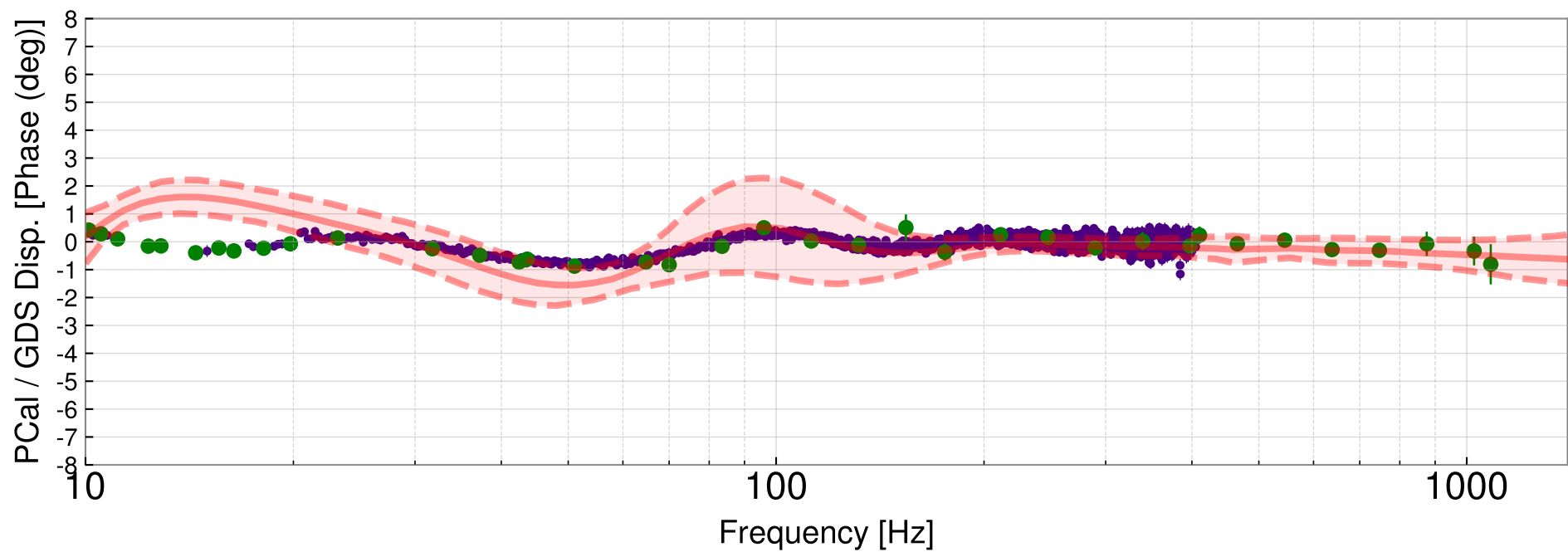
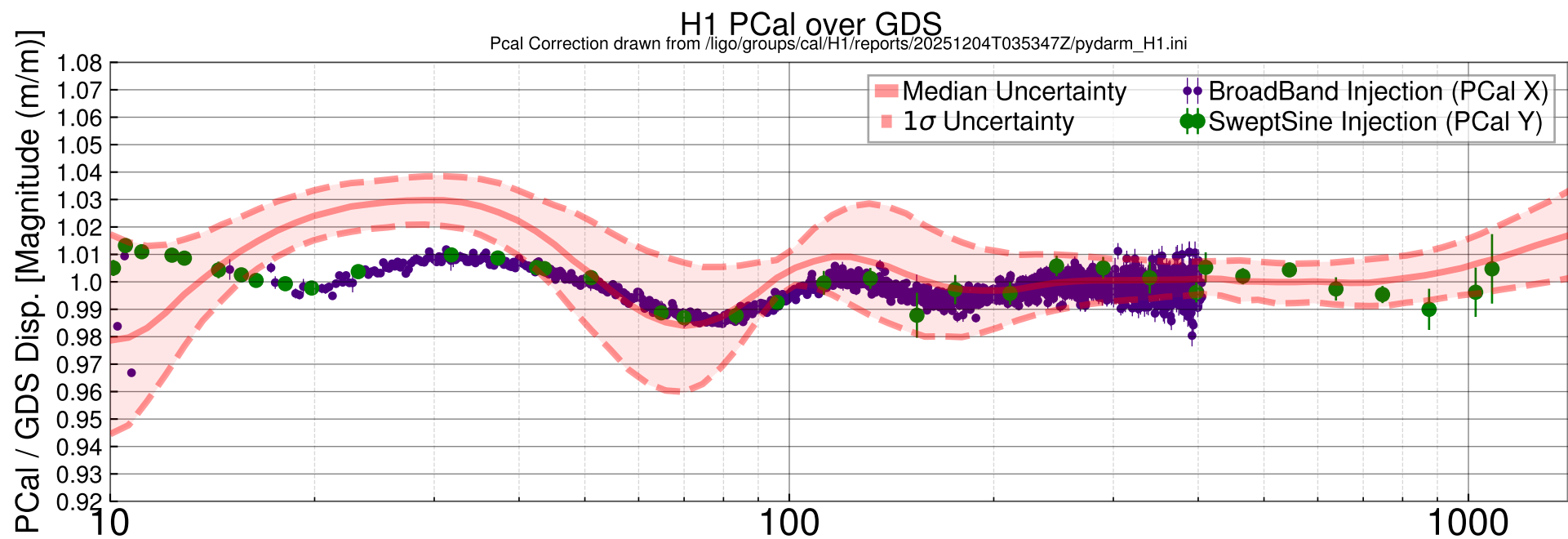
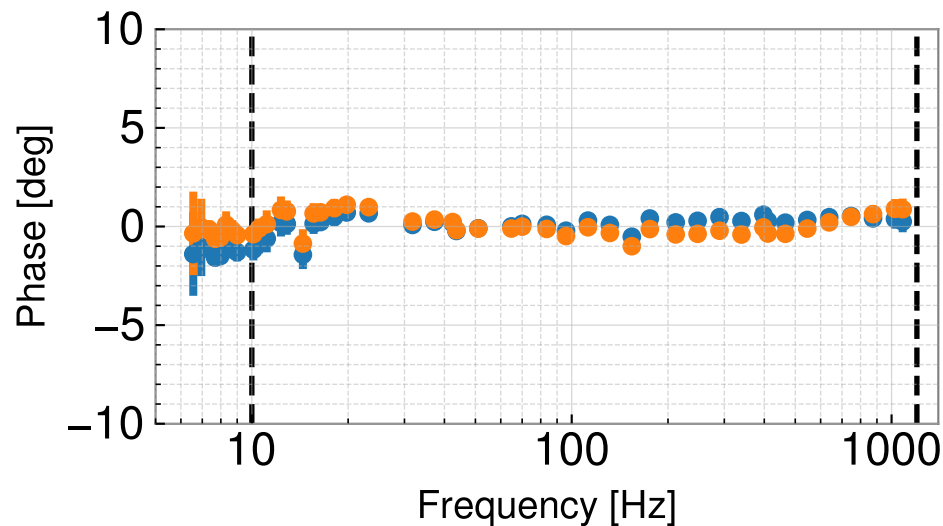
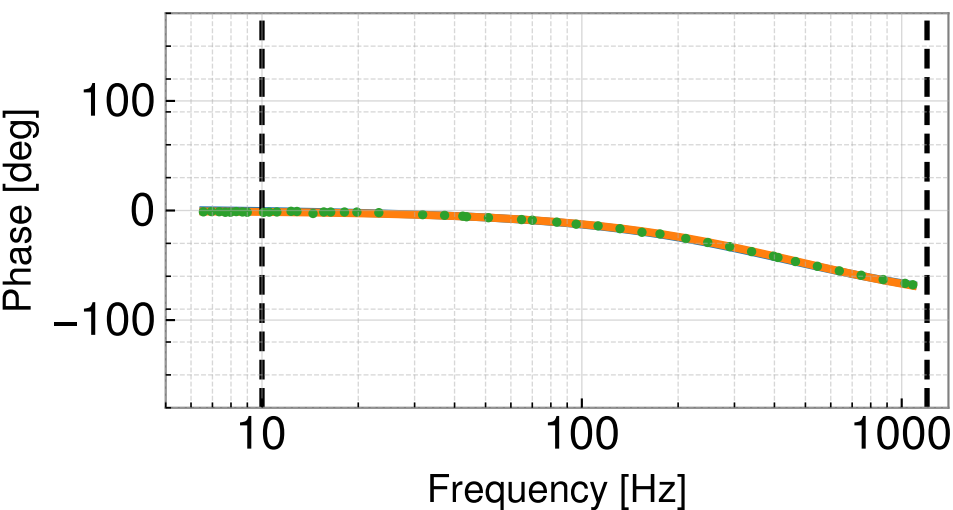
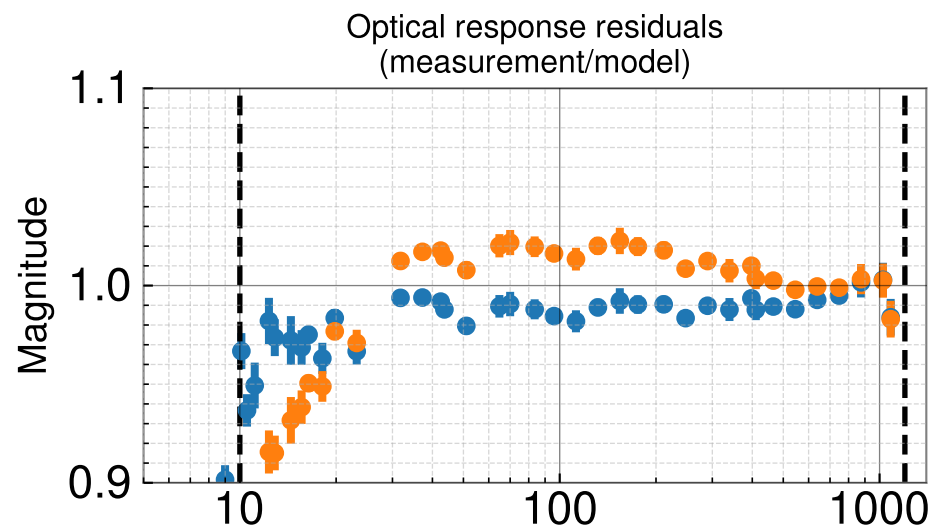
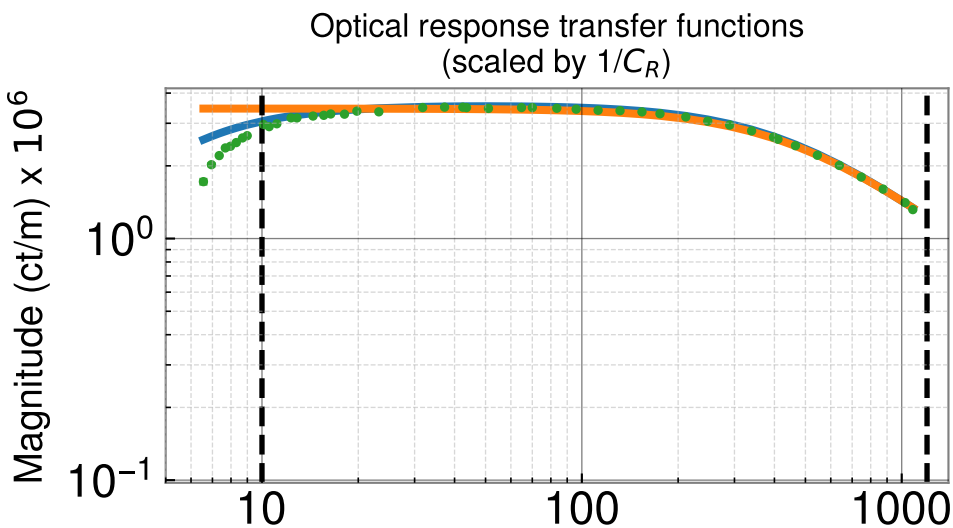
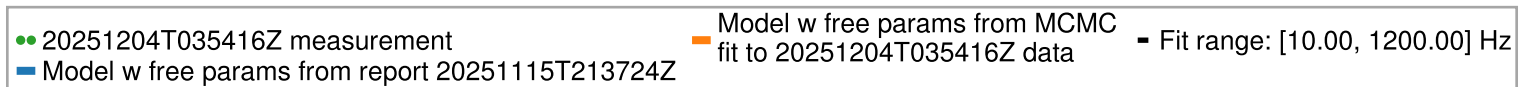




H1 sensing model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20251204T035347Z/pydarm_H1.ini

