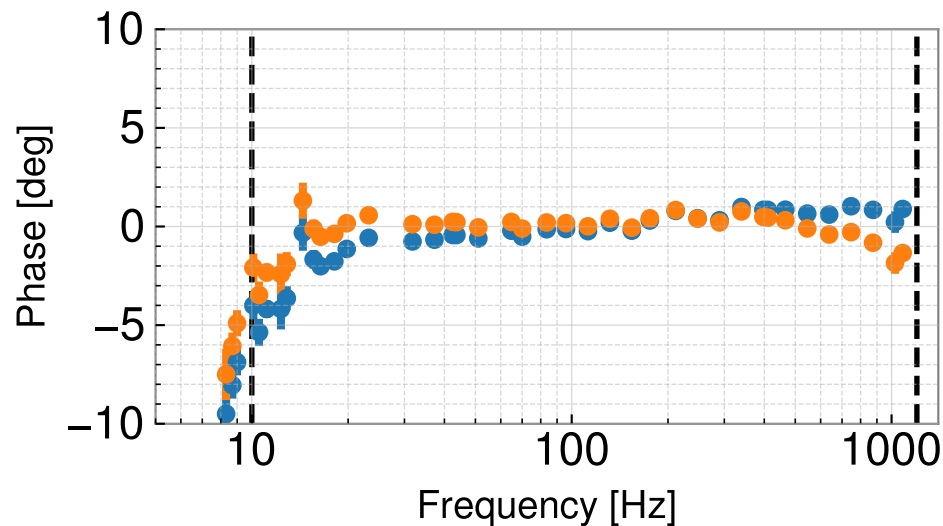
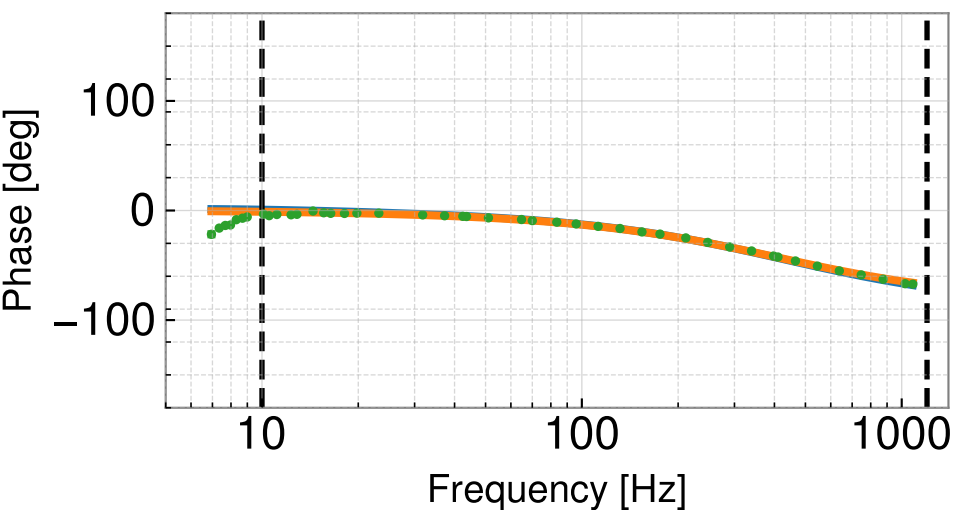
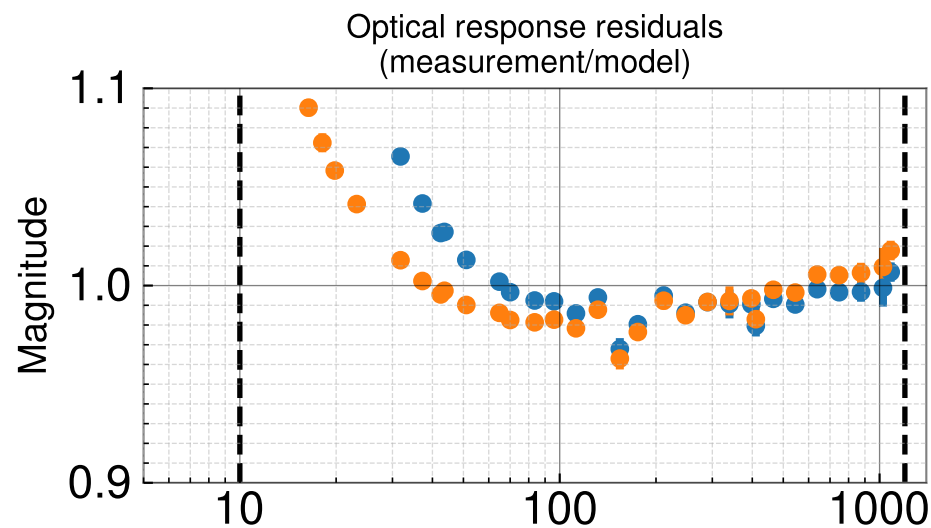
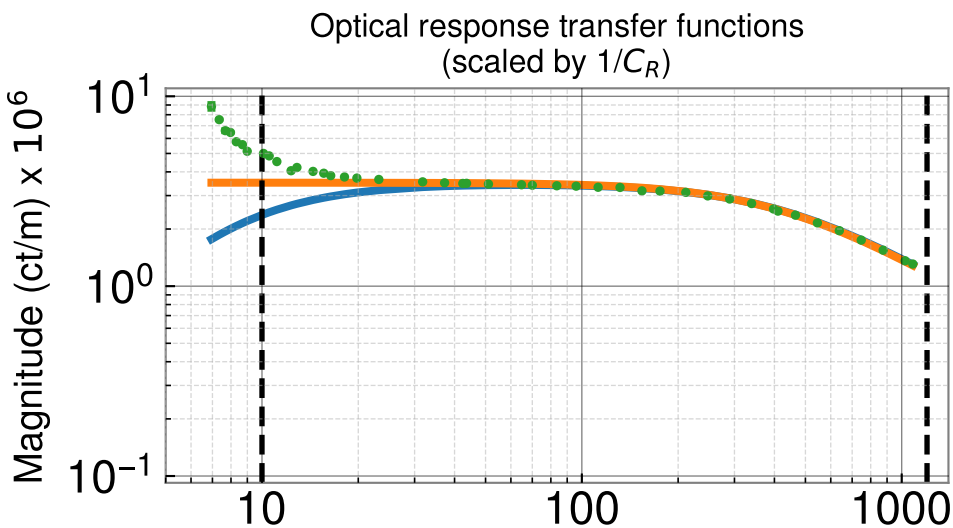
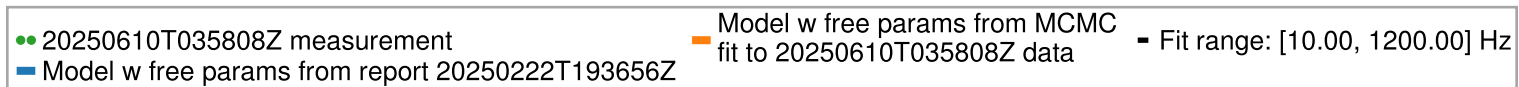


H1 sensing model MCMC summary

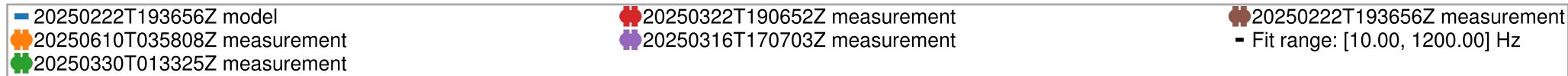
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250610T035741Z/pydarm_H1.ini



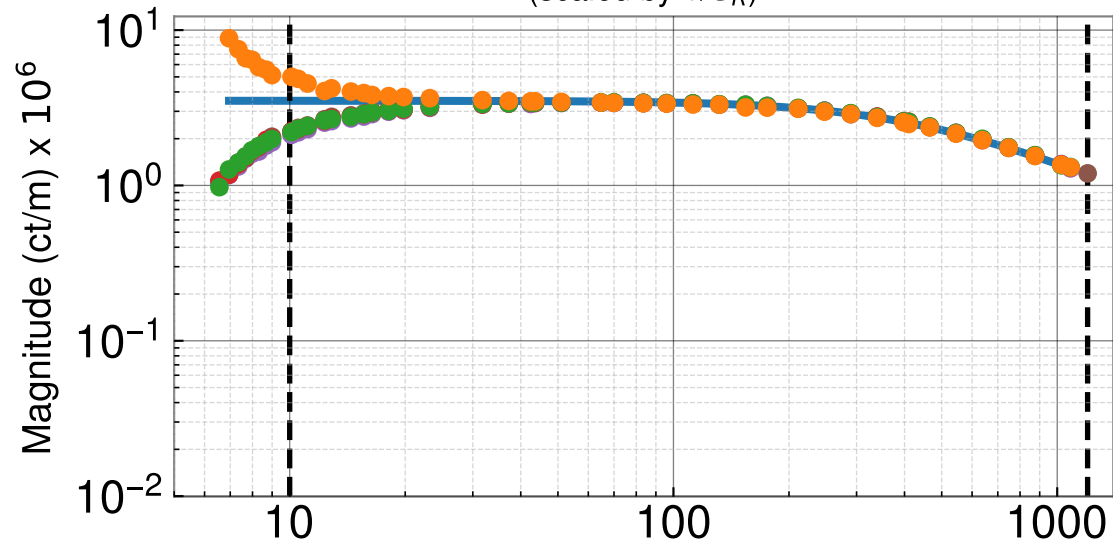
Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.508e+06	2117 (0.06%)	2118 (0.06%)
Cavity_pole, f_{cc} (Hz)	426.5	0.7919 (0.19%)	0.7855 (0.18%)
Detuned SRC spring frequency, f_s (Hz)	0.05703	0.04063 (71.24%)	0.0305 (53.48%)
Detuned SRC spring quality factor, Q_s	1.957	4.549 (232.44%)	0.756 (38.63%)
Residual time delay, τ_c (s)	-6.727e-06	3.849e-07 (-5.72%)	3.854e-07 (-5.73%)

