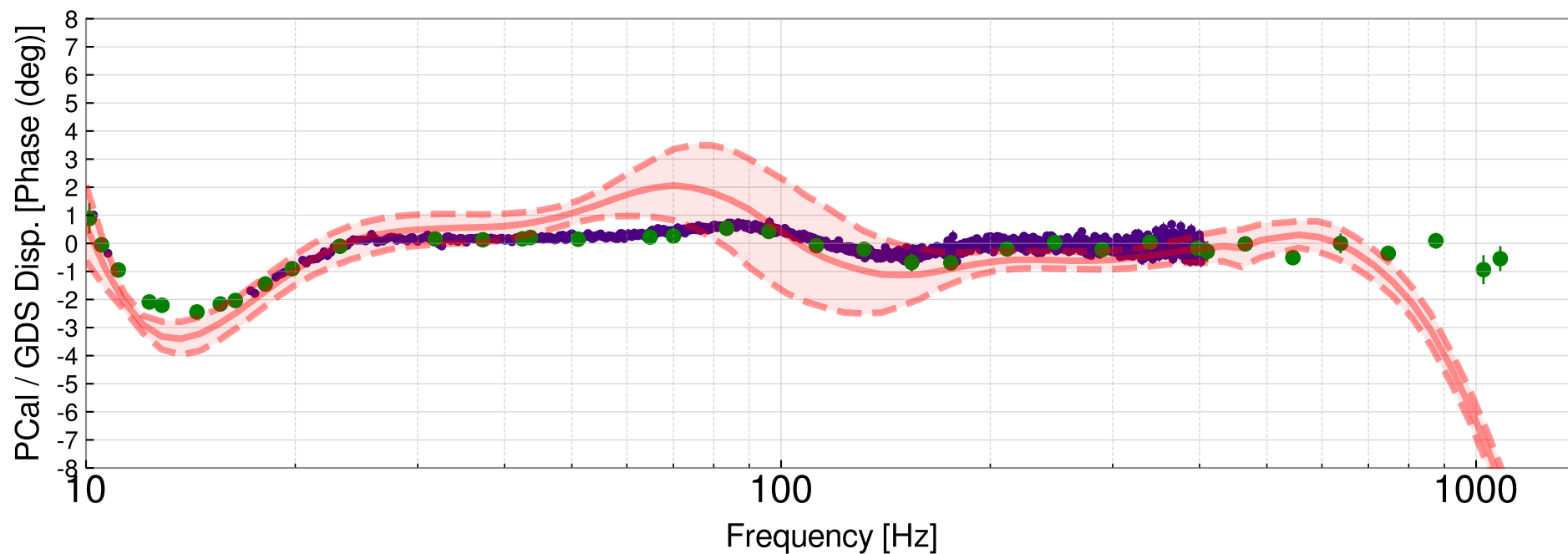
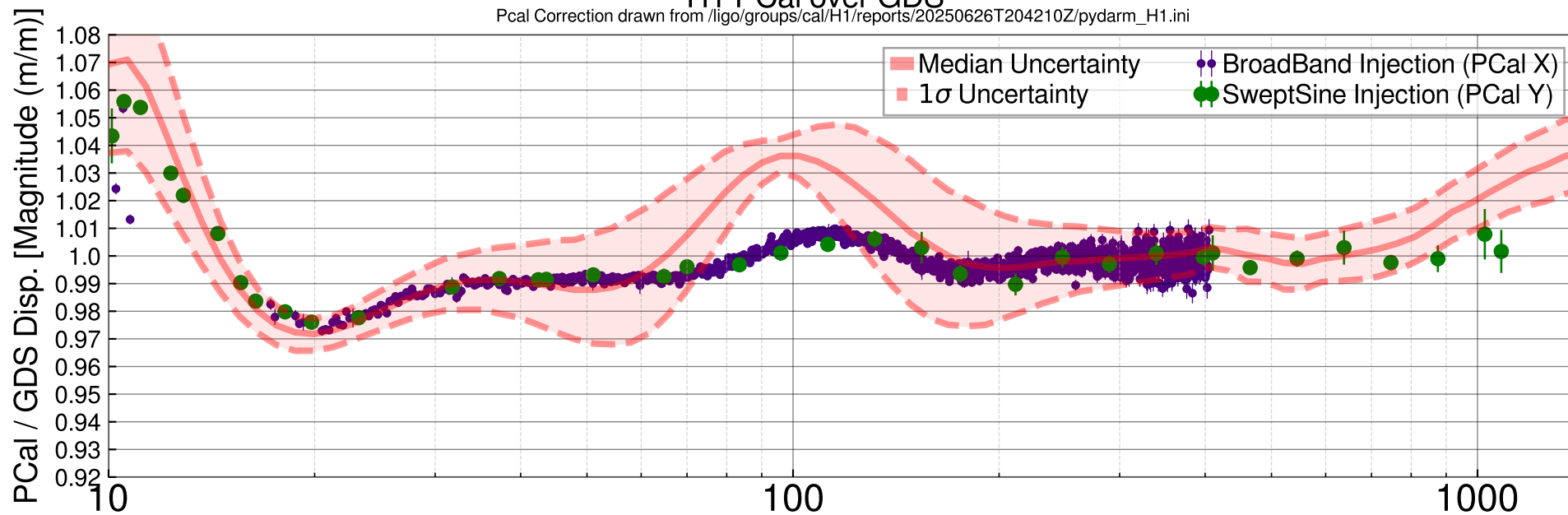


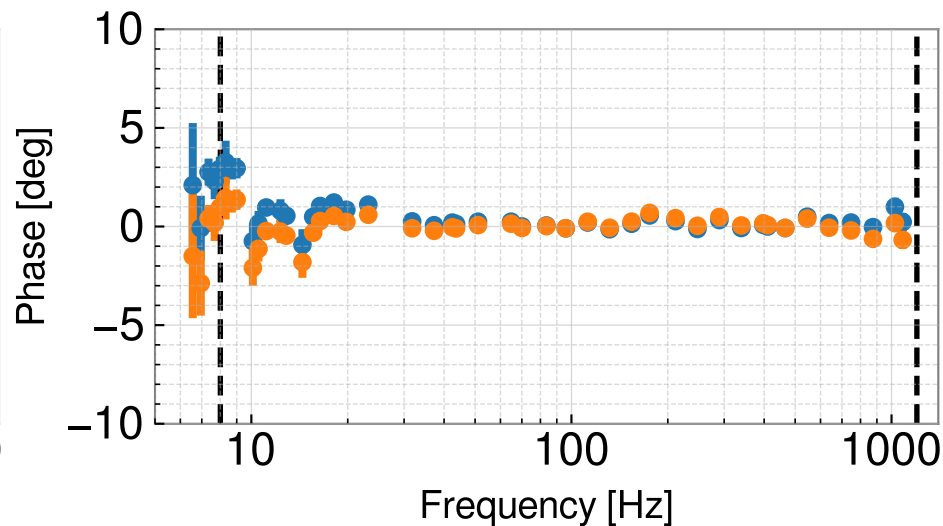
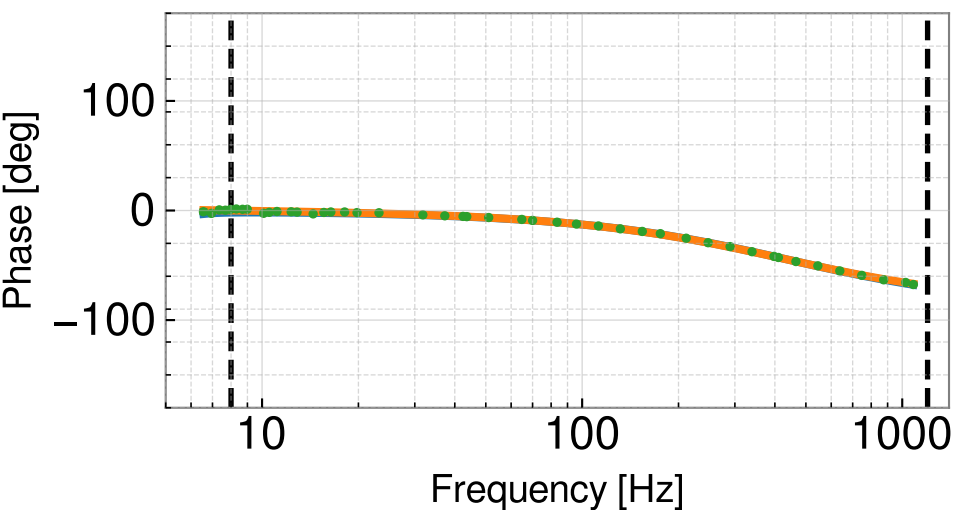
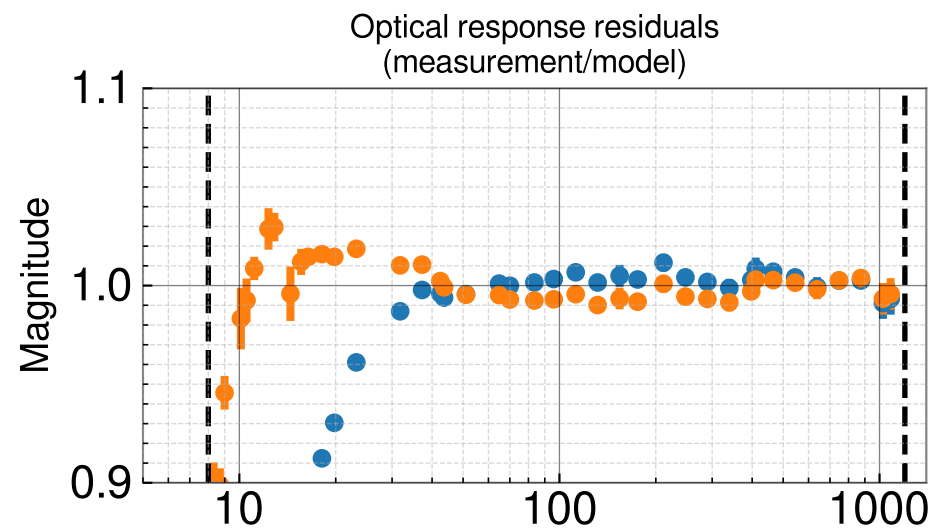
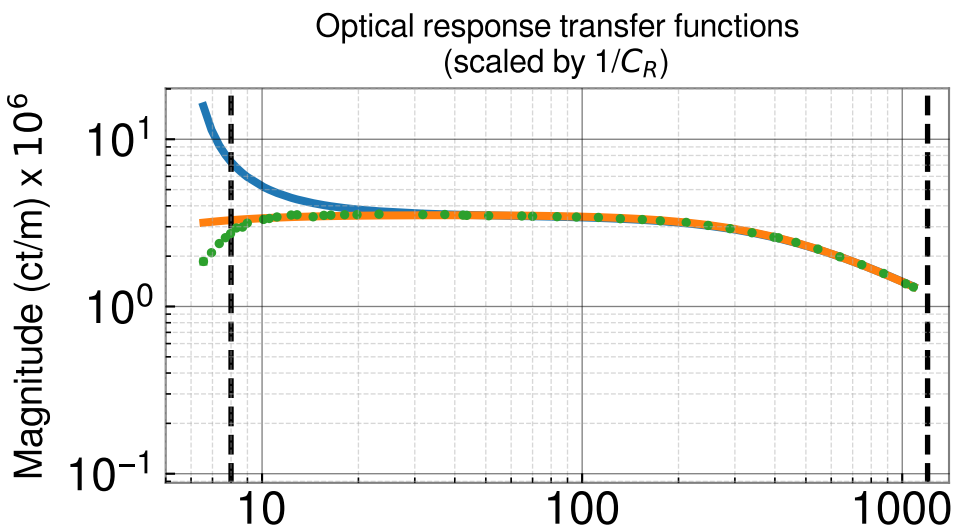
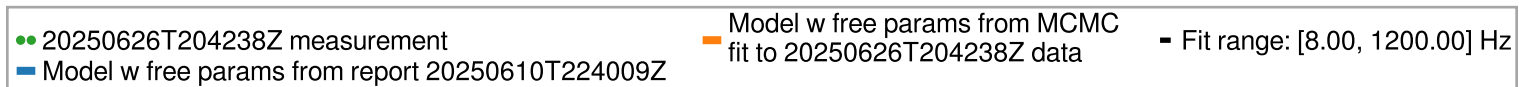
H1 PCal over GDS

Pcal Correction drawn from /ligo/groups/cal/H1/reports/20250626T204210Z/pydarm_H1.ini