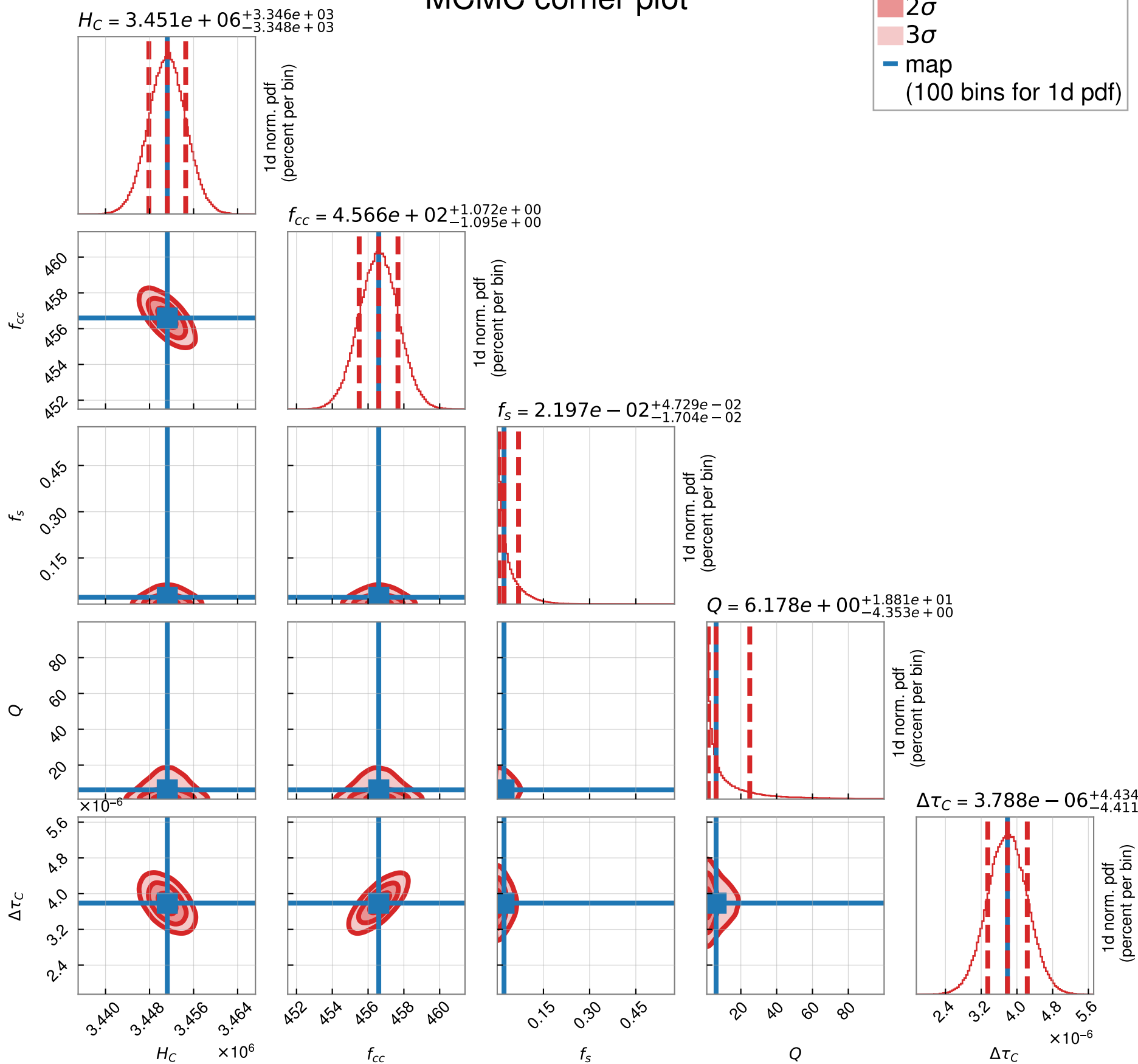


Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.451e+06	3346 (0.10%)	3348 (0.10%)
Cavity_pole, f_cc (Hz)	456.6	1.072 (0.23%)	1.095 (0.24%)
Detuned SRC spring frequency, f_s (Hz)	0.02197	0.04729 (215.27%)	0.01704 (77.55%)
Detuned SRC spring quality factor, Q_s	6.178	18.81 (304.45%)	4.353 (70.45%)
Residual time delay, tau_c (s)	3.788e-06	4.434e-07 (11.71%)	4.411e-07 (11.64%)

2d pdf contours

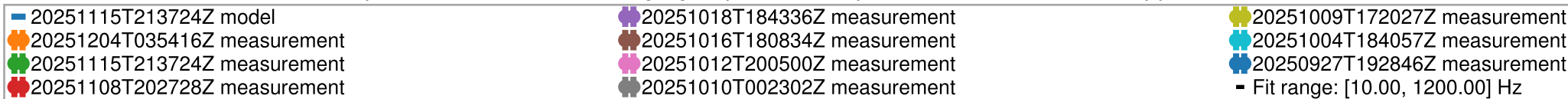
- 1 σ
- 2 σ
- 3 σ
- map

(100 bins for 1d pdf)

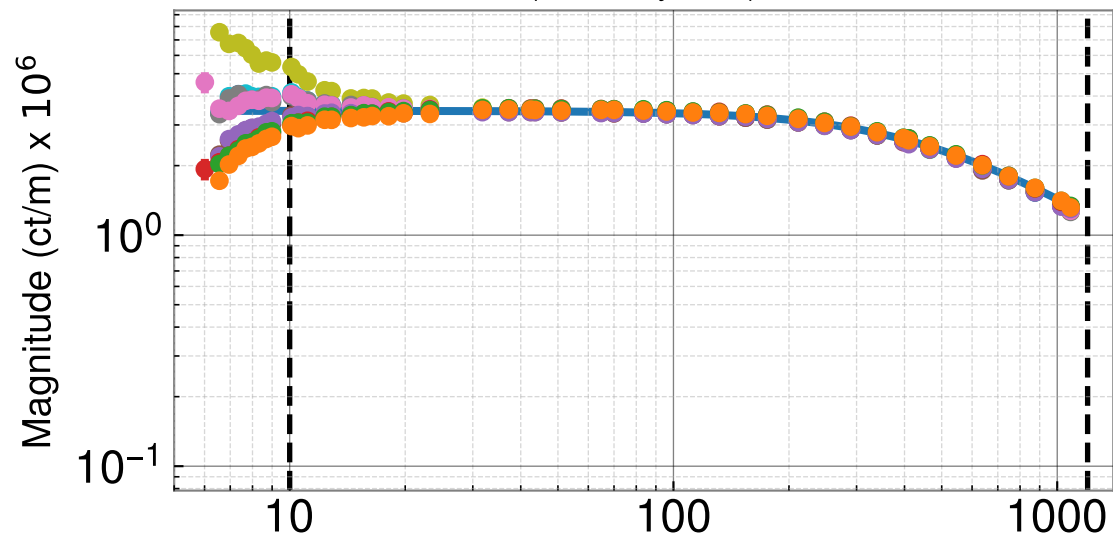


H1 sensing model history (last 9 measurements)

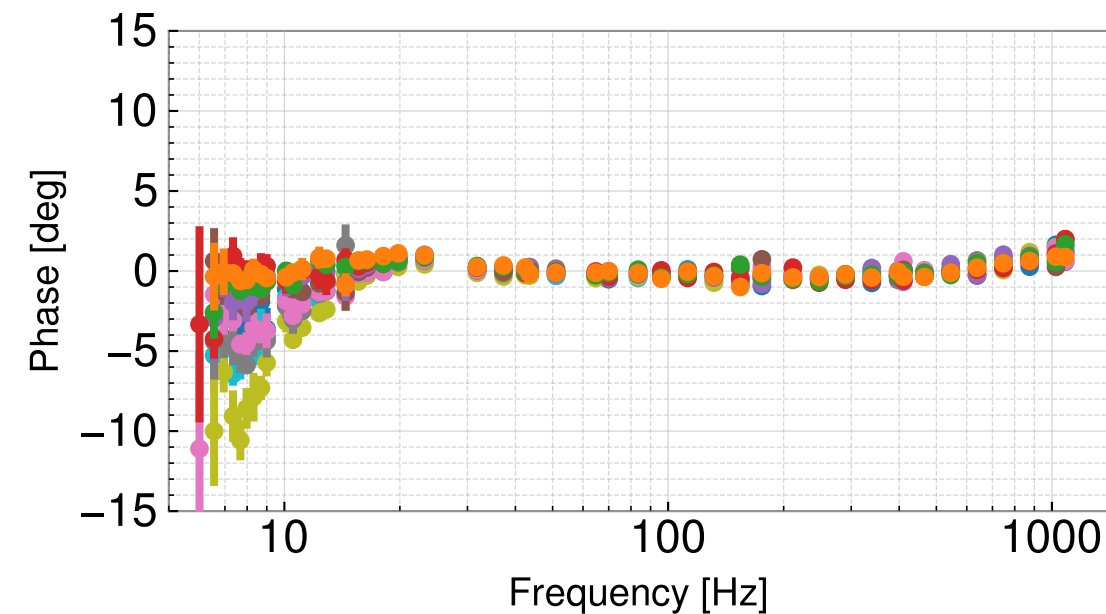
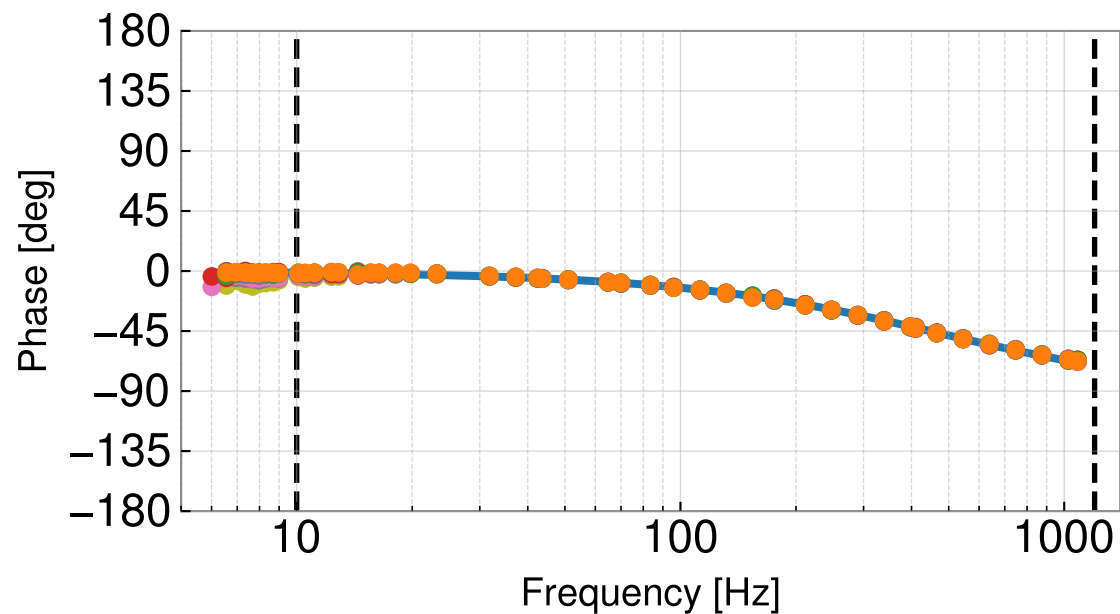
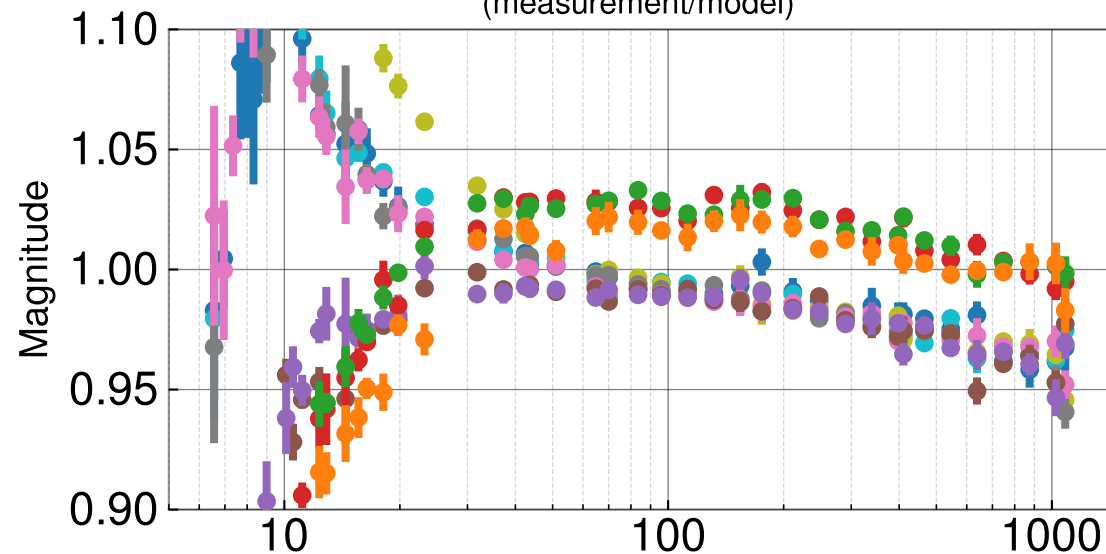
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20251204T035347Z/pydarm_H1.ini`



