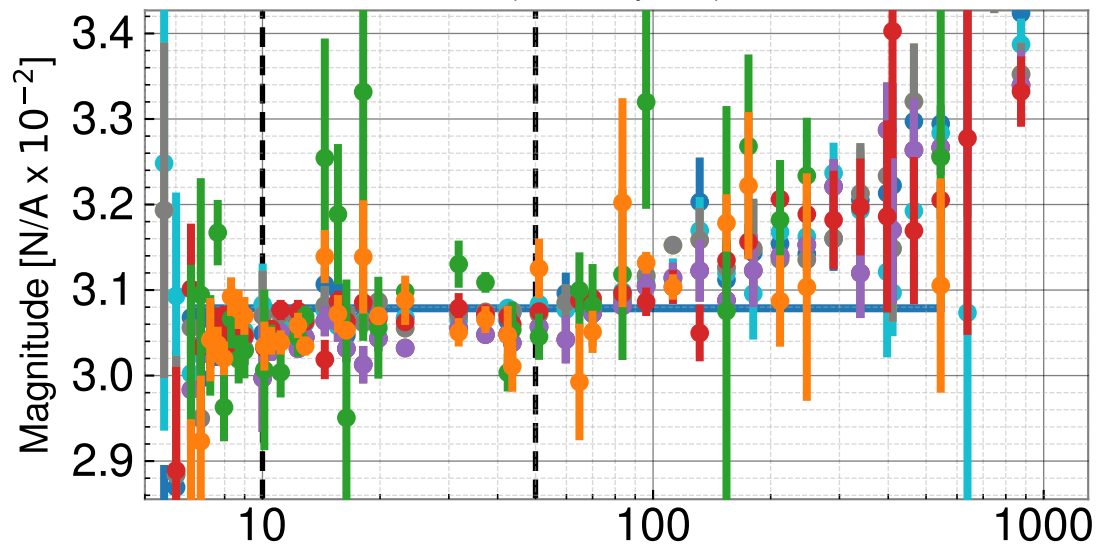


H1SUSEX L2 actuation model history (last 9 measurements)