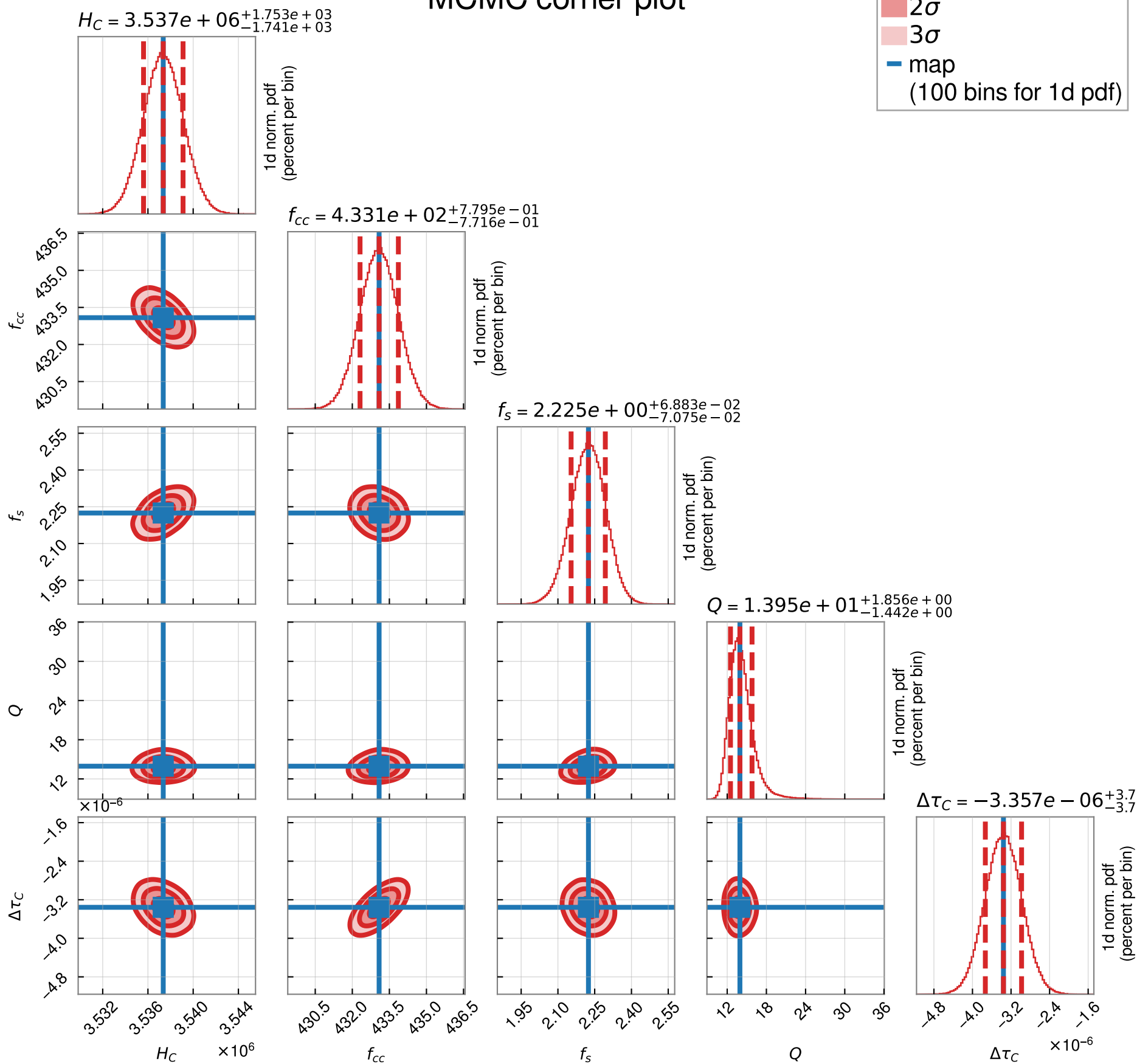
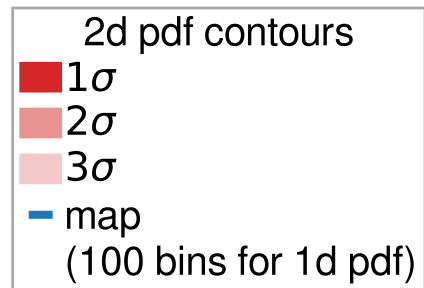
H1 sensing model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250626T204210Z/pydarm_H1.ini



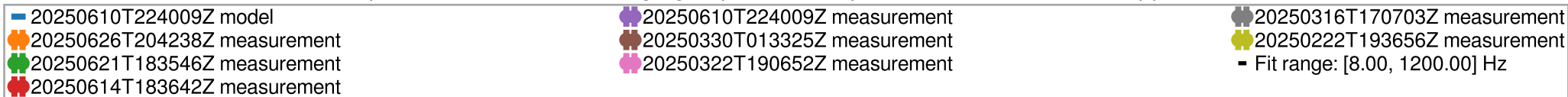
Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.537e+06	1753 (0.05%)	1741 (0.05%)
Cavity_pole, f_cc (Hz)	433.1	0.7795 (0.18%)	0.7716 (0.18%)
Detuned SRC spring frequency, f_s (Hz)	2.225	0.06883 (3.09%)	0.07075 (3.18%)
Detuned SRC spring quality factor, Q_s	13.95	1.856 (13.31%)	1.442 (10.34%)
Residual time delay, tau_c (s)	-3.357e-06	3.759e-07 (-11.20%)	3.761e-07 (-11.20%)

20250626T204238Z sensing function MCMC corner plot

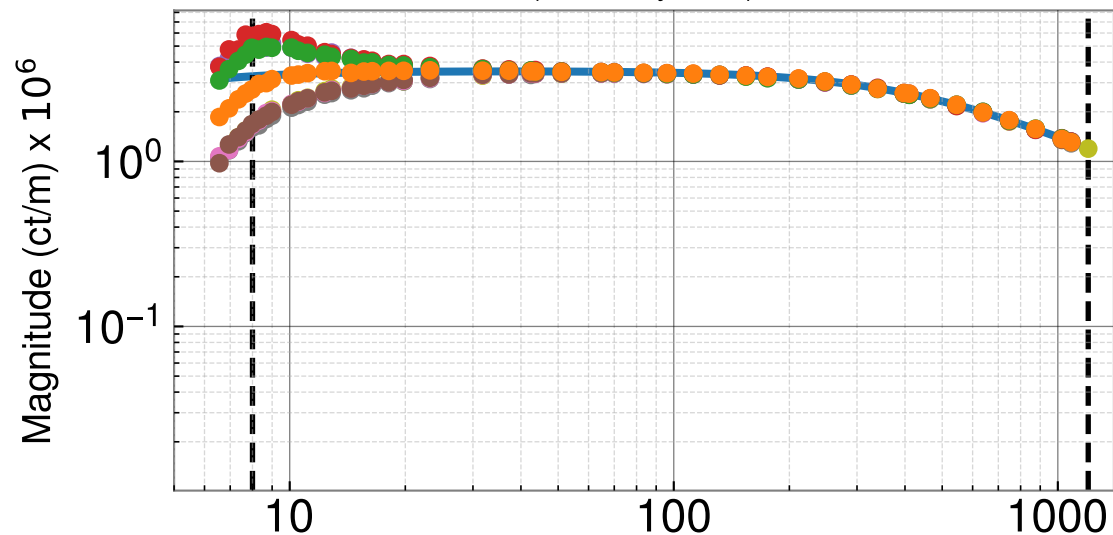


H1 sensing model history (last 9 measurements)

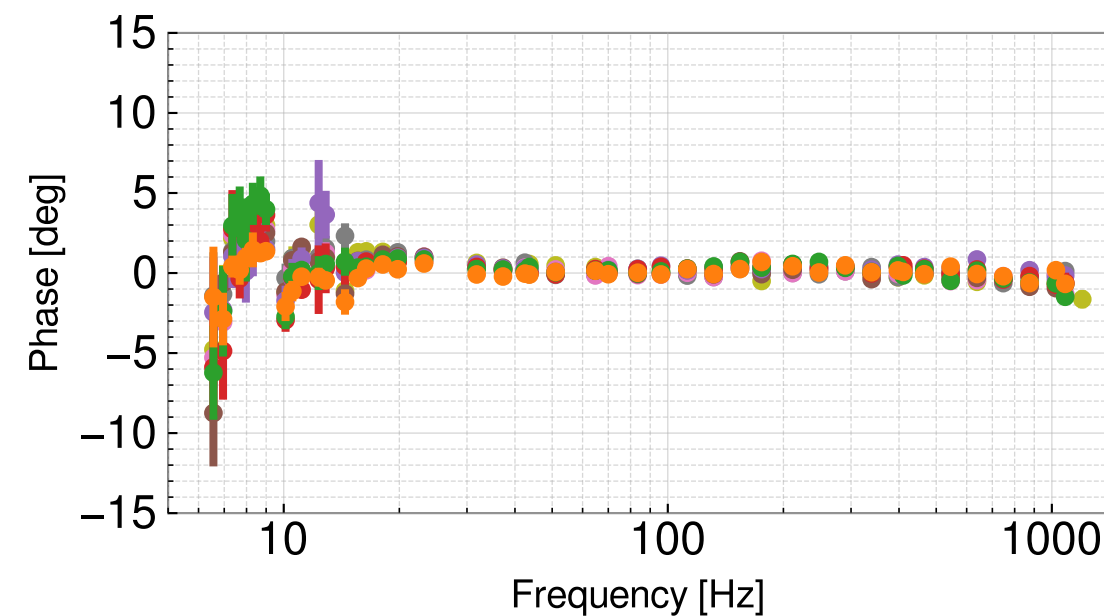
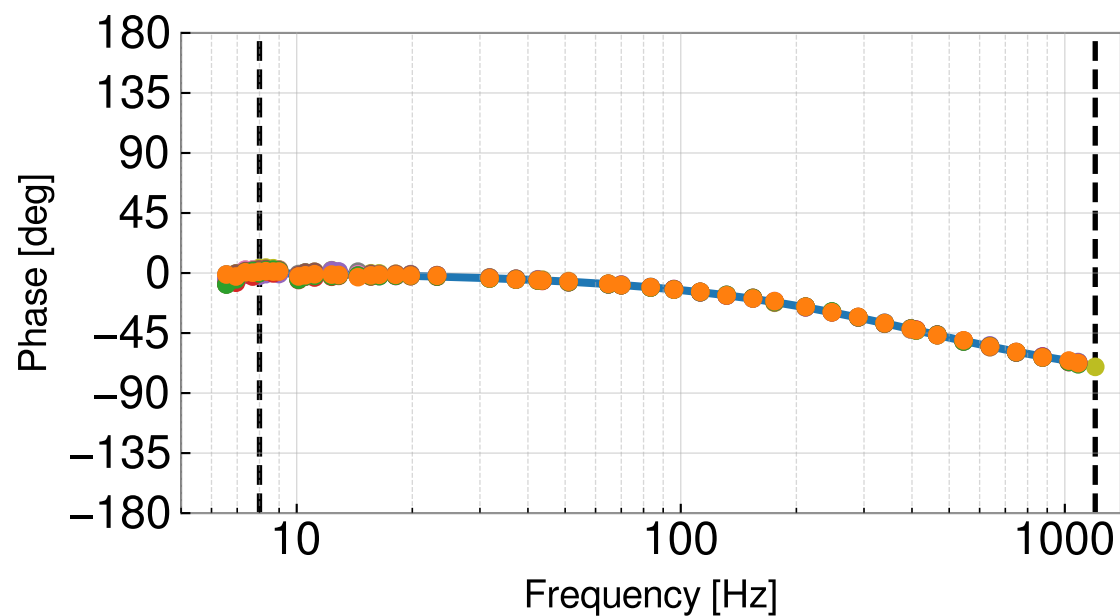
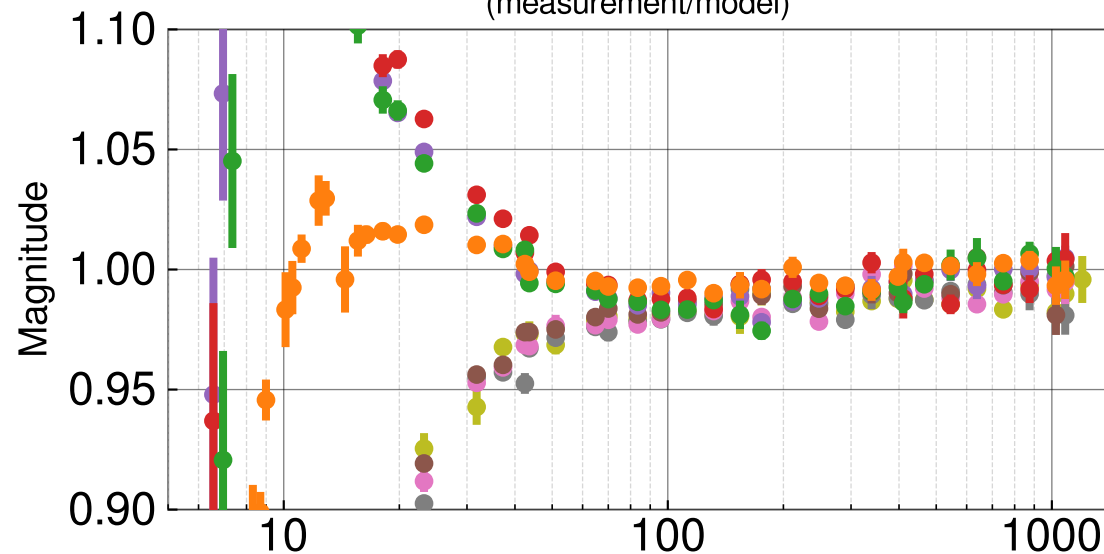
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250626T204210Z/pydarm_H1.ini