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

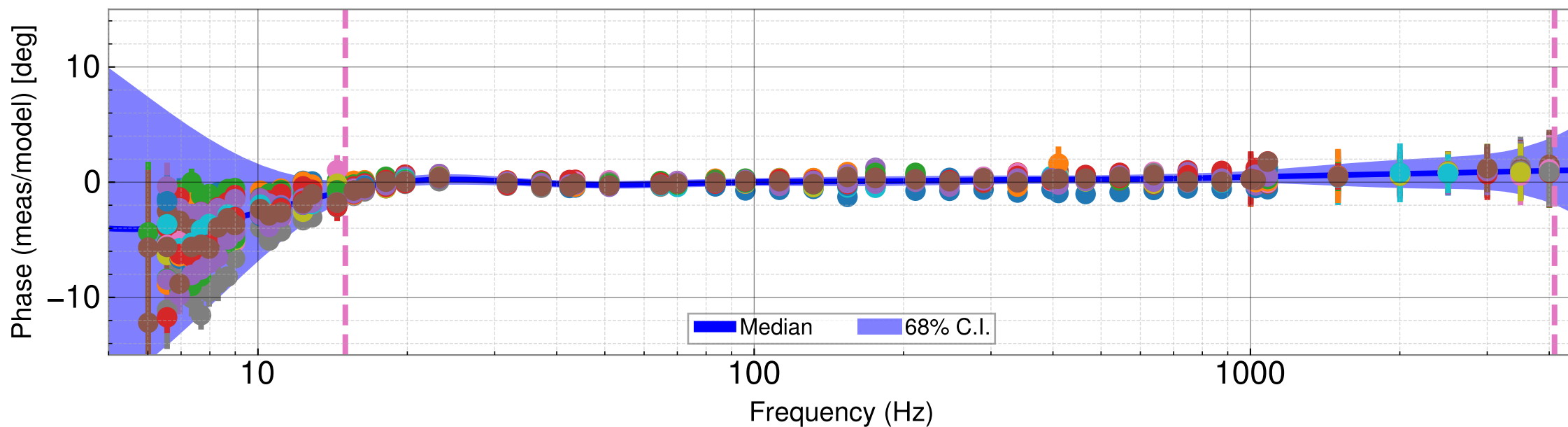
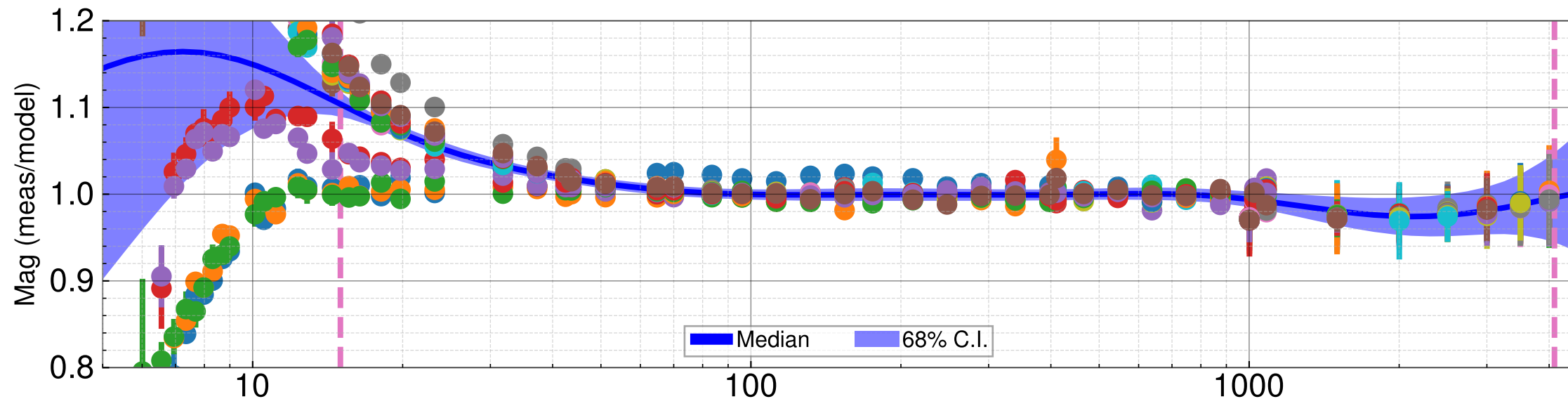


Optical response residuals
(measurement/model)



Sensing GPR

meas. 20251204T035416Z of report 20251204T035347Z
 meas. 20251115T213752Z of report 20251115T213724Z
 meas. 20251108T202756Z of report 20251108T202728Z
 meas. 20251018T184404Z of report 20251018T184336Z
 meas. 20251016T180902Z of report 20251016T180834Z
 meas. 20251012T200528Z of report 20251012T200500Z
 meas. 20251010T002330Z of report 20251010T002302Z
 meas. 20251009T172055Z of report 20251009T172027Z
 meas. 20251004T184125Z of report 20251004T184057Z
 meas. 20250927T192913Z of report 20250927T192846Z
 meas. 20250925T153706Z of report 20250925T153638Z
 meas. 20250920T183918Z of report 20250920T183850Z
 meas. 20250918T153945Z of report 20250918T153918Z
 meas. 20250906T193807Z of report 20250906T193739Z
 meas. 20250903T150709Z of report 20250903T150641Z
 meas. 20250823T183906Z of report 20250823T183838Z

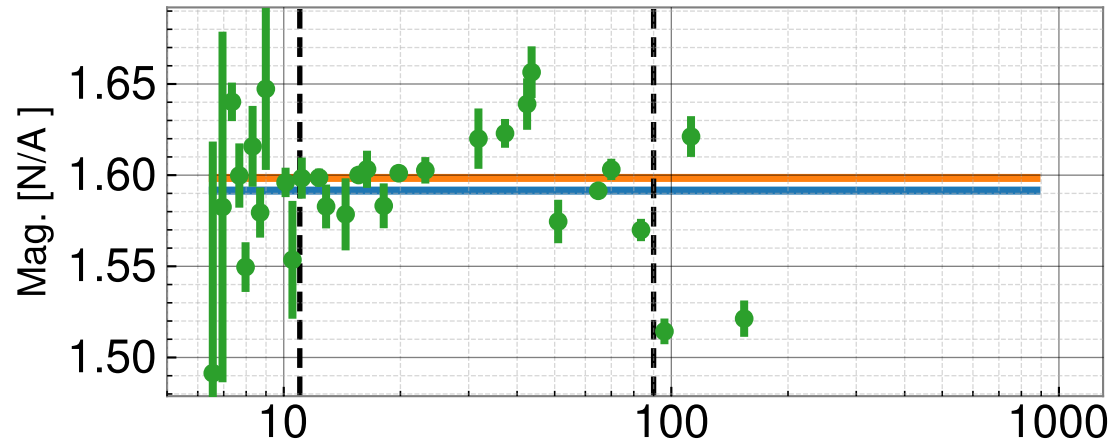


H1SUSEX L1 actuation model MCMC summary

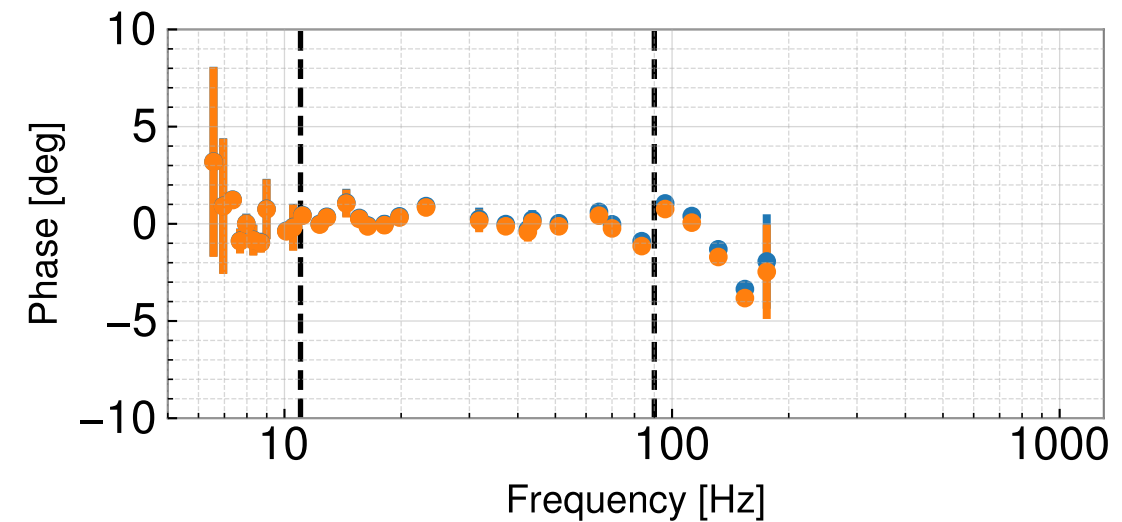
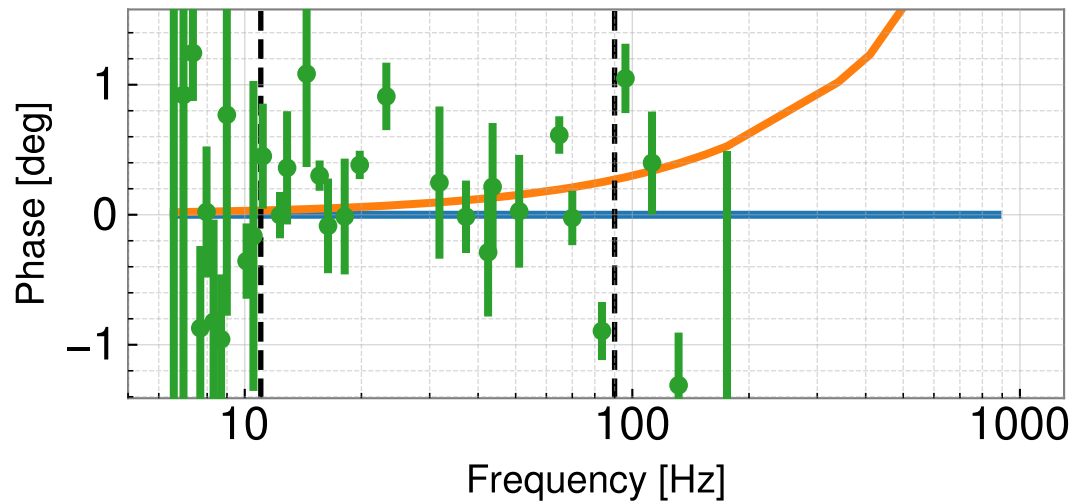
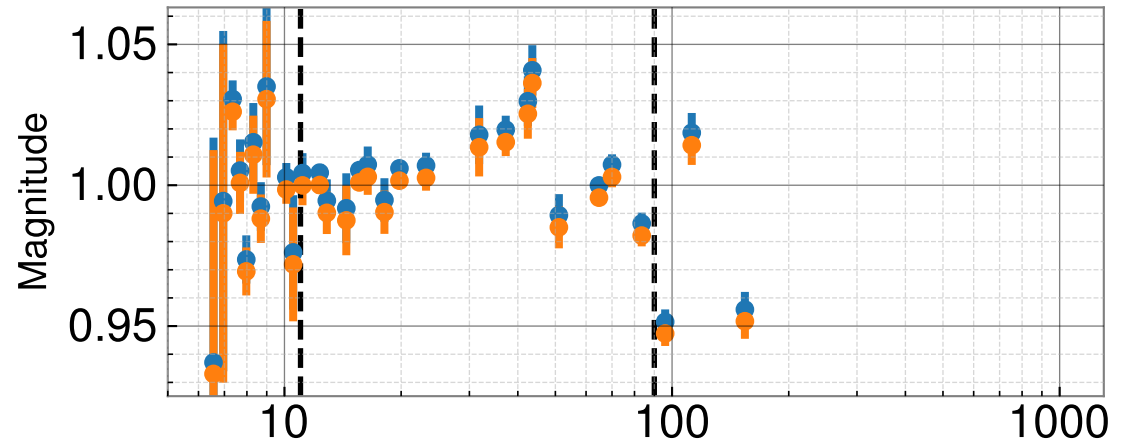
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20251204T035347Z/pydarm_H1.ini

— Model w free params from report 20251115T213724Z
— Model w free params from
— MCMC fit to 20251204T035416Z data
■ 20251204T035416Z measurement
— Fit range 11.0 to 90.0 Hz