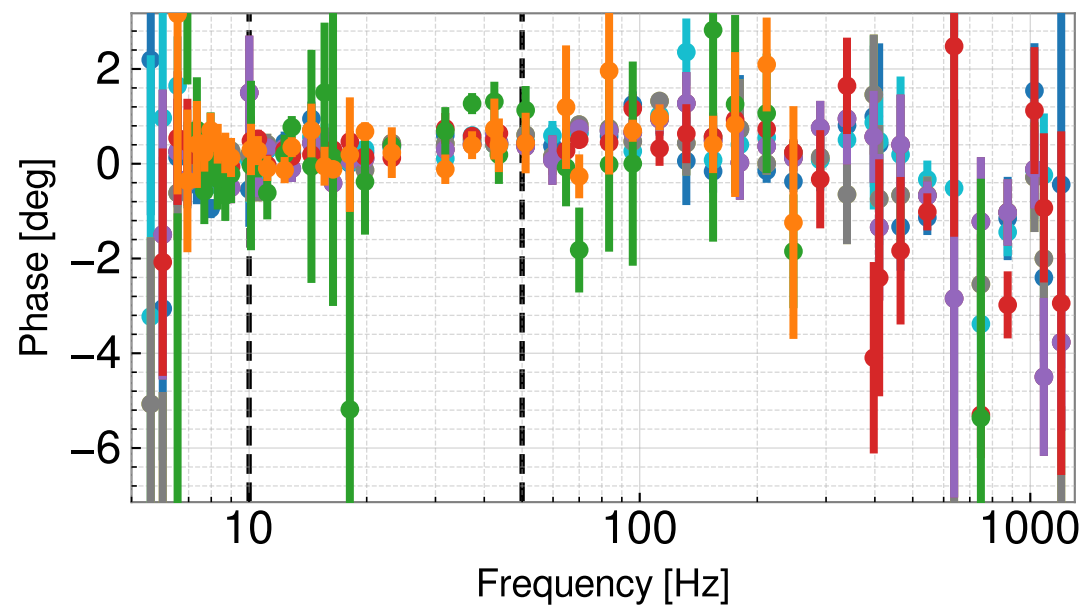
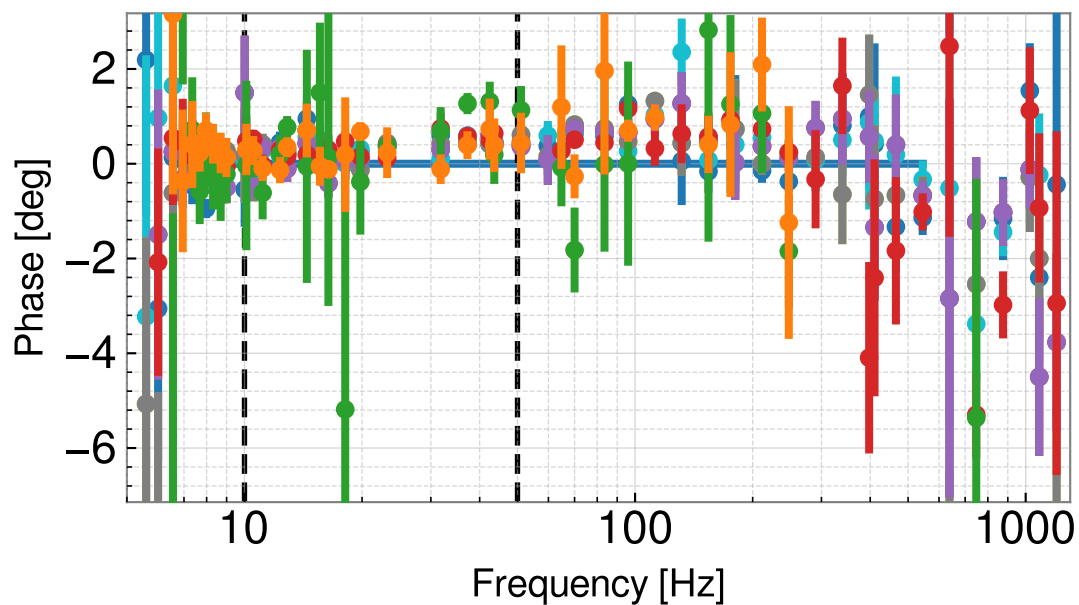
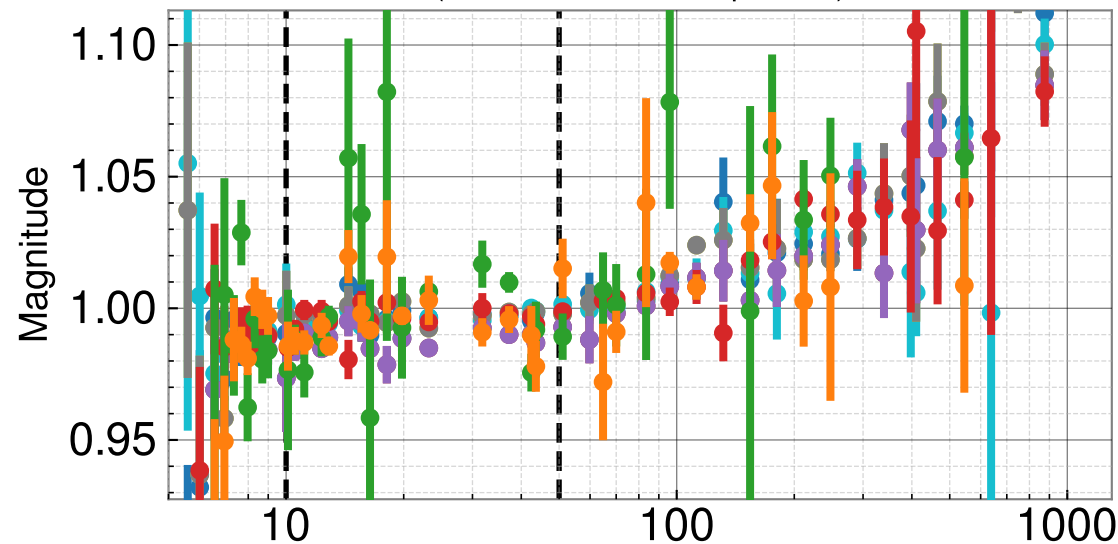
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250903T150641Z/pydarm_H1.ini