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

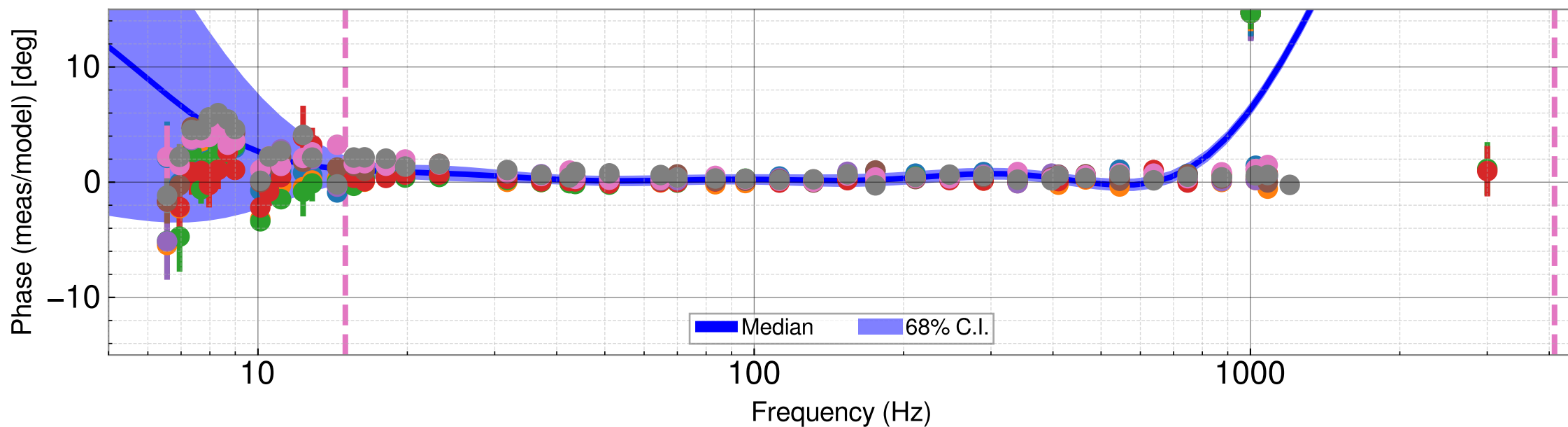
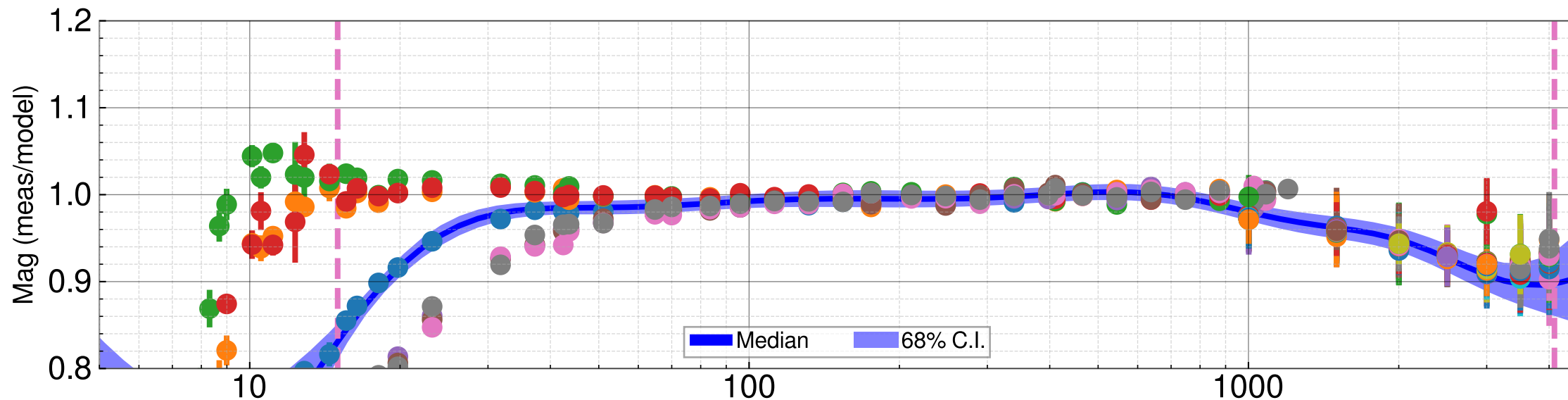


Optical response residuals
(measurement/model)



Sensing GPR

meas. 20250626T204238Z of report 20250626T204210Z
meas. 20250621T183614Z of report 20250621T183546Z
meas. 20250614T183710Z of report 20250614T183642Z
meas. 20250610T224037Z of report 20250610T224009Z
meas. 20250316T170731Z of report 20250316T170703Z
meas. 20250330T013352Z of report 20250330T013325Z
meas. 20250222T193724Z of report 20250222T193656Z
meas. 20250322T190720Z of report 20250322T190652Z

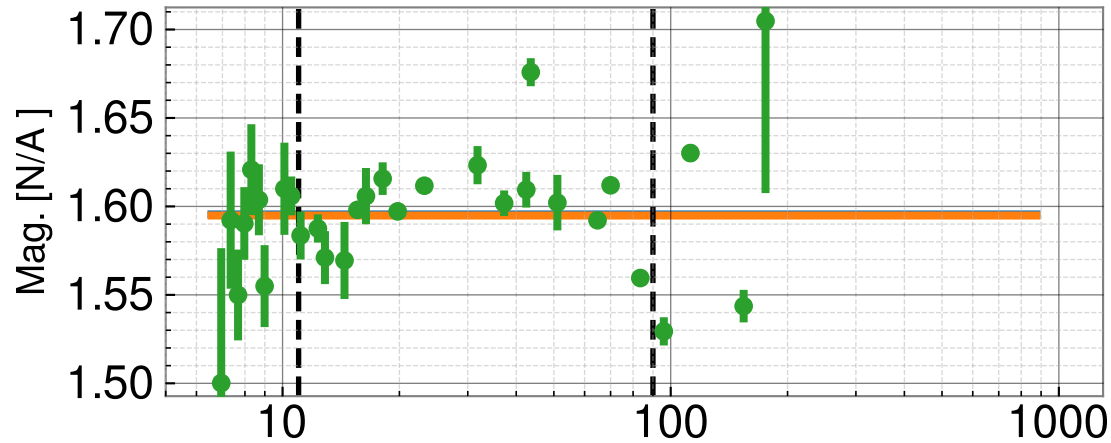


H1SUSEX L1 actuation model MCMC summary

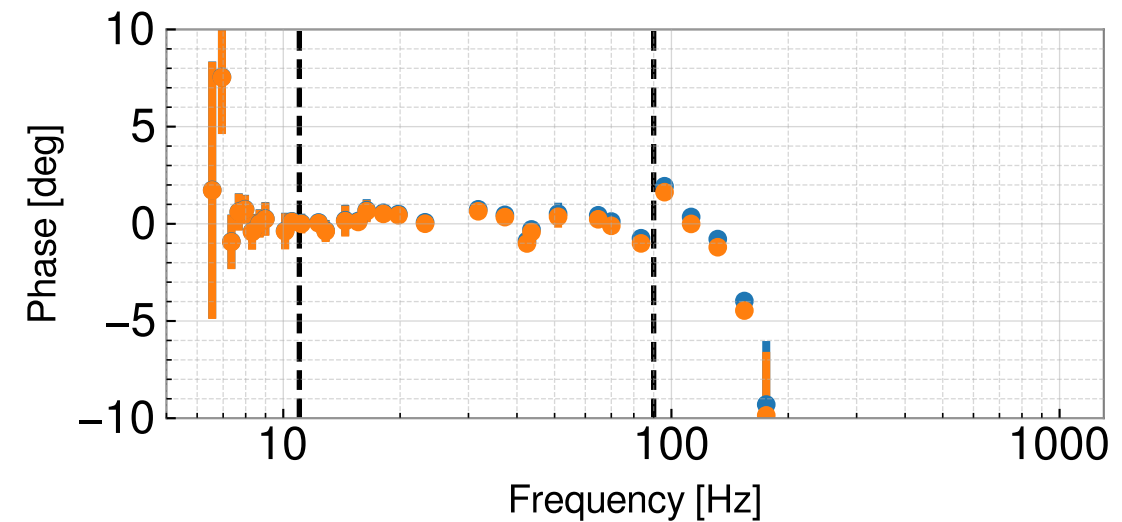
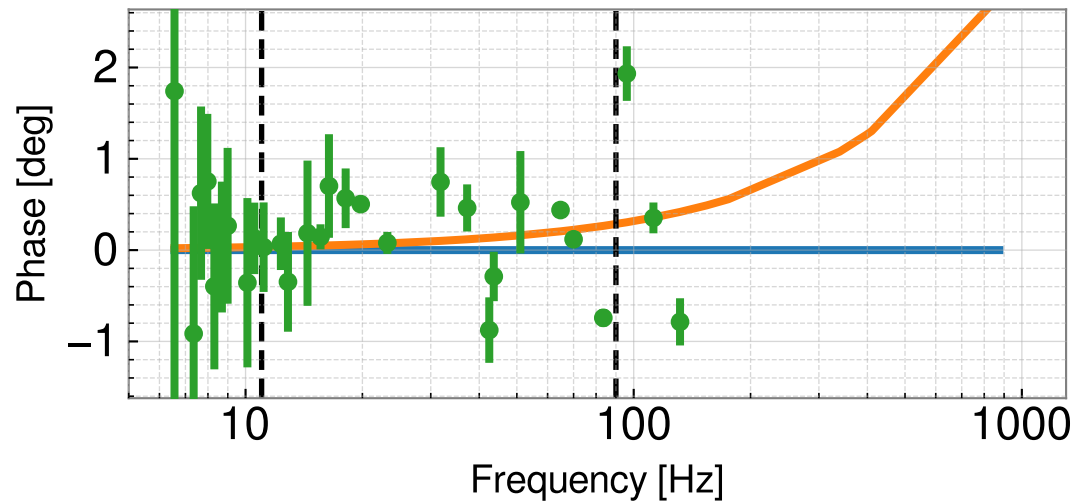
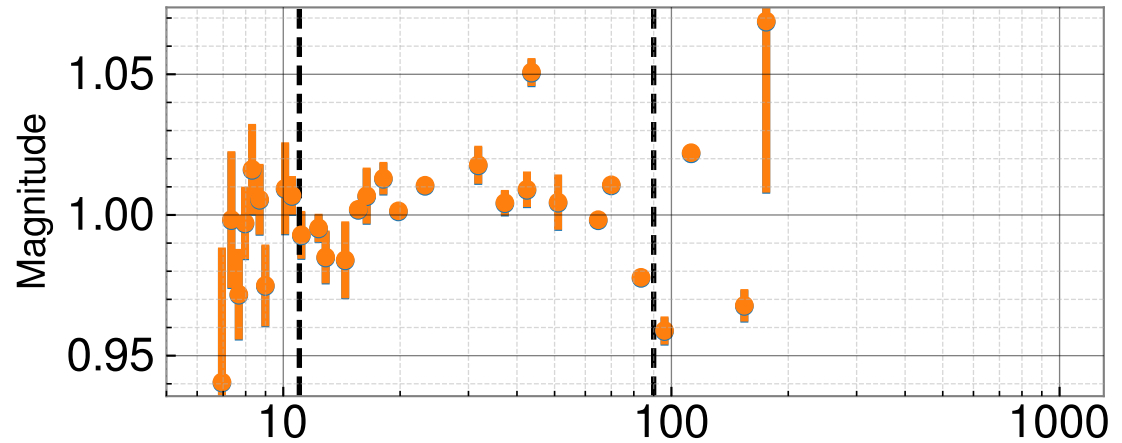
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250626T204210Z/pydarm_H1.ini



