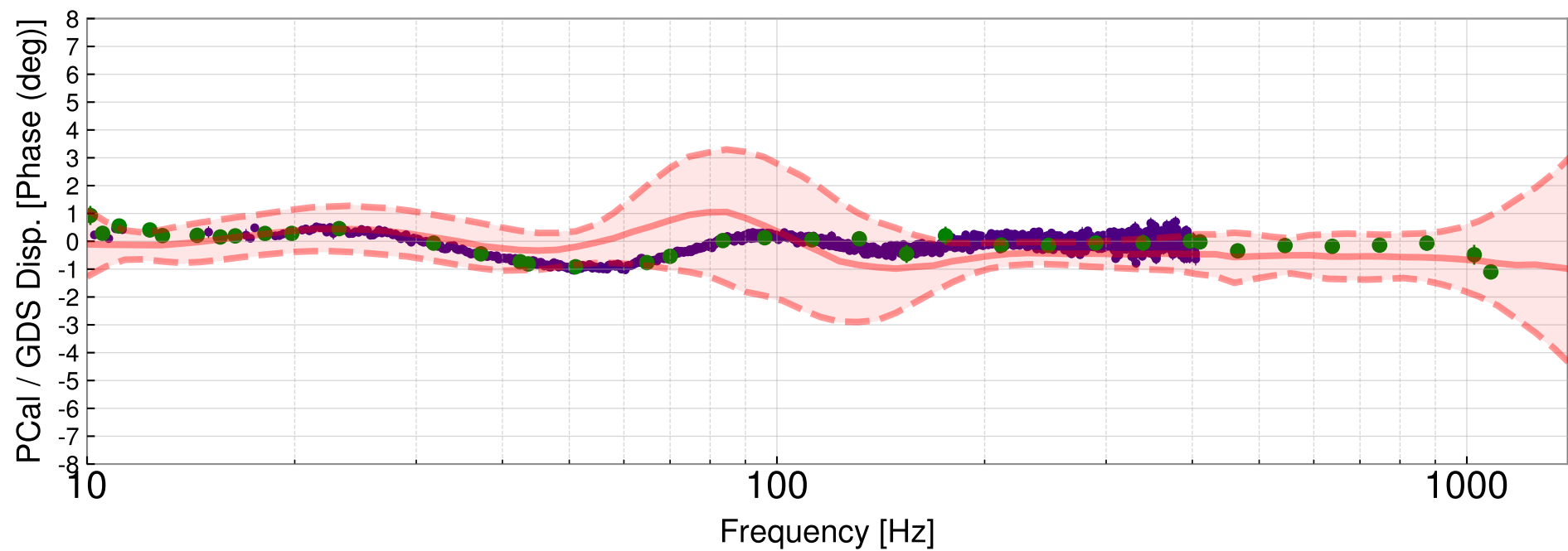
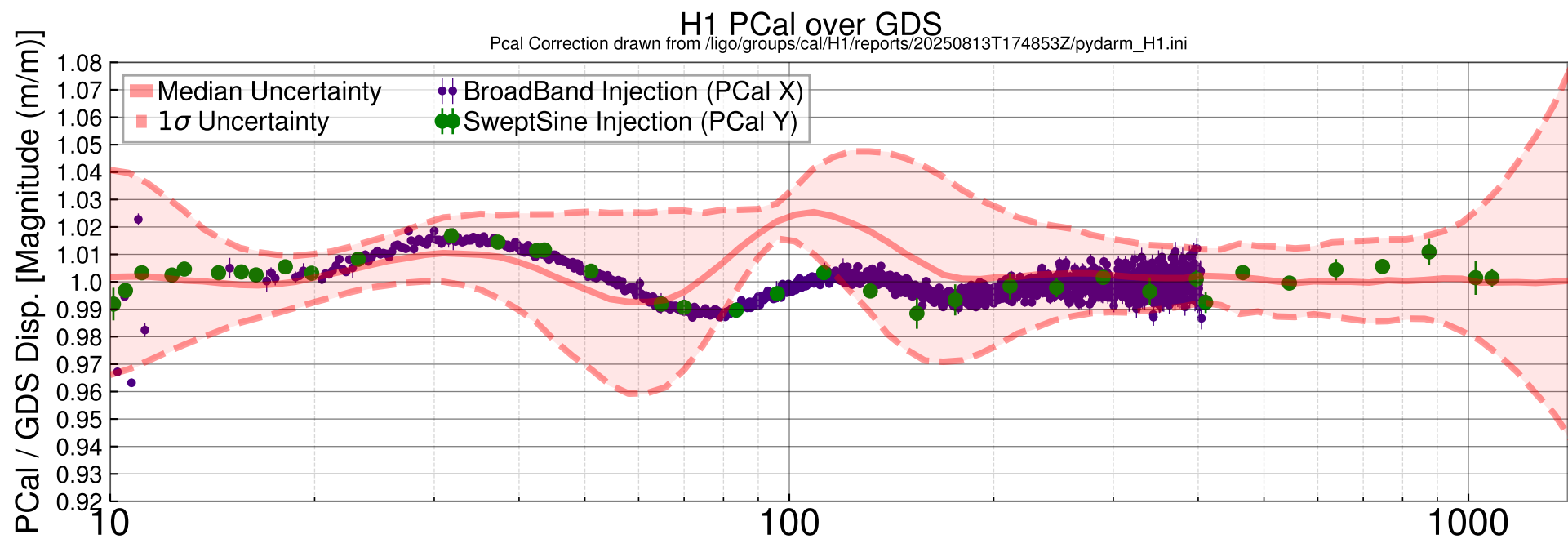
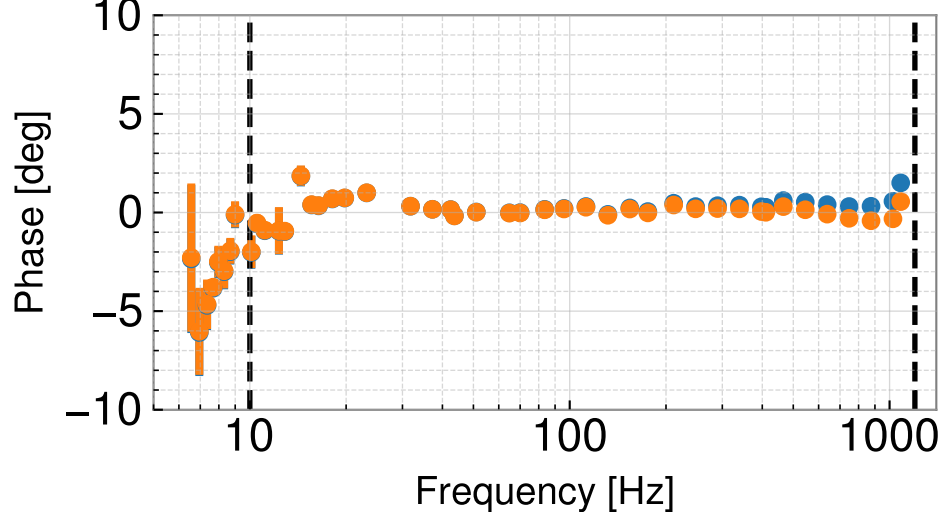
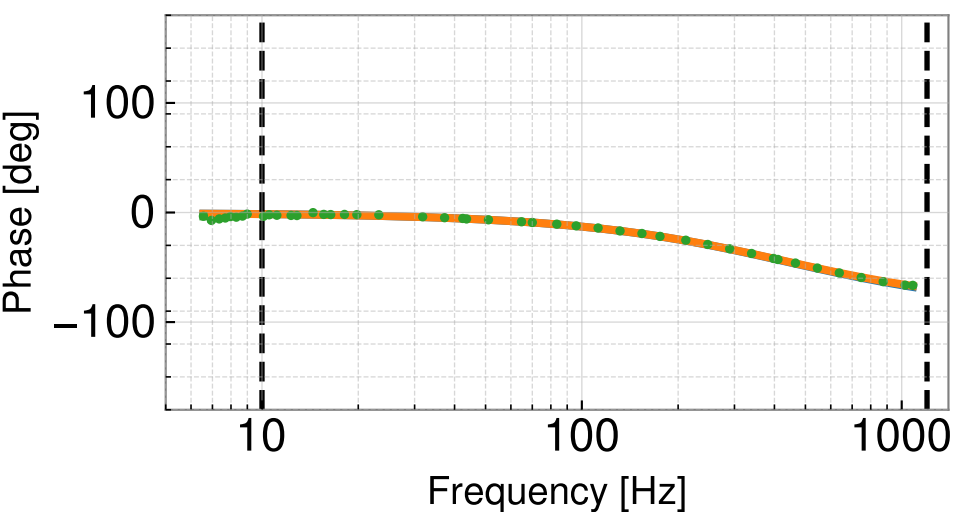
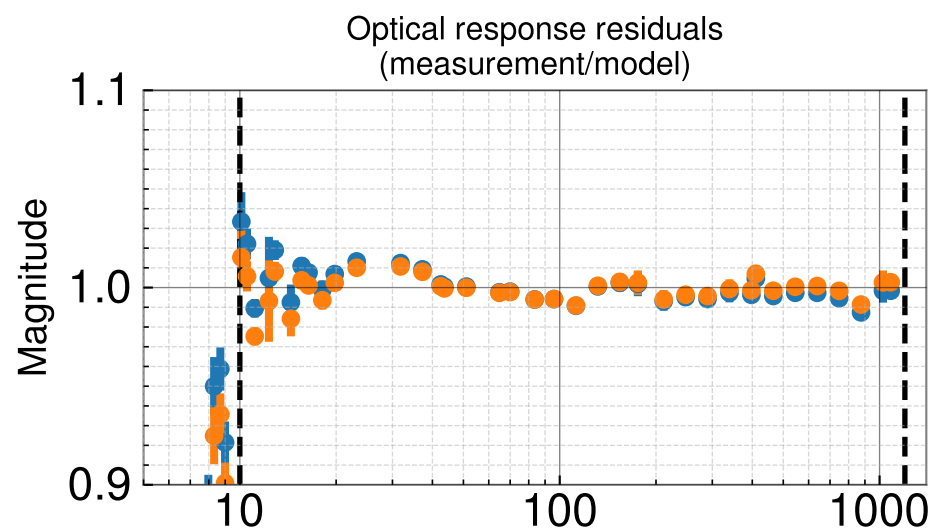
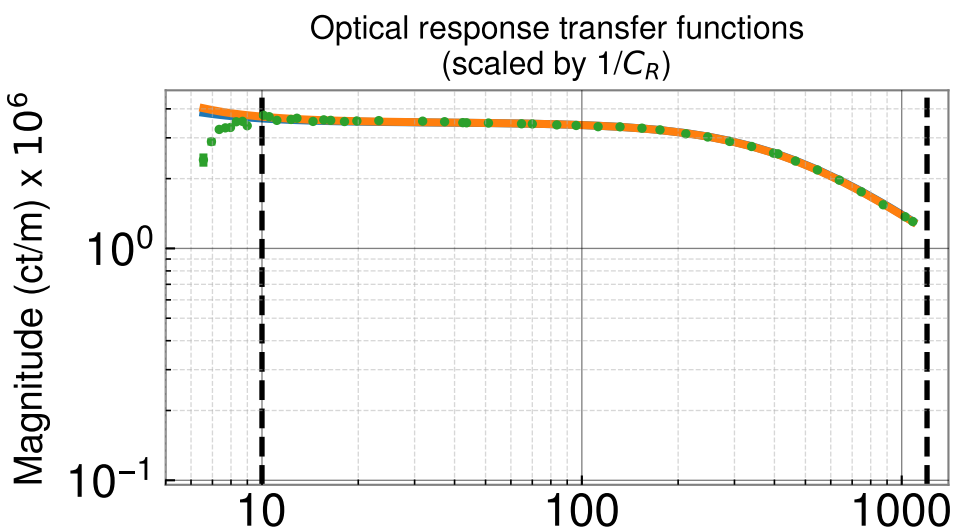
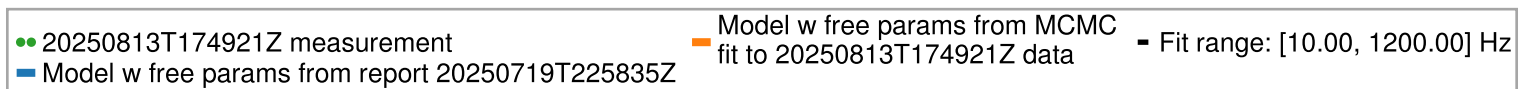




H1 sensing model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250813T174853Z/pydarm_H1.ini