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

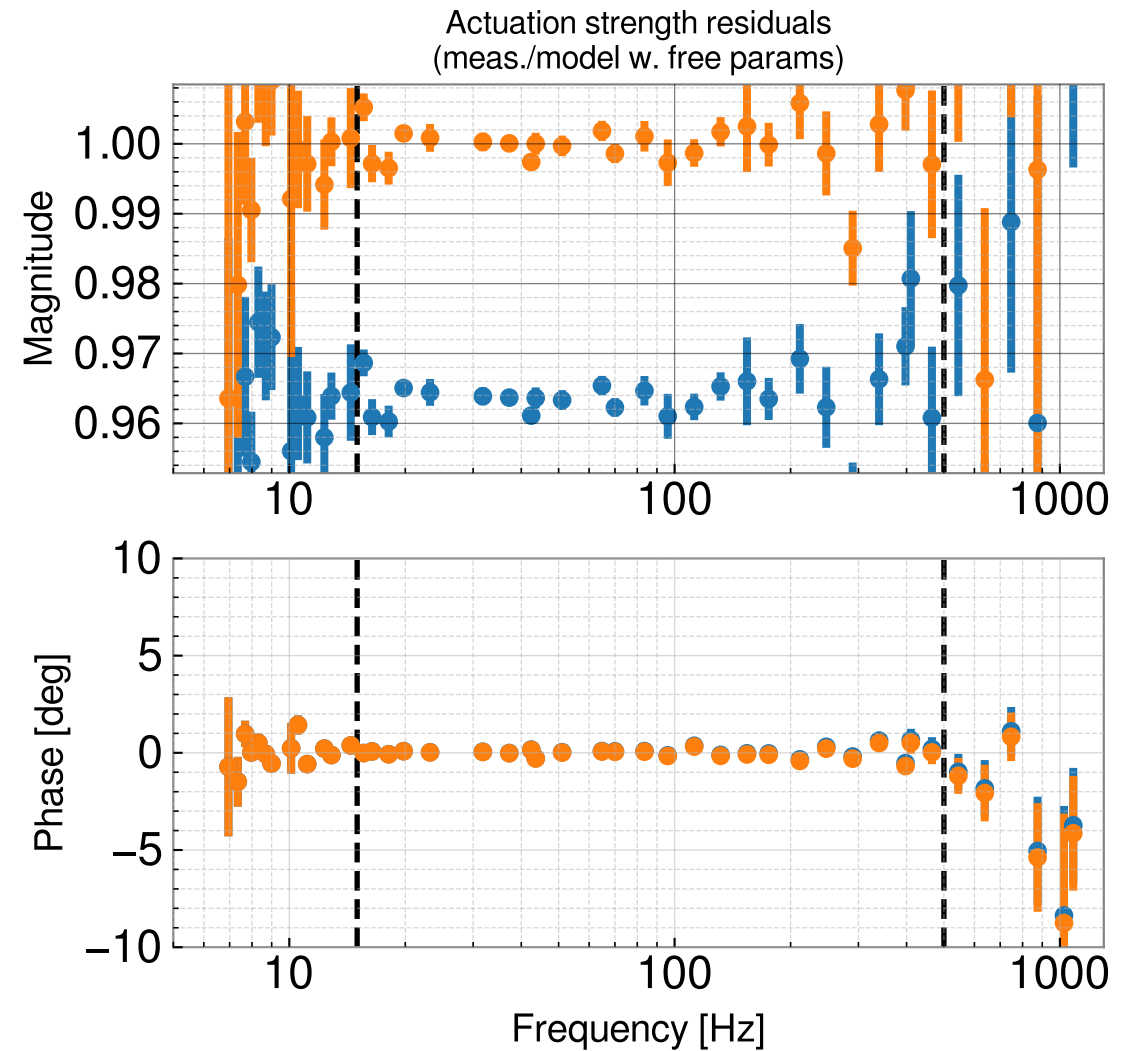
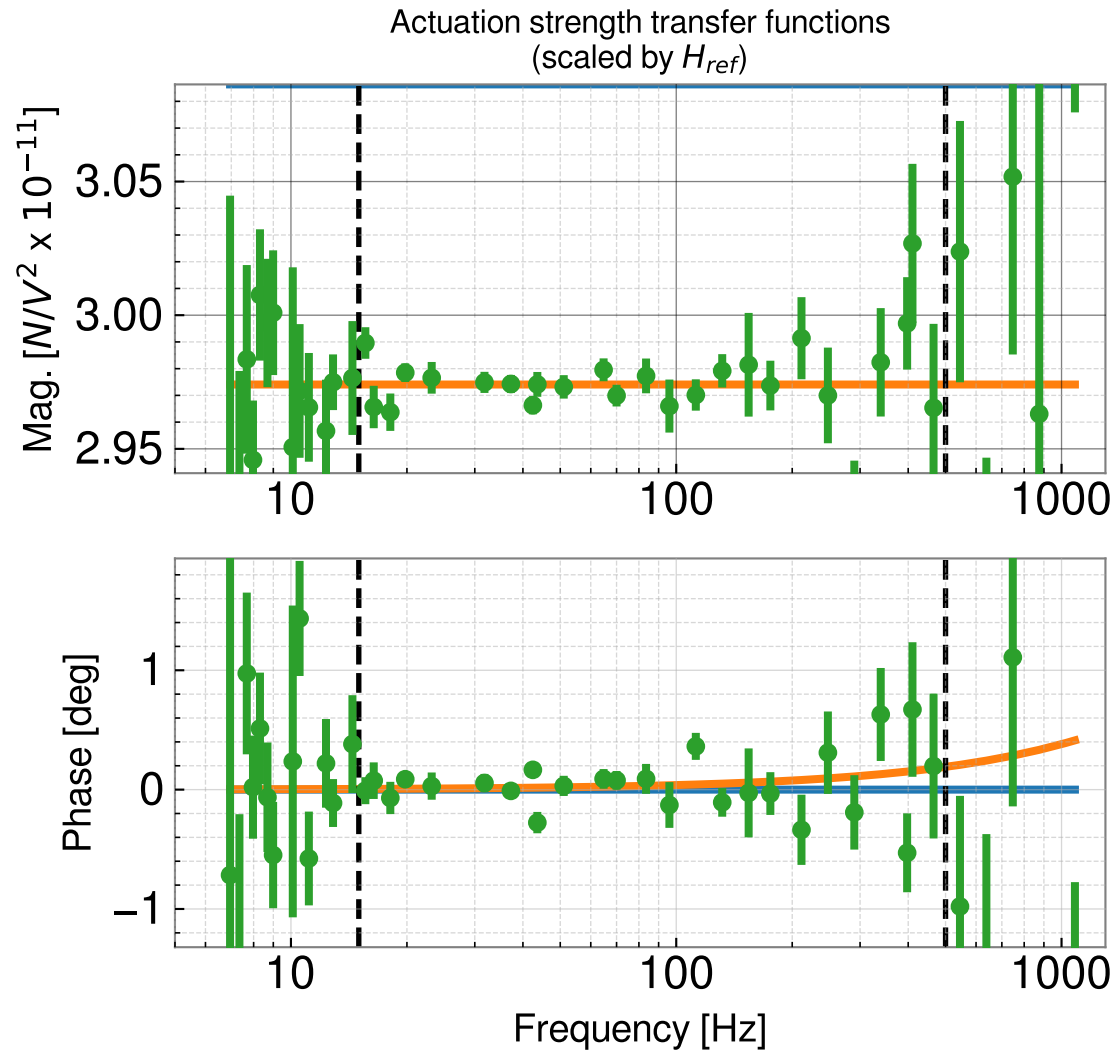