H1 sensing model history (last 9 measurements)

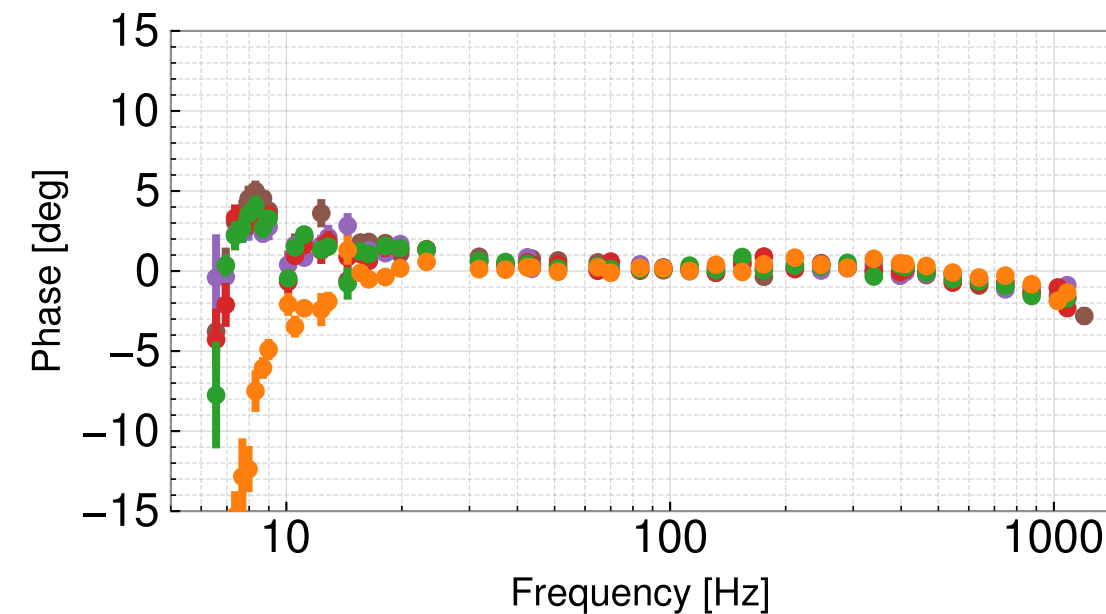
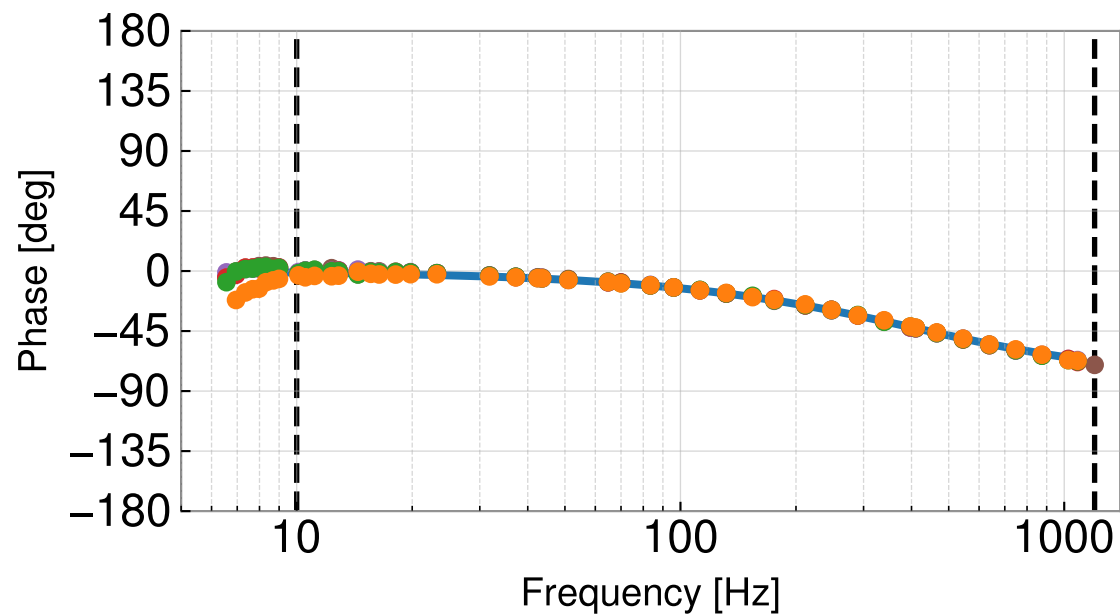
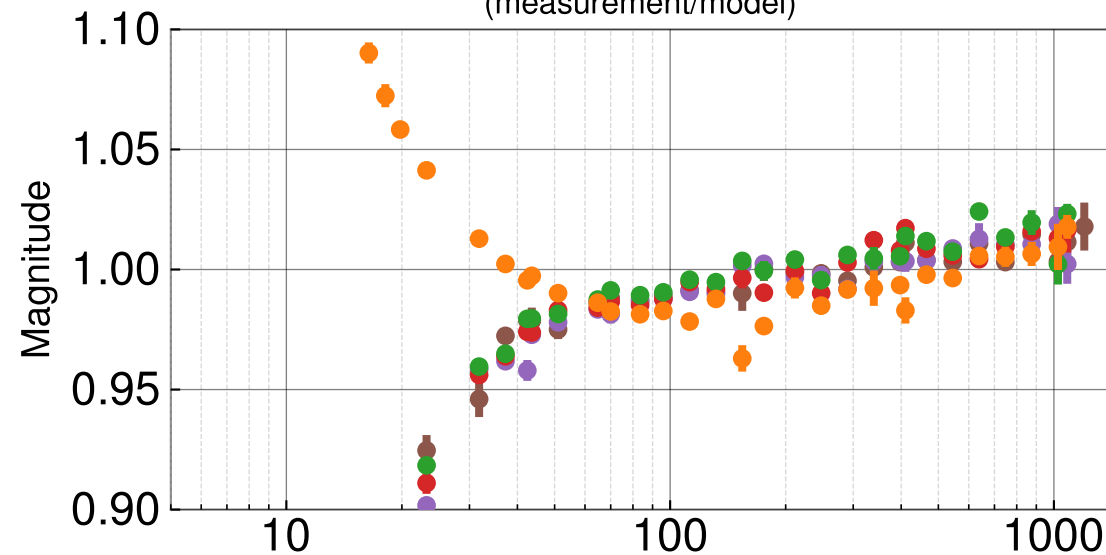
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250610T035741Z/pydarm_H1.ini