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

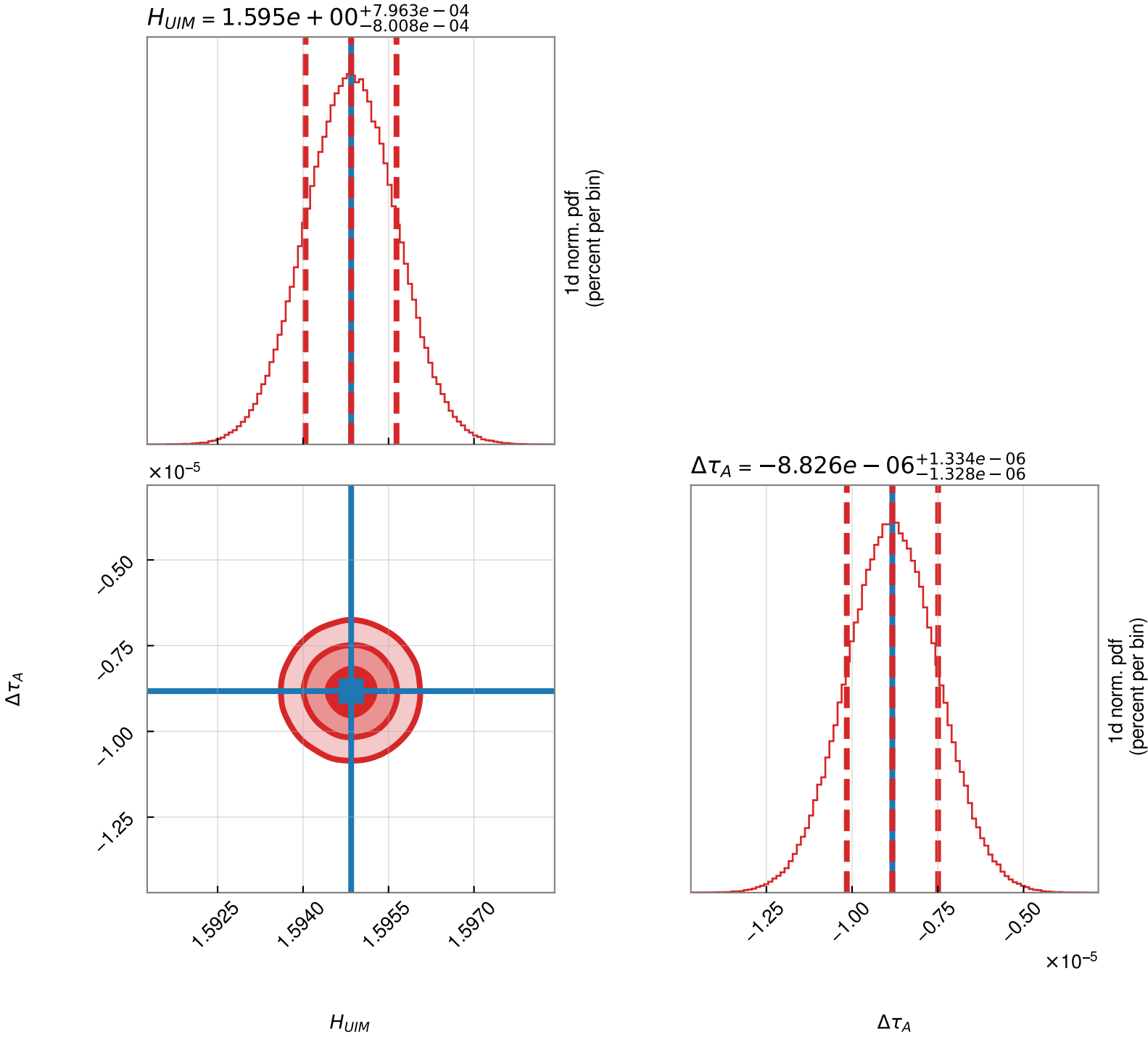
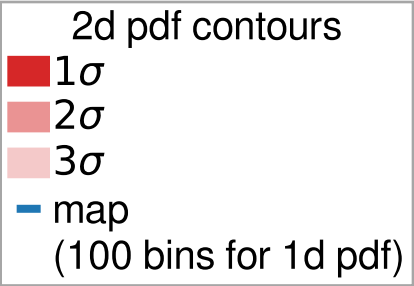


Actuation strength residuals
(meas./model w. free params)



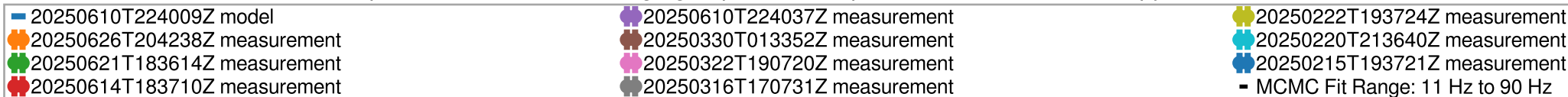
Parameter	(value +/-) value	+	-
Actuation Gain, Hau (N/A)	1.595	0.0007963 (0.05%)	0.0008008 (0.05%)
Residual time delay, tau_A (s)	-8.826e-06	1.334e-06 (-15.11%)	1.328e-06 (-15.05%)

20250626T204238Z EX L1 actuation
MCMC corner plot

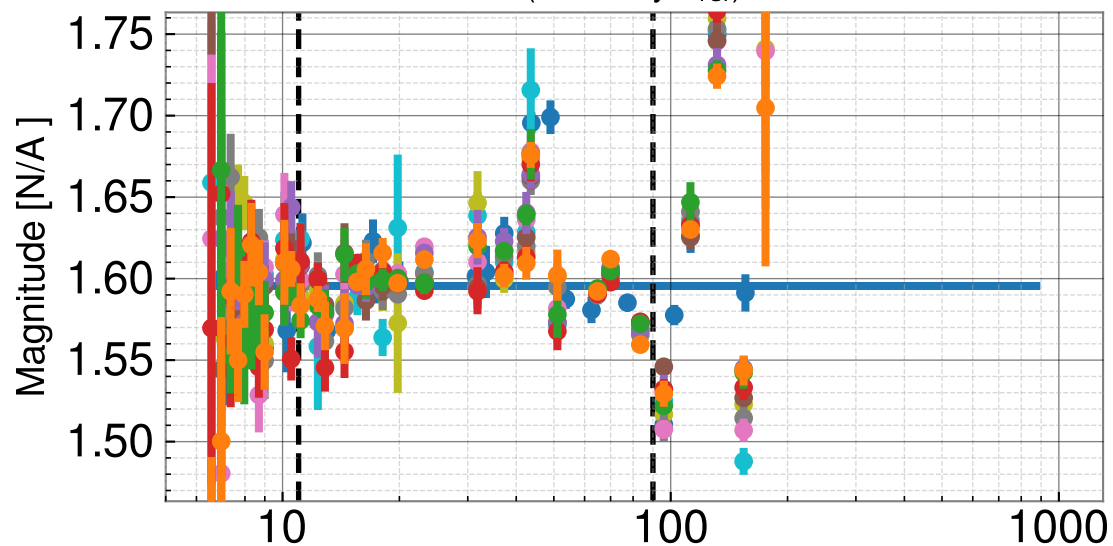


H1SUSEX L1 actuation model history (last 9 measurements)

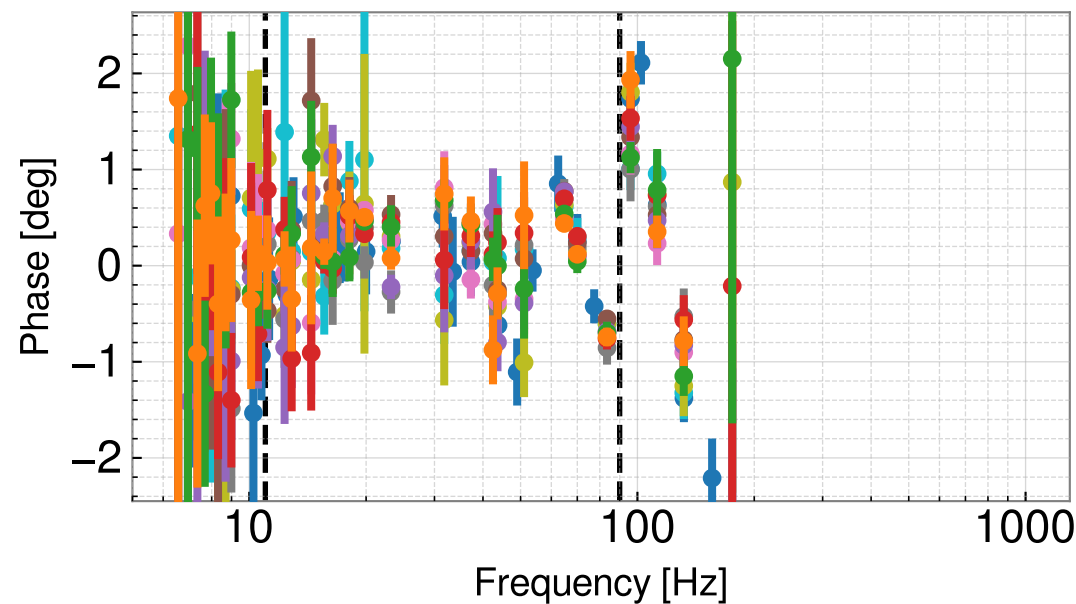
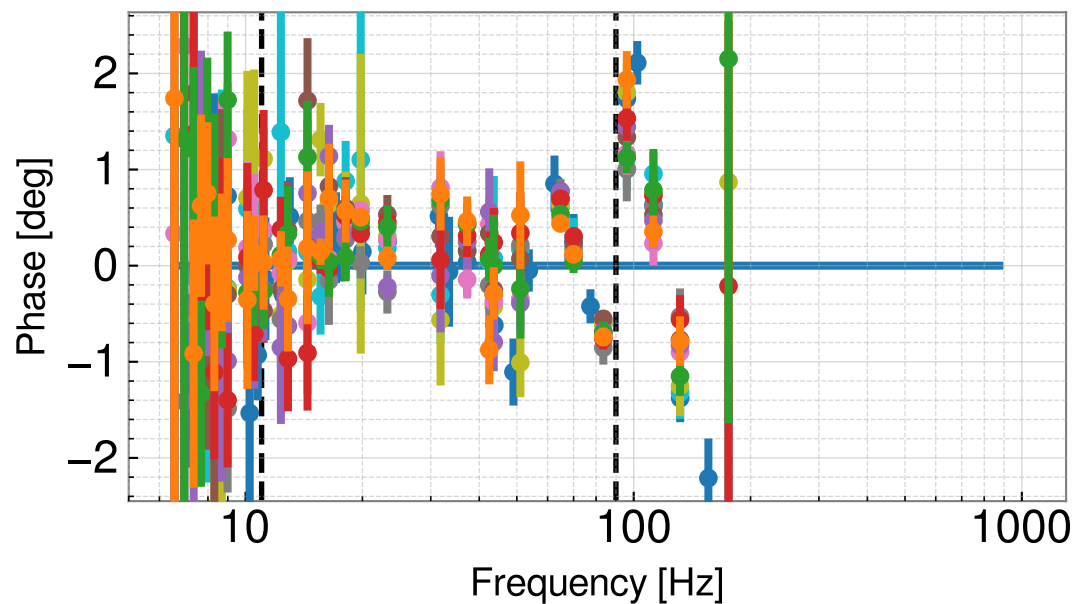
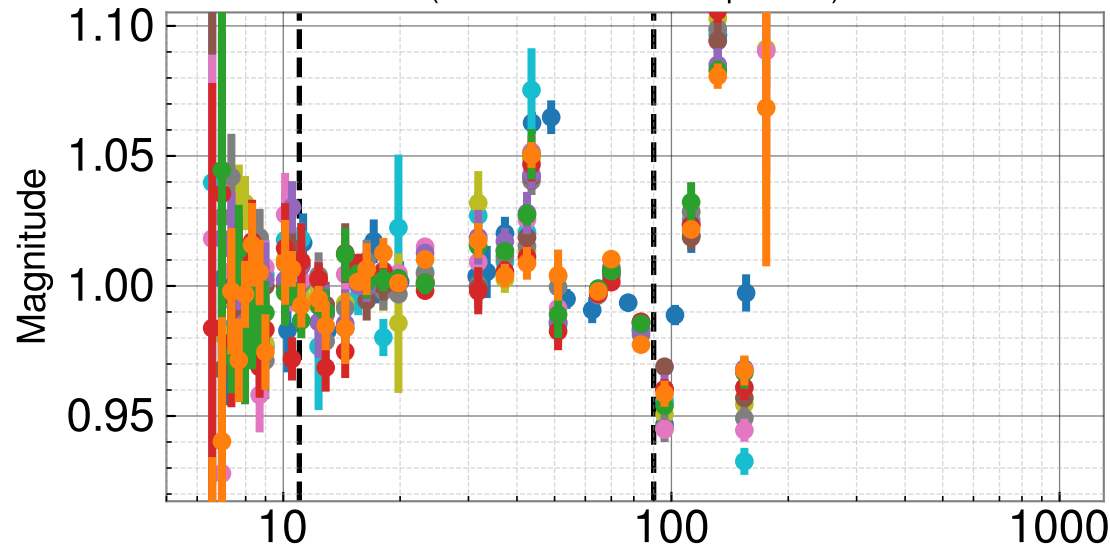
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250626T204210Z/pydarm_H1.ini