Actuation strength residuals
(meas./model w. free params)



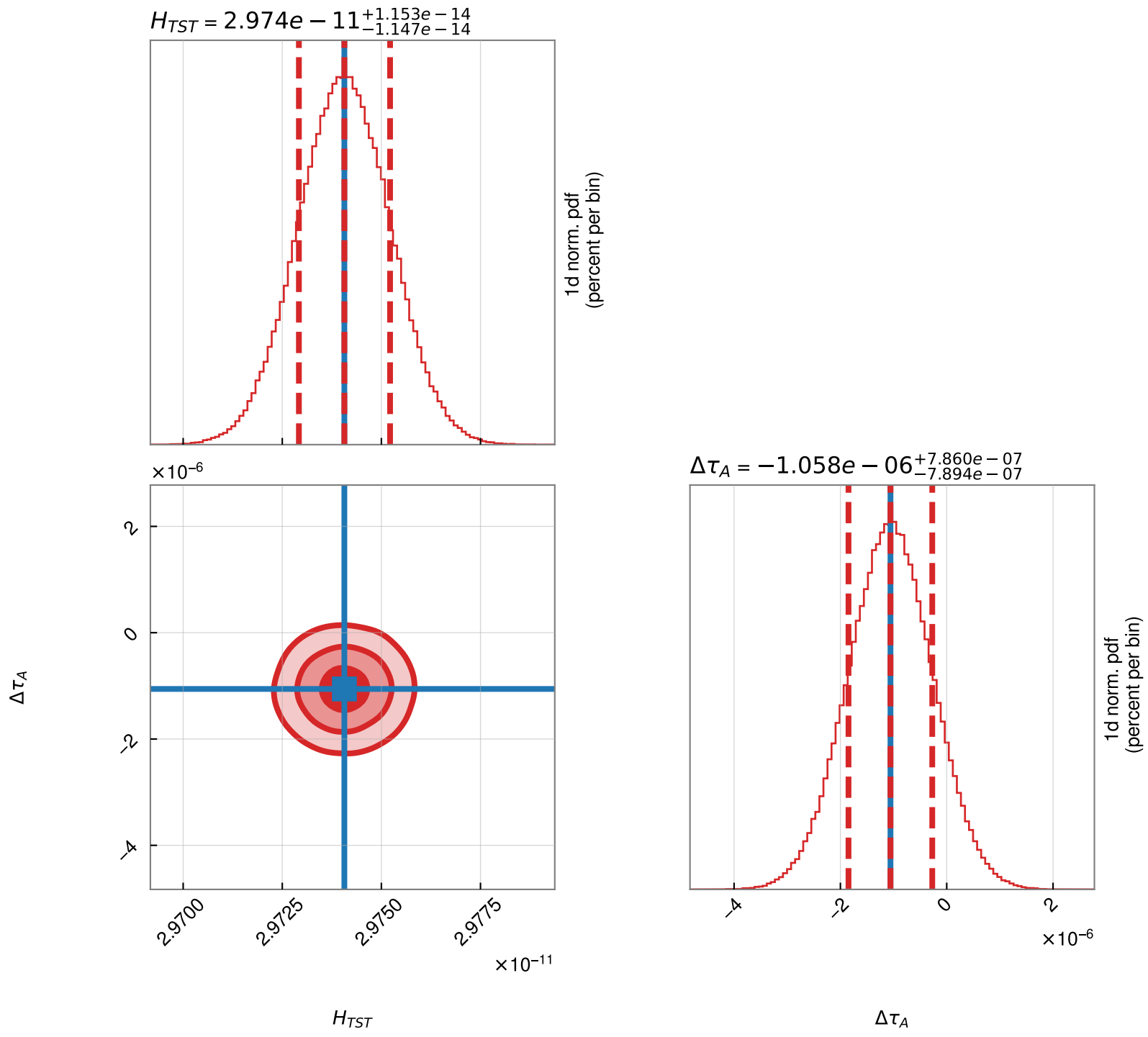
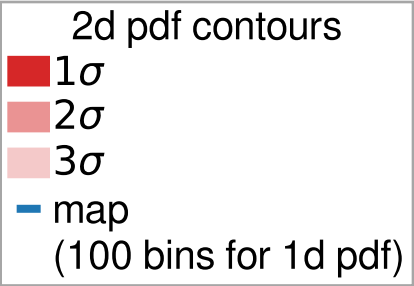
H1SUSEX L3 actuation model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250903T150641Z/pydarm_H1.ini