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

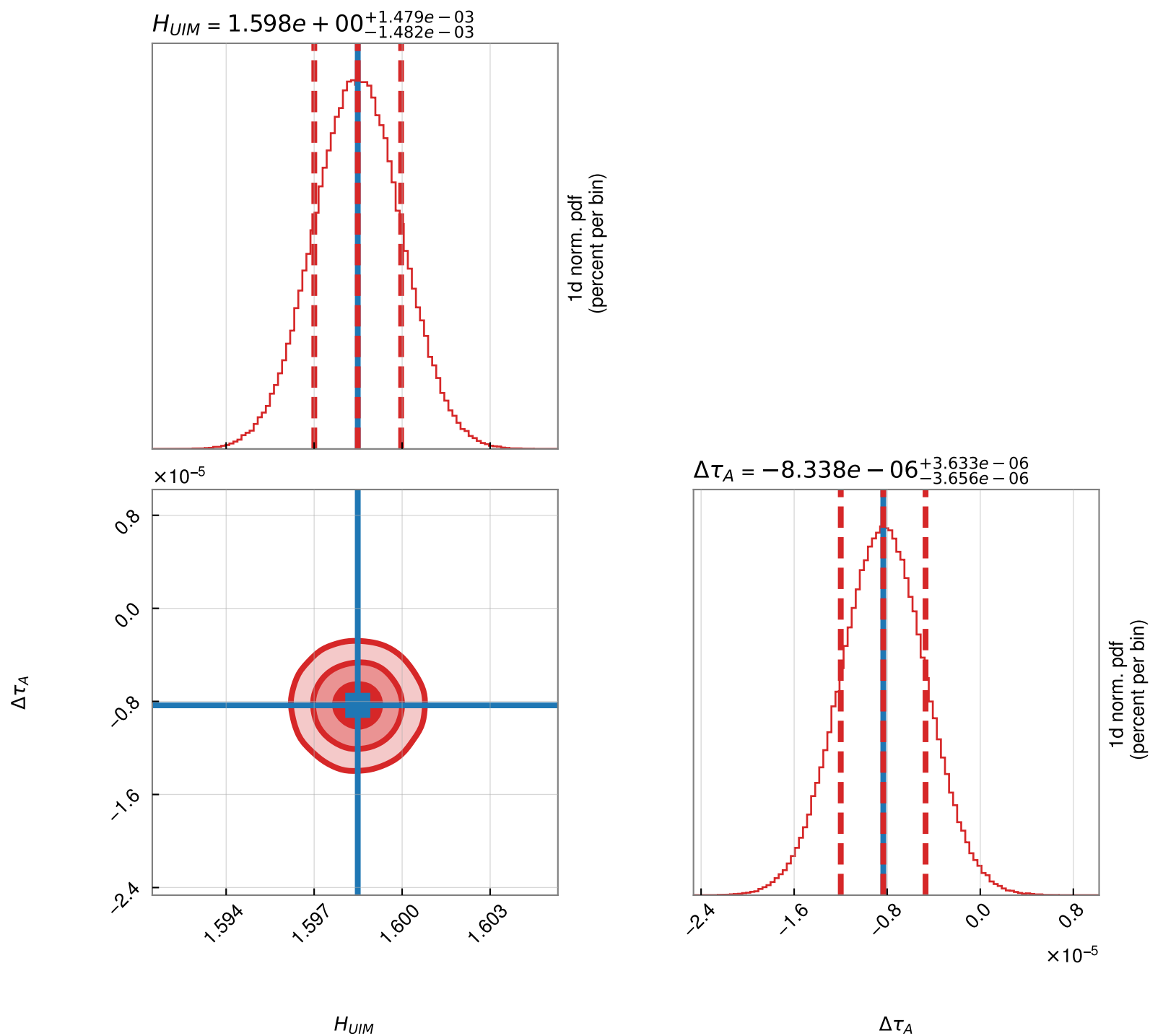
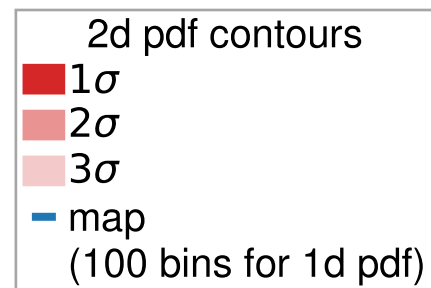


Actuation strength residuals
(meas./model w. free params)



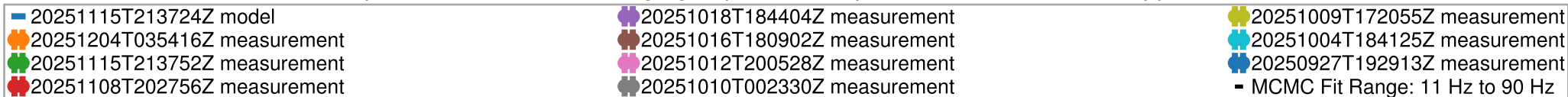
Parameter	(value +/-) value	+	-
Actuation Gain, Hau (N/A)	1.598	0.001479 (0.09%)	0.001482 (0.09%)
Residual time delay, tau_A (s)	-8.338e-06	3.633e-06 (-43.57%)	3.656e-06 (-43.84%)

20251204T035416Z EX L1 actuation MCMC corner plot

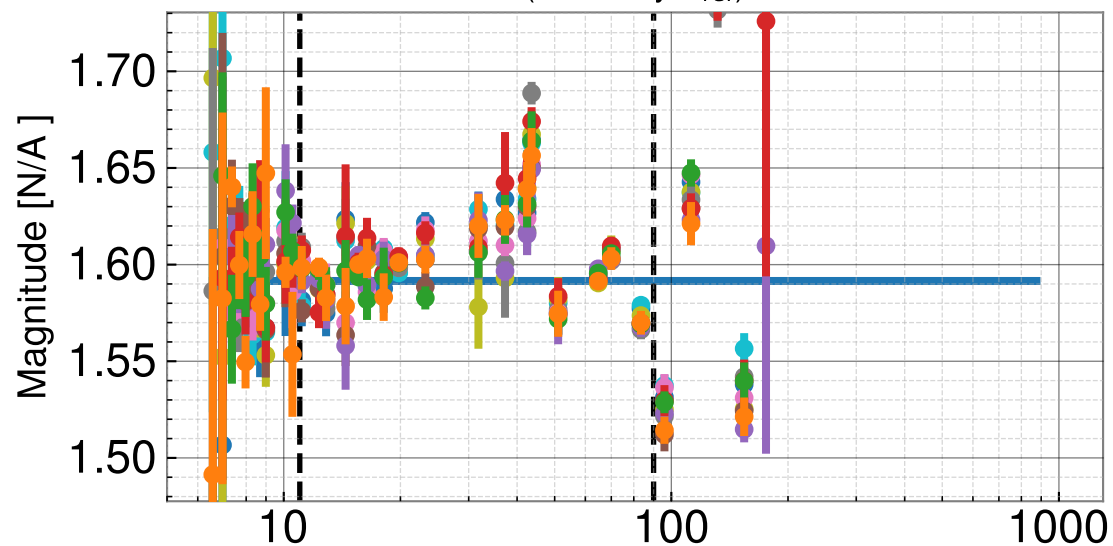


H1SUSEX L1 actuation model history (last 9 measurements)

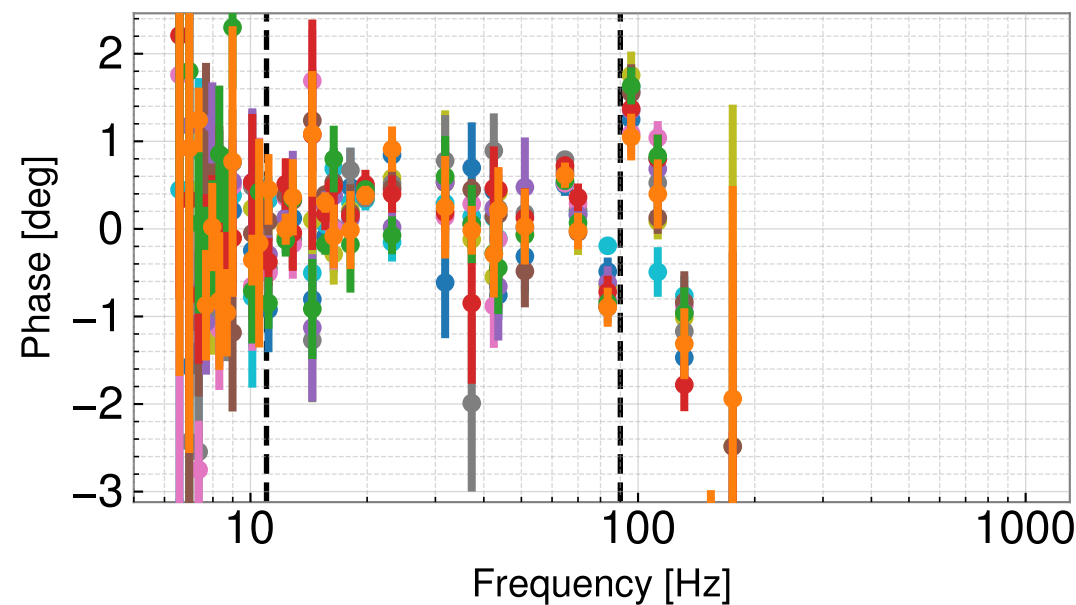
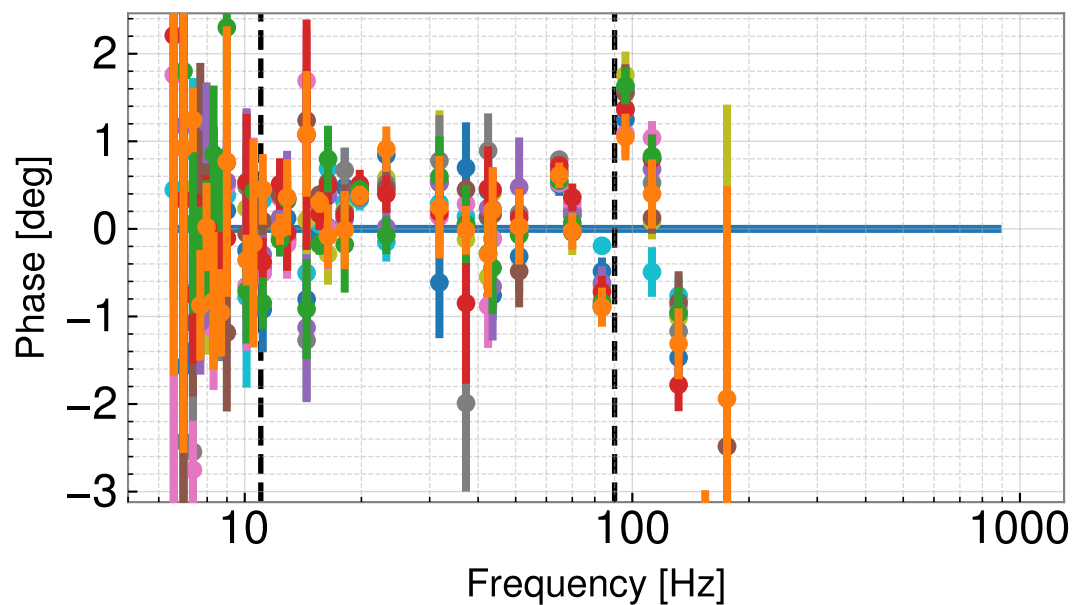
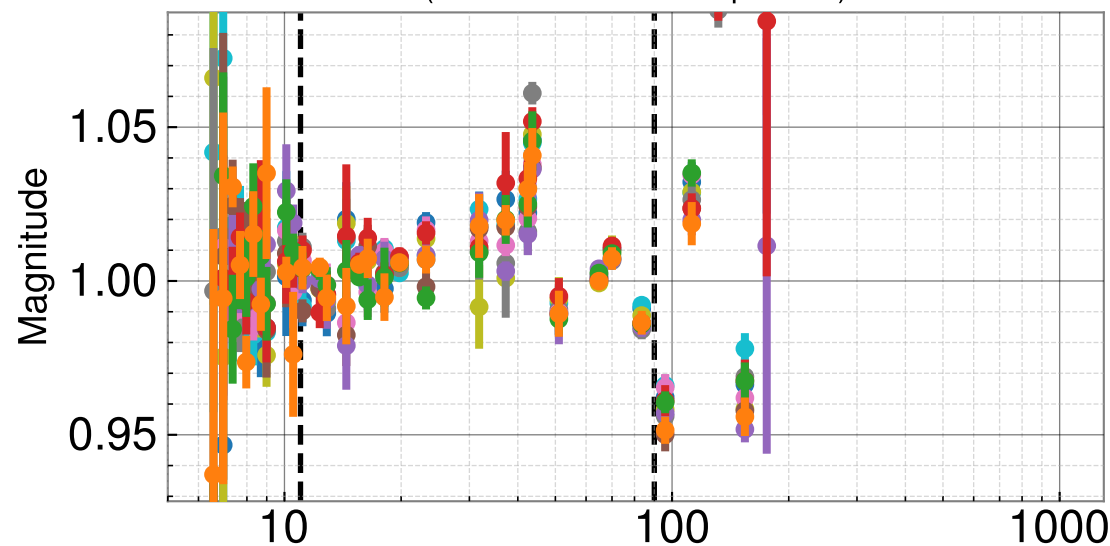
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20251204T035347Z/pydarm_H1.ini`



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

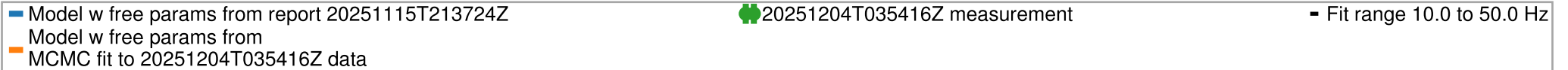


Actuation strength residuals
(meas./model w. free params)