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

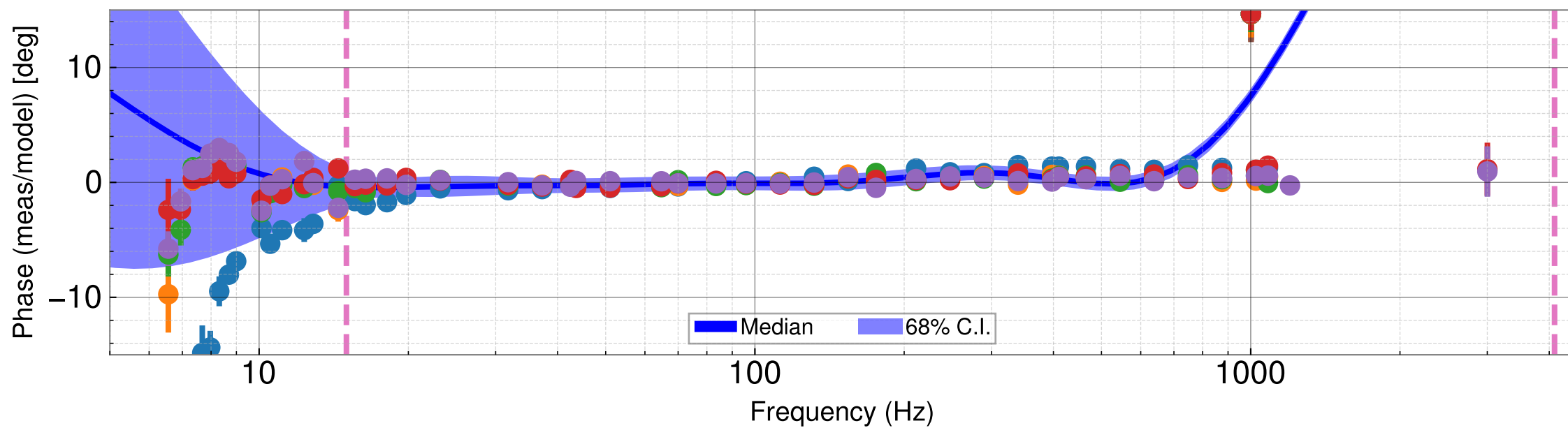
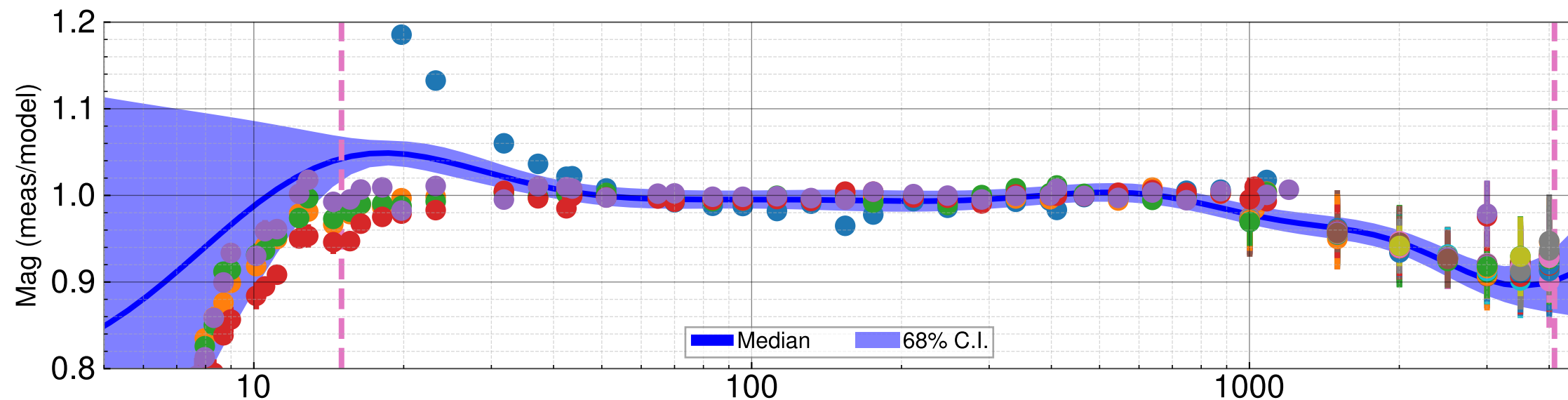


Optical response residuals
(measurement/model)



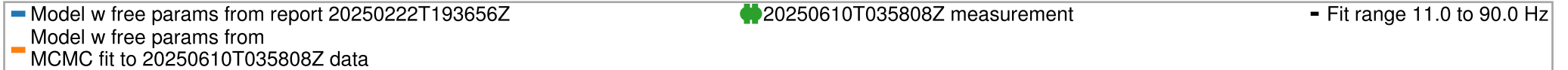
Sensing GPR

meas. 20250610T035808Z of report 20250610T035741Z meas. 20250322T190720Z of report 20250322T190652Z meas. 20250222T193724Z of report 20250222T193656Z
meas. 20250330T013352Z of report 20250330T013325Z meas. 20250316T170731Z of report 20250316T170703Z

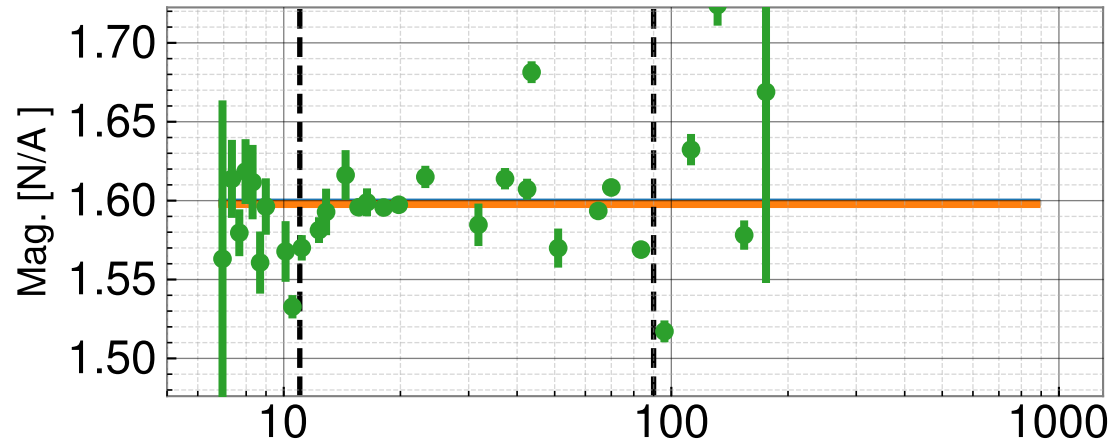


H1SUSEX L1 actuation model MCMC summary

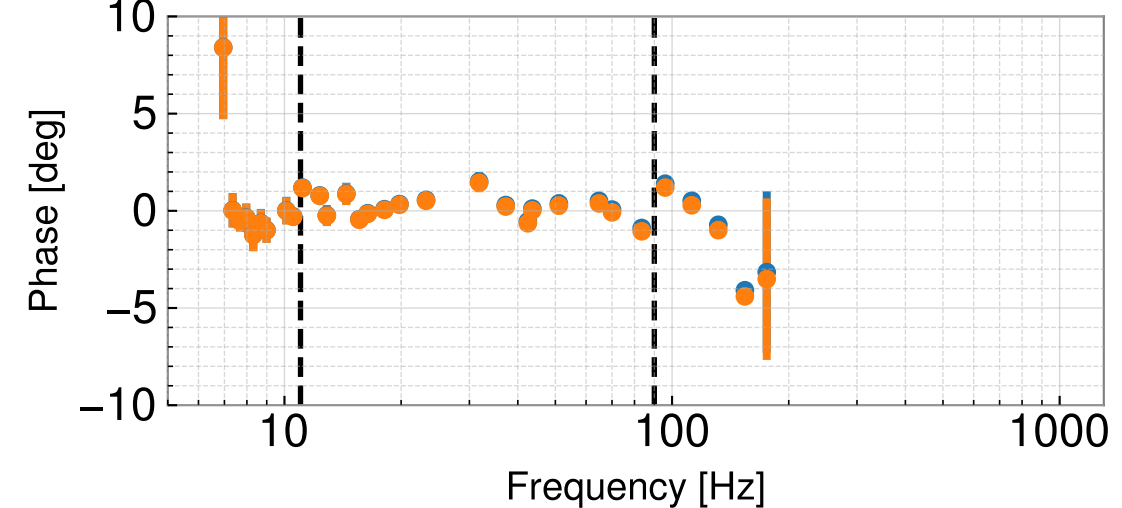
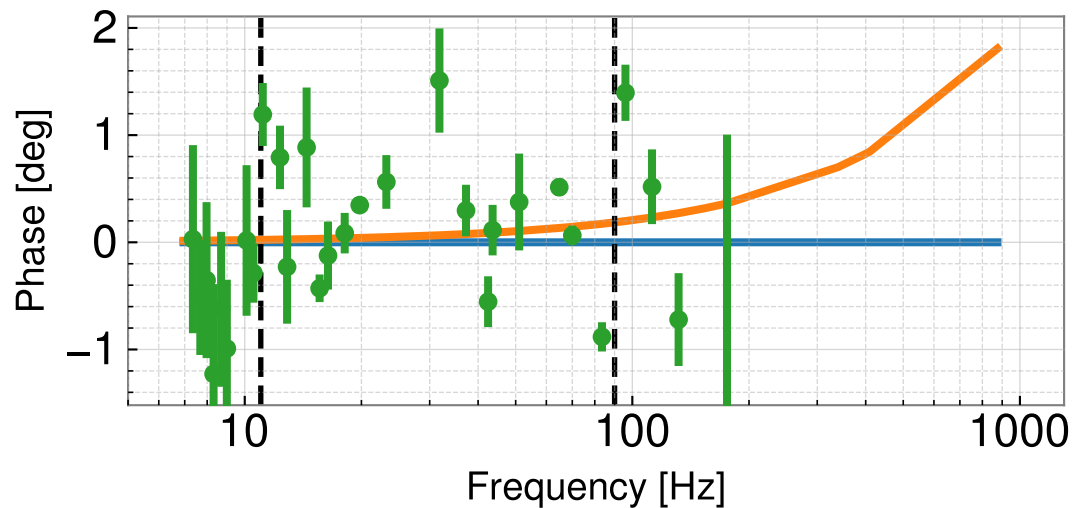
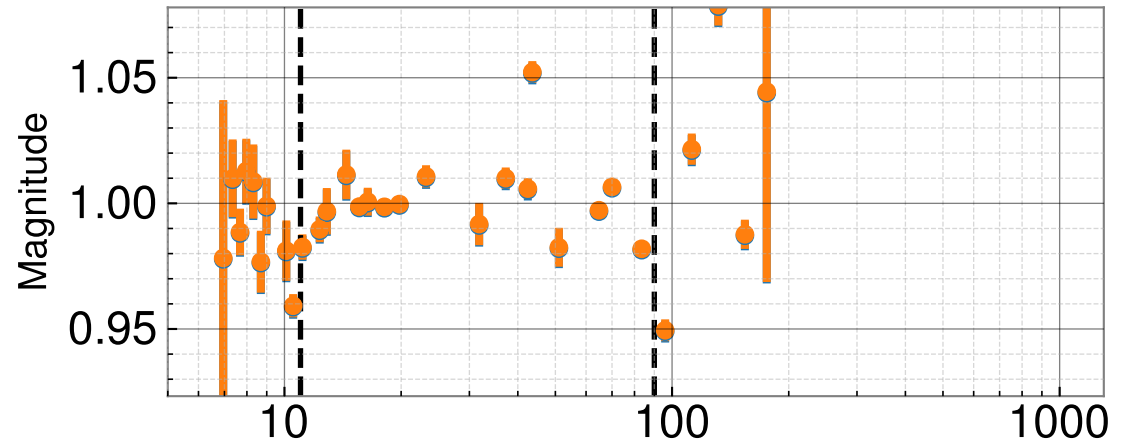
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250610T035741Z/pydarm_H1.ini