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



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

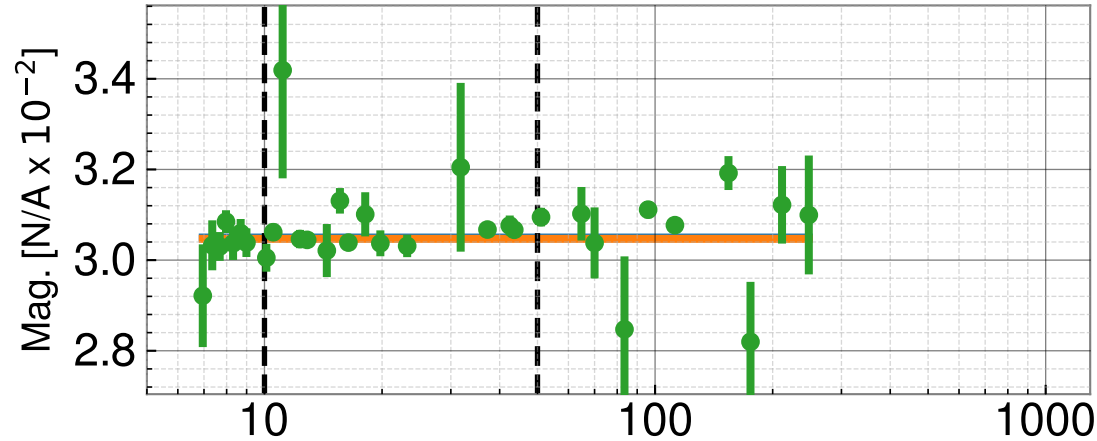


H1SUSEX L2 actuation model MCMC summary

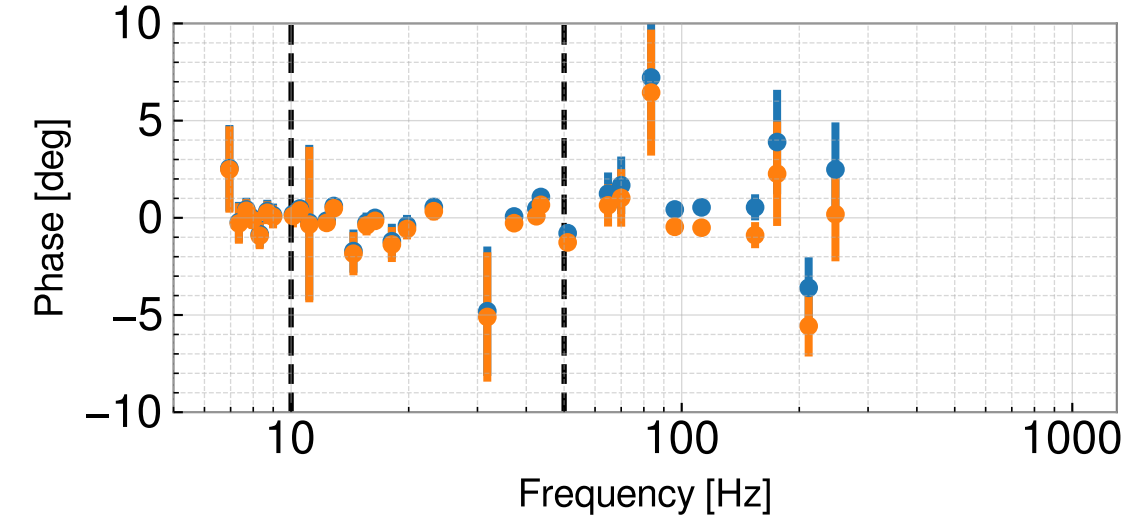
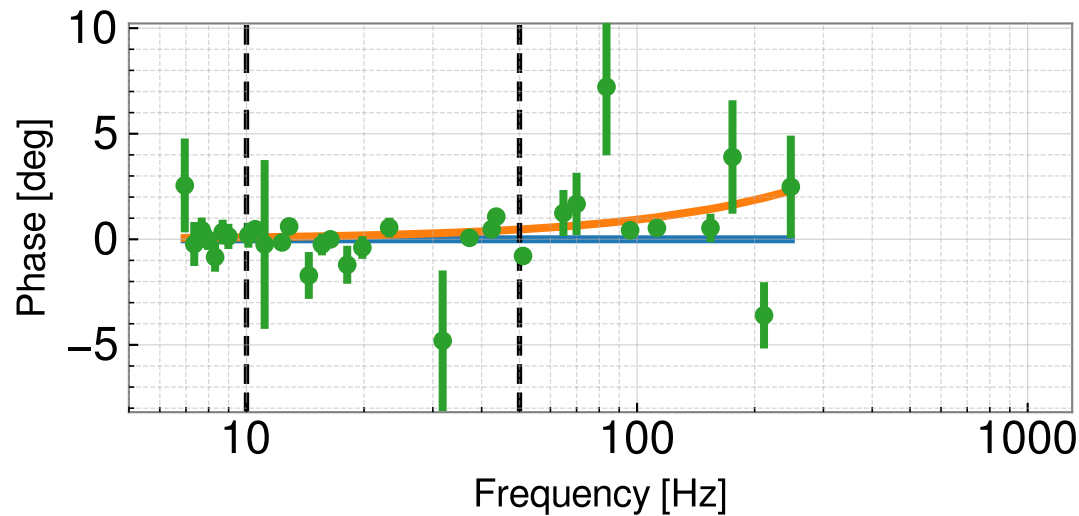
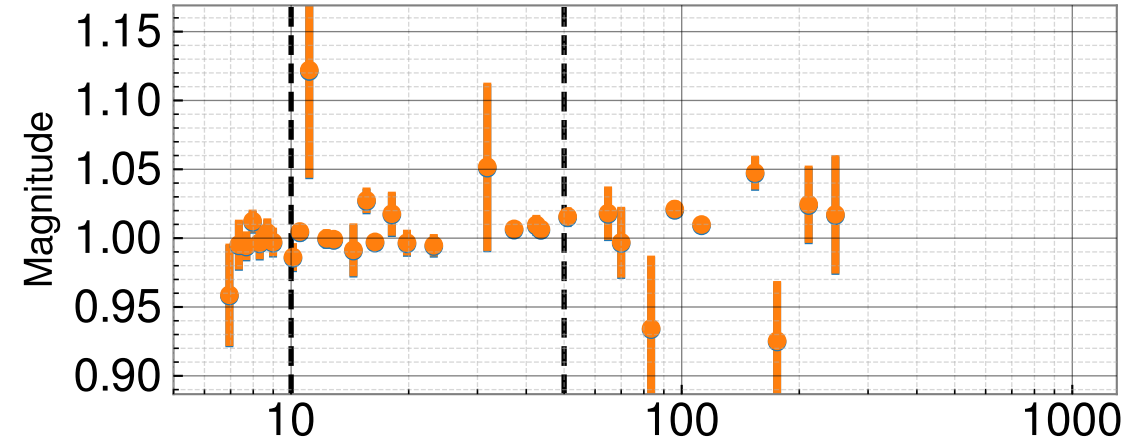
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250626T204210Z/pydarm_H1.ini



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

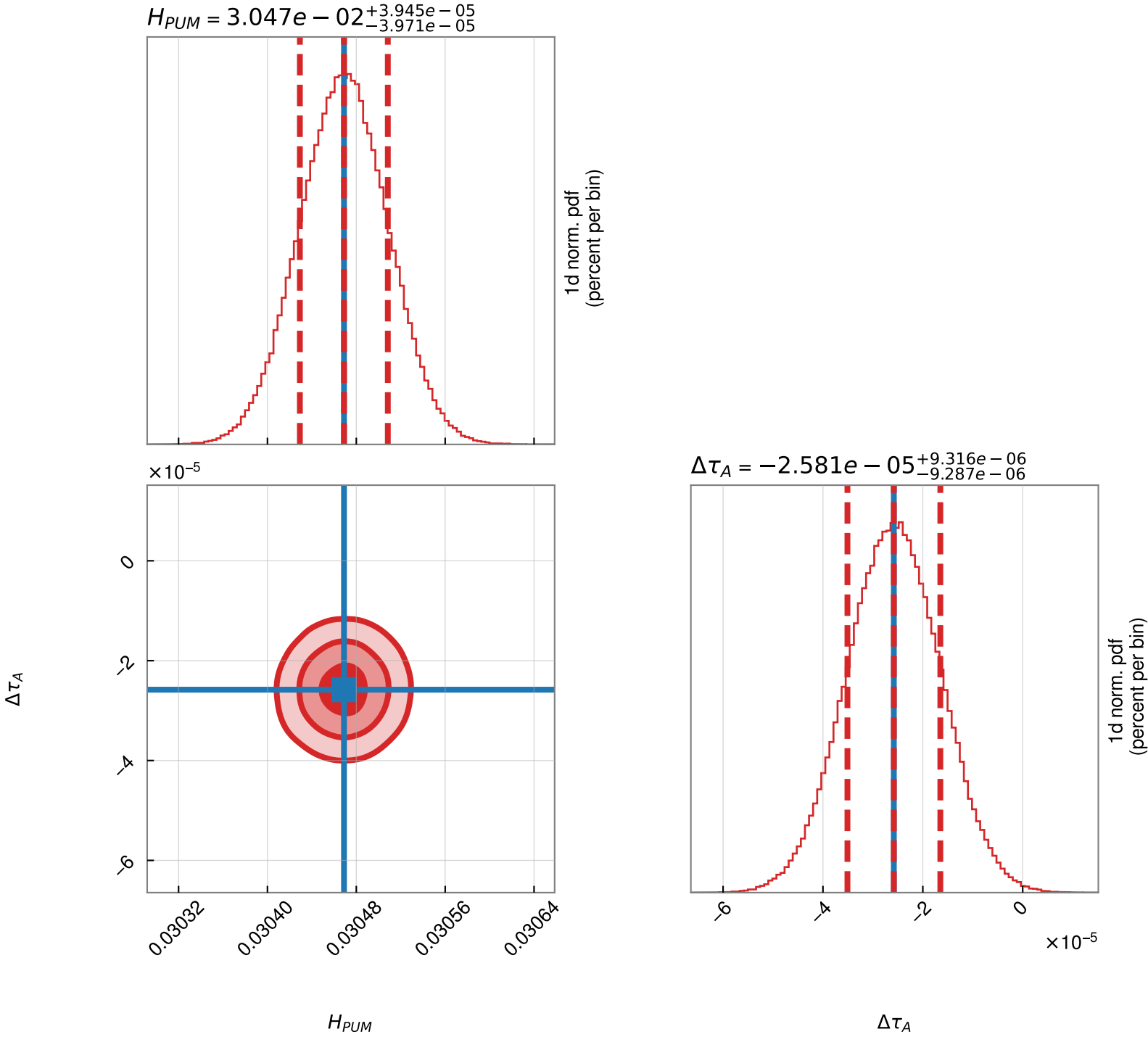
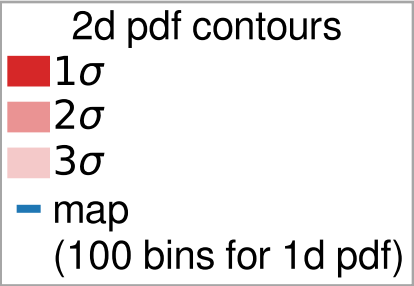


Actuation strength residuals
(meas./model w. free params)



Parameter	(value +/-)	value	+	-
Actuation Gain, Hap (N/A)	0.03047		3.945e-05 (0.13%)	3.971e-05 (0.13%)
Residual time delay, tau_A (s)	-2.581e-05		9.316e-06 (-36.10%)	9.287e-06 (-35.98%)

20250626T204238Z EX L2 actuation
MCMC corner plot

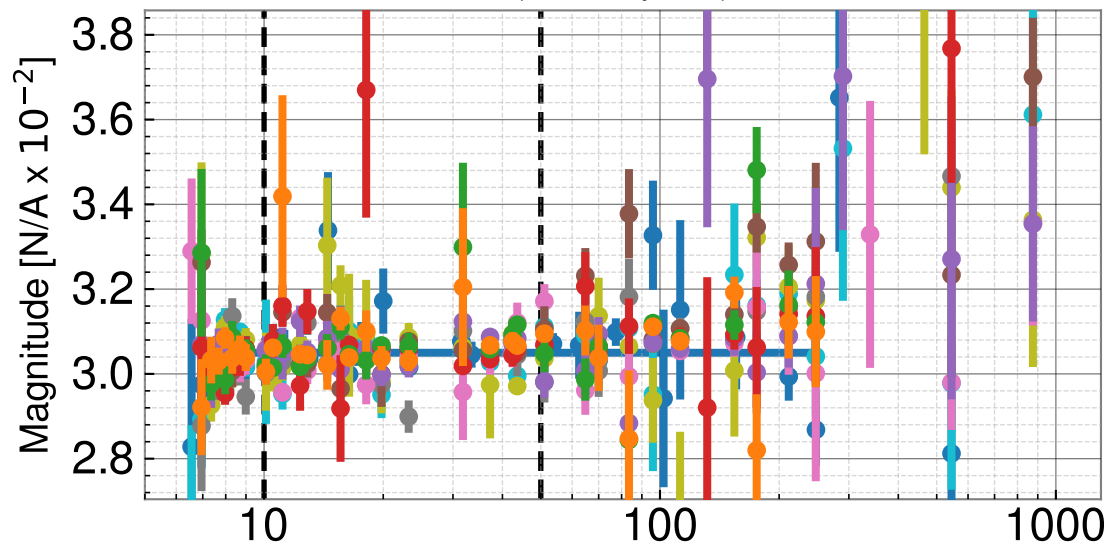


H1SUSEX L2 actuation model history (last 9 measurements)