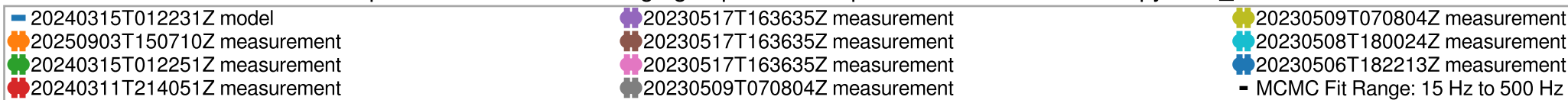
Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V^{**2})	2.974e-11	1.153e-14 (0.04%)	1.147e-14 (0.04%)
Residual time delay, tau_A (s)	-1.058e-06	7.86e-07 (-74.28%)	7.894e-07 (-74.60%)

20250903T150710Z EX L3 actuation
MCMC corner plot

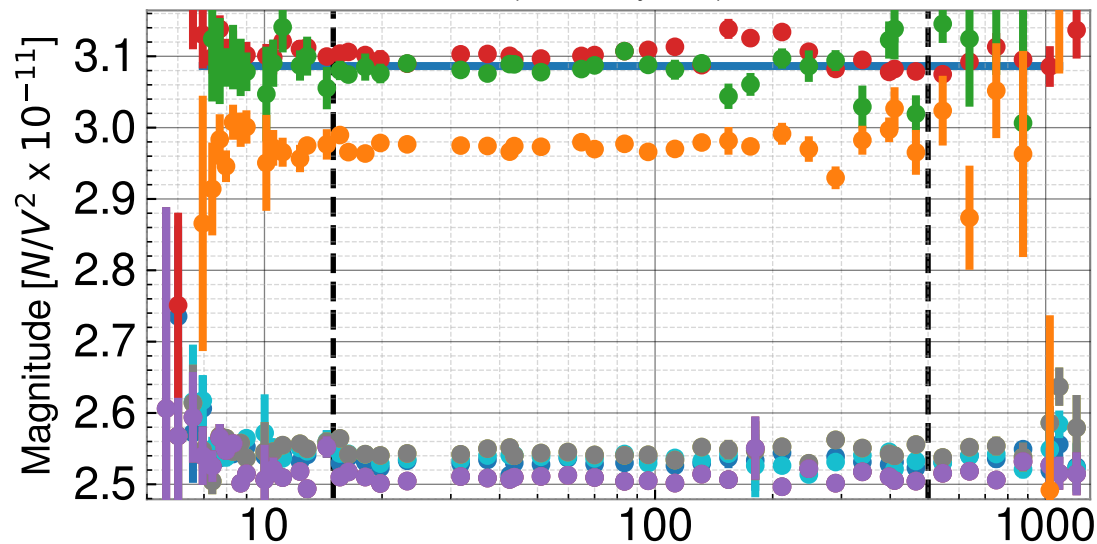


H1SUSEX L3 actuation model history (last 9 measurements)