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

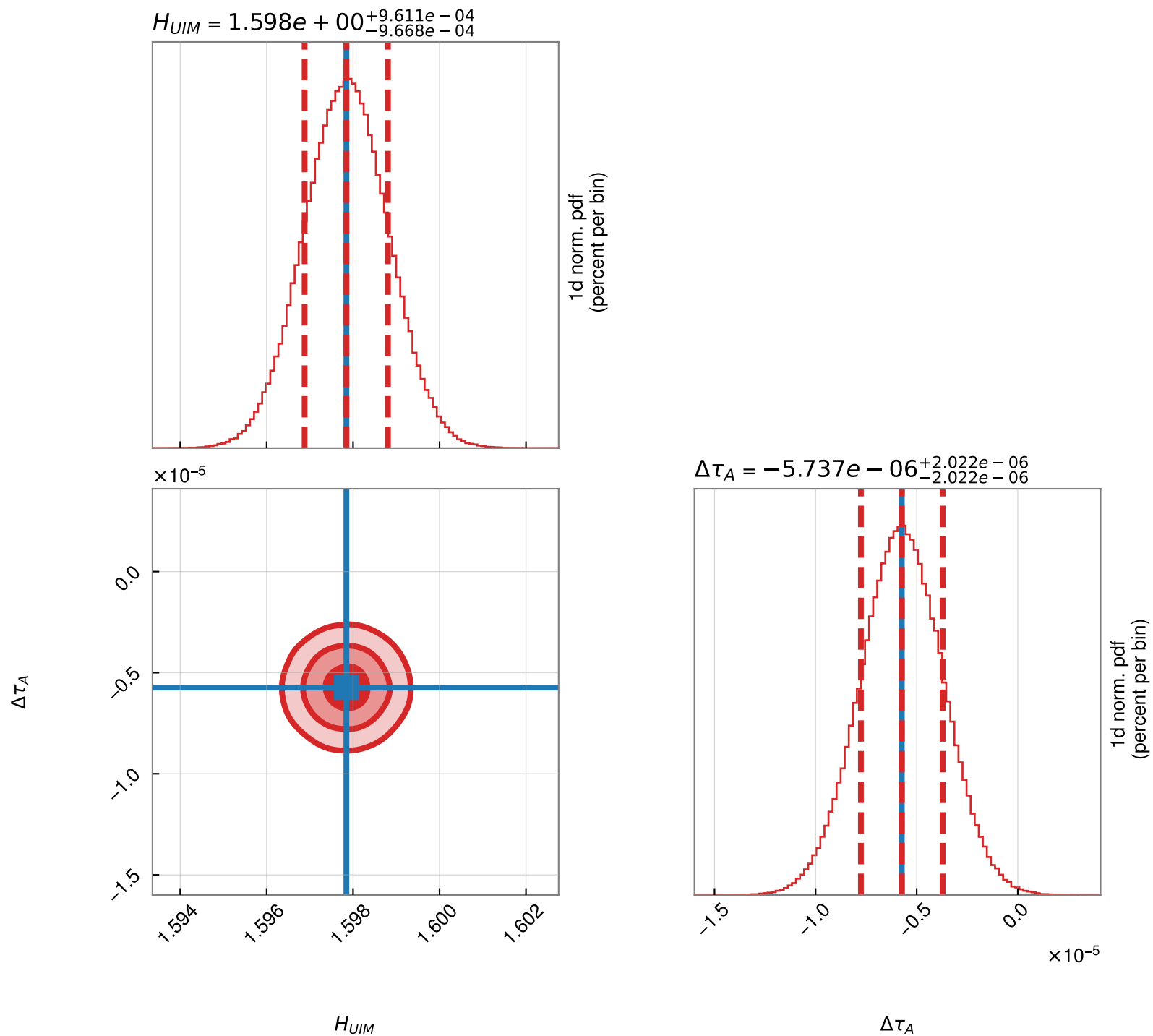
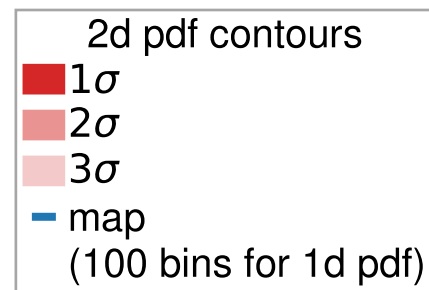


Actuation strength residuals
(meas./model w. free params)



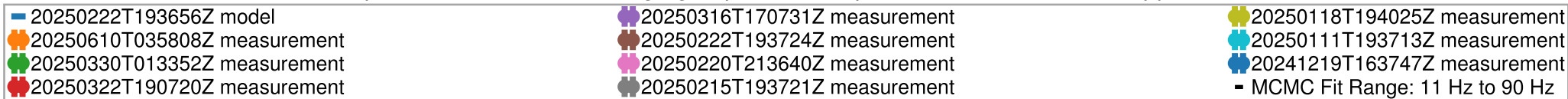
Parameter	(value +/-) value	+	-
Actuation Gain, Hau (N/A)	1.598	0.0009611 (0.06%)	0.0009668 (0.06%)
Residual time delay, tau_A (s)	-5.737e-06	2.022e-06 (-35.24%)	2.022e-06 (-35.24%)

20250610T035808Z EX L1 actuation MCMC corner plot

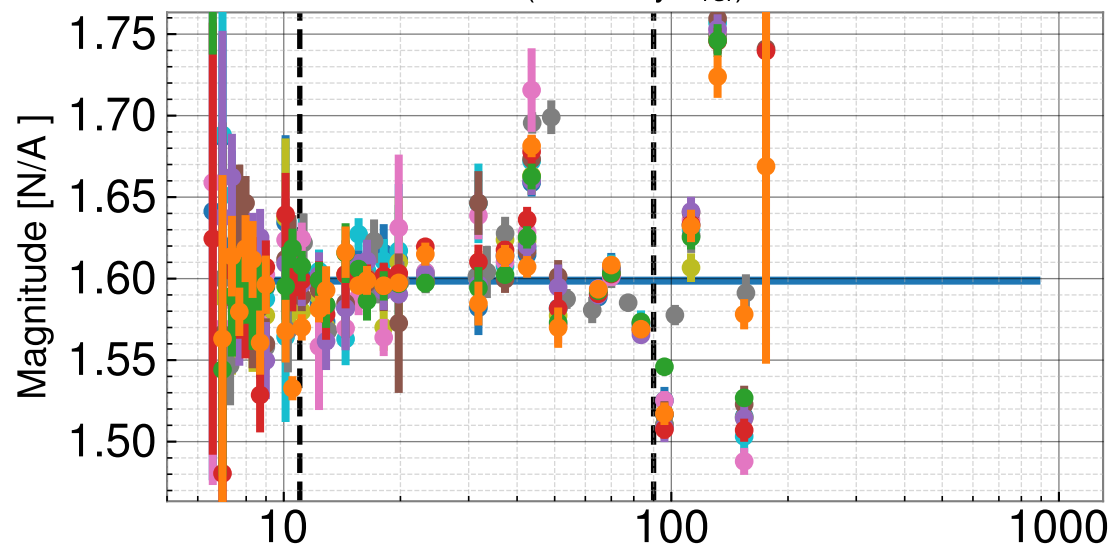


H1SUSEX L1 actuation model history (last 9 measurements)