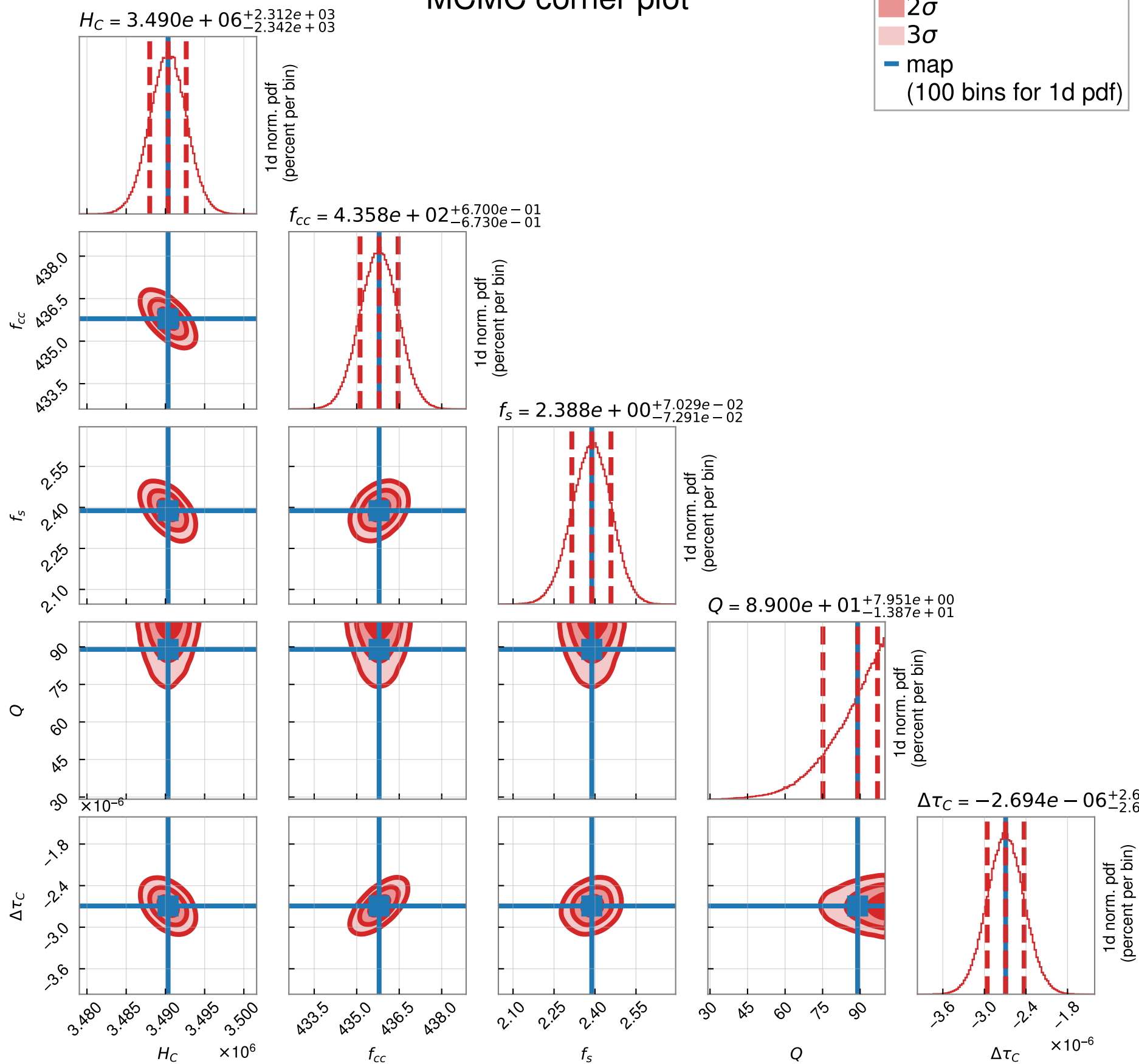


Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.49e+06	2312 (0.07%)	2342 (0.07%)
Cavity_pole, f_cc (Hz)	435.8	0.67 (0.15%)	0.673 (0.15%)
Detuned SRC spring frequency, f_s (Hz)	2.388	0.07029 (2.94%)	0.07291 (3.05%)
Detuned SRC spring quality factor, Q_s	89	7.951 (8.93%)	13.87 (15.58%)
Residual time delay, tau_c (s)	-2.694e-06	2.672e-07 (-9.92%)	2.66e-07 (-9.88%)

2d pdf contours

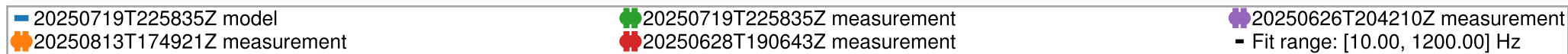
- 1 σ
- 2 σ
- 3 σ
- map

(100 bins for 1d pdf)

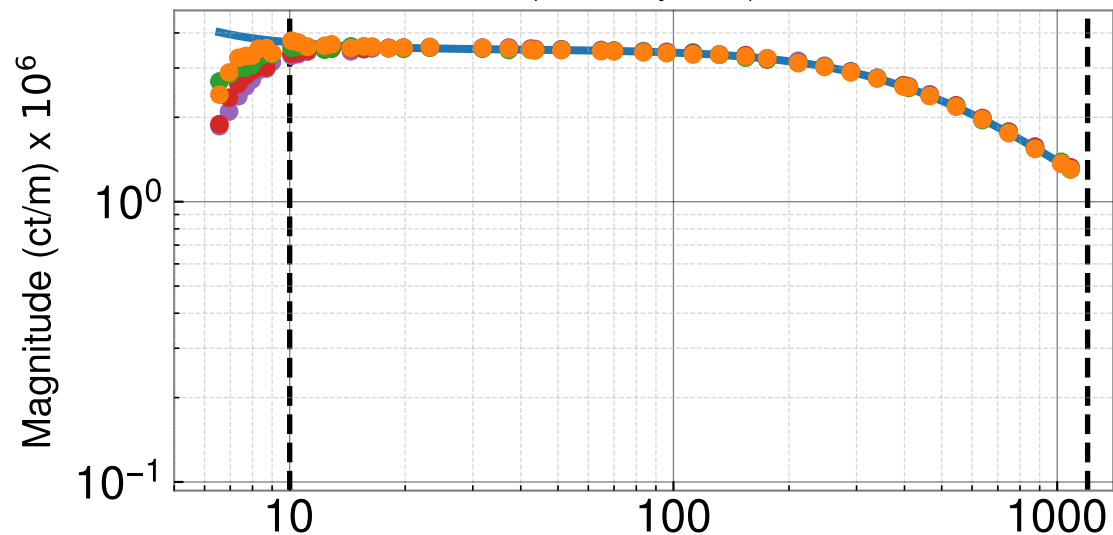


H1 sensing model history (last 9 measurements)

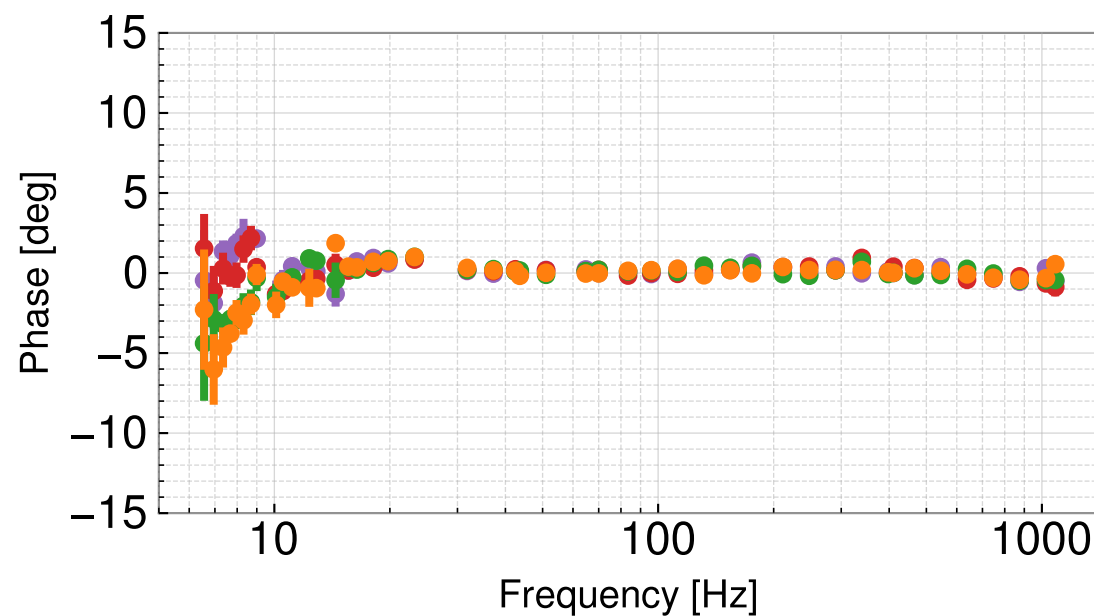
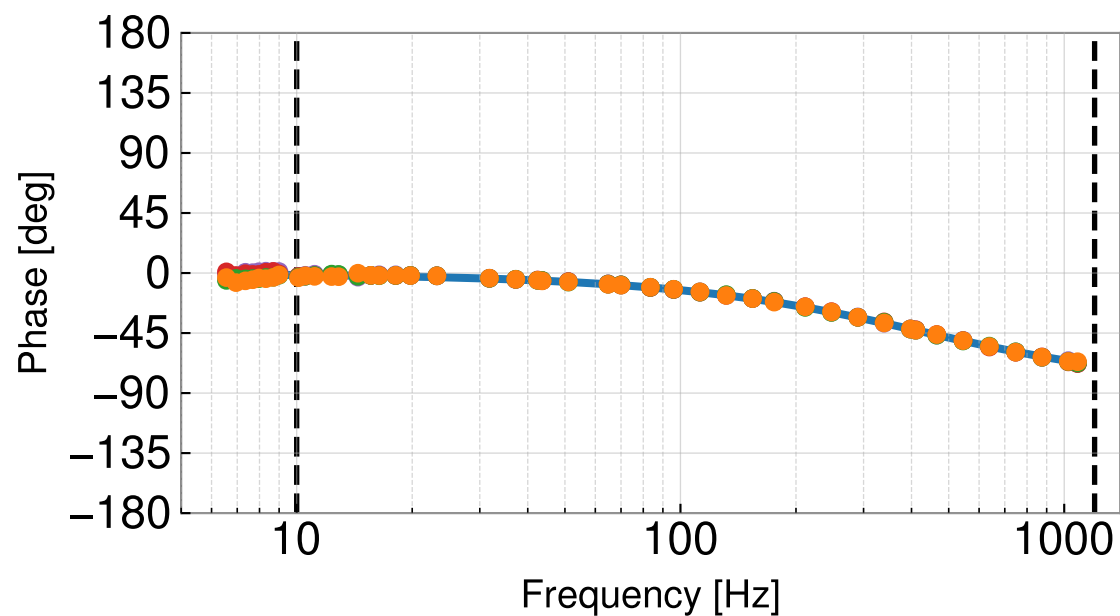
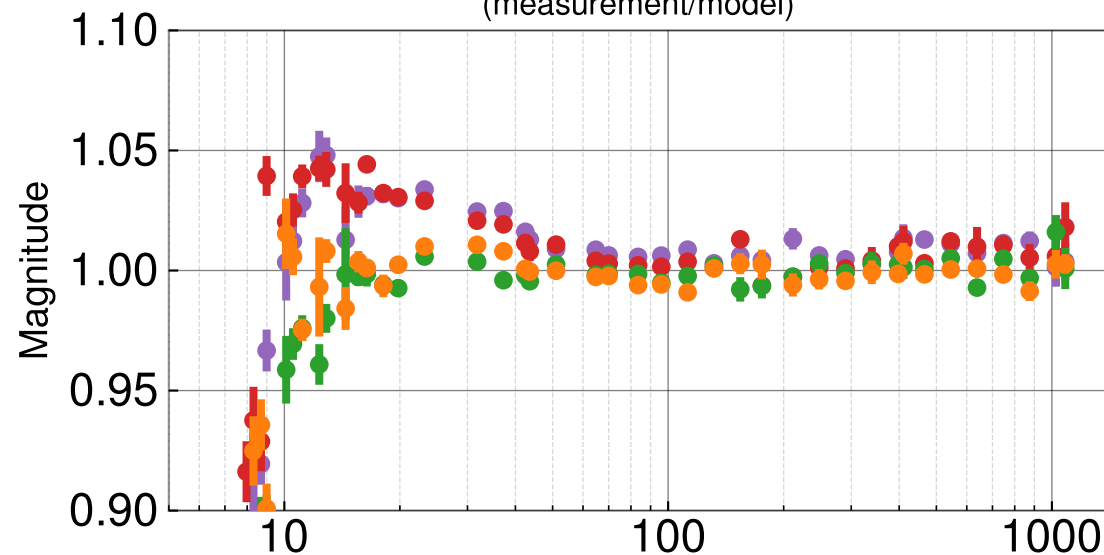
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250813T174853Z/pydarm_H1.ini