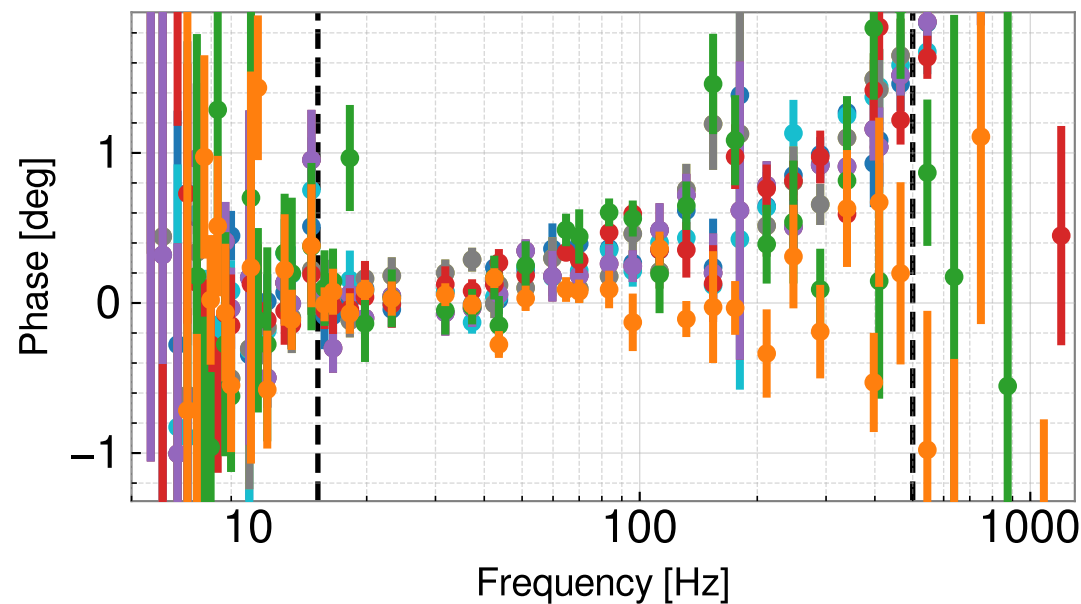
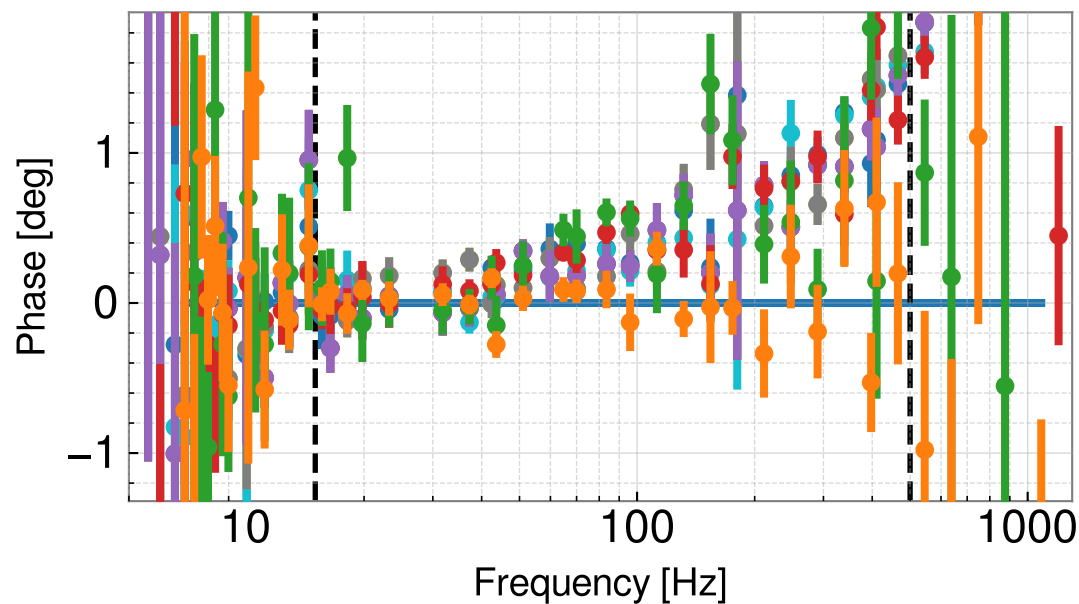
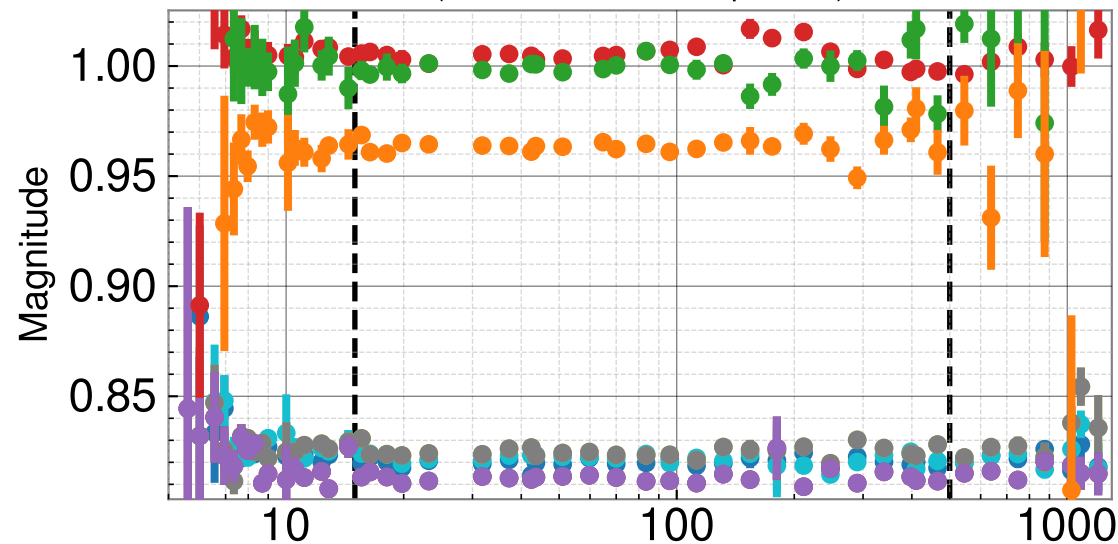
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250903T150641Z/pydarm_H1.ini