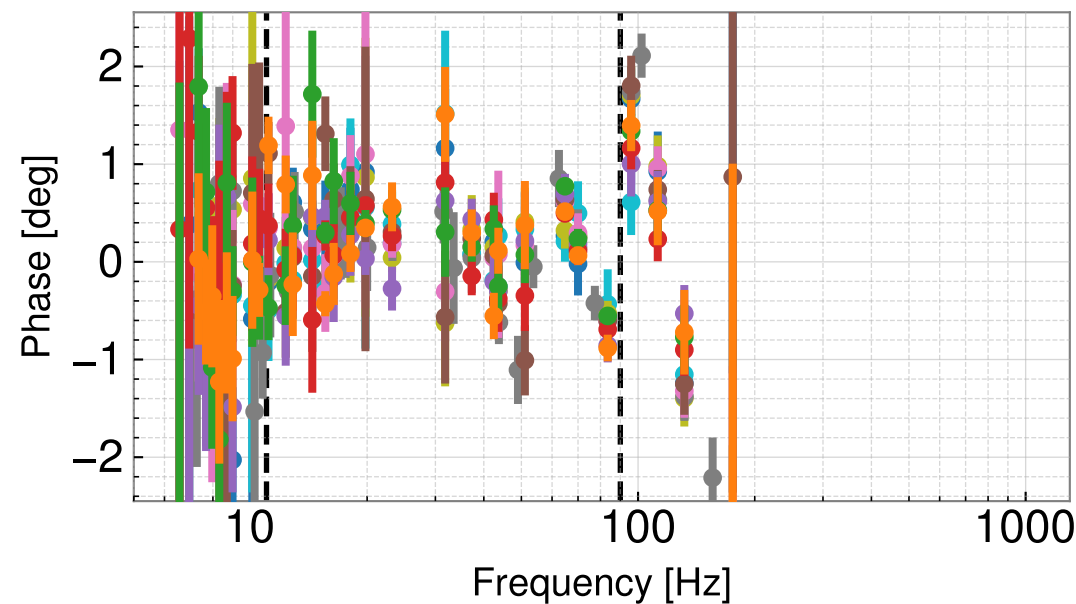
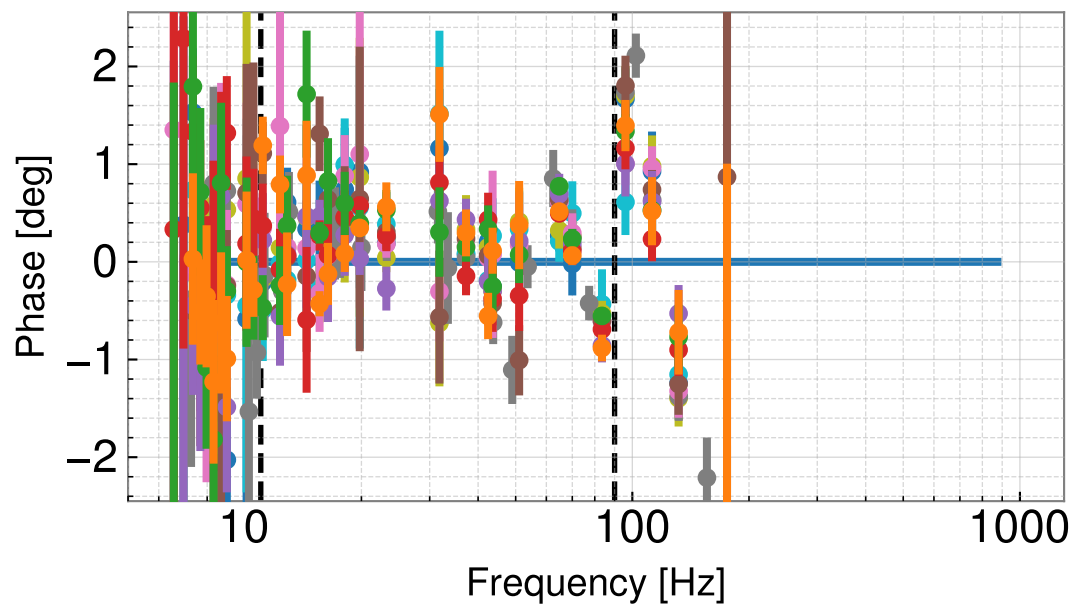
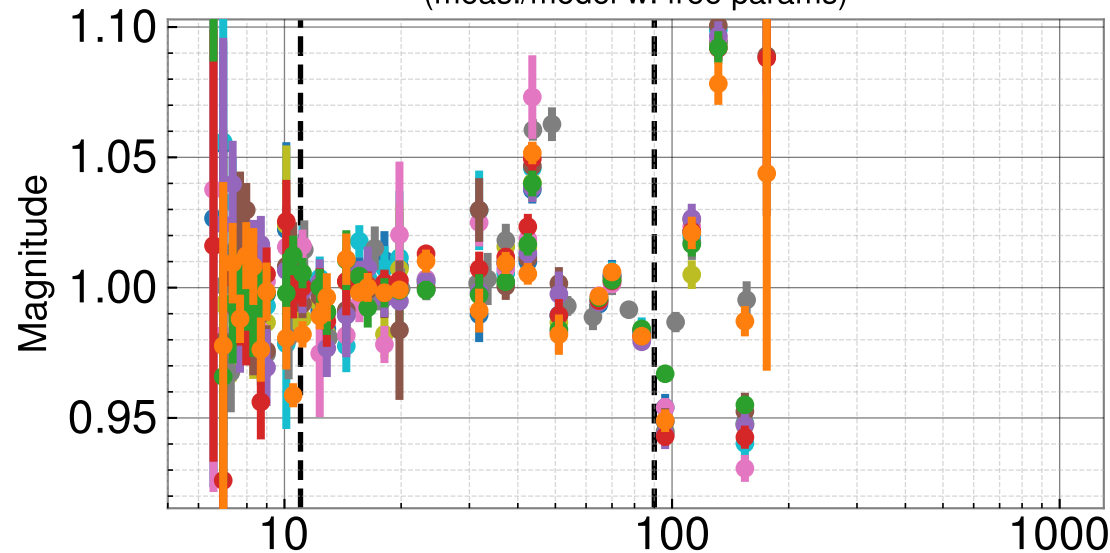
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250610T035741Z/pydarm_H1.ini