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

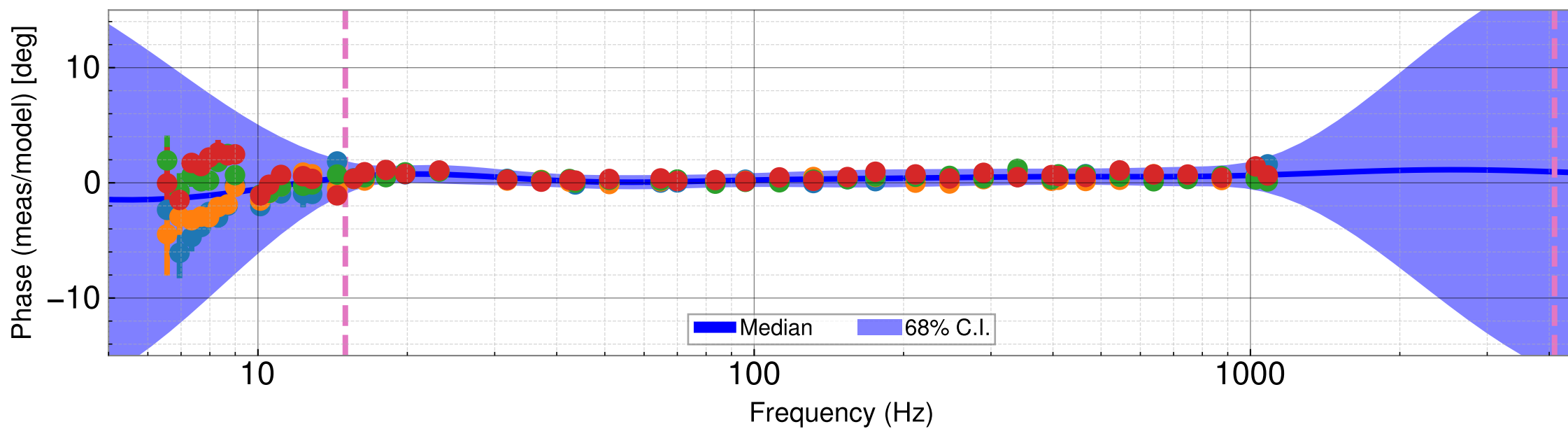
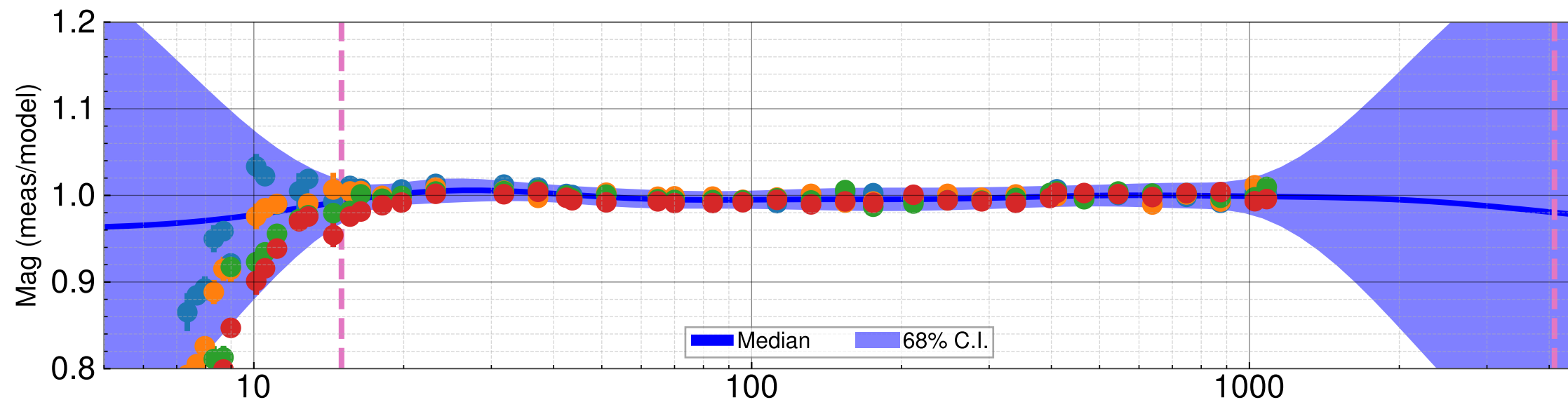


Optical response residuals
(measurement/model)



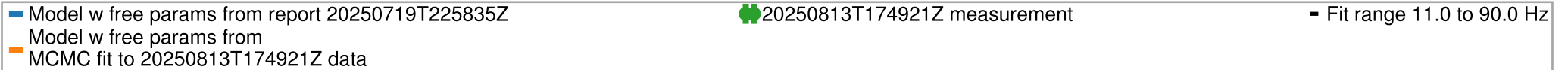
Sensing GPR

meas. 20250813T174921Z of report 20250813T174853Z
meas. 20250628T190710Z of report 20250628T190643Z
meas. 20250626T204238Z of report 20250626T204210Z
meas. 20250719T225903Z of report 20250719T225835Z

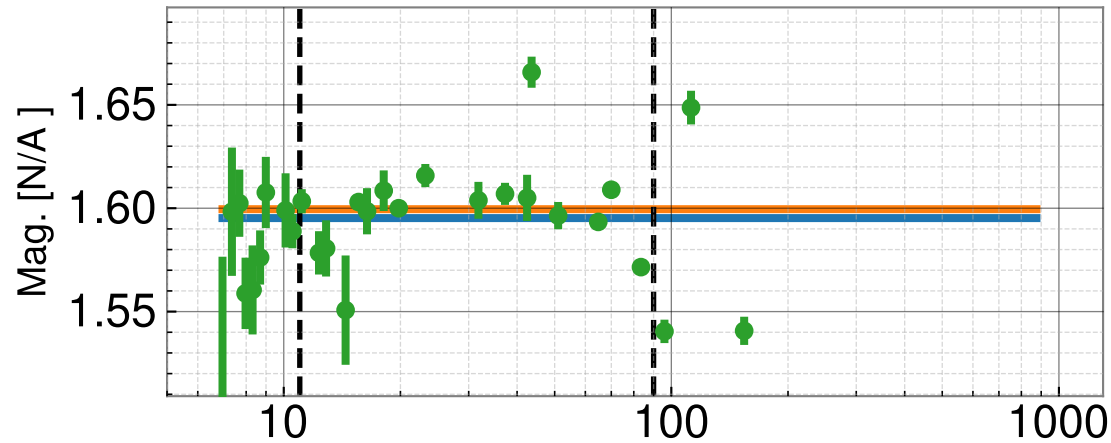


H1SUSEX L1 actuation model MCMC summary

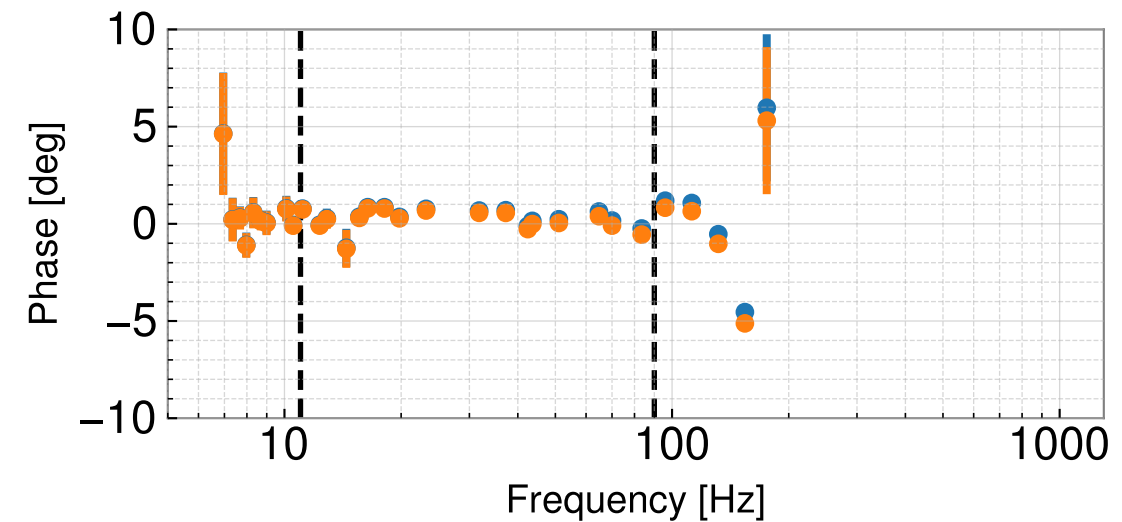
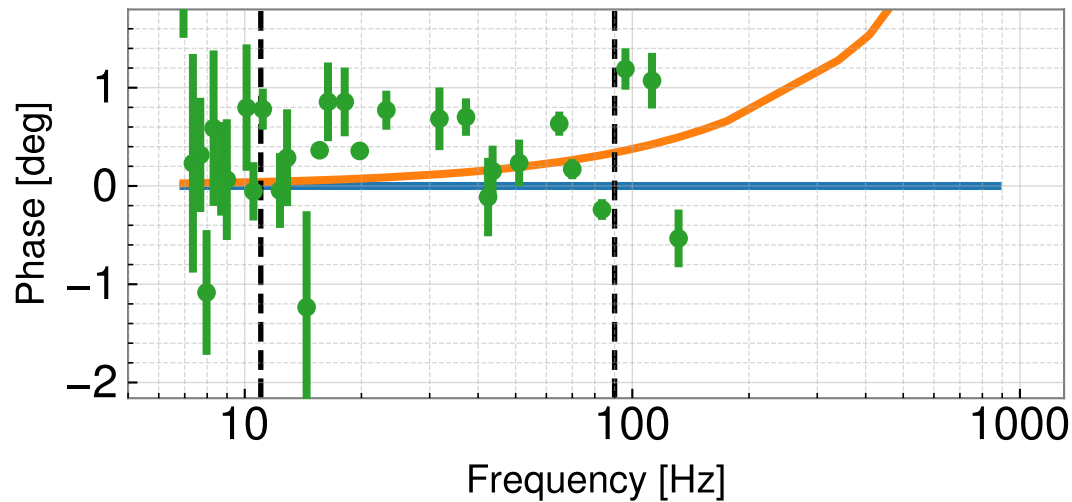
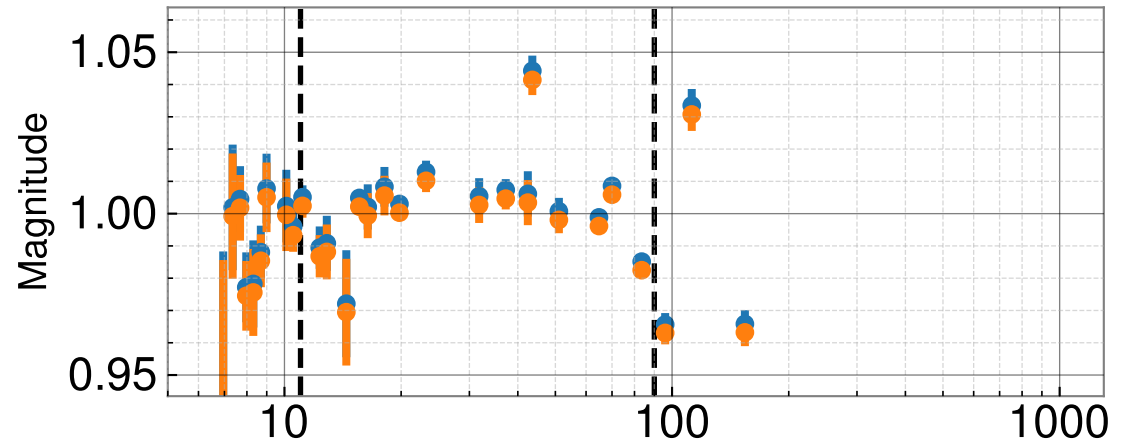
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250813T174853Z/pydarm_H1.ini