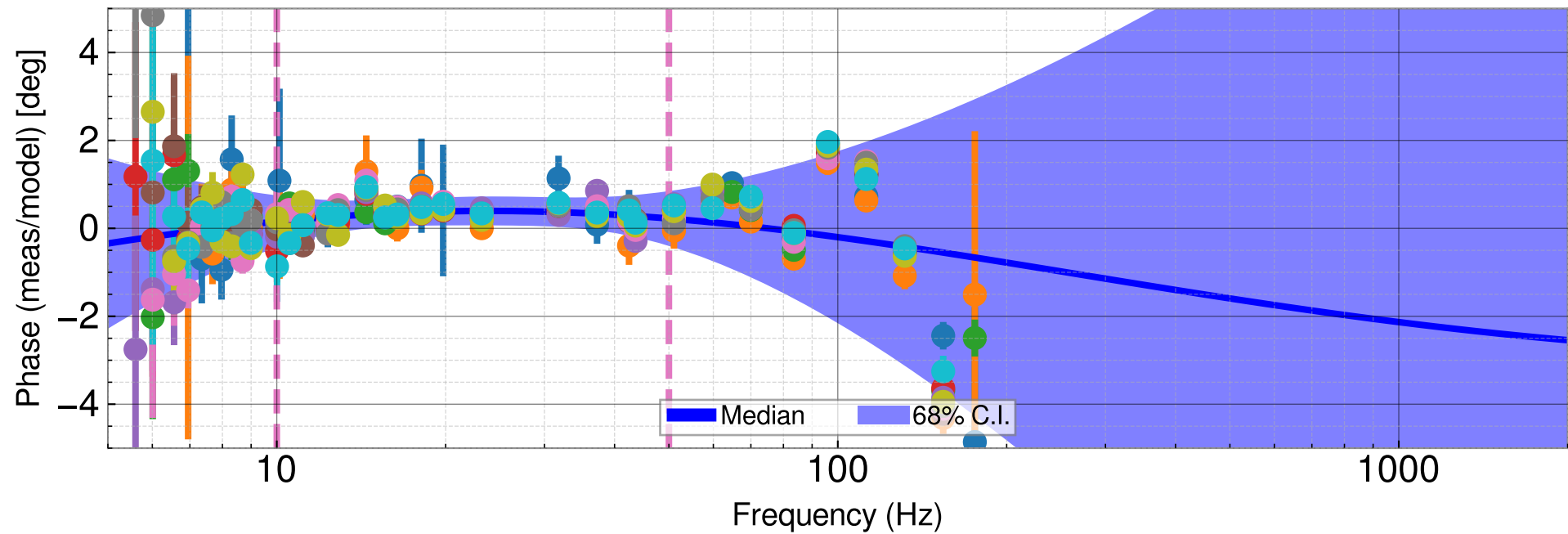
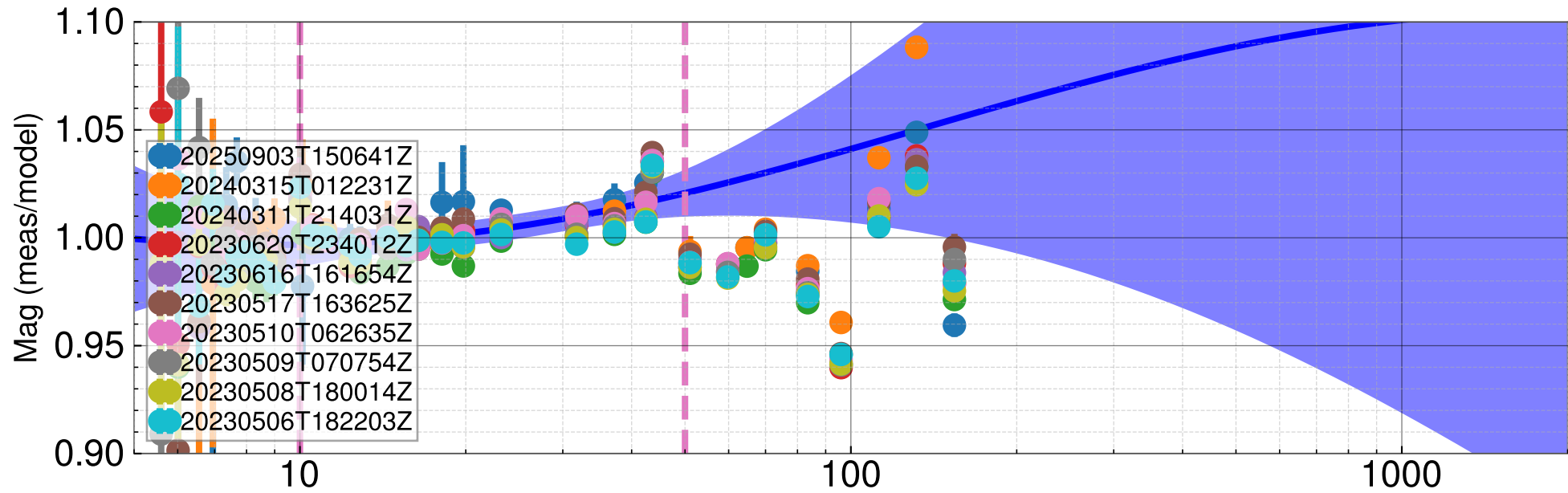
Actuation strength transfer functions
(scaled by H_{ref})