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



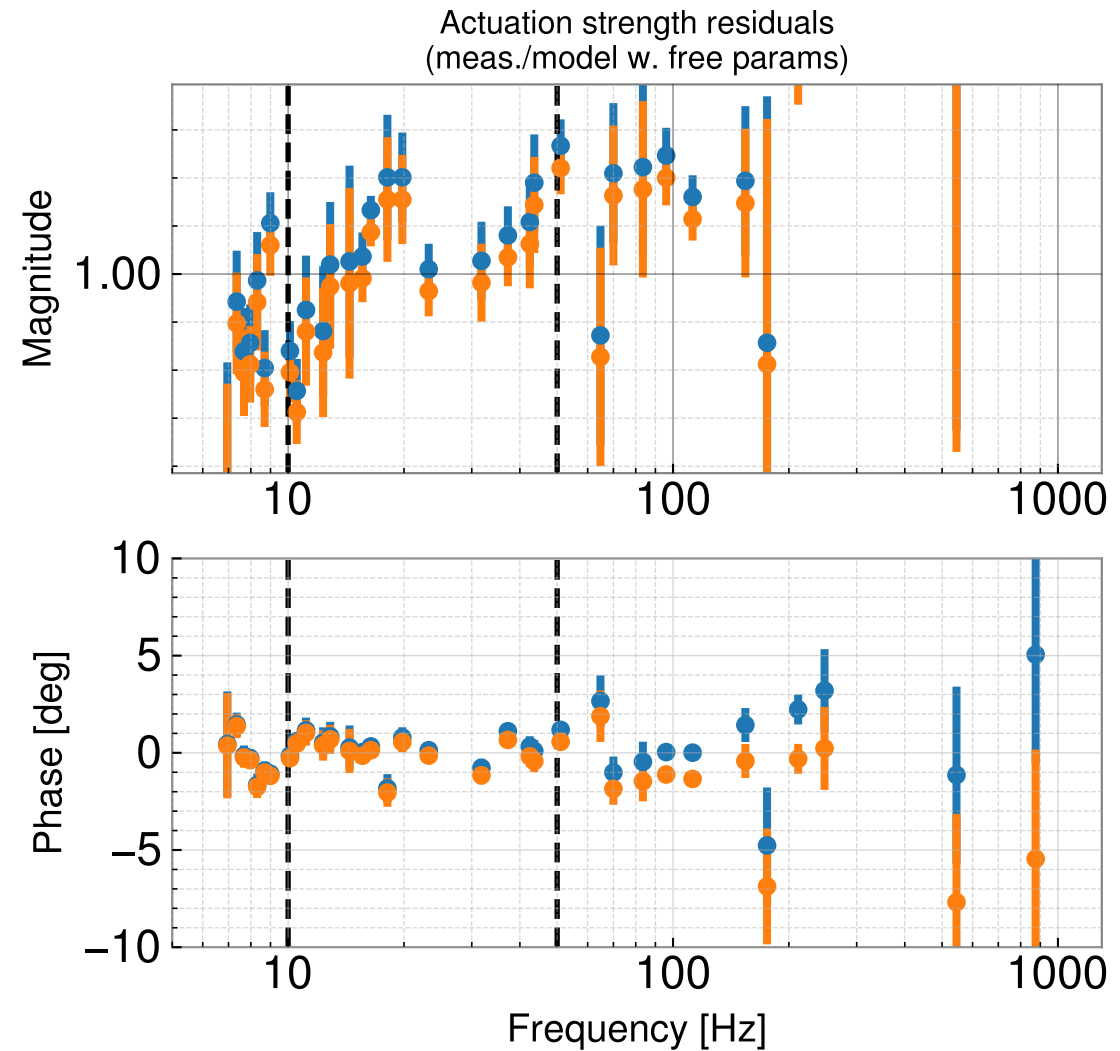
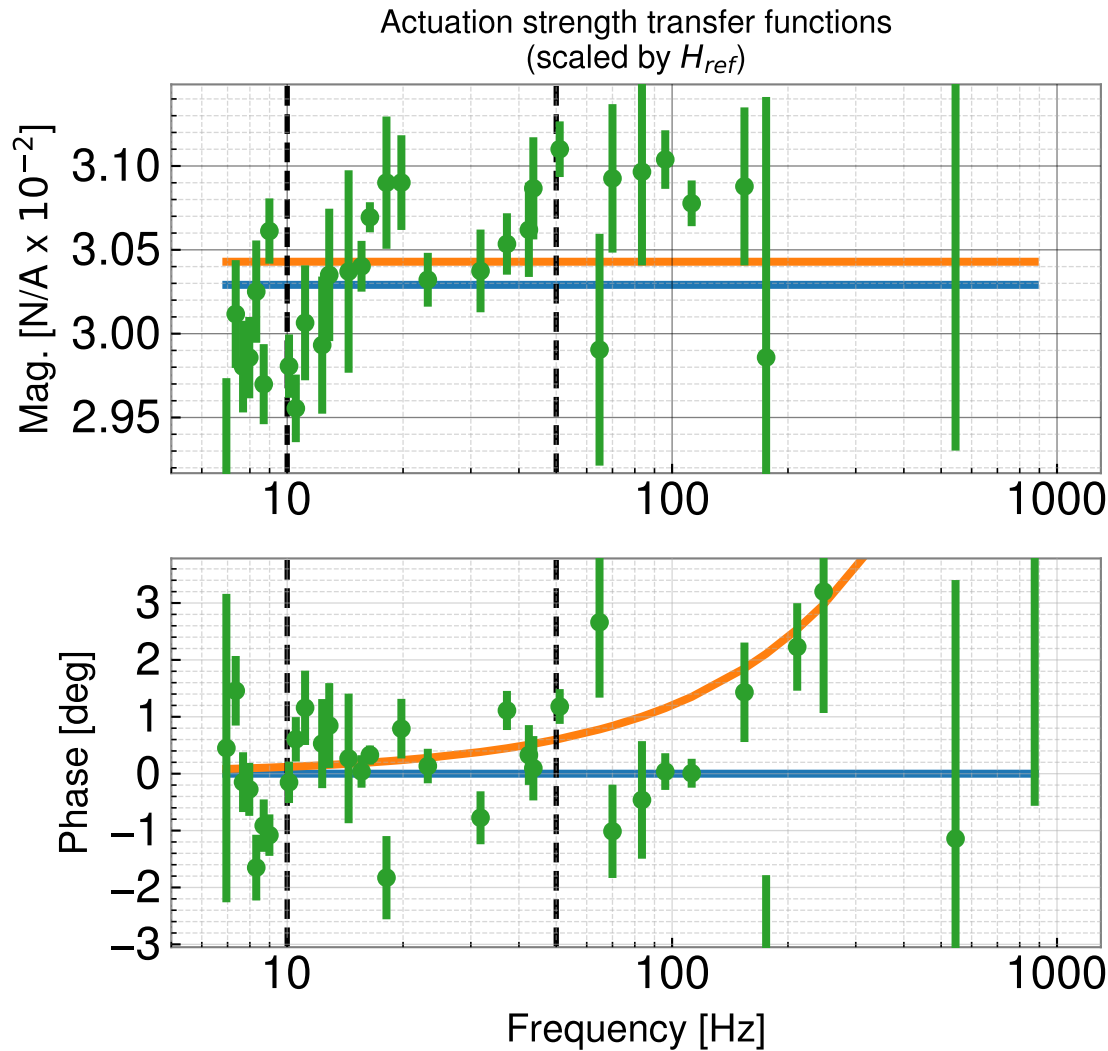
Actuation strength residuals
(meas./model w. free params)



H1SUSEX L2 actuation model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250610T035741Z/pydarm_H1.ini

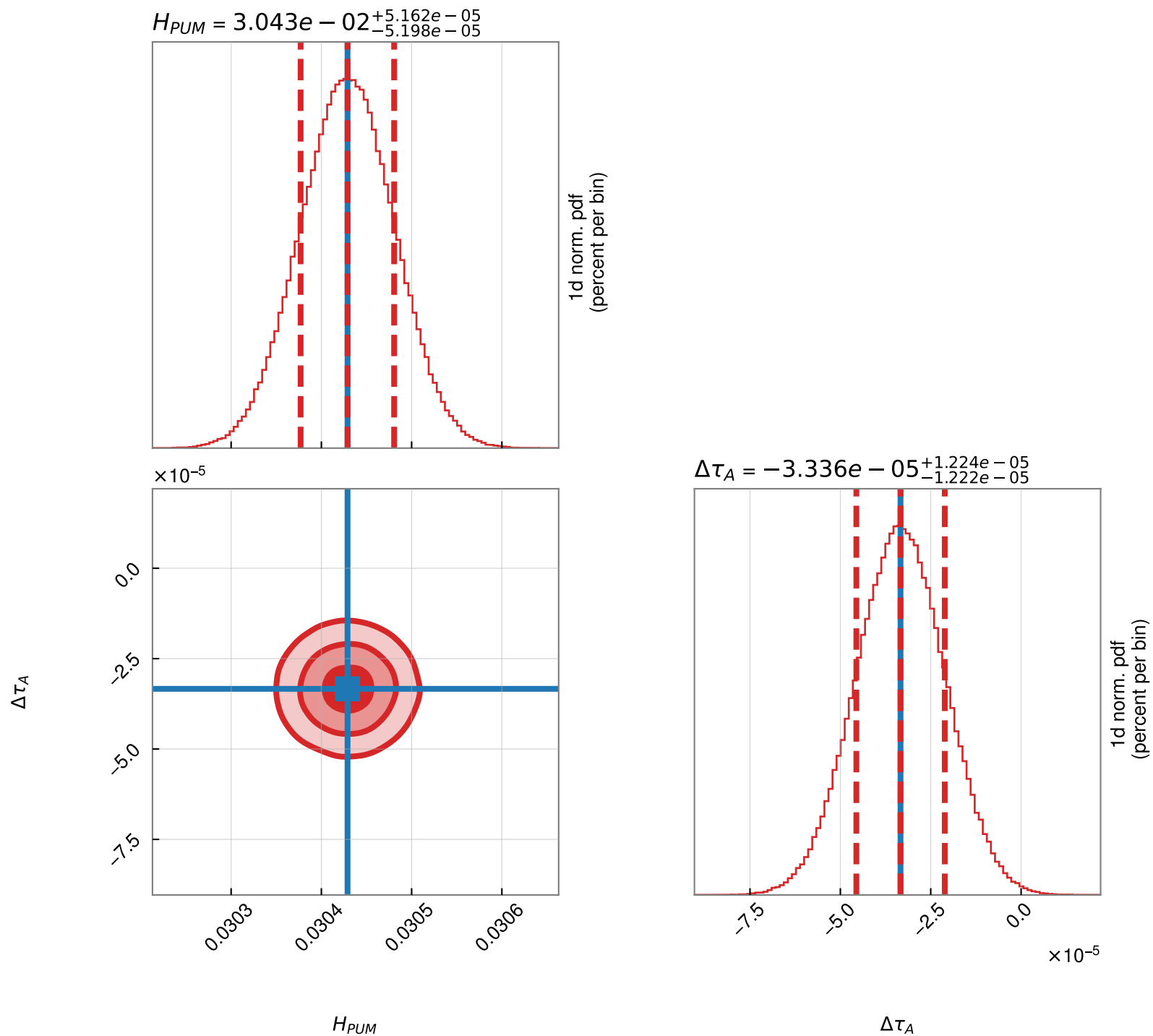
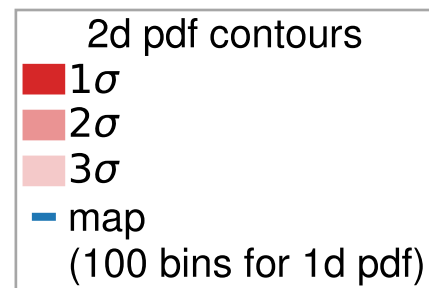
— Model w free params from report 20250222T193656Z
— Model w free params from
— MCMC fit to 20250610T035809Z data
■ 20250610T035809Z measurement
— Fit range 10.0 to 50.0 Hz



Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.03043	5.162e-05 (0.17%)	5.198e-05 (0.17%)
Residual time delay, tau_A (s)	-3.336e-05	1.224e-05 (-36.68%)	1.222e-05 (-36.64%)

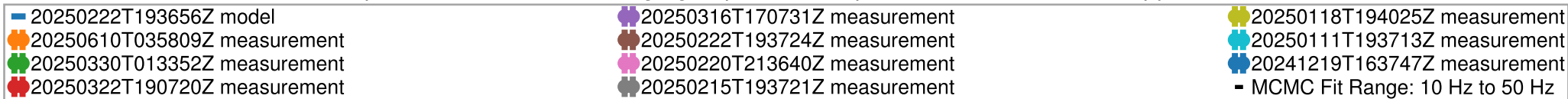
20250610T035809Z EX L2 actuation

MCMC corner plot

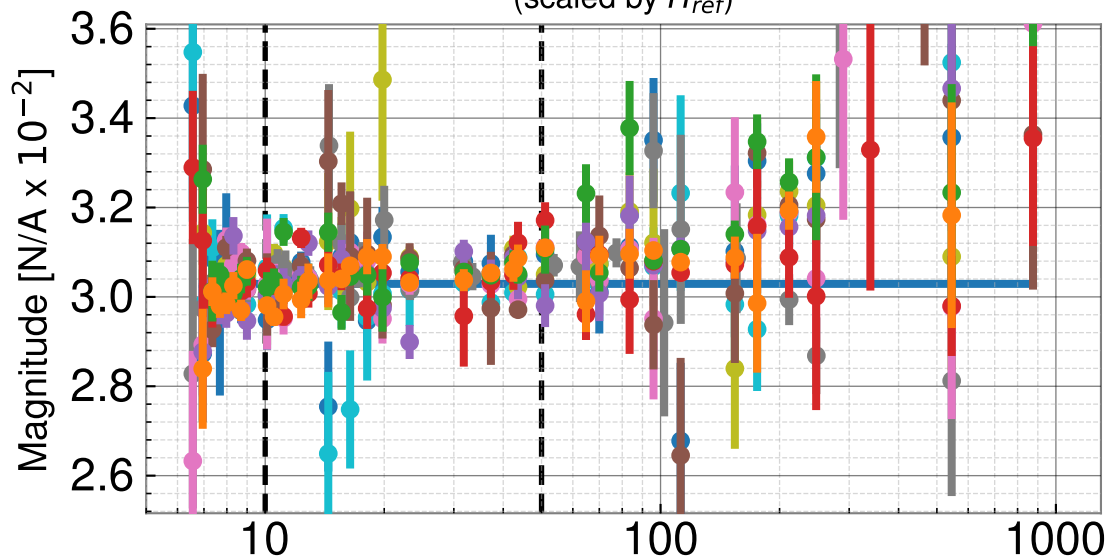


H1SUSEX L2 actuation model history (last 9 measurements)

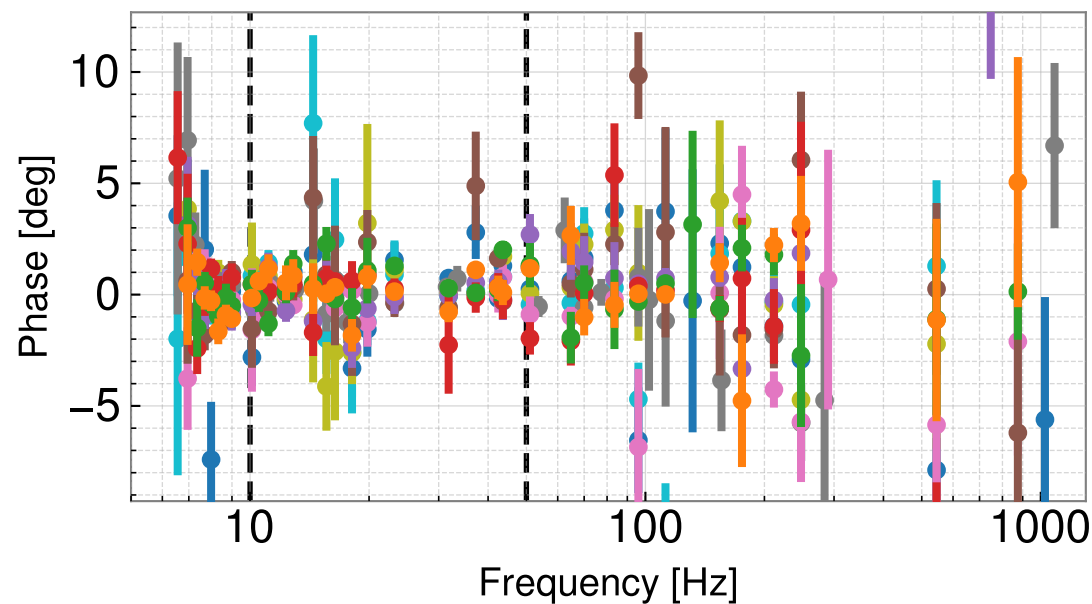
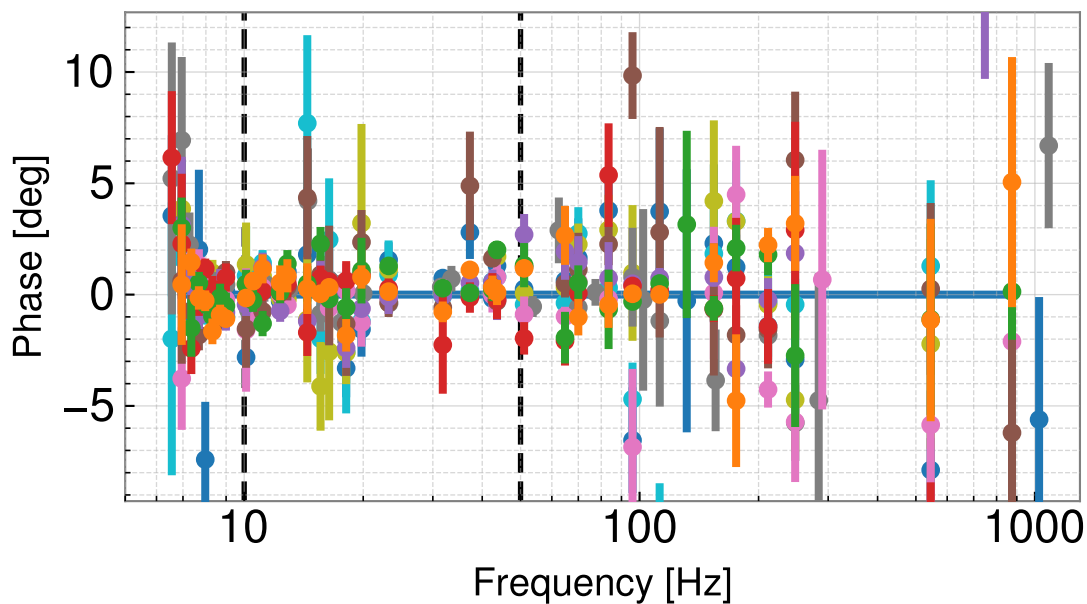
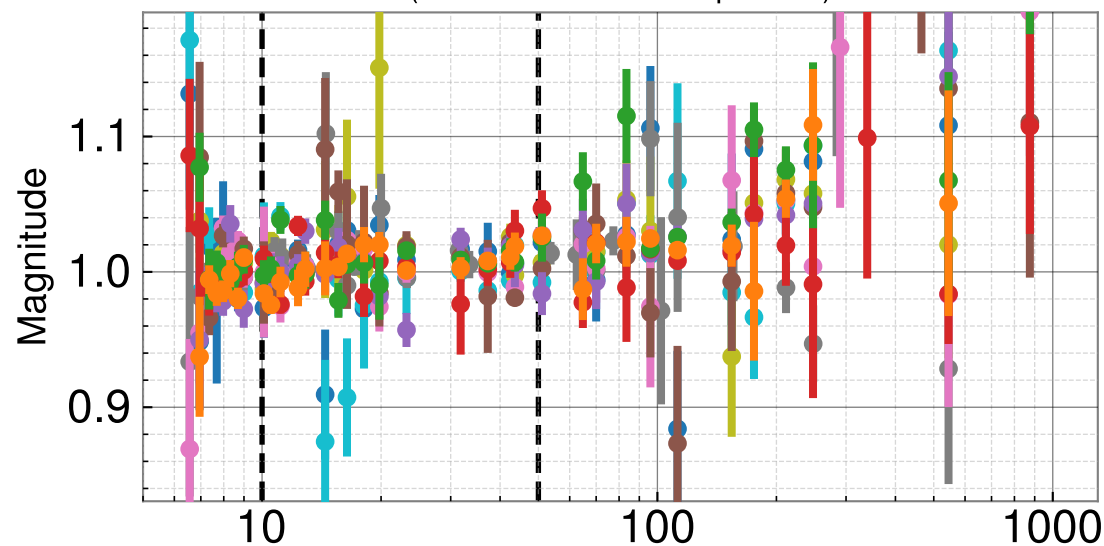
All fixed parameters drawn from `/ligo/groups/cal/H1/reports/20250610T035741Z/pydarm_H1.ini`