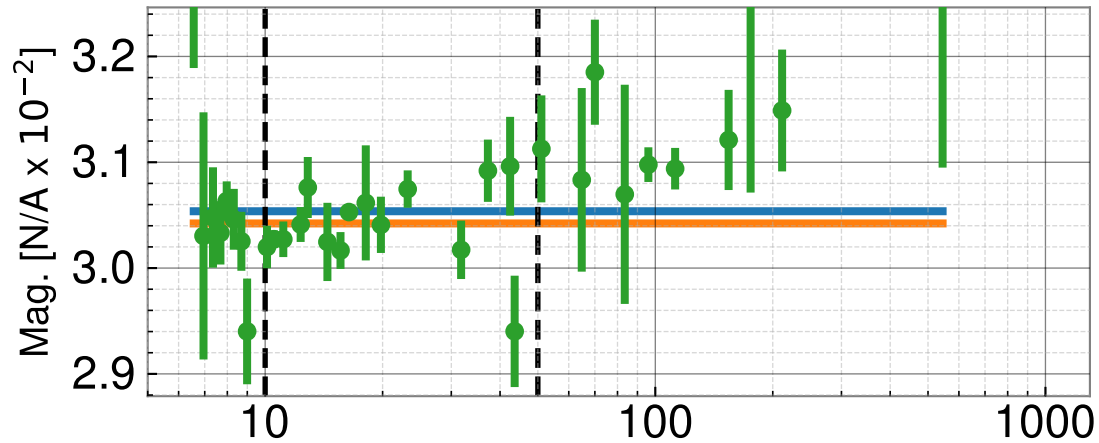


H1SUSEX L2 actuation model MCMC summary

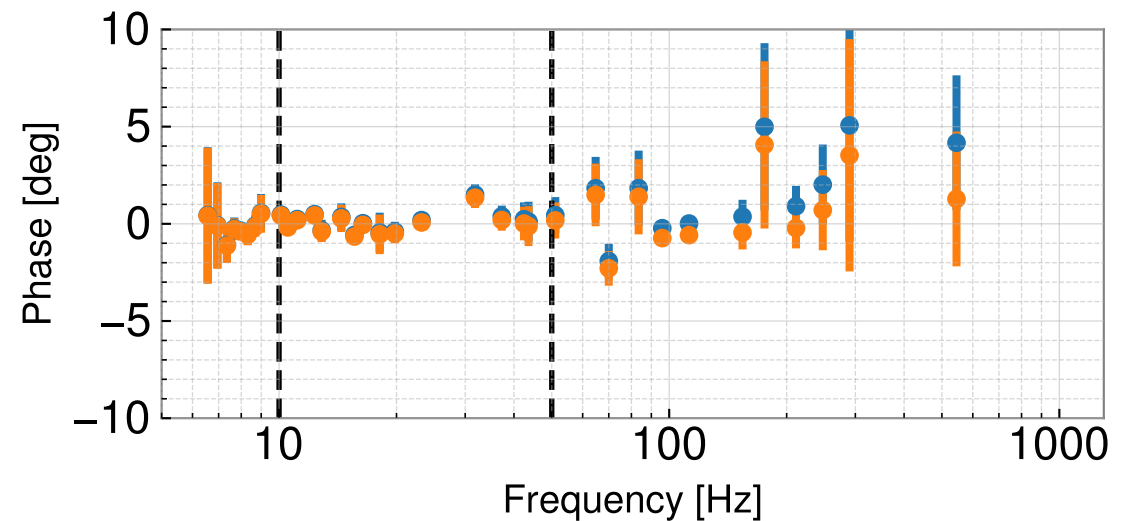
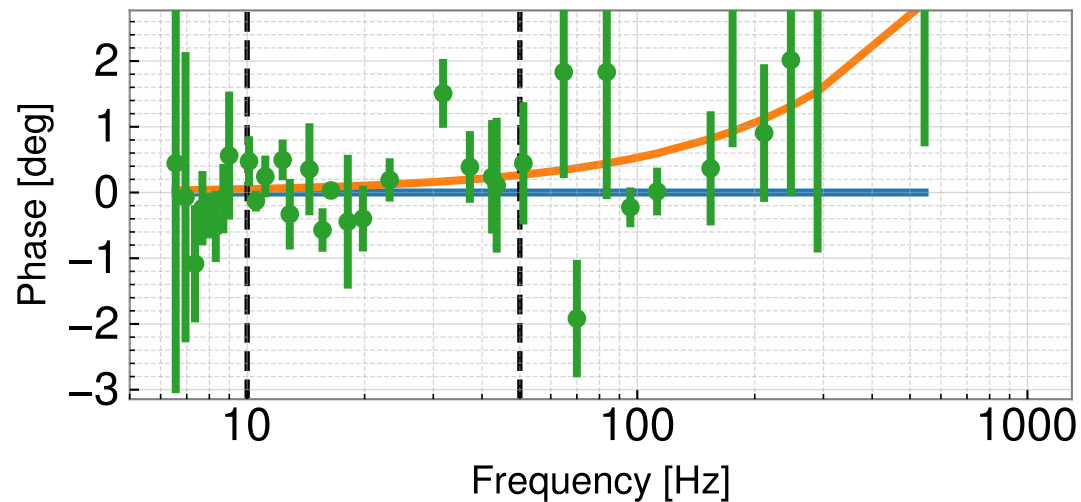
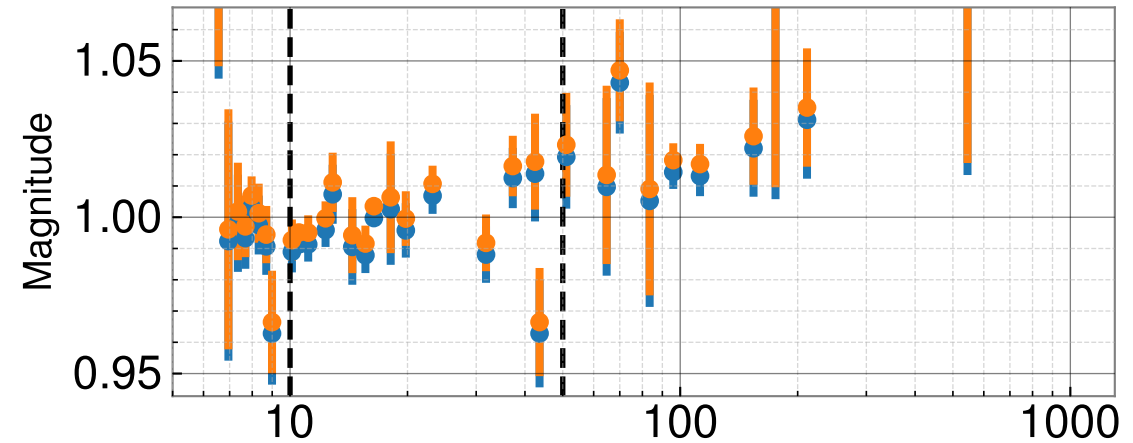
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20251204T035347Z/pydarm_H1.ini



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

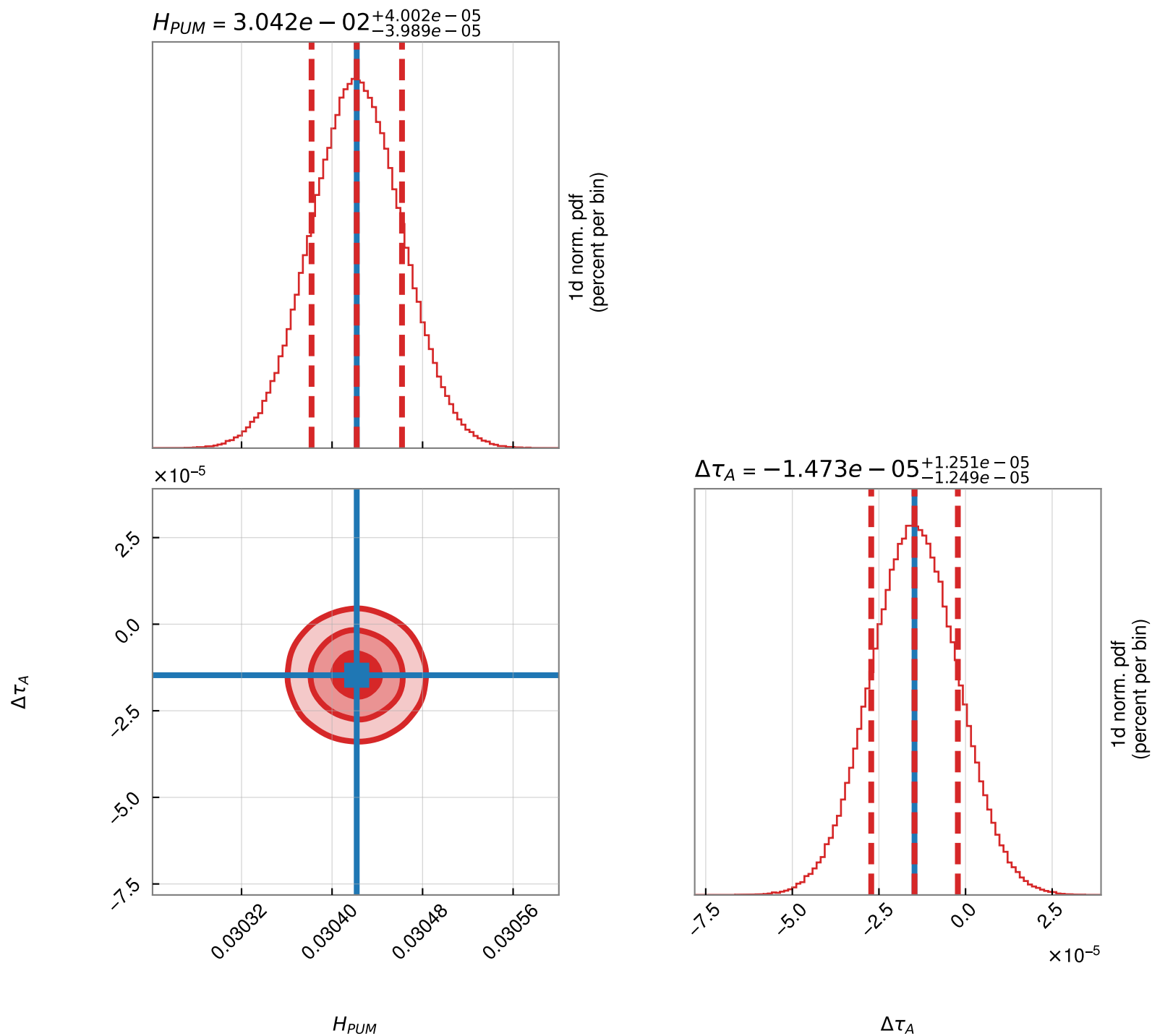
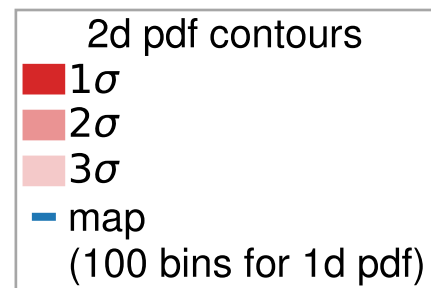


Actuation strength residuals
(meas./model w. free params)



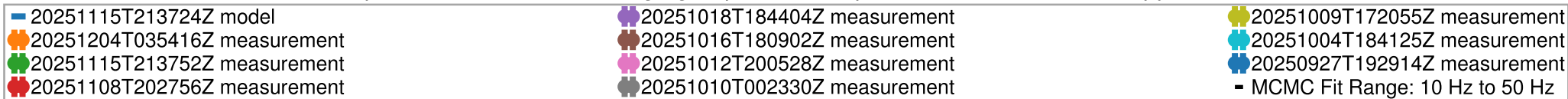
Parameter	(value +/-)	value	+	-
Actuation Gain, Hap (N/A)	0.03042		4.002e-05 (0.13%)	3.989e-05 (0.13%)
Residual time delay, tau_A (s)	-1.473e-05		1.251e-05 (-84.93%)	1.249e-05 (-84.81%)

20251204T035416Z EX L2 actuation MCMC corner plot

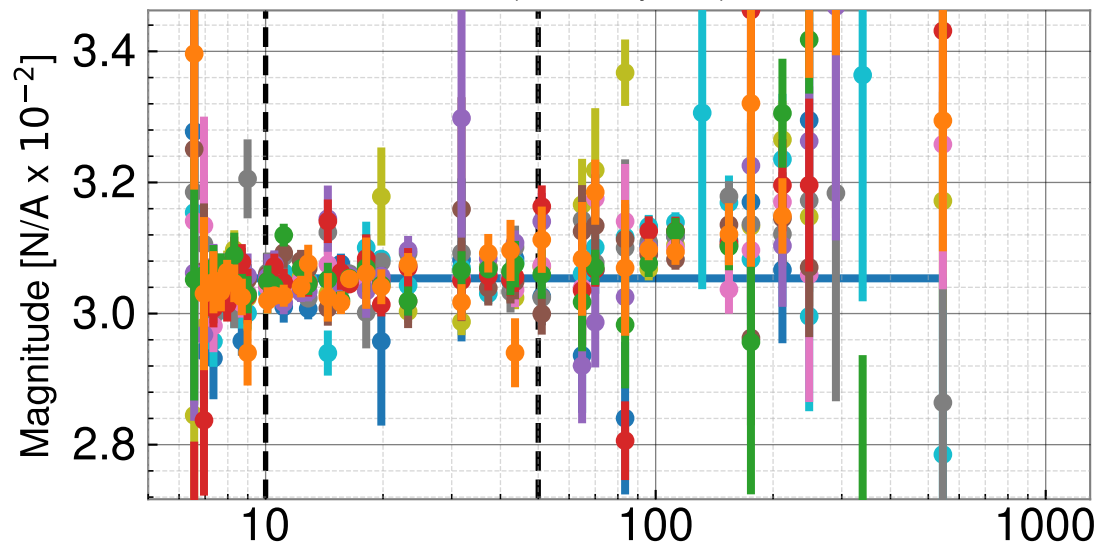


H1SUSEX L2 actuation model history (last 9 measurements)