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



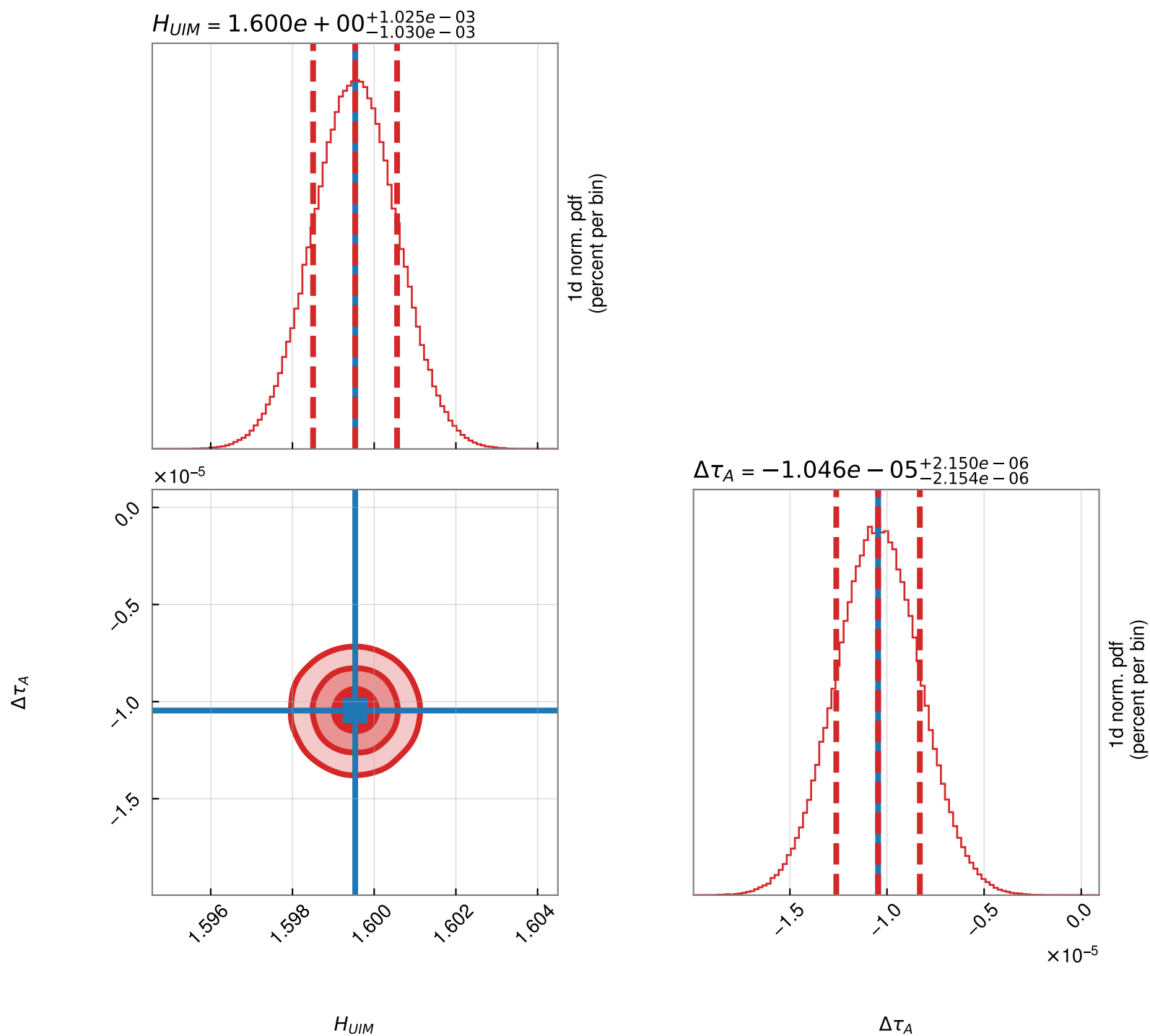
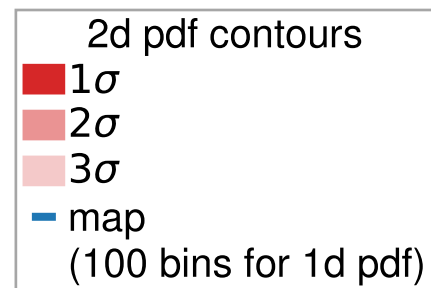
Actuation strength residuals
(meas./model w. free params)



Parameter	(value +/-)	value	+	-
Actuation Gain, Hau (N/A)	1.6	0.001025 (0.06%)	0.00103 (0.06%)	
Residual time delay, tau A (s)	-1.046e-05	2.15e-06 (-20.56%)	2.154e-06 (-20.60%)	

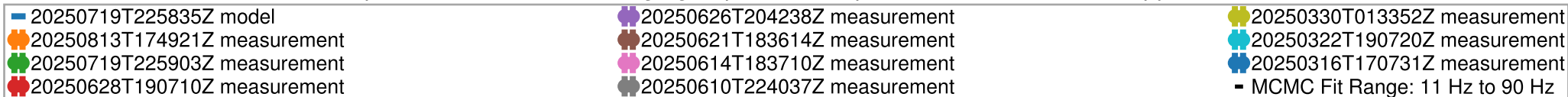
20250813T174921Z EX L1 actuation

MCMC corner plot

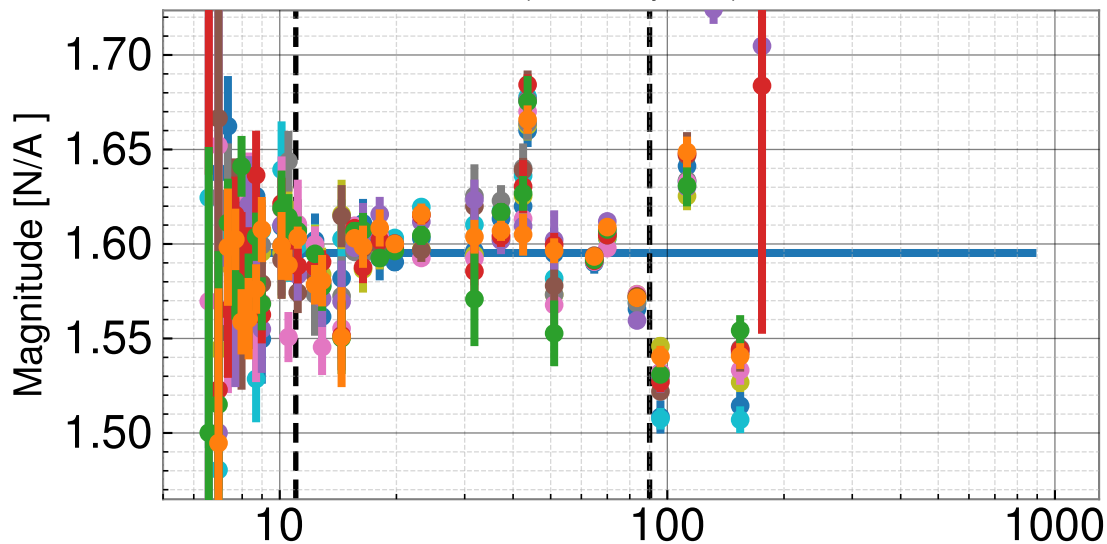


H1SUSEX L1 actuation model history (last 9 measurements)

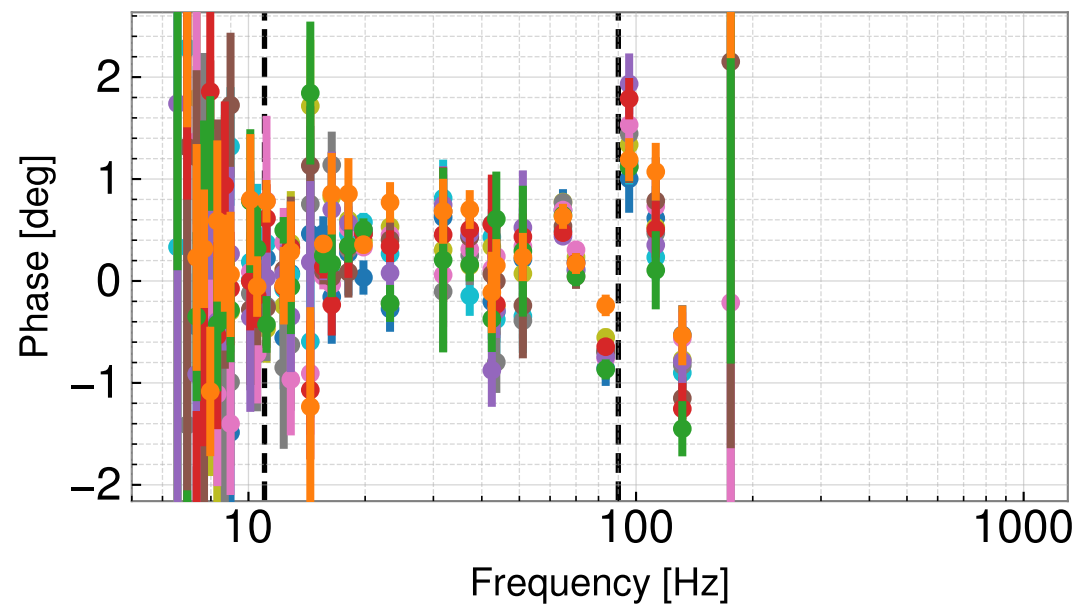
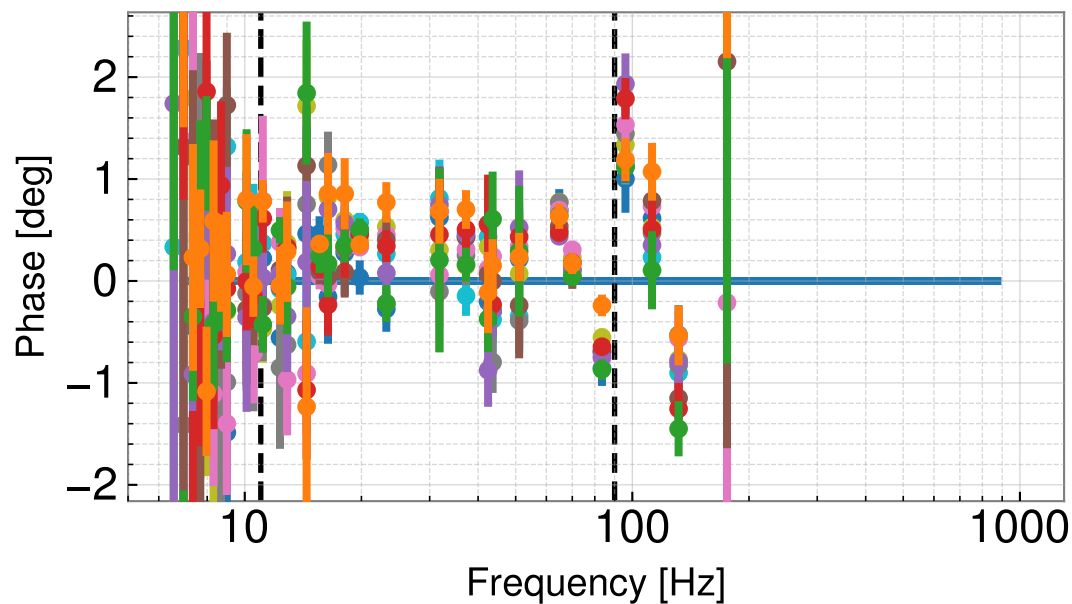
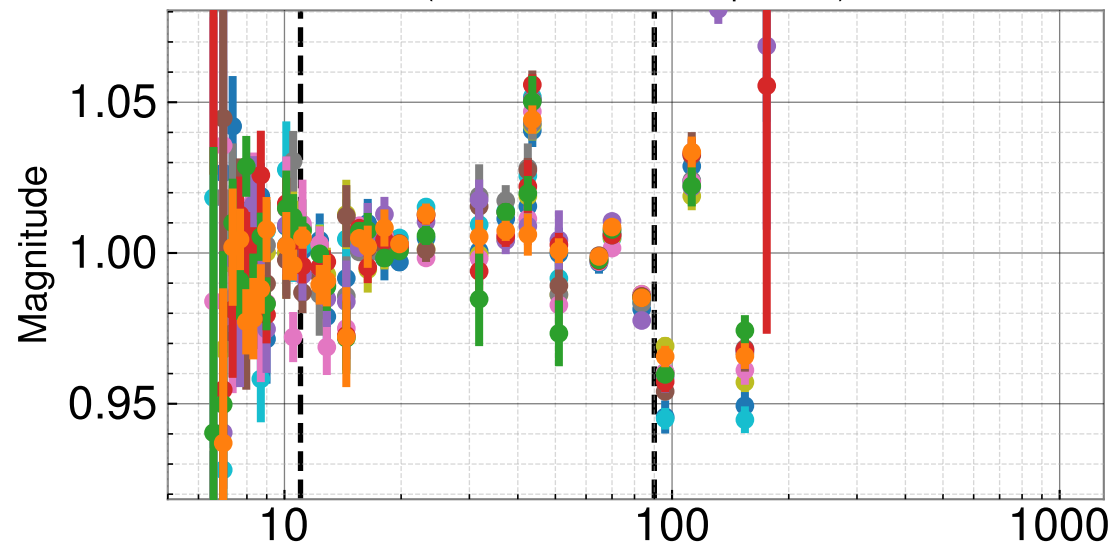
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20250813T174853Z/pydarm_H1.ini`