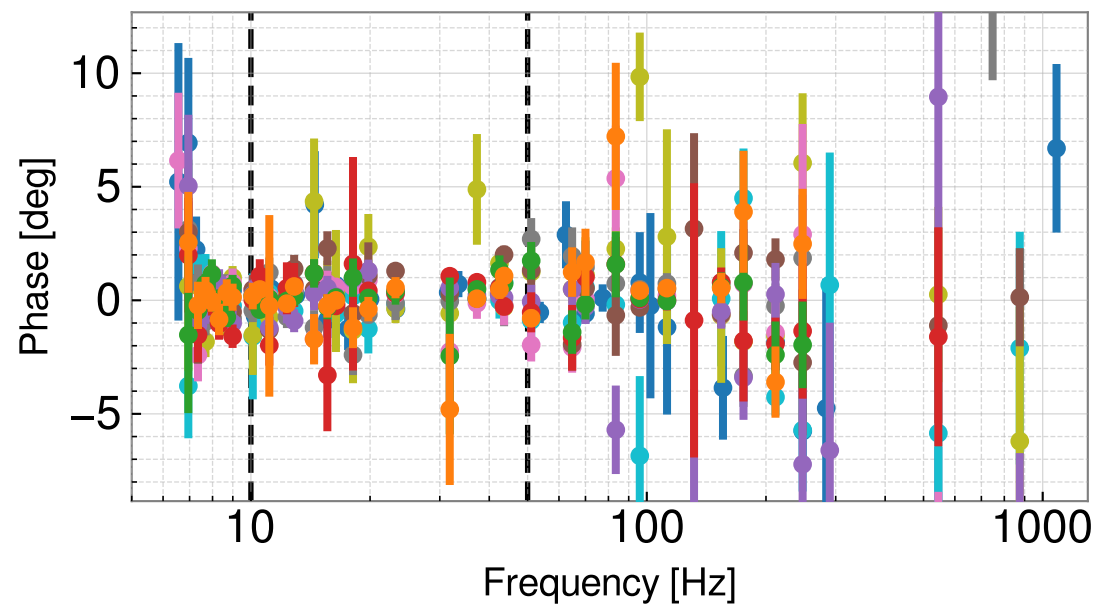
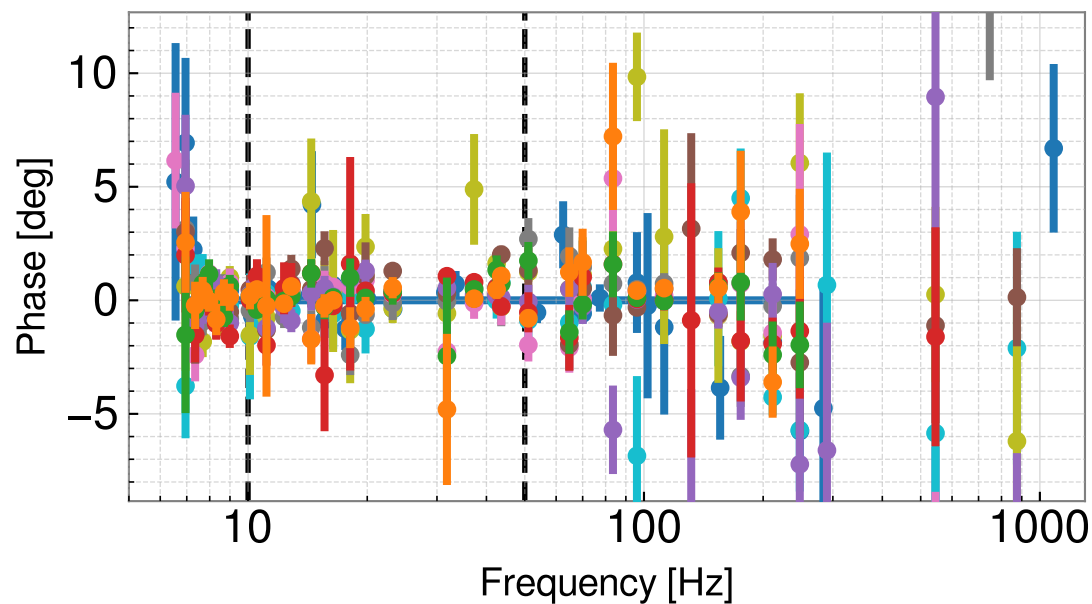
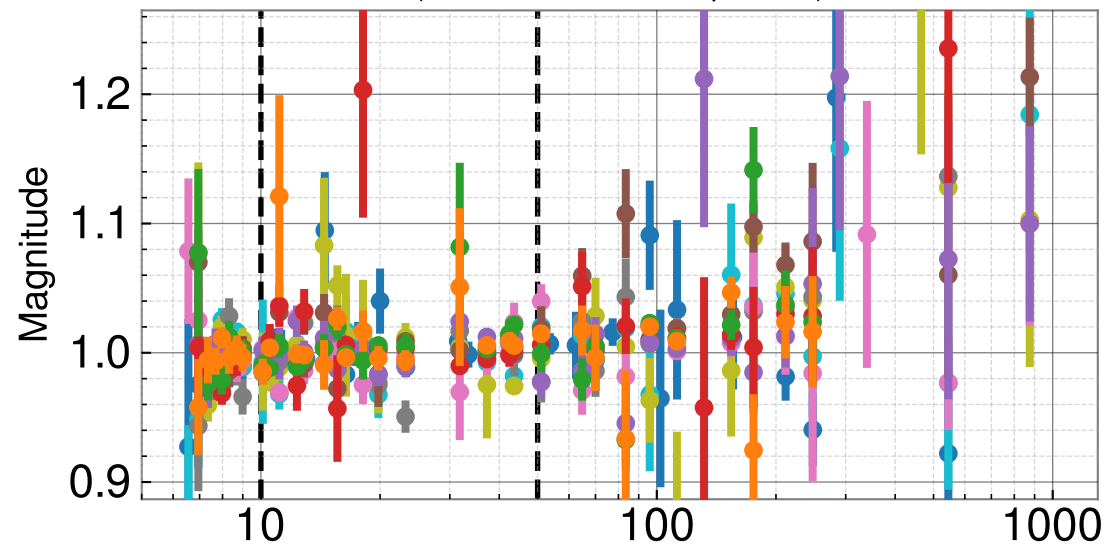
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250626T204210Z/pydarm_H1.ini



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

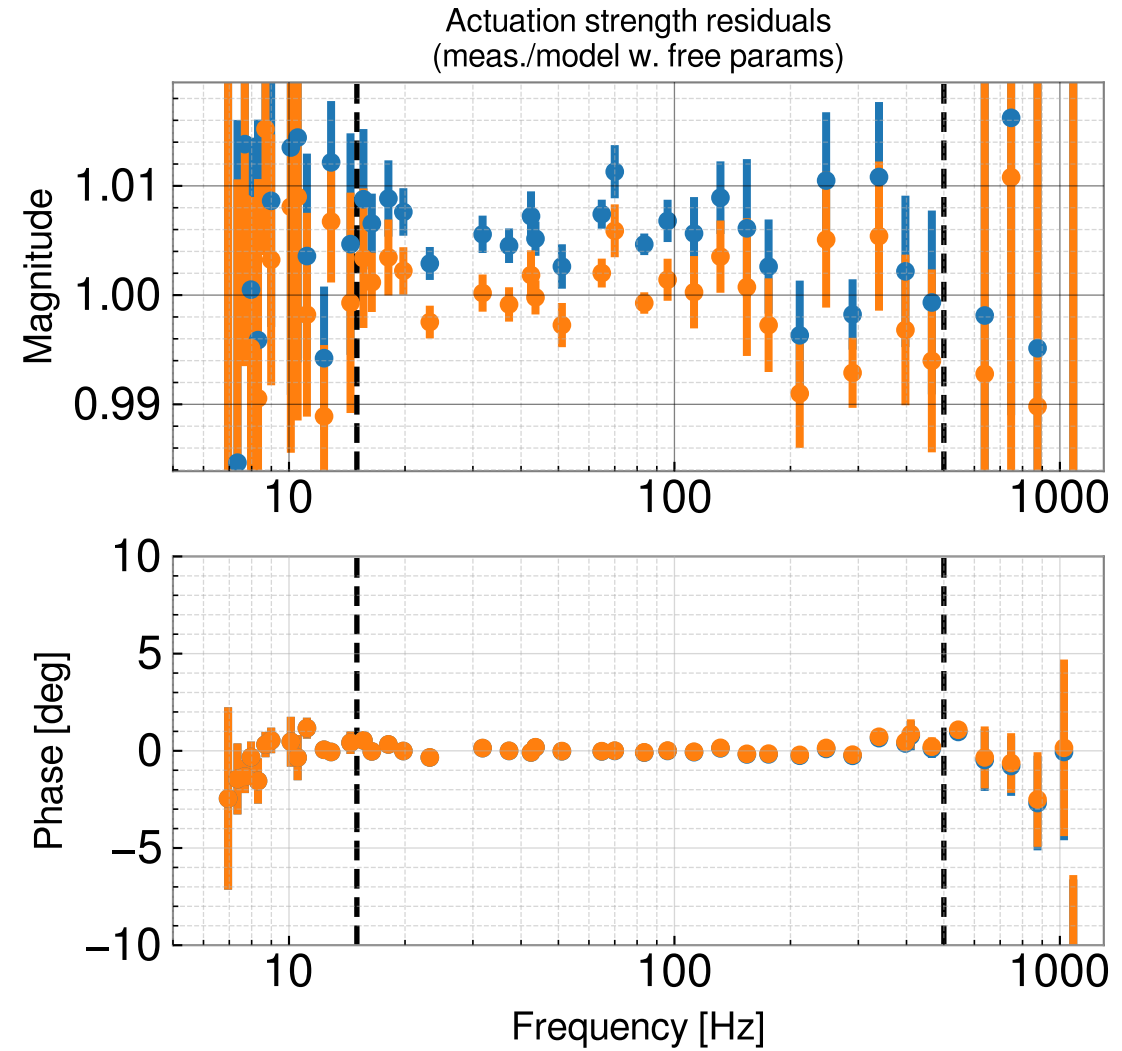
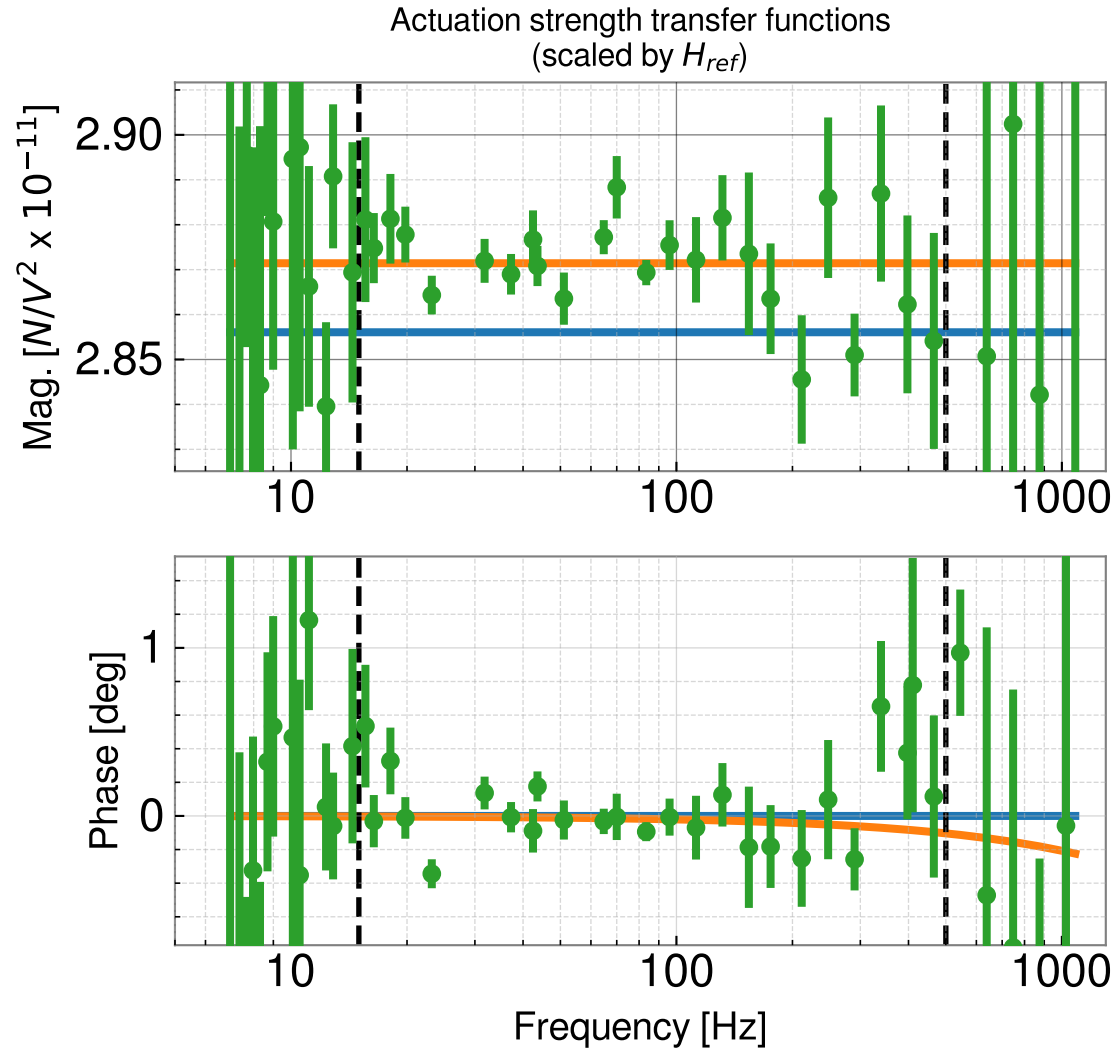