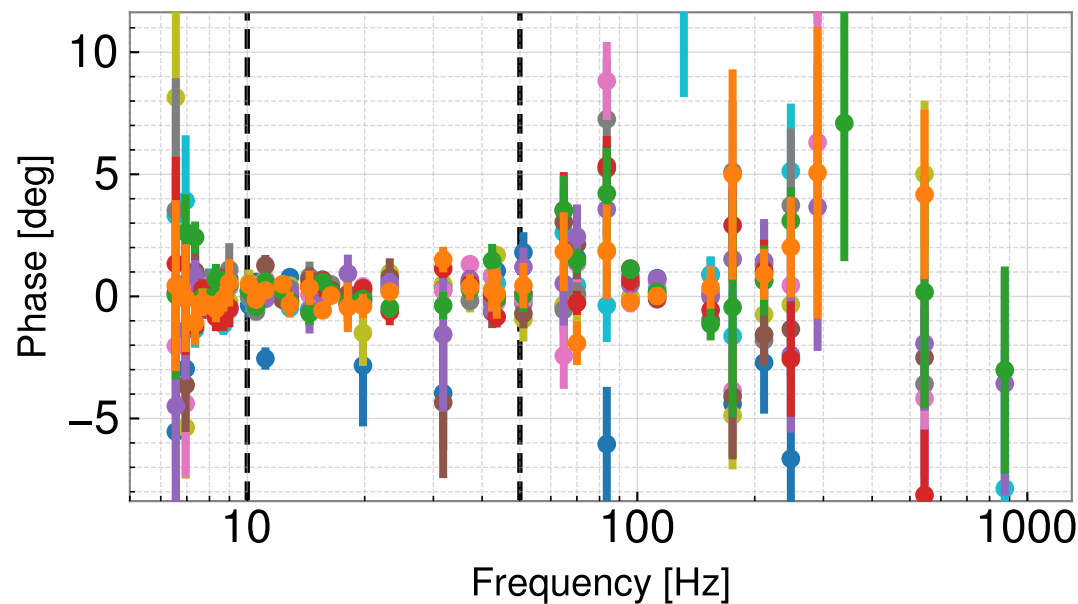
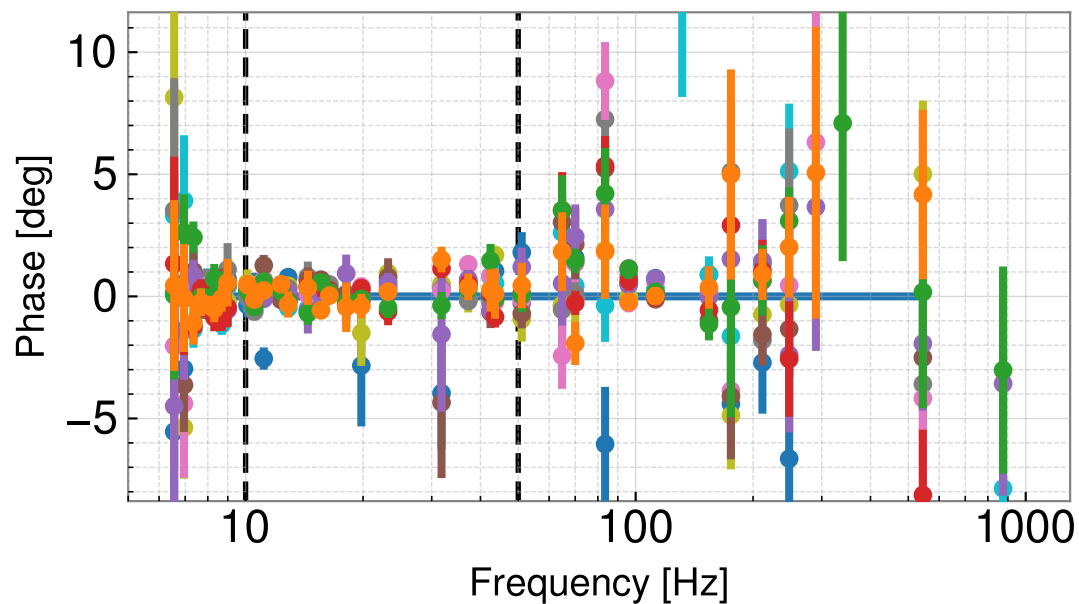
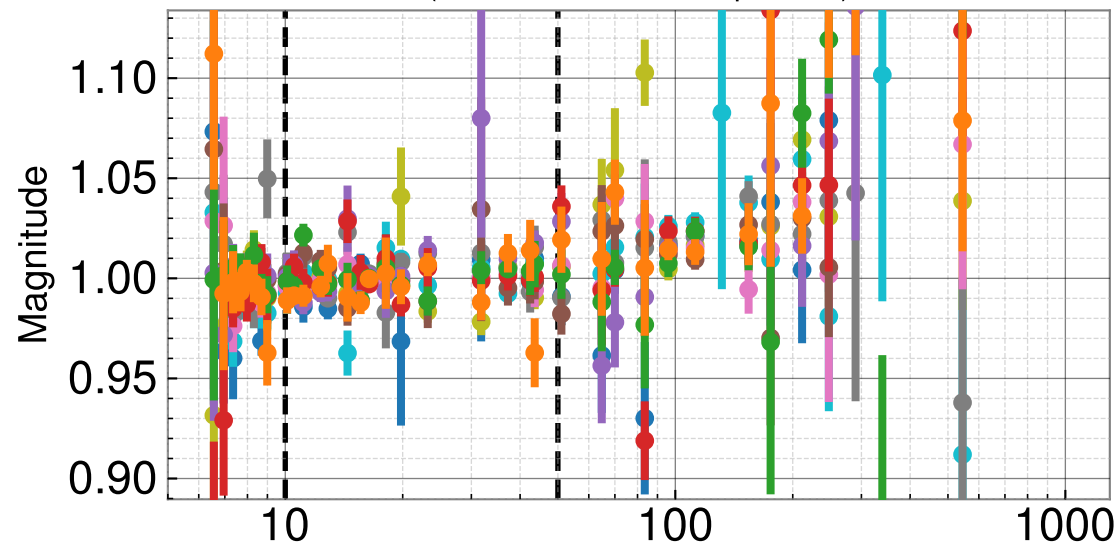
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20251204T035347Z/pydarm_H1.ini`



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

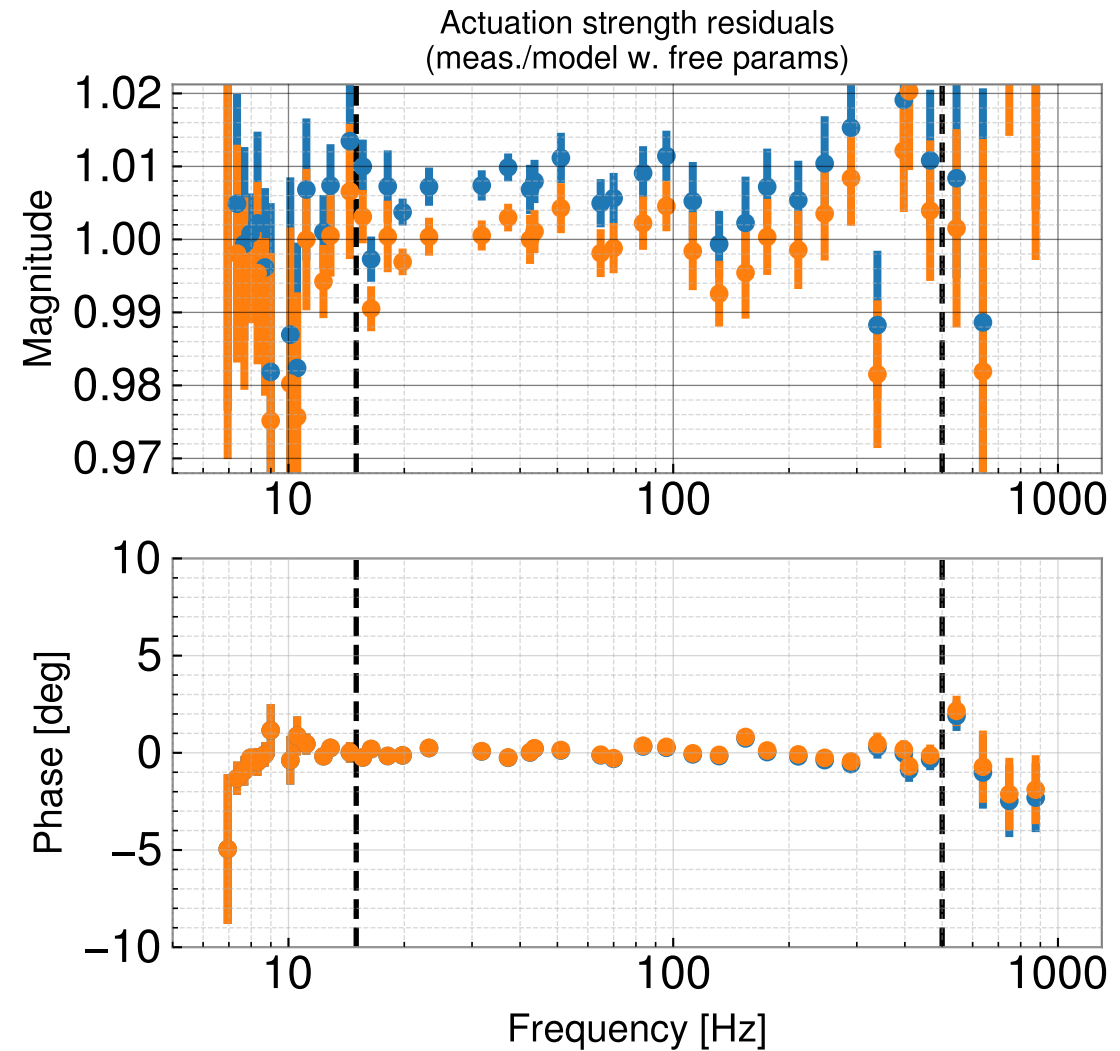
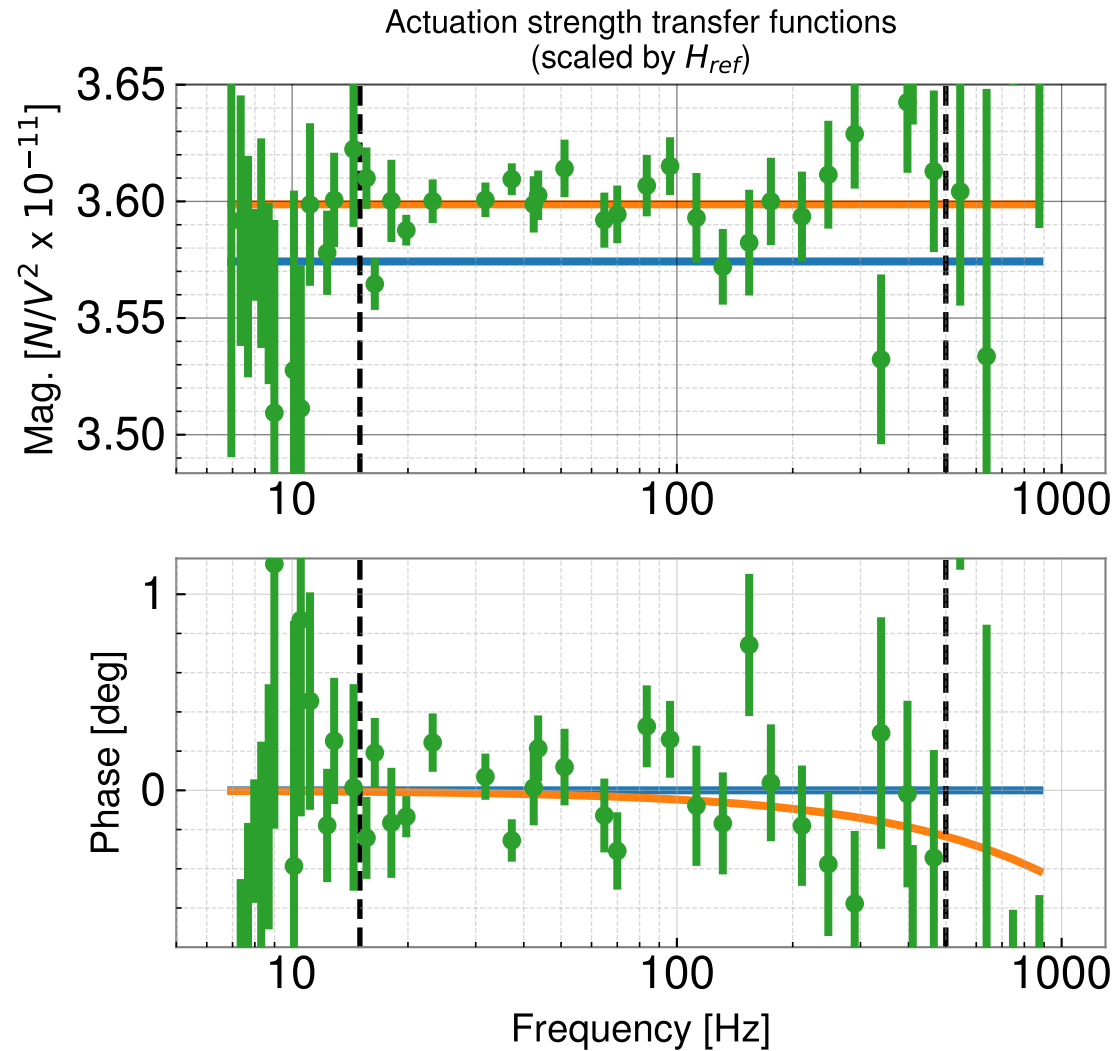