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



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

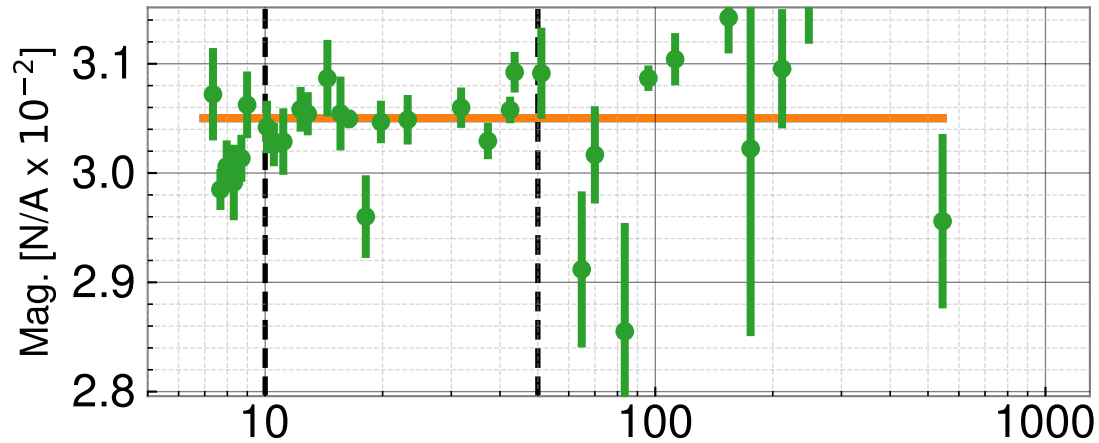


H1SUSEX L2 actuation model MCMC summary

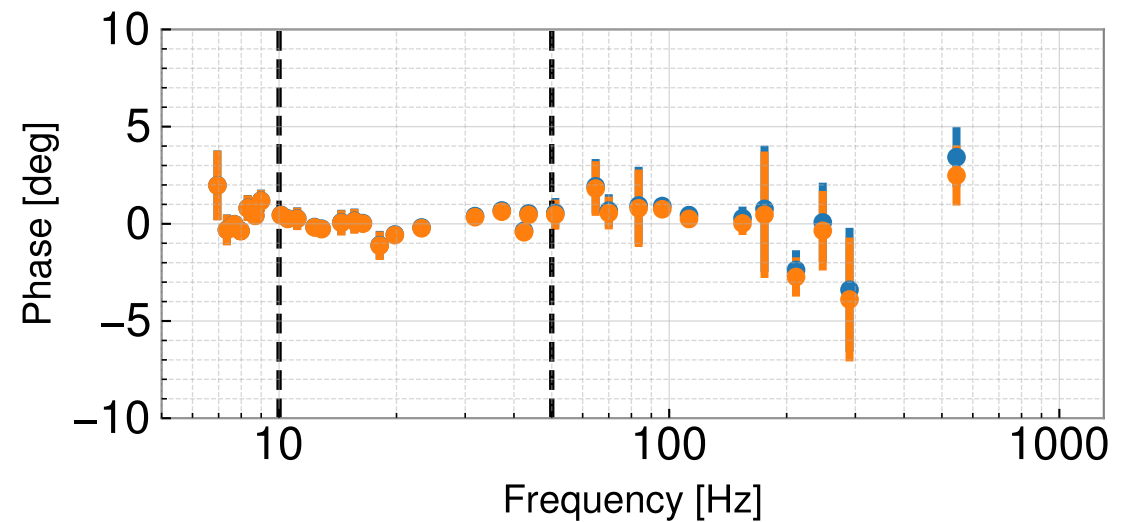
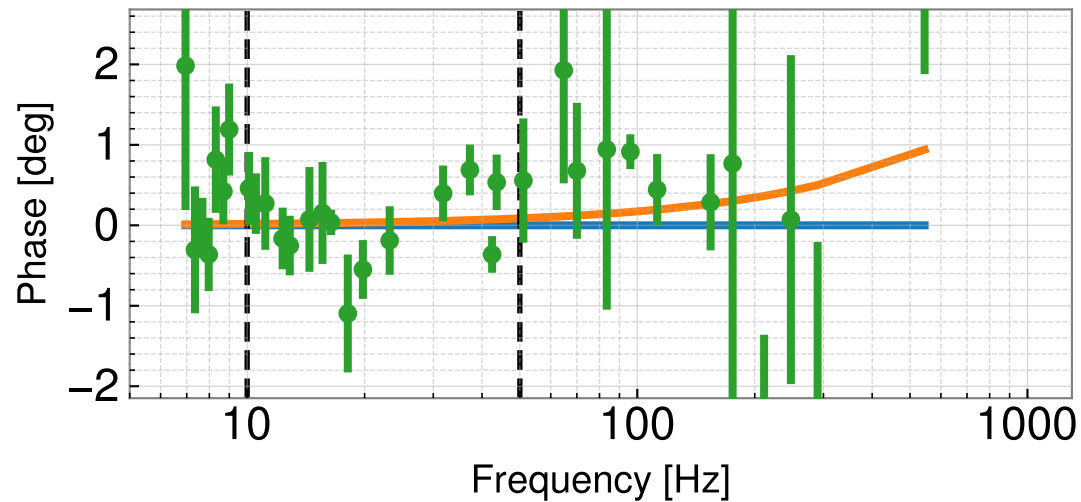
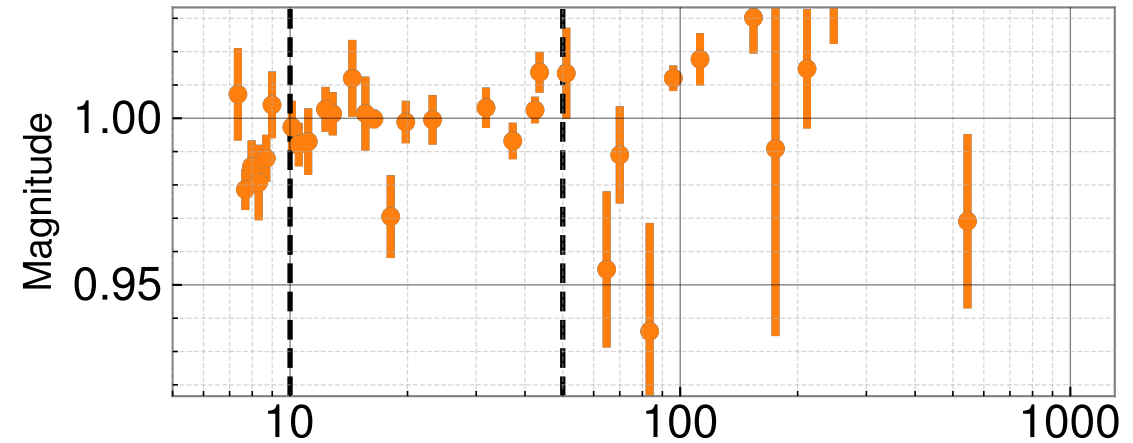
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250813T174853Z/pydarm_H1.ini



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

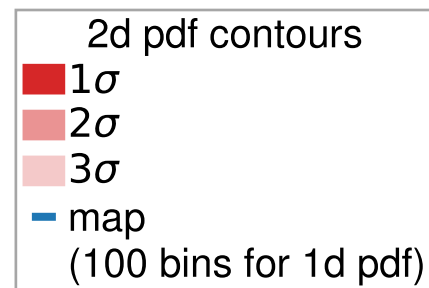


Actuation strength residuals
(meas./model w. free params)

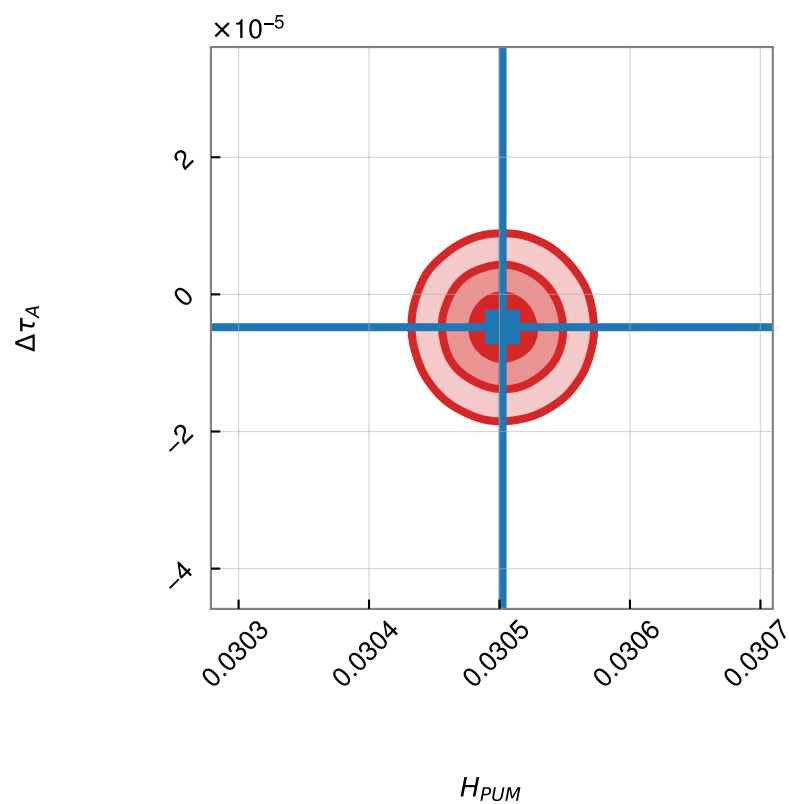
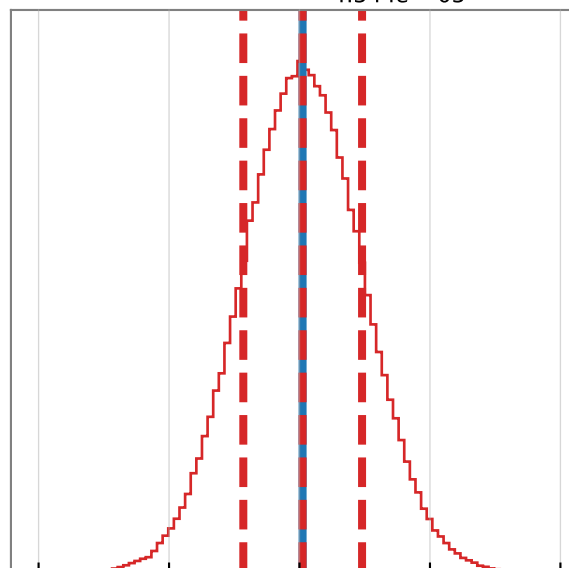


Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.0305	4.559e-05 (0.15%)	4.544e-05 (0.15%)
Residual time delay, tau_A (s)	-4.792e-06	9.004e-06 (-187.89%)	8.965e-06 (-187.08%)

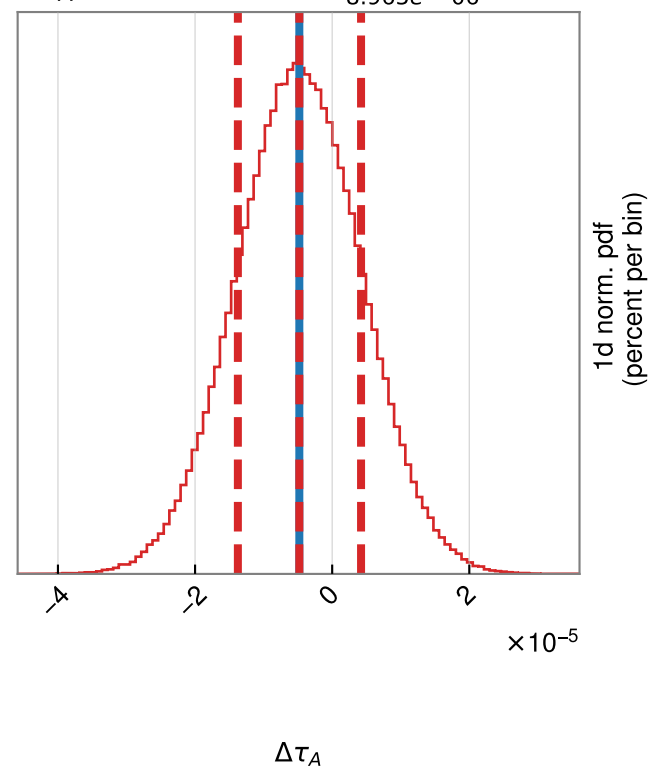
20250813T174921Z EX L2 actuation MCMC corner plot



$$H_{PUM} = 3.050e - 02^{+4.559e - 05}_{-4.544e - 05}$$

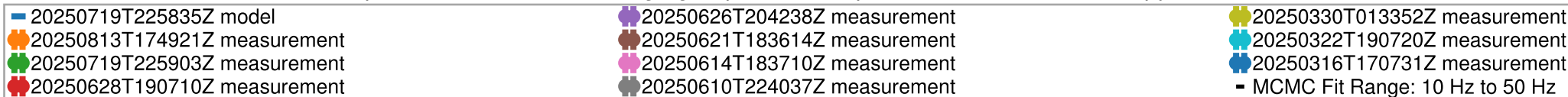


$$\Delta\tau_A = -4.792e - 06^{+9.004e - 06}_{-8.965e - 06}$$

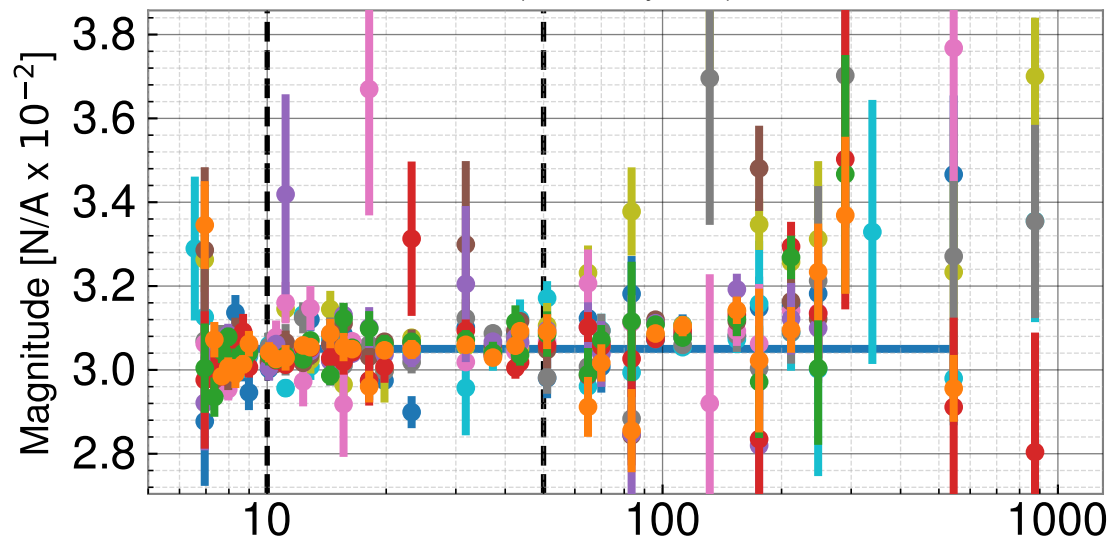


H1SUSEX L2 actuation model history (last 9 measurements)