Actuation strength residuals
(meas./model w. free params)



H1SUSEX L3 actuation model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250626T204210Z/pydarm_H1.ini



Parameter	(value +/-)	value	+	-
Actuation Gain, Hat (N/V^2)	2.871e-11		1.272e-14 (0.04%)	1.272e-14 (0.04%)
Residual time delay, tau_A (s)	5.749e-07		7.698e-07 (133.89%)	7.71e-07 (134.11%)

20250626T204238Z EX L3 actuation
MCMC corner plot

2d pdf contours

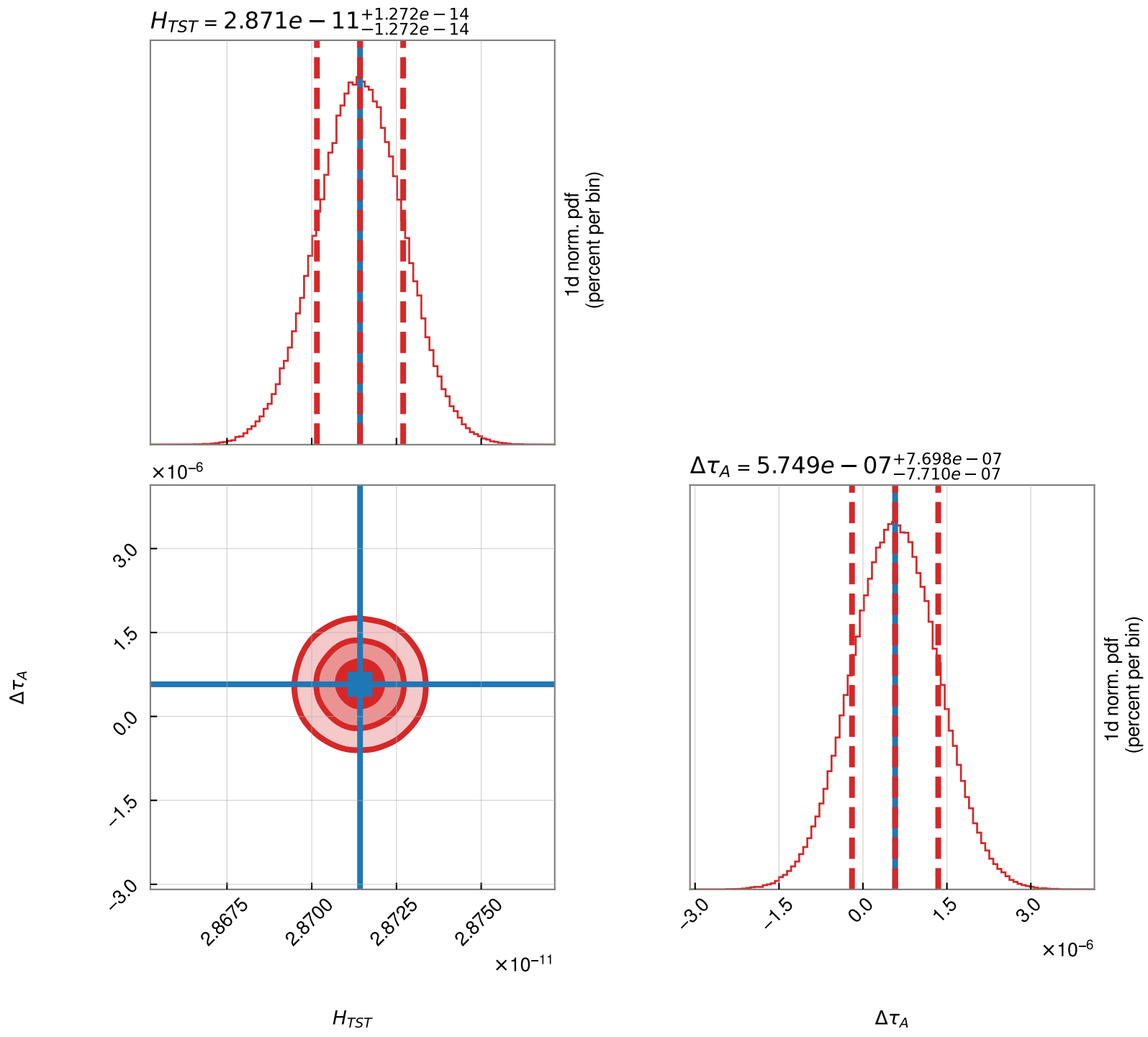
1σ

2σ

3σ

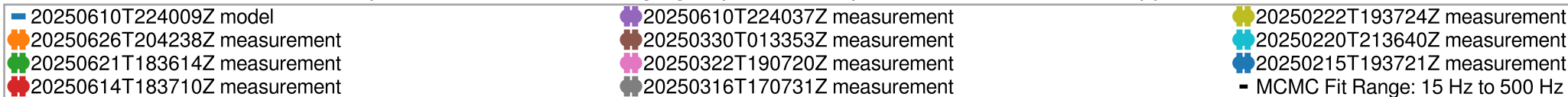
map

(100 bins for 1d pdf)

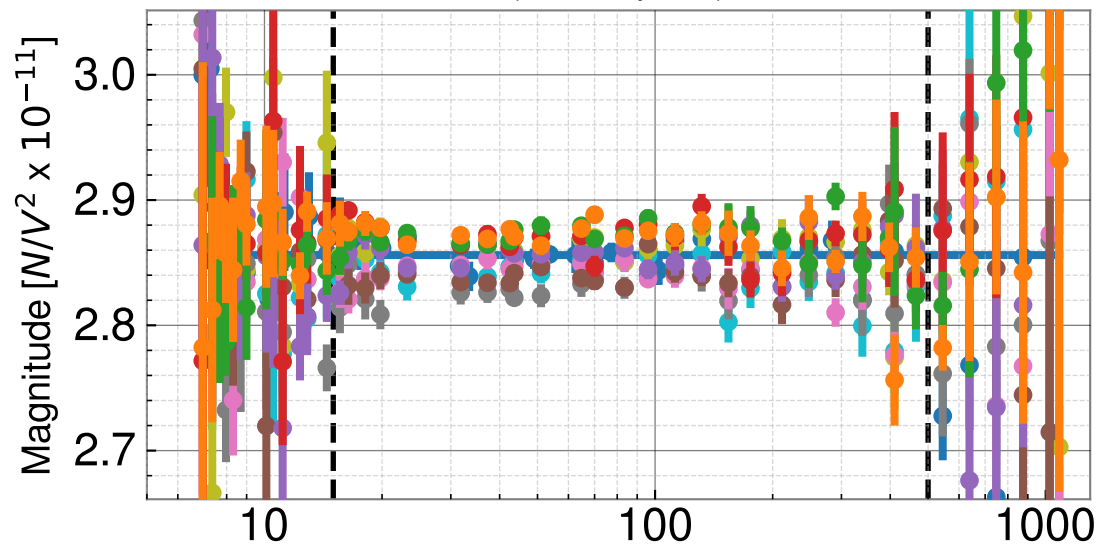


H1SUSEX L3 actuation model history (last 9 measurements)

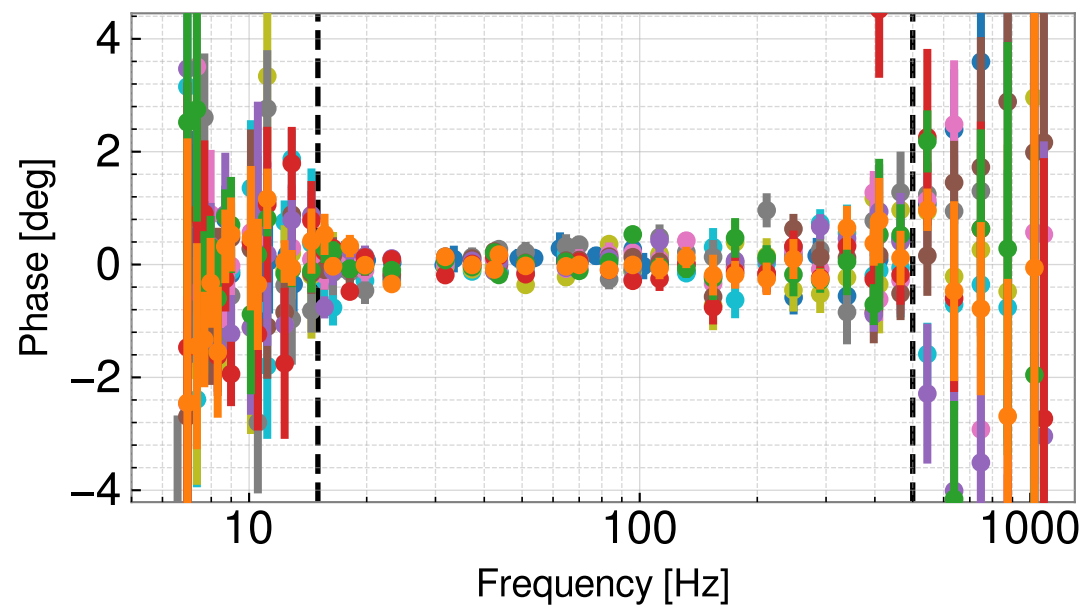
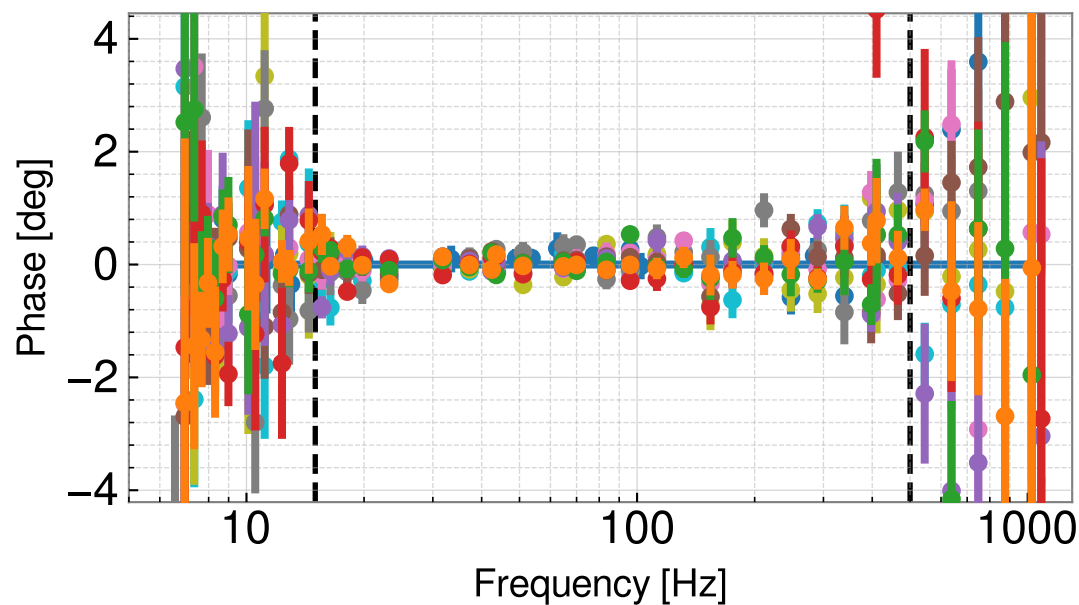
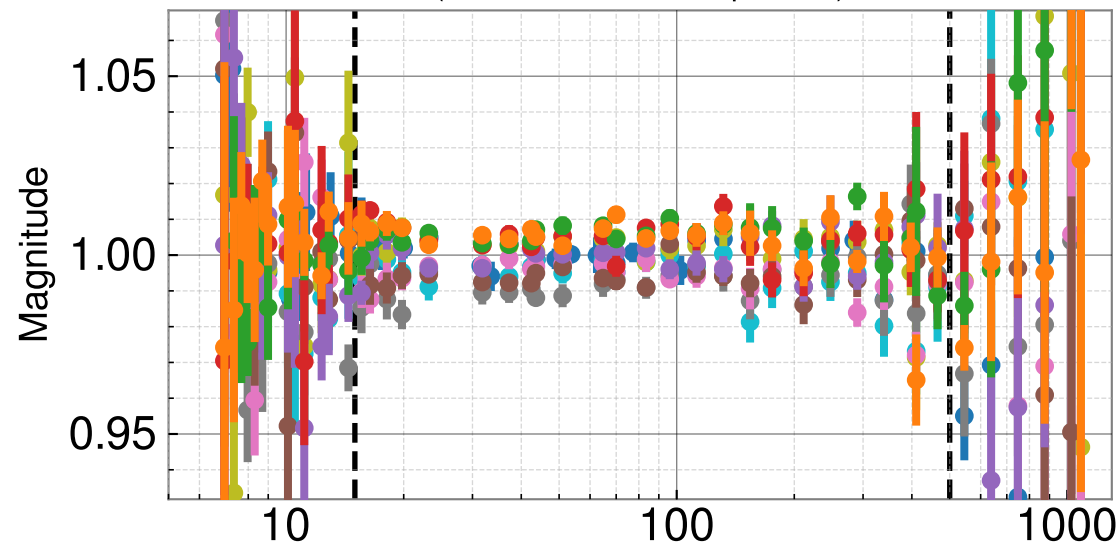
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250626T204210Z/pydarm_H1.ini