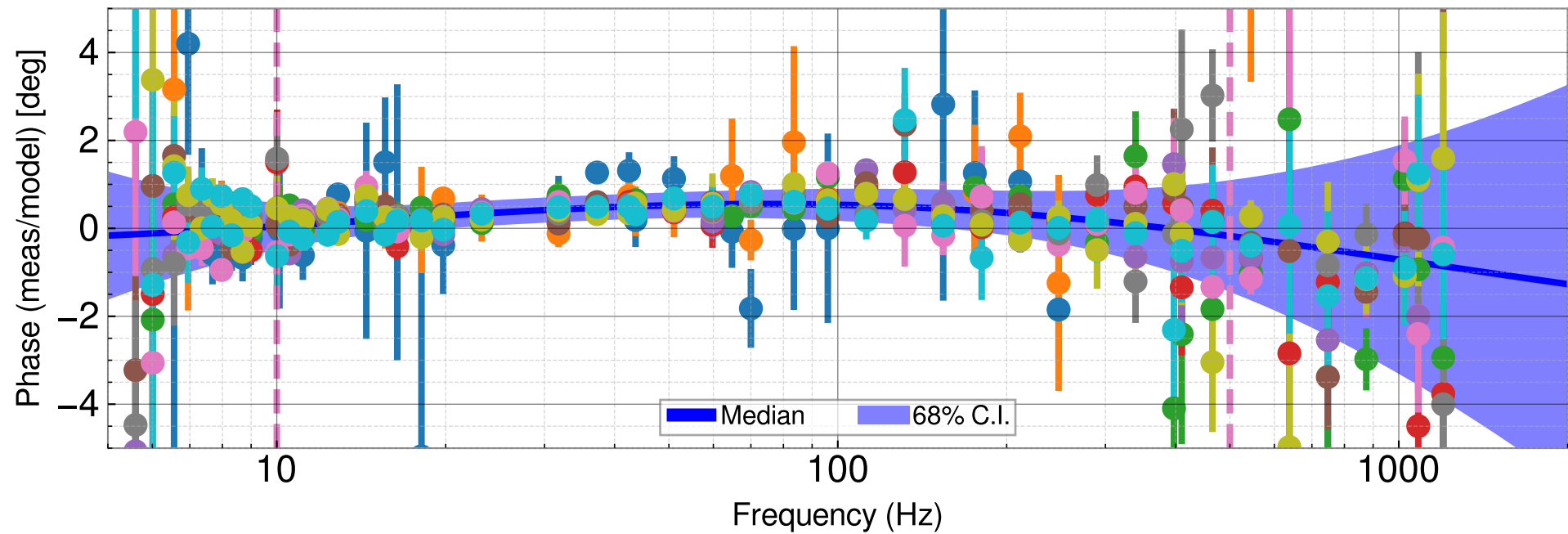
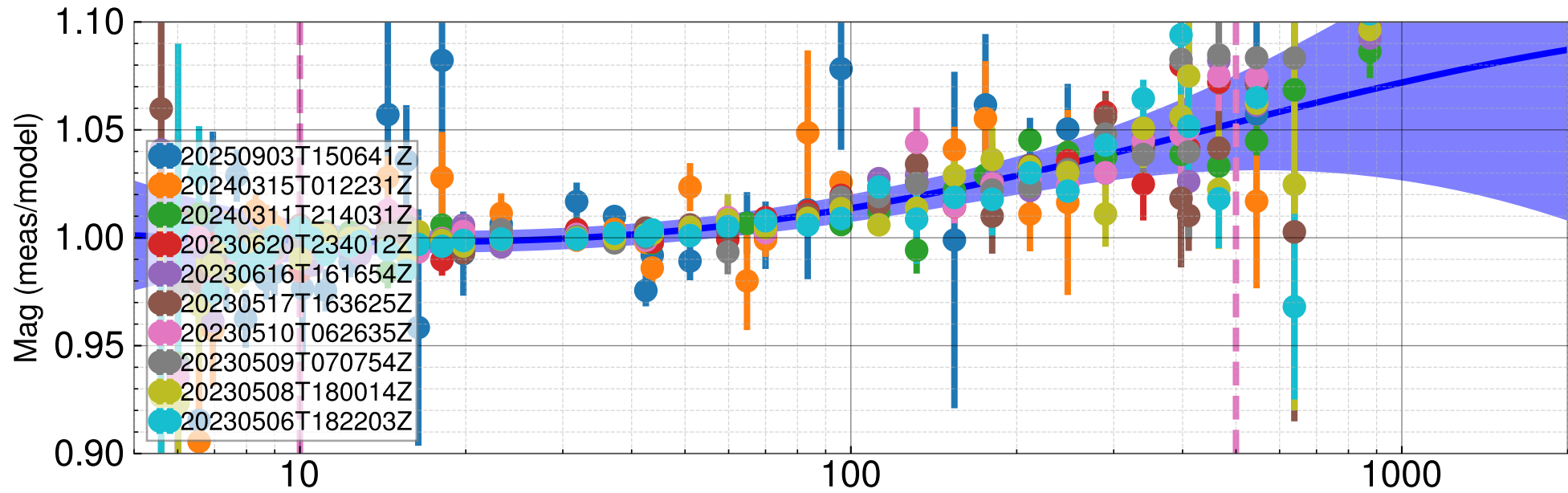
Actuation strength residuals
(meas./model w. free params)



Actuation/L1/EX GPR



Actuation/L2/EX GPR



Actuation/L3/EX GPR