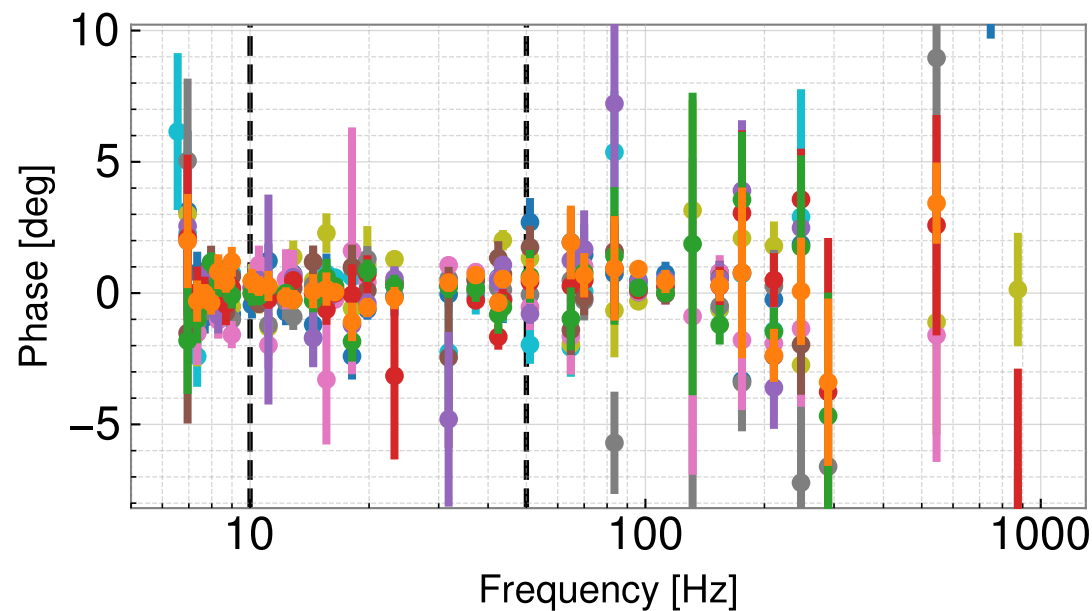
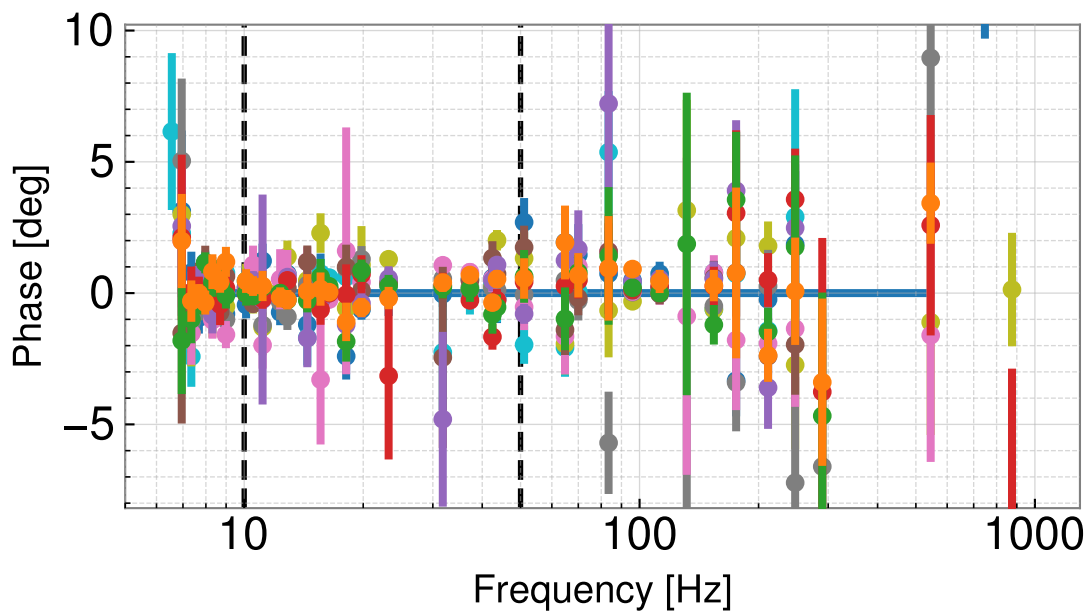
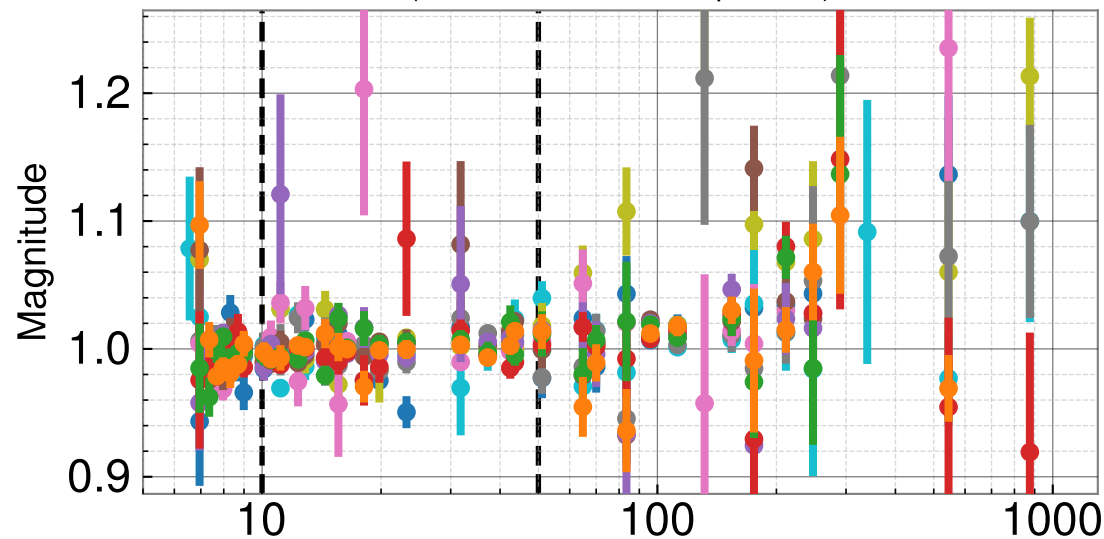
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20250813T174853Z/pydarm_H1.ini`



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

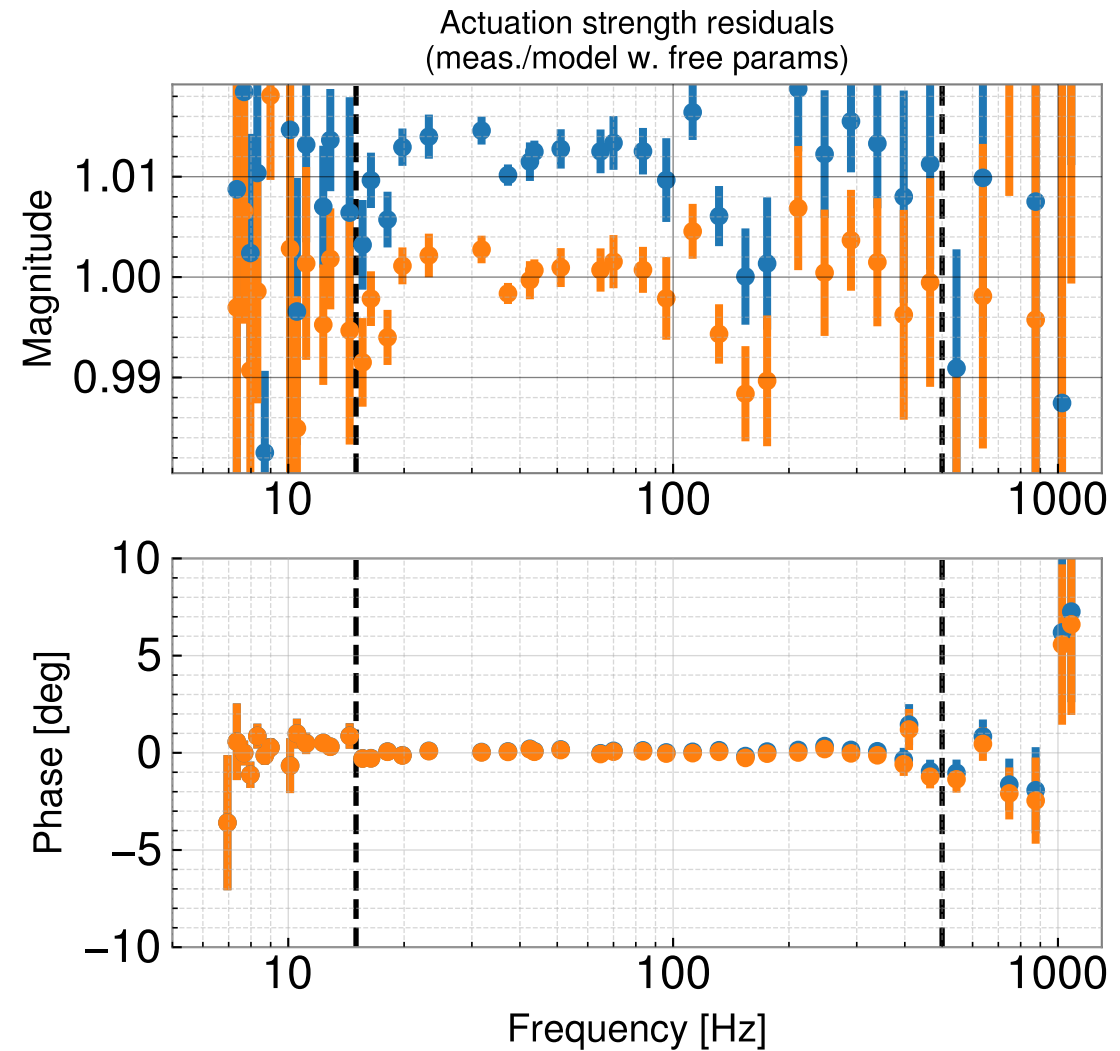
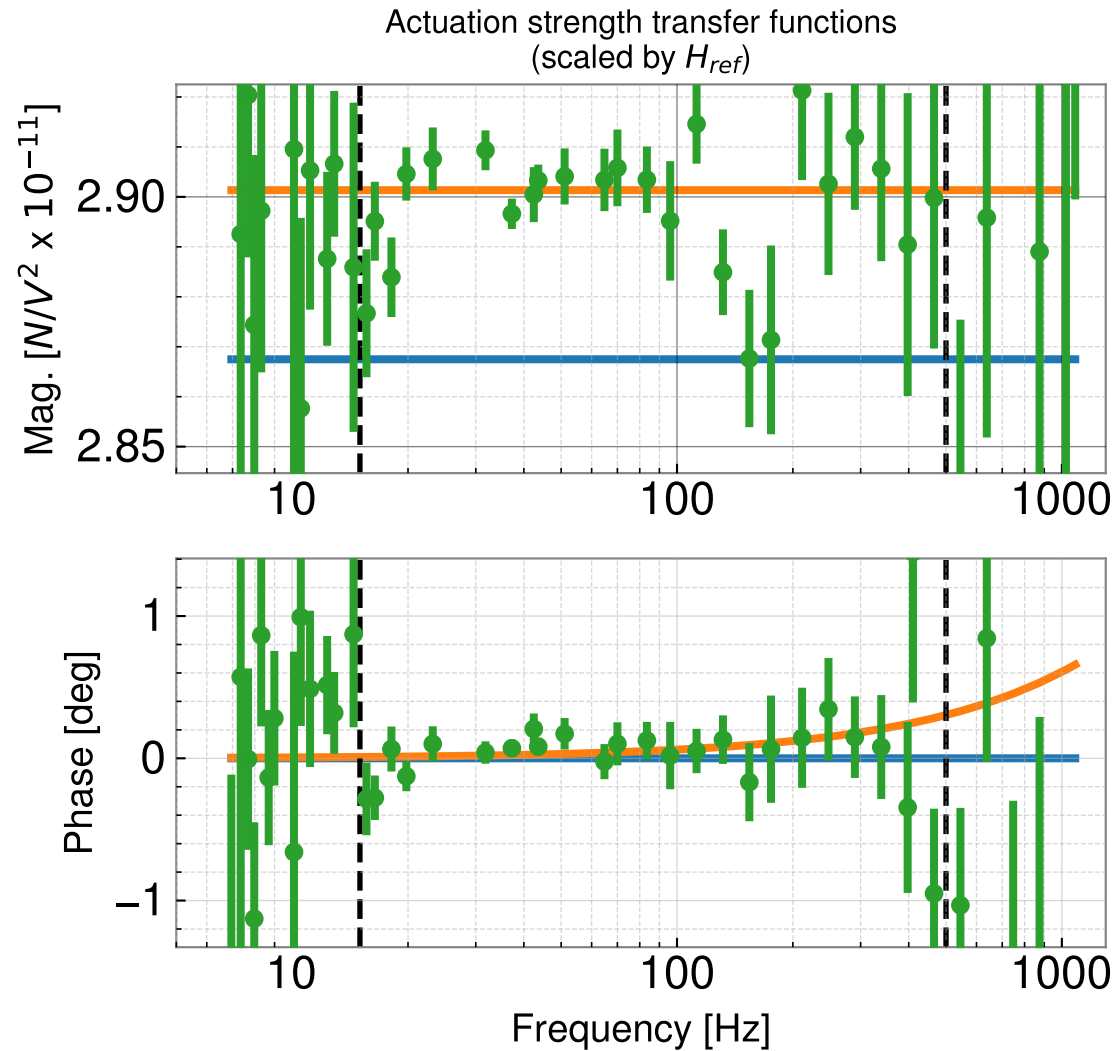