Actuation strength residuals
(meas./model w. free params)



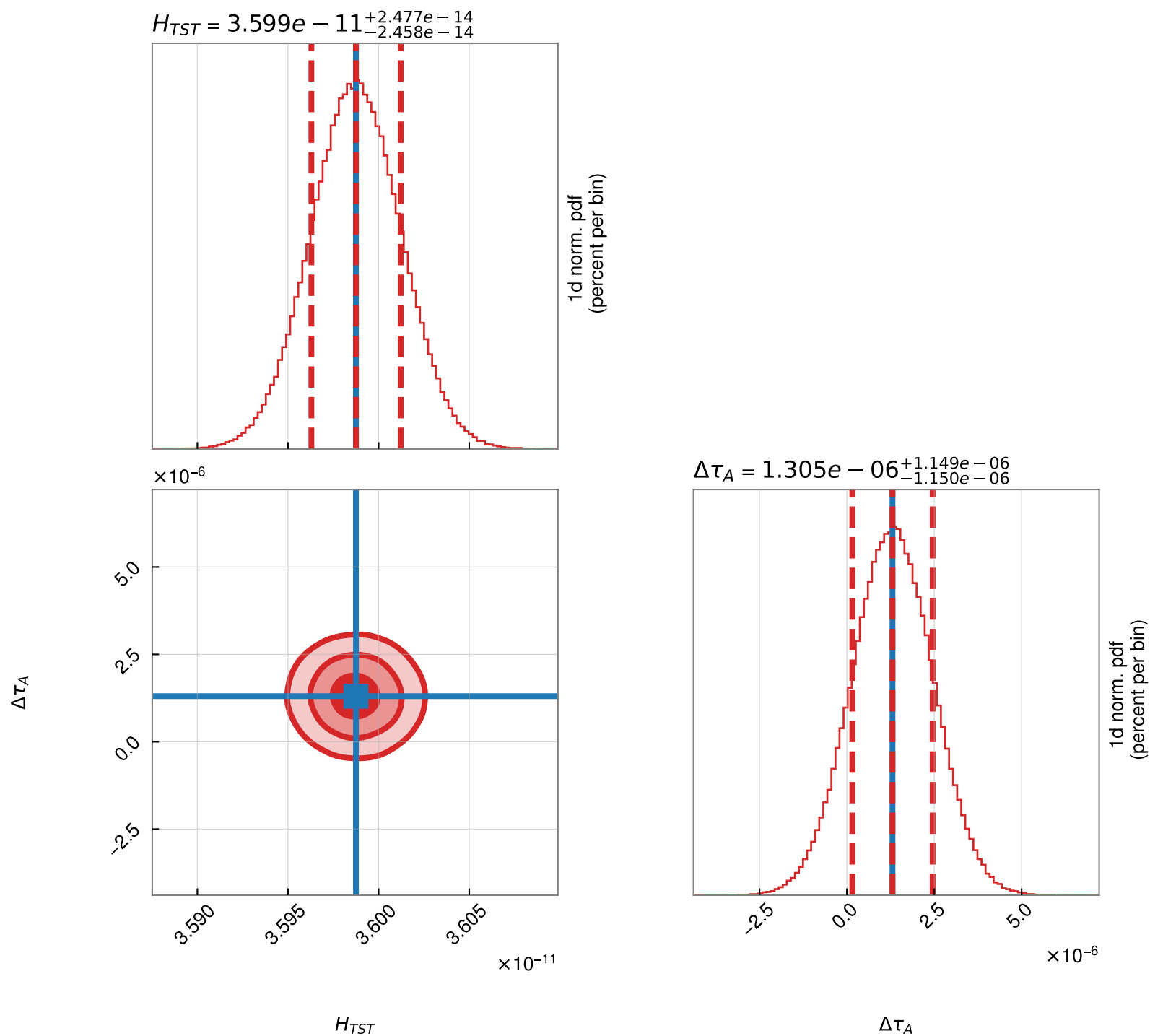
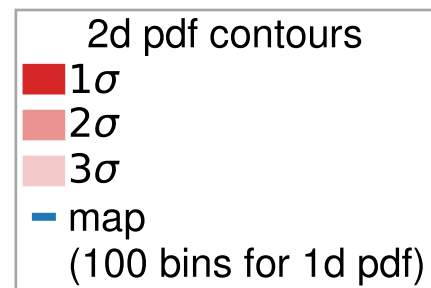
H1SUSEX L3 actuation model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20251204T035347Z/pydarm_H1.ini



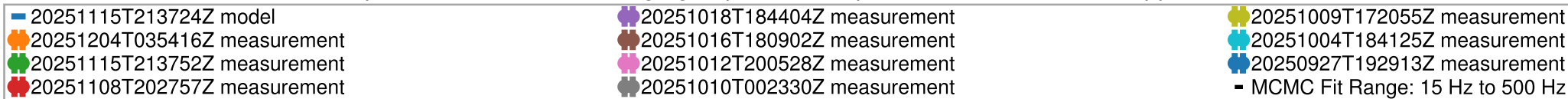
Parameter	(value +/-)	value	+	-
Actuation Gain, Hat (N/V^2)	3.599e-11		2.477e-14 (0.07%)	2.458e-14 (0.07%)
Residual time delay, tau_A (s)	1.305e-06		1.149e-06 (88.08%)	1.15e-06 (88.12%)

20251204T035416Z EX L3 actuation MCMC corner plot

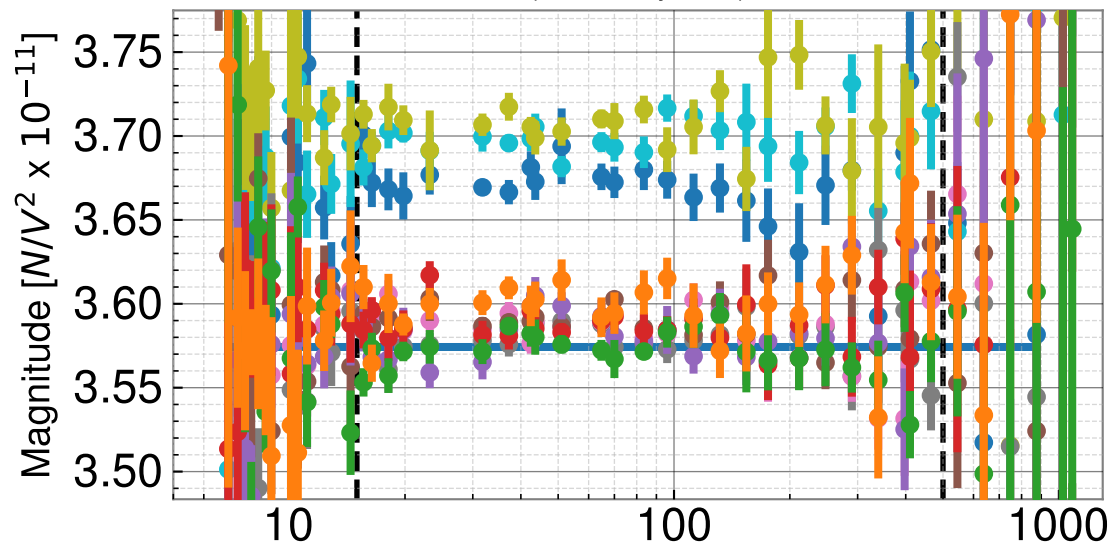


H1SUSEX L3 actuation model history (last 9 measurements)

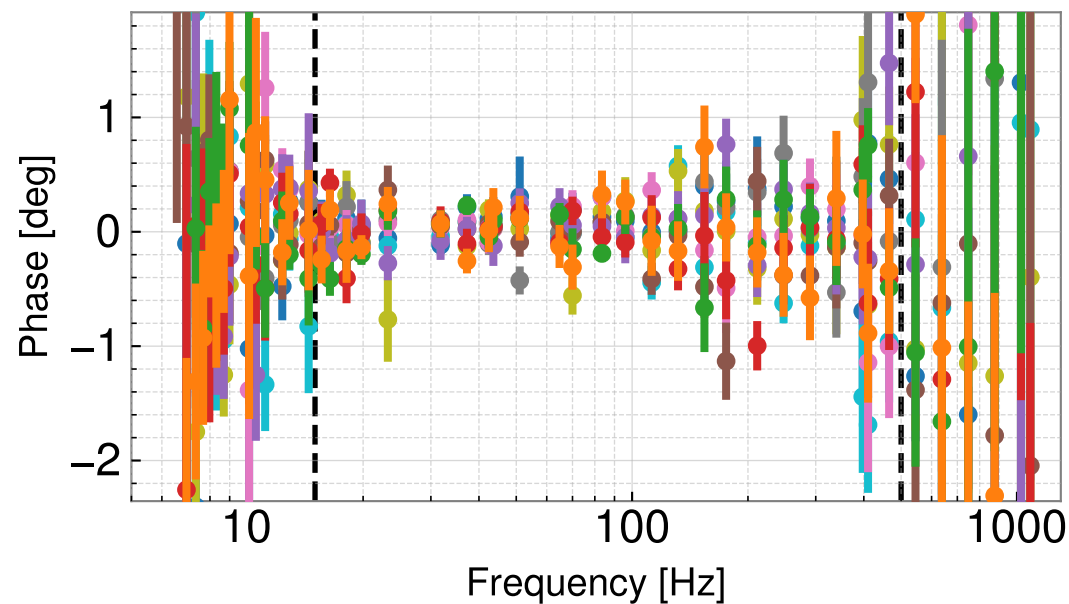
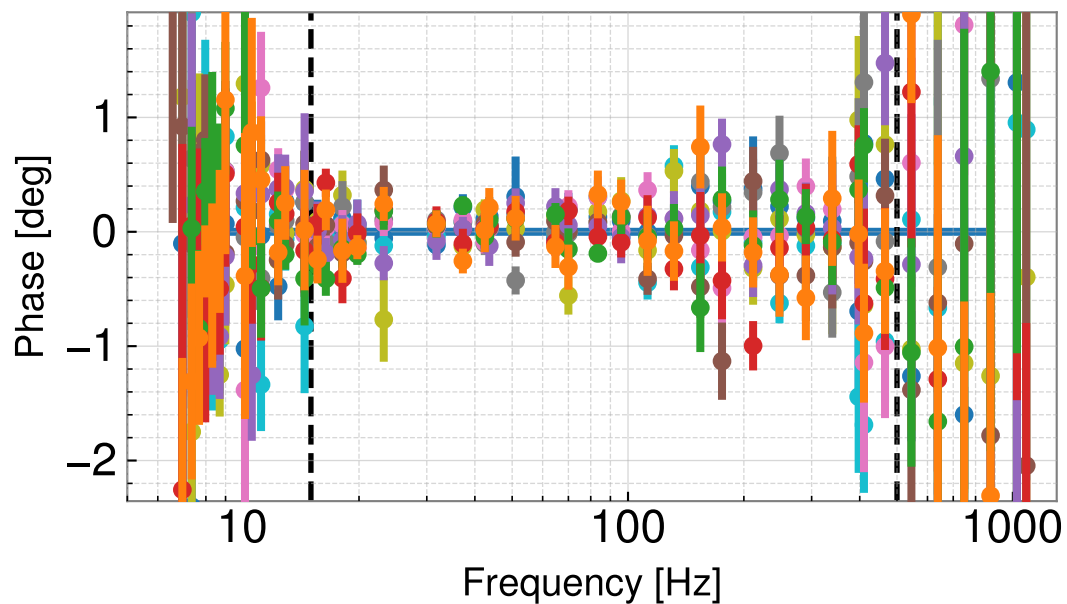
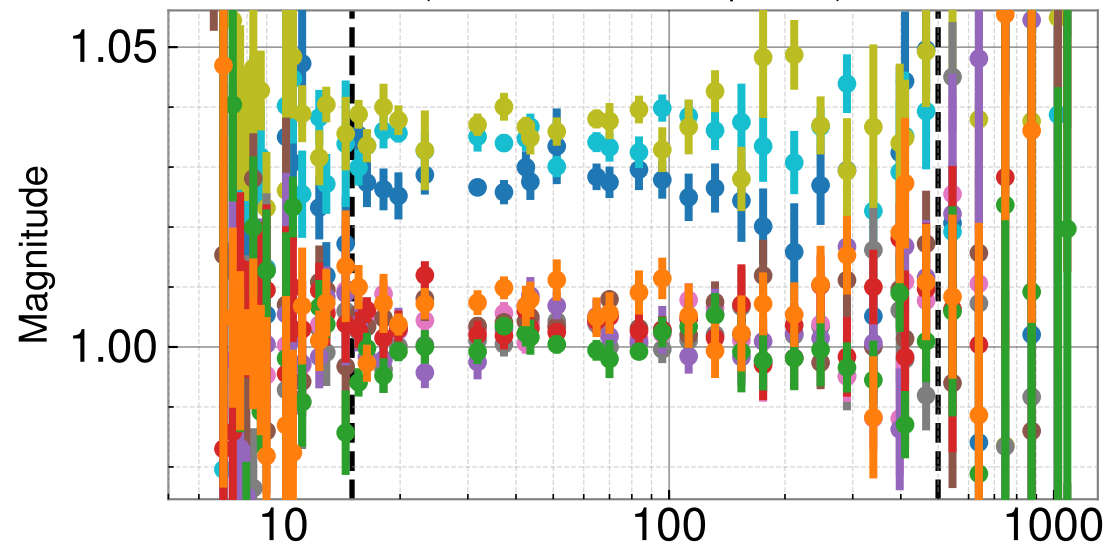
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20251204T035347Z/pydarm_H1.ini