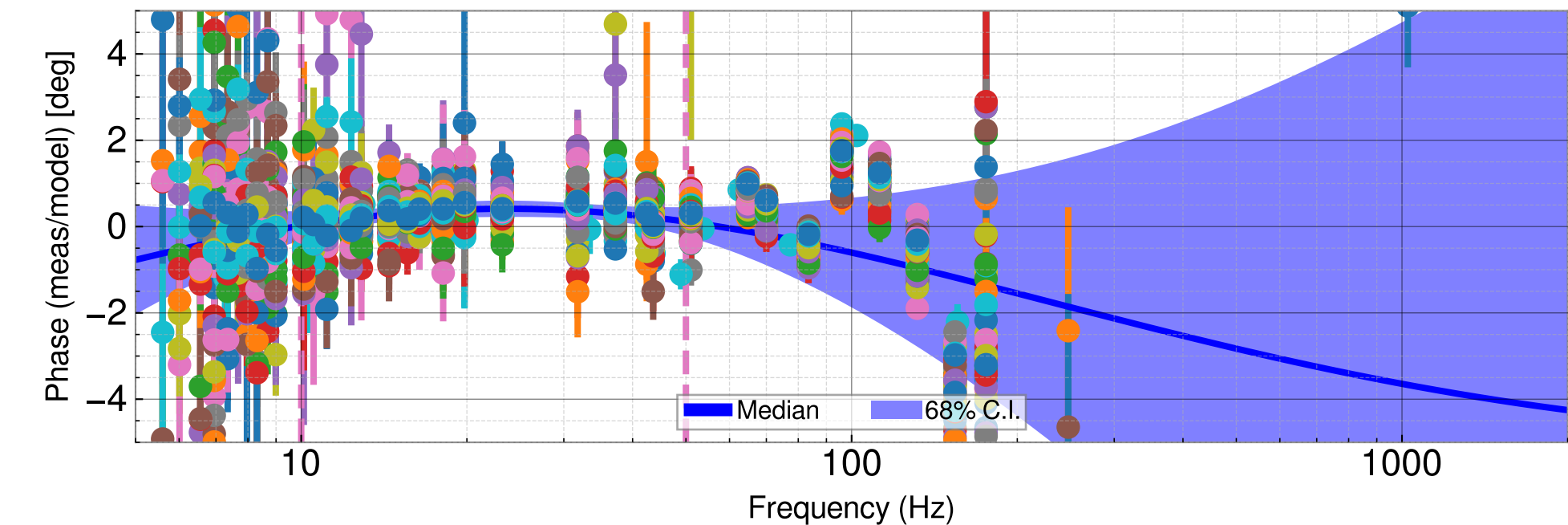
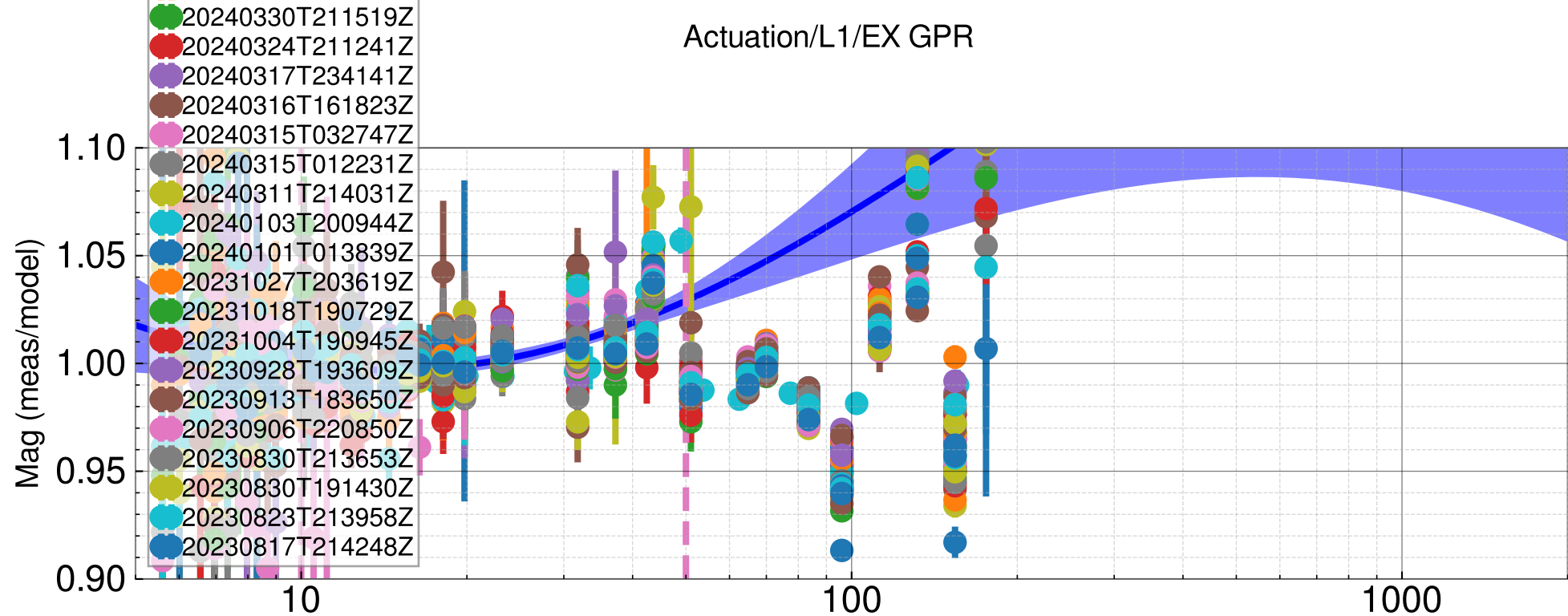
Actuation strength transfer functions
(scaled by H_{ref})



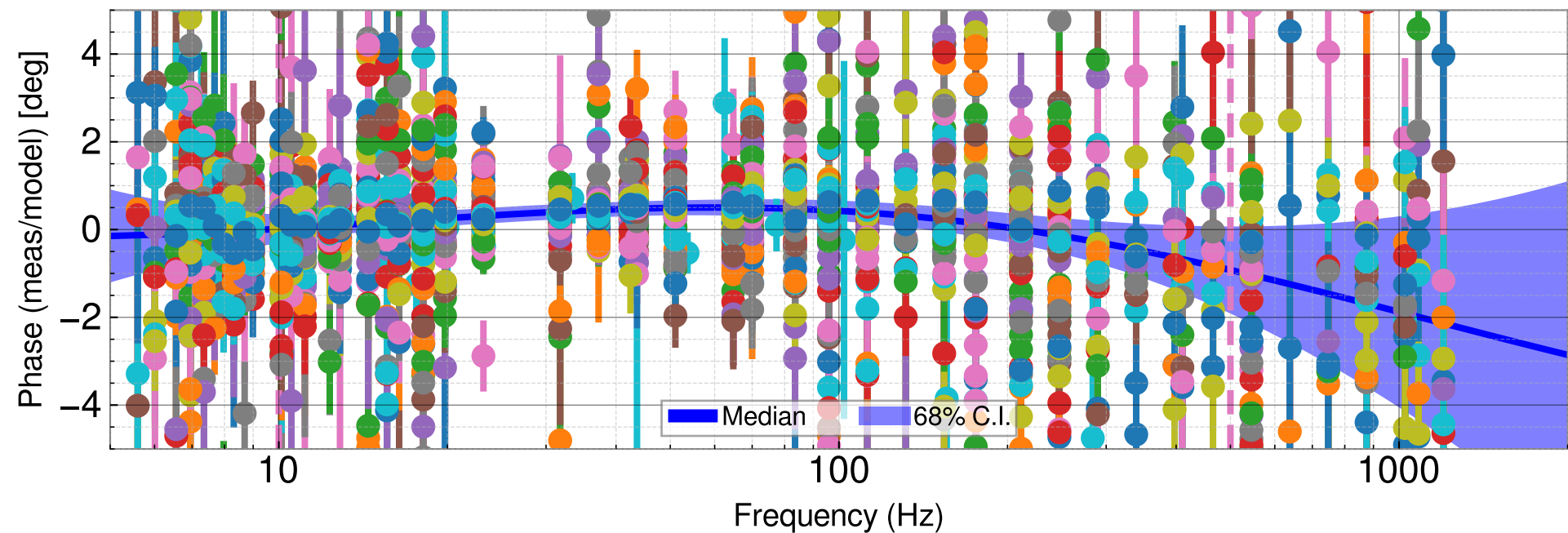
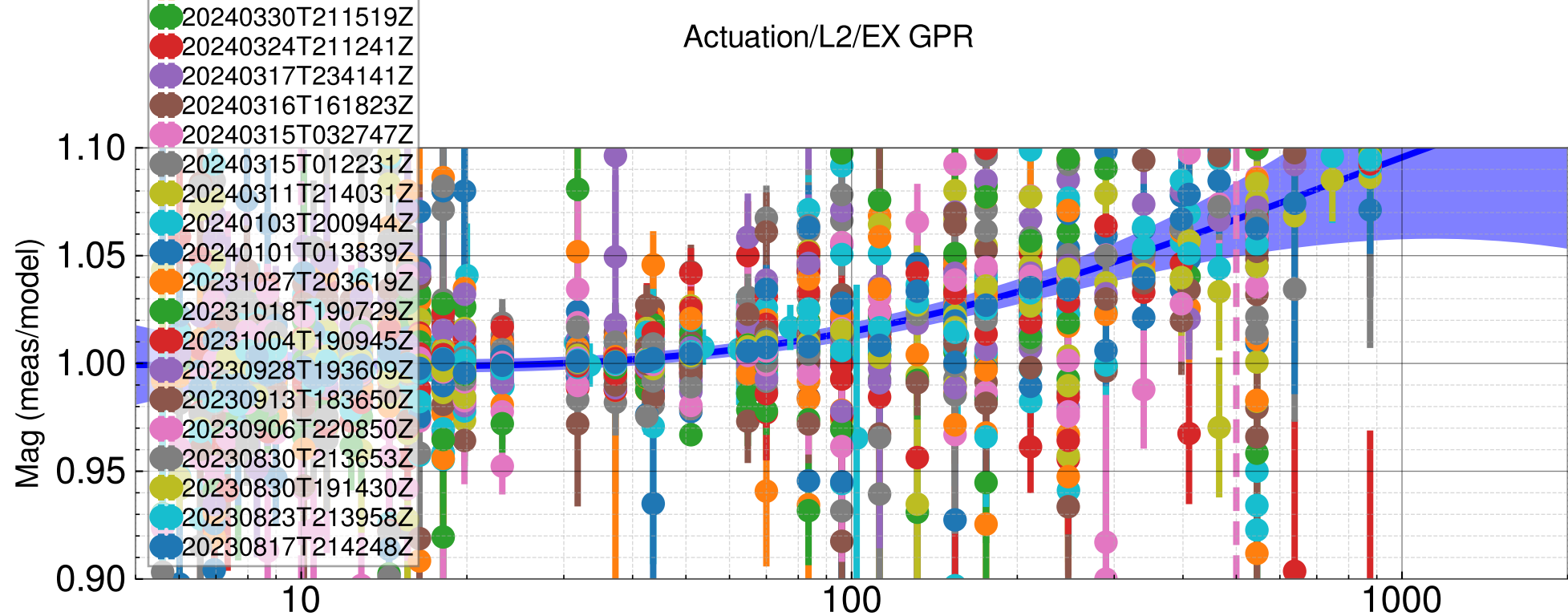
Actuation strength residuals
(meas./model w. free params)



Actuation/L1/EX GPR



Actuation/L2/EX GPR



Actuation/L3/EX GPR