Actuation strength residuals
(meas./model w. free params)



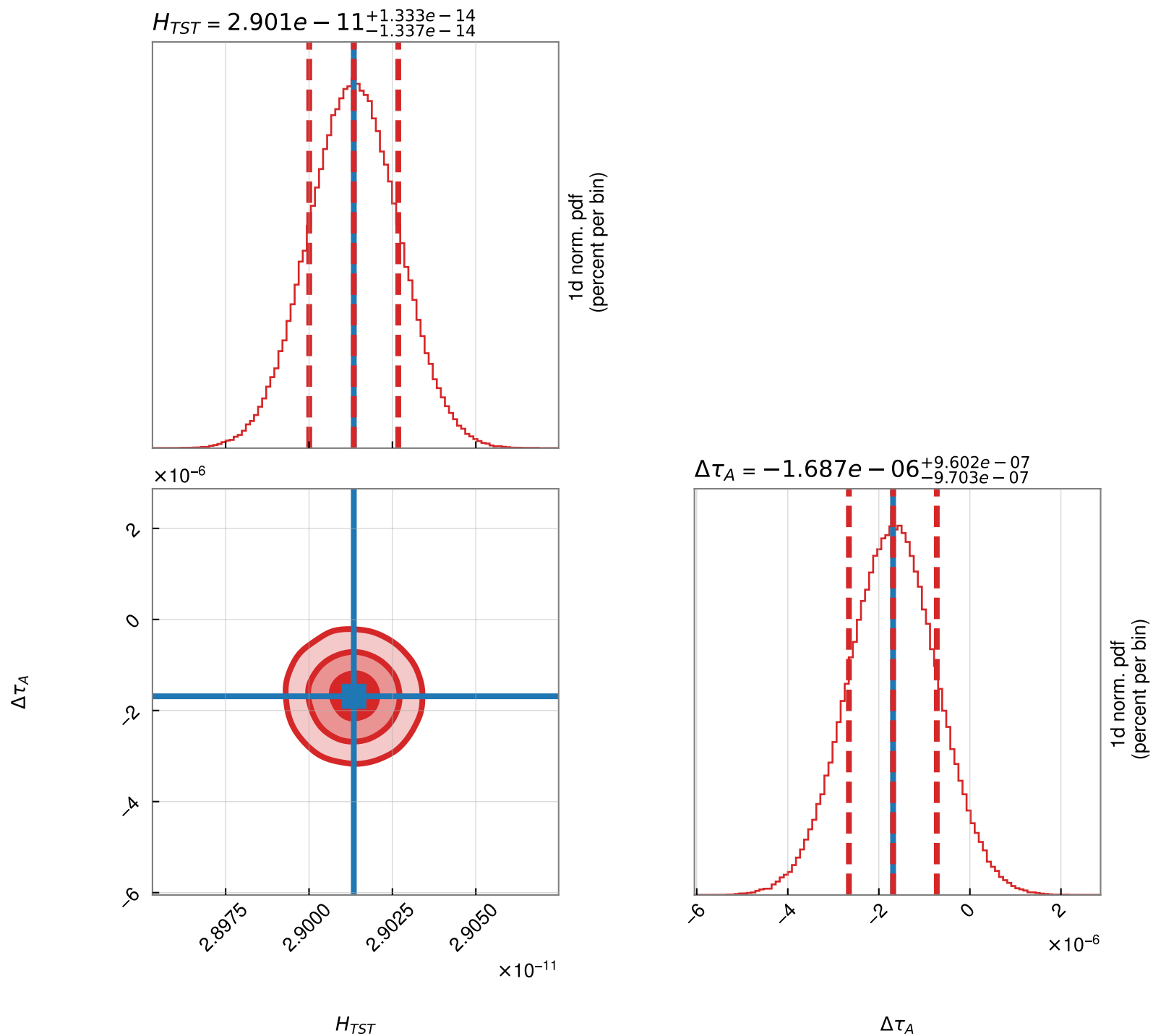
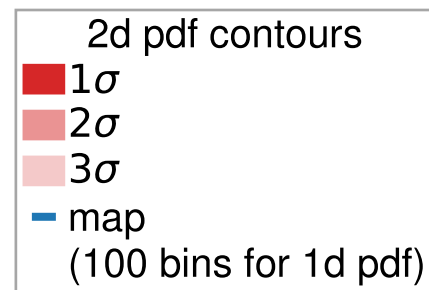
H1SUSEX L3 actuation model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250813T174853Z/pydarm_H1.ini



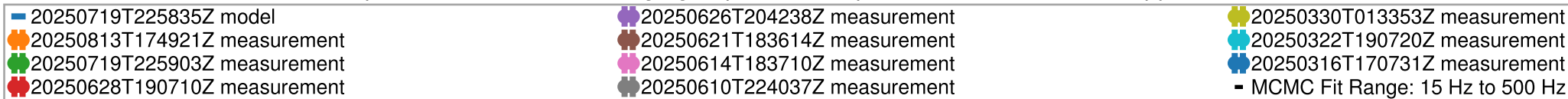
Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V^{**2})	2.901e-11	1.333e-14 (0.05%)	1.337e-14 (0.05%)
Residual time delay, tau_A (s)	-1.687e-06	9.602e-07 (-56.91%)	9.703e-07 (-57.50%)

20250813T174921Z EX L3 actuation MCMC corner plot

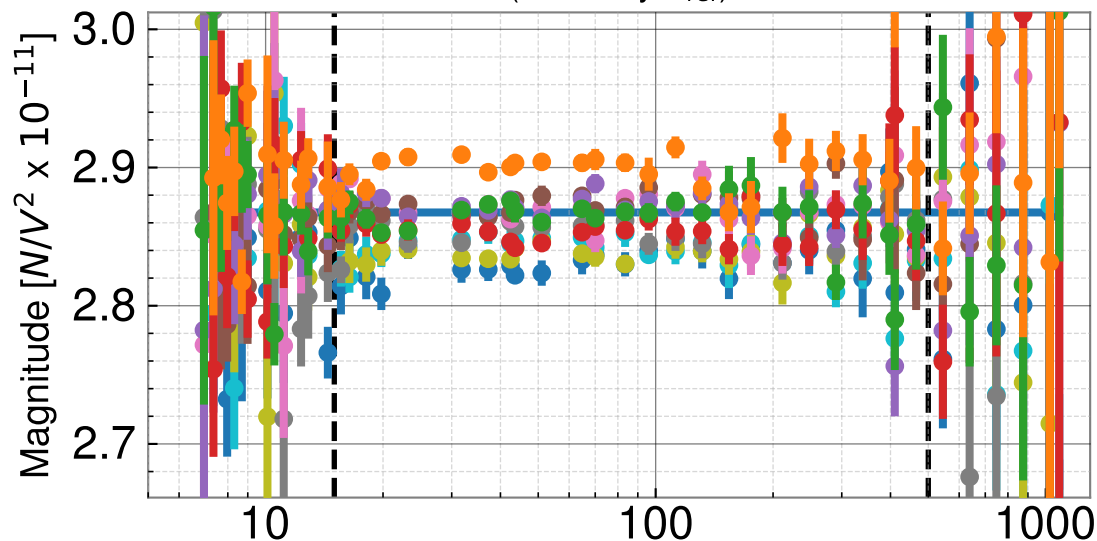


H1SUSEX L3 actuation model history (last 9 measurements)

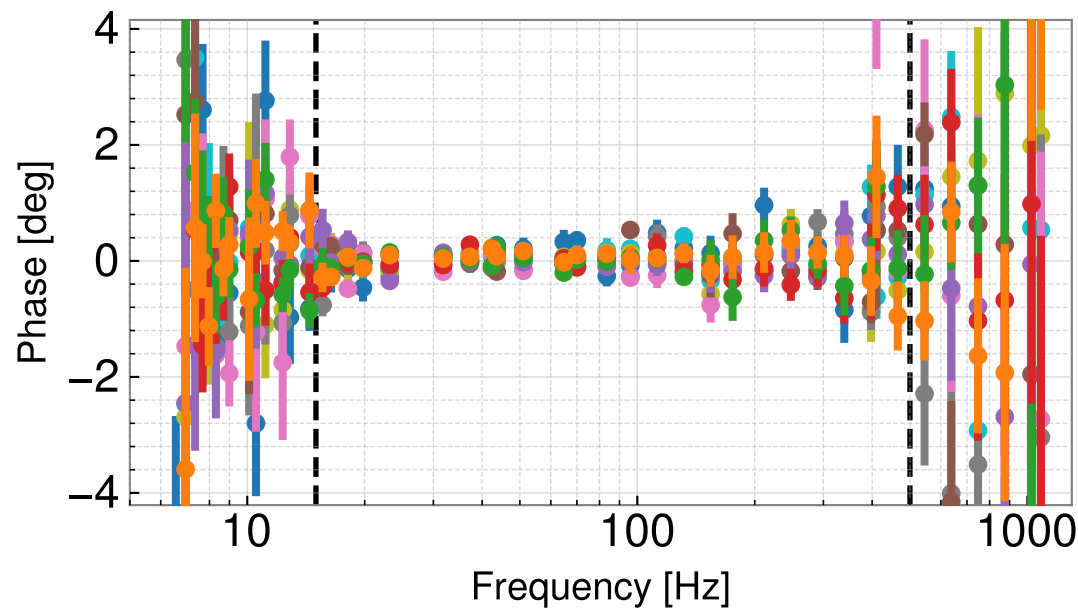
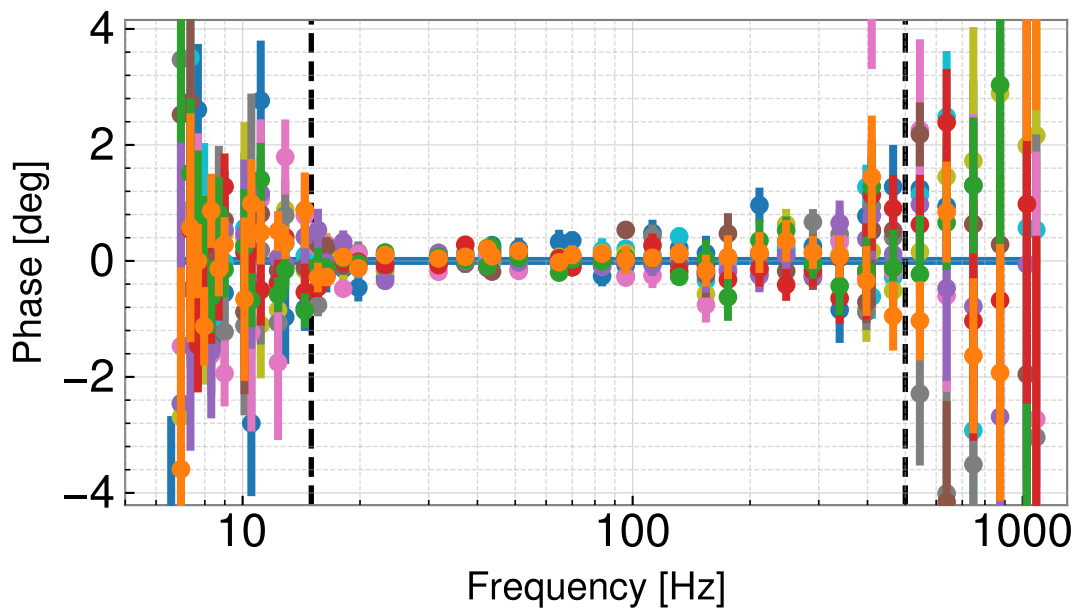
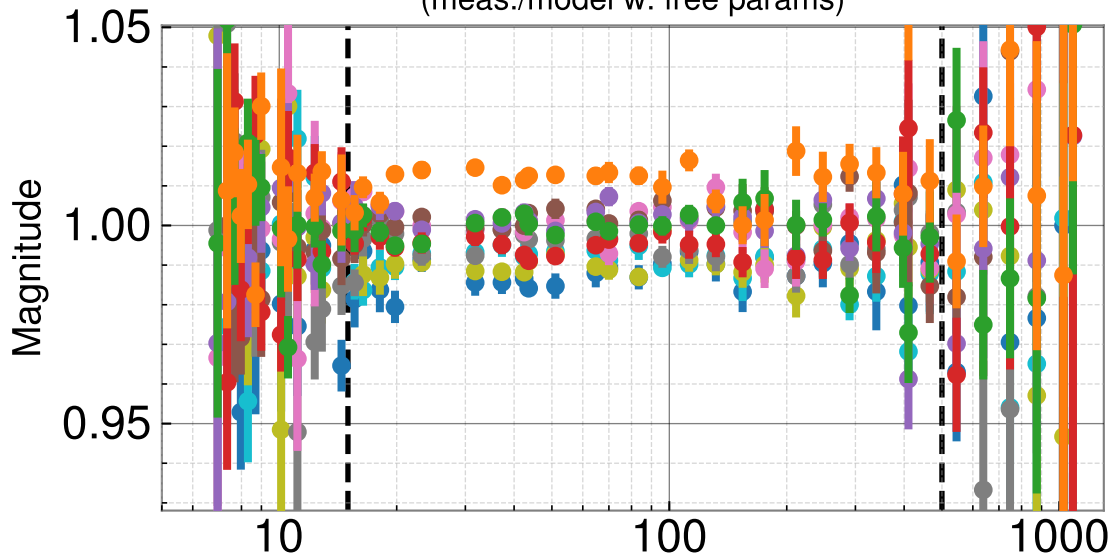
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20250813T174853Z/pydarm_H1.ini`