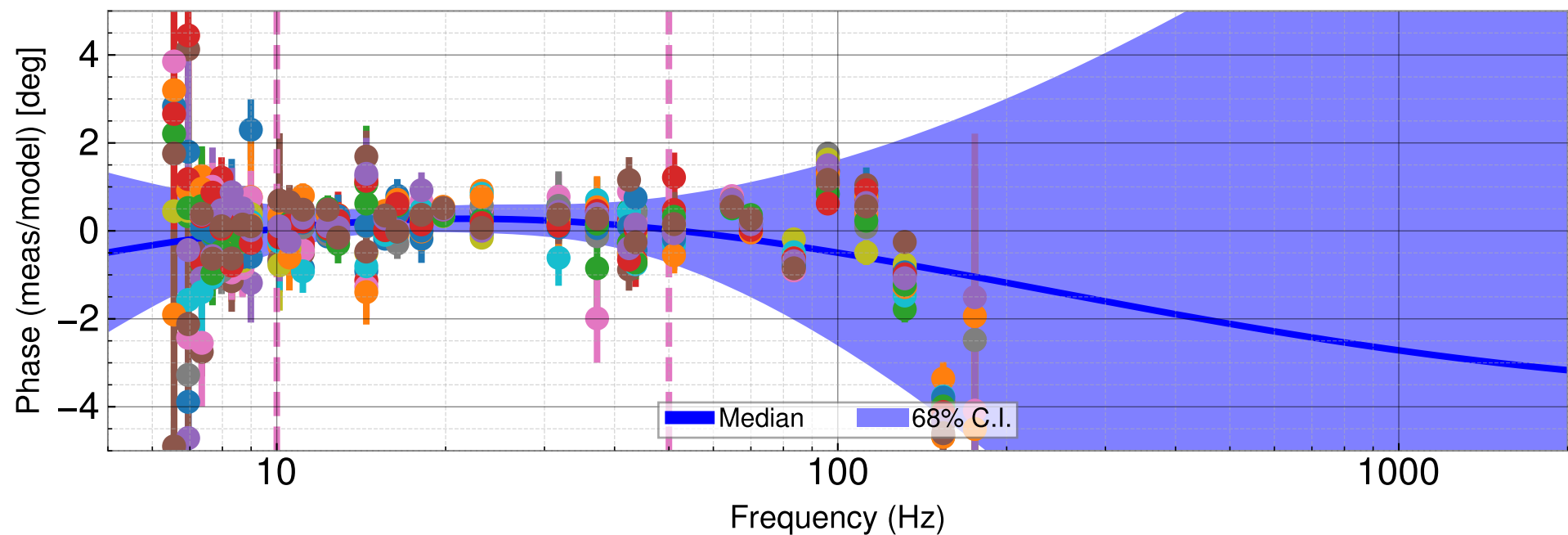
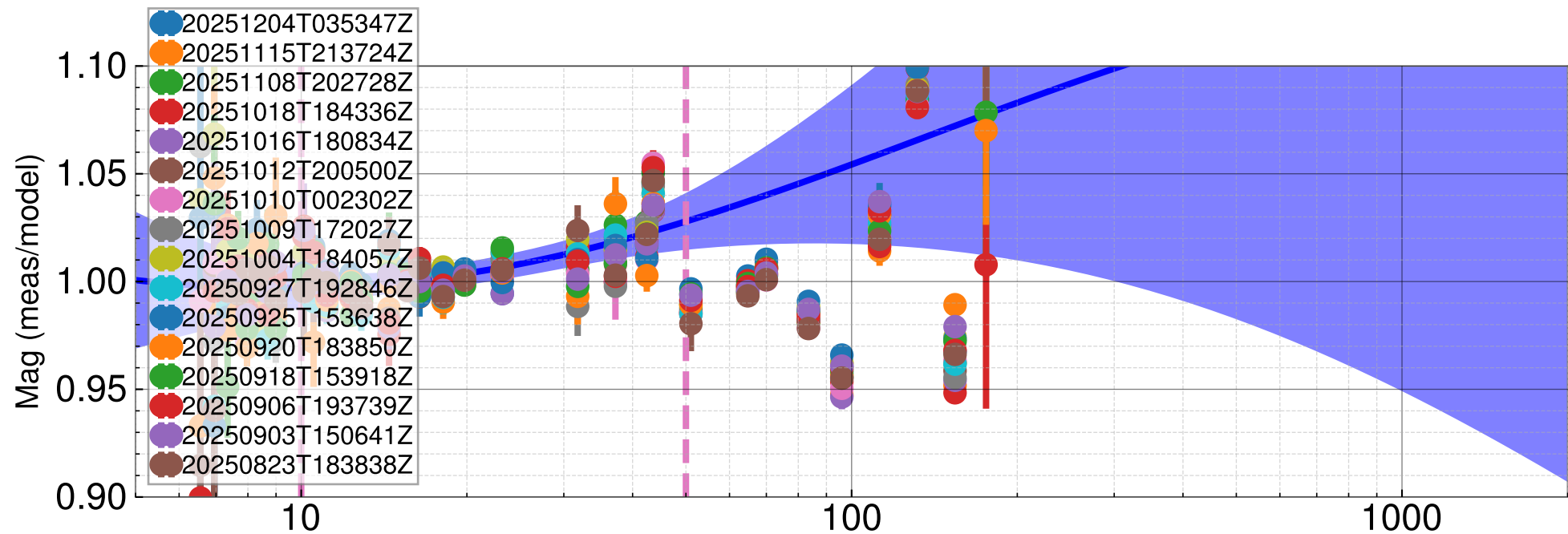
Actuation strength transfer functions
(scaled by H_{ref})



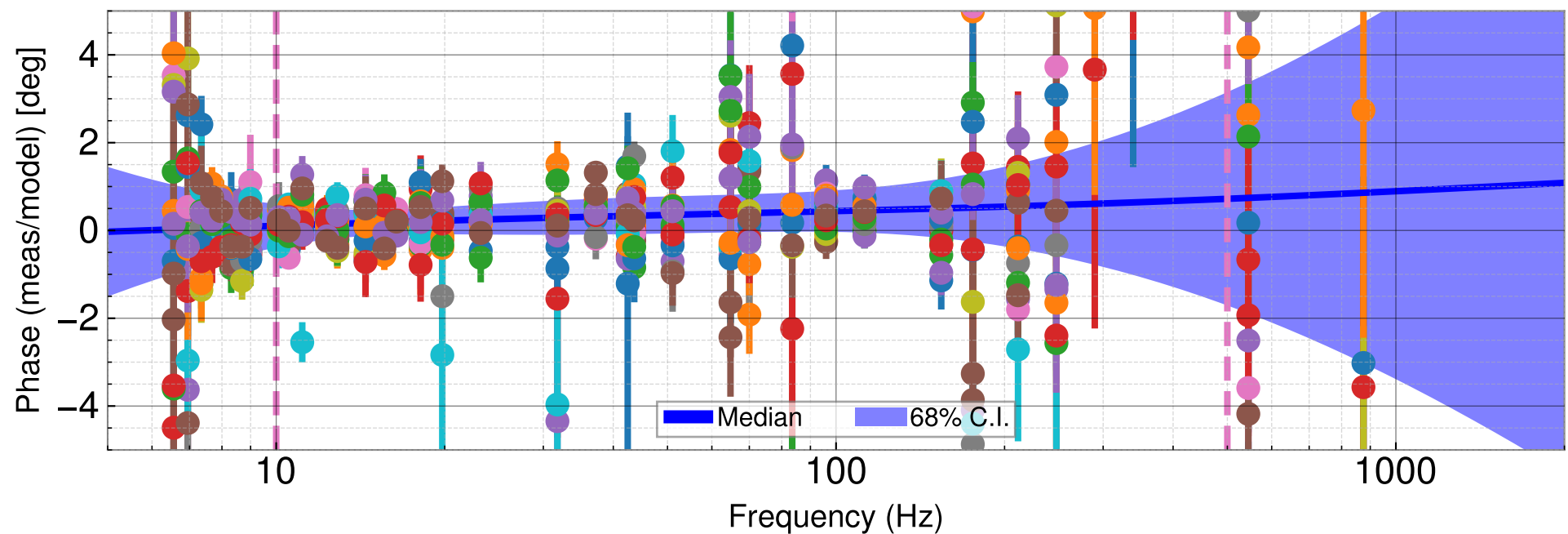
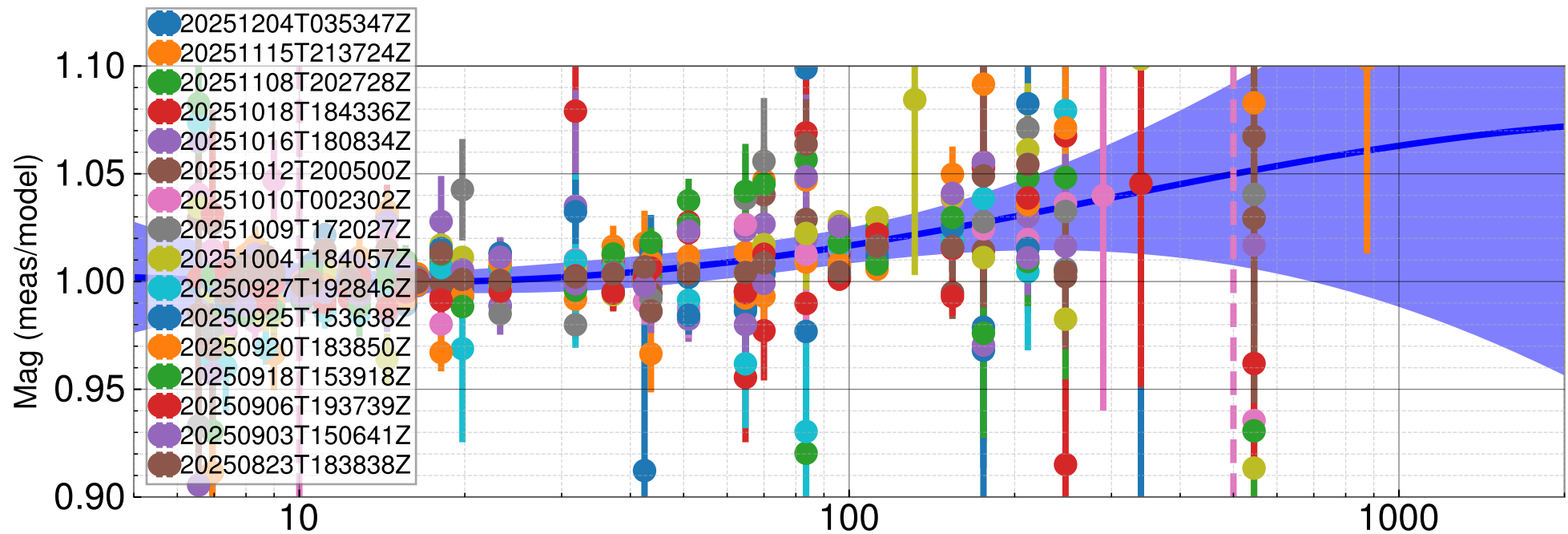
Actuation strength residuals
(meas./model w. free params)



Actuation/L1/EX GPR



Actuation/L2/EX GPR



Actuation/L3/EX GPR