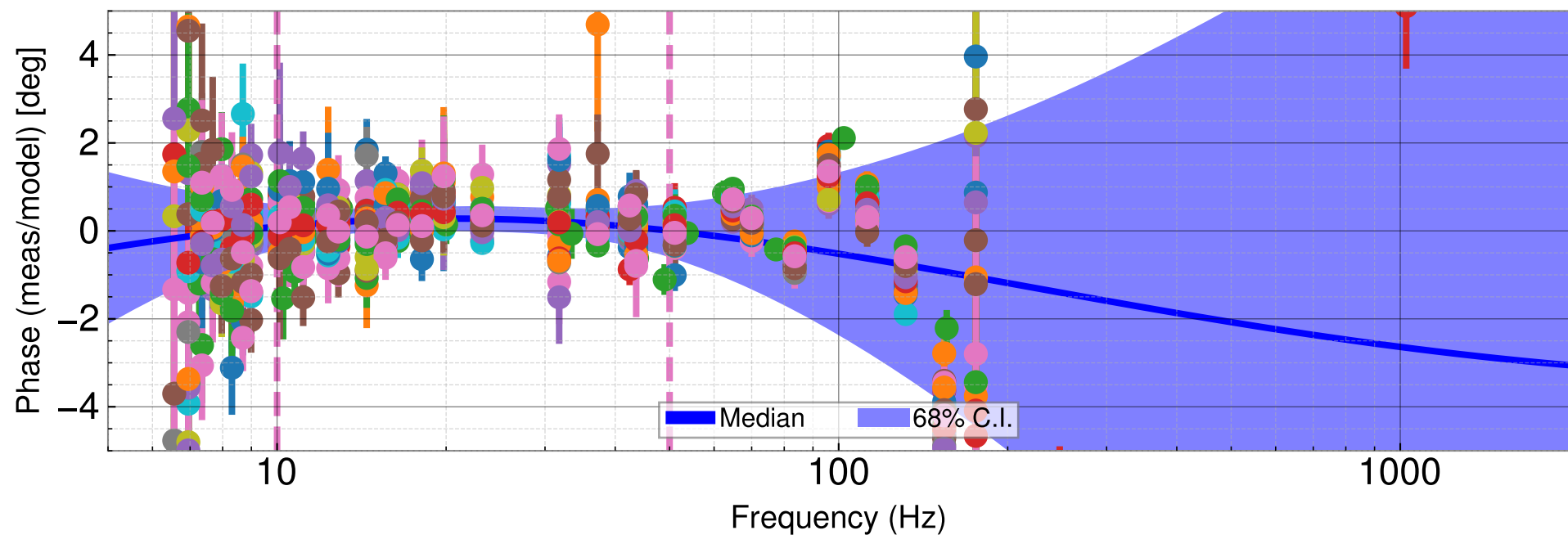
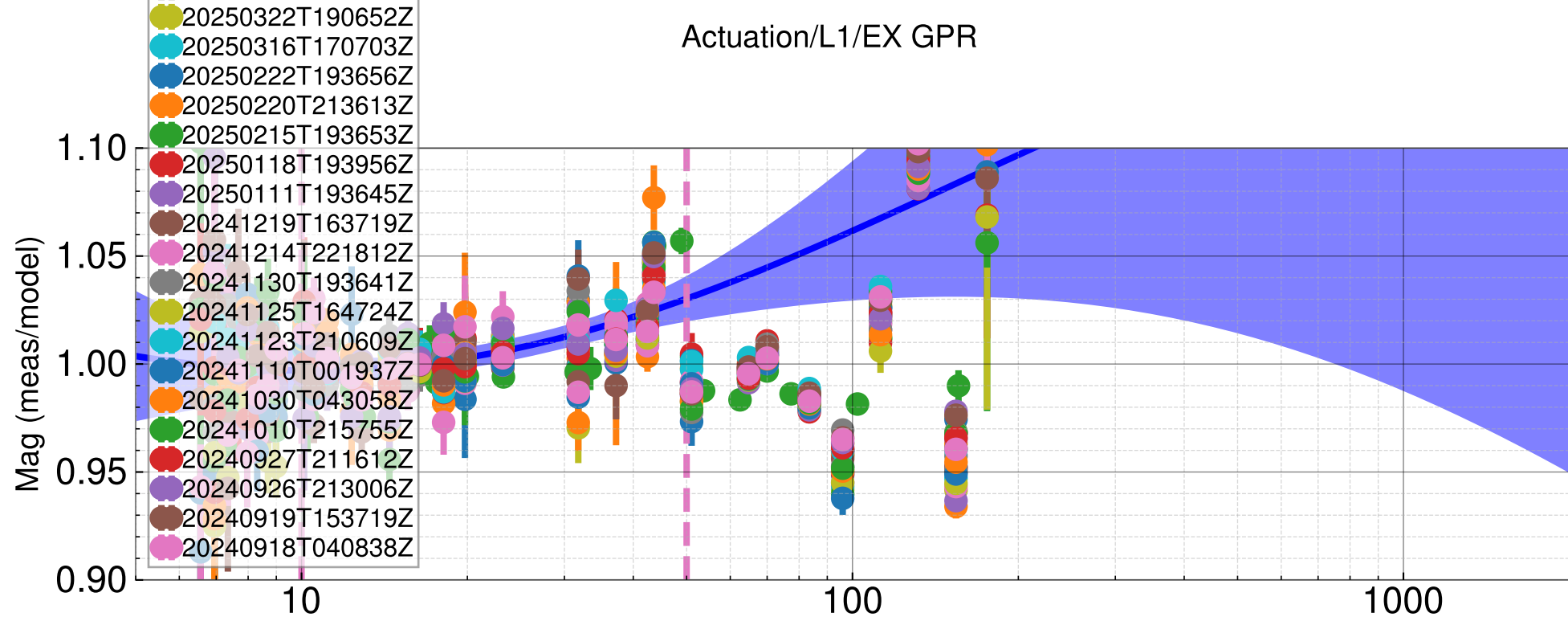
Actuation strength transfer functions
(scaled by H_{ref})



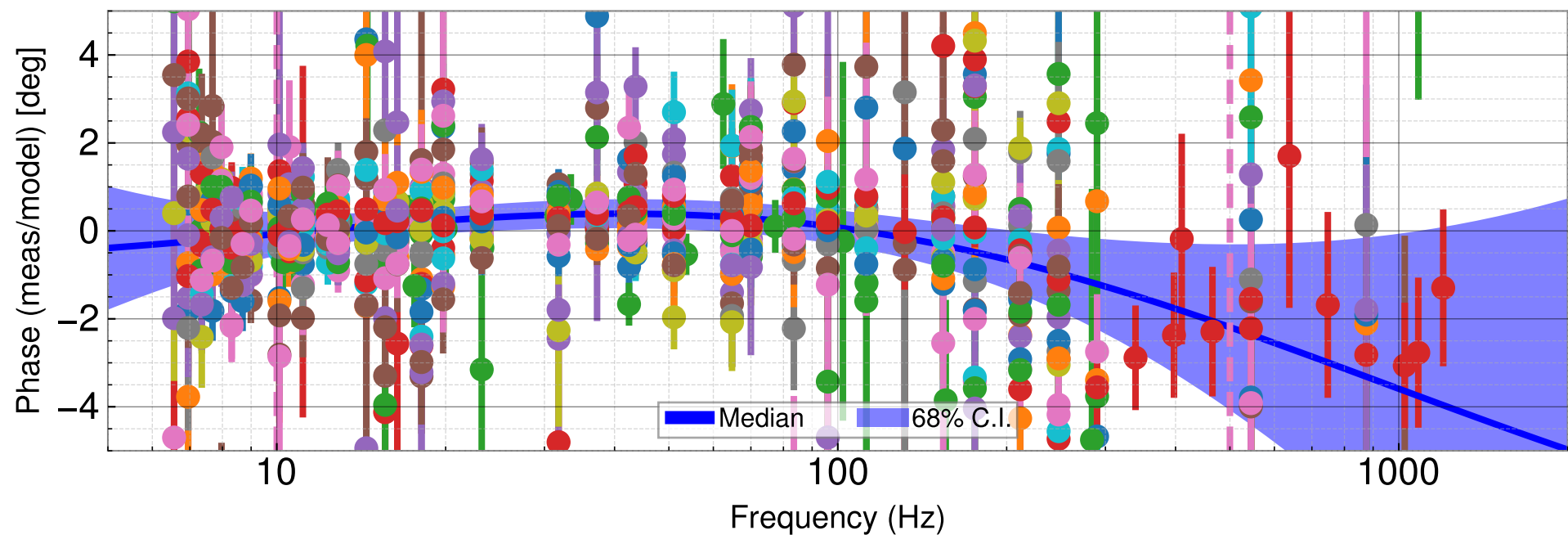
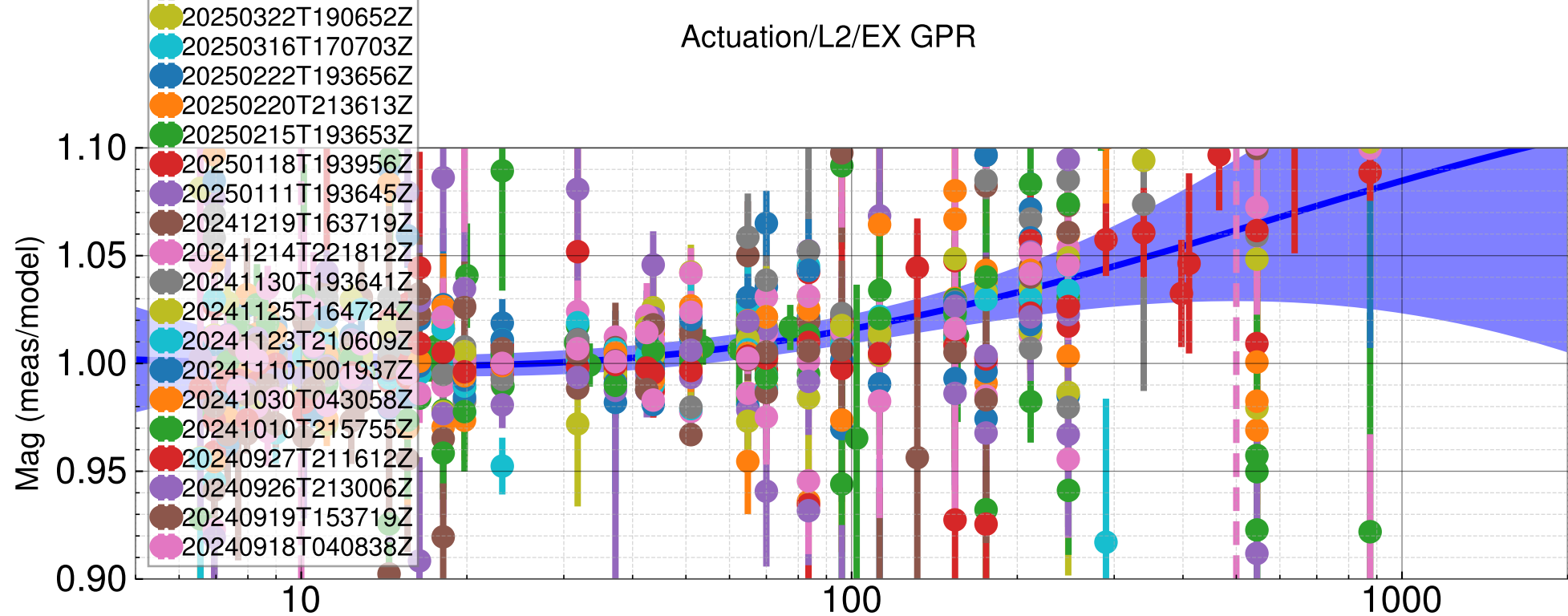
Actuation strength residuals
(meas./model w. free params)



Actuation/L1/EX GPR



Actuation/L2/EX GPR



Actuation/L3/EX GPR