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

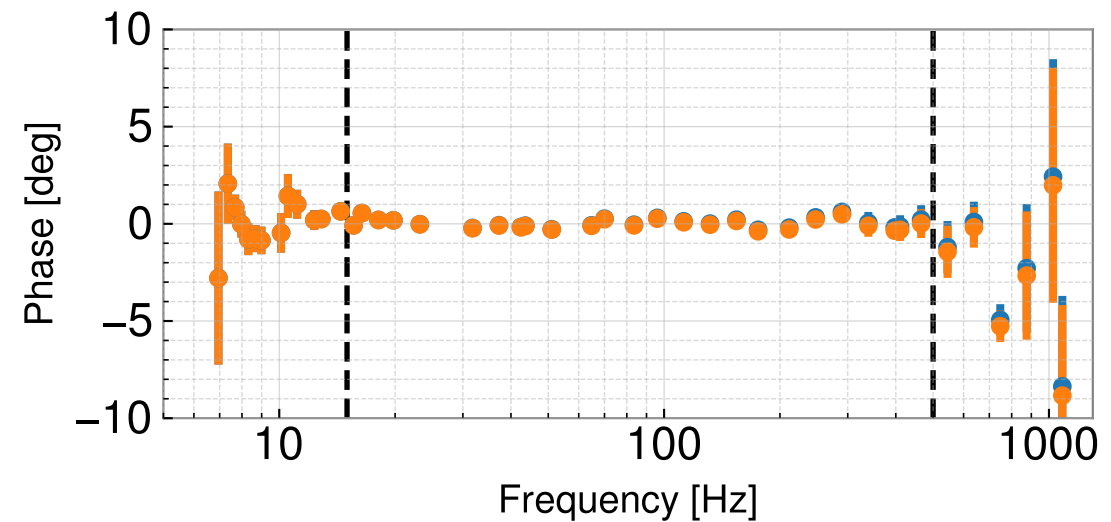
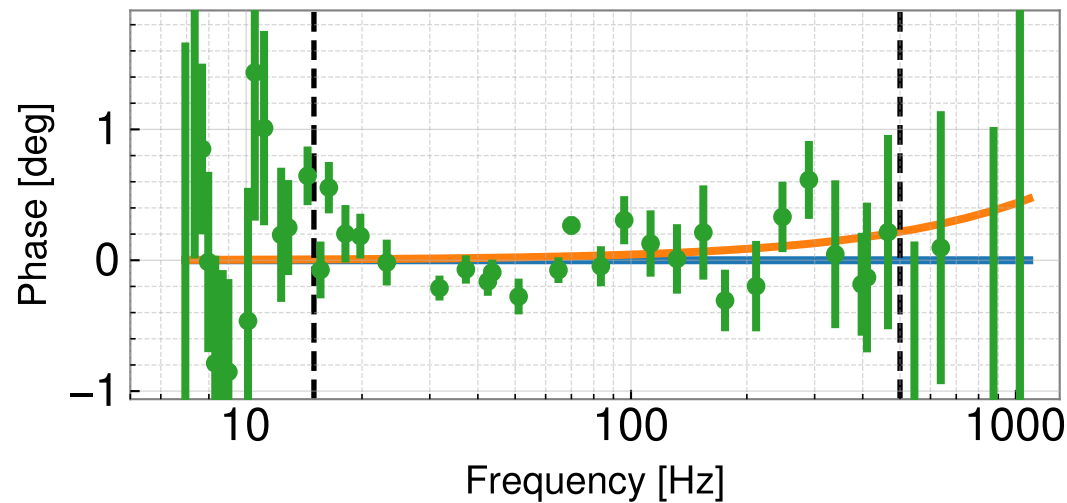
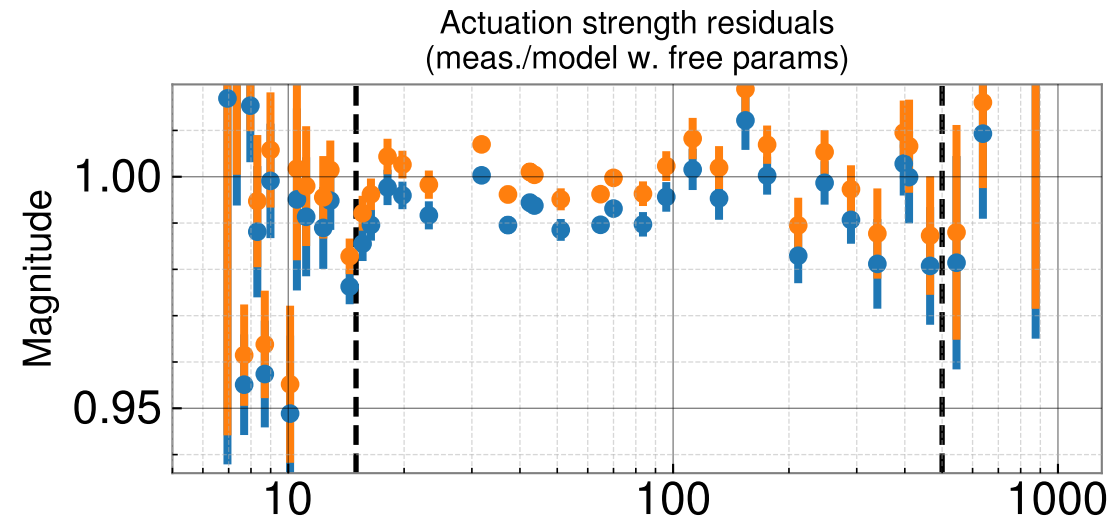
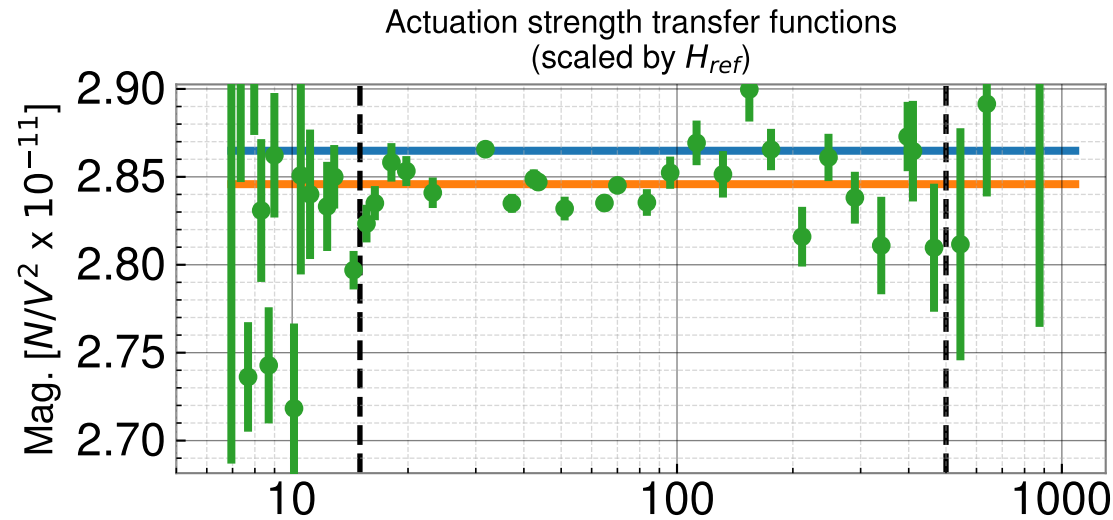


Actuation strength residuals
(meas./model w. free params)



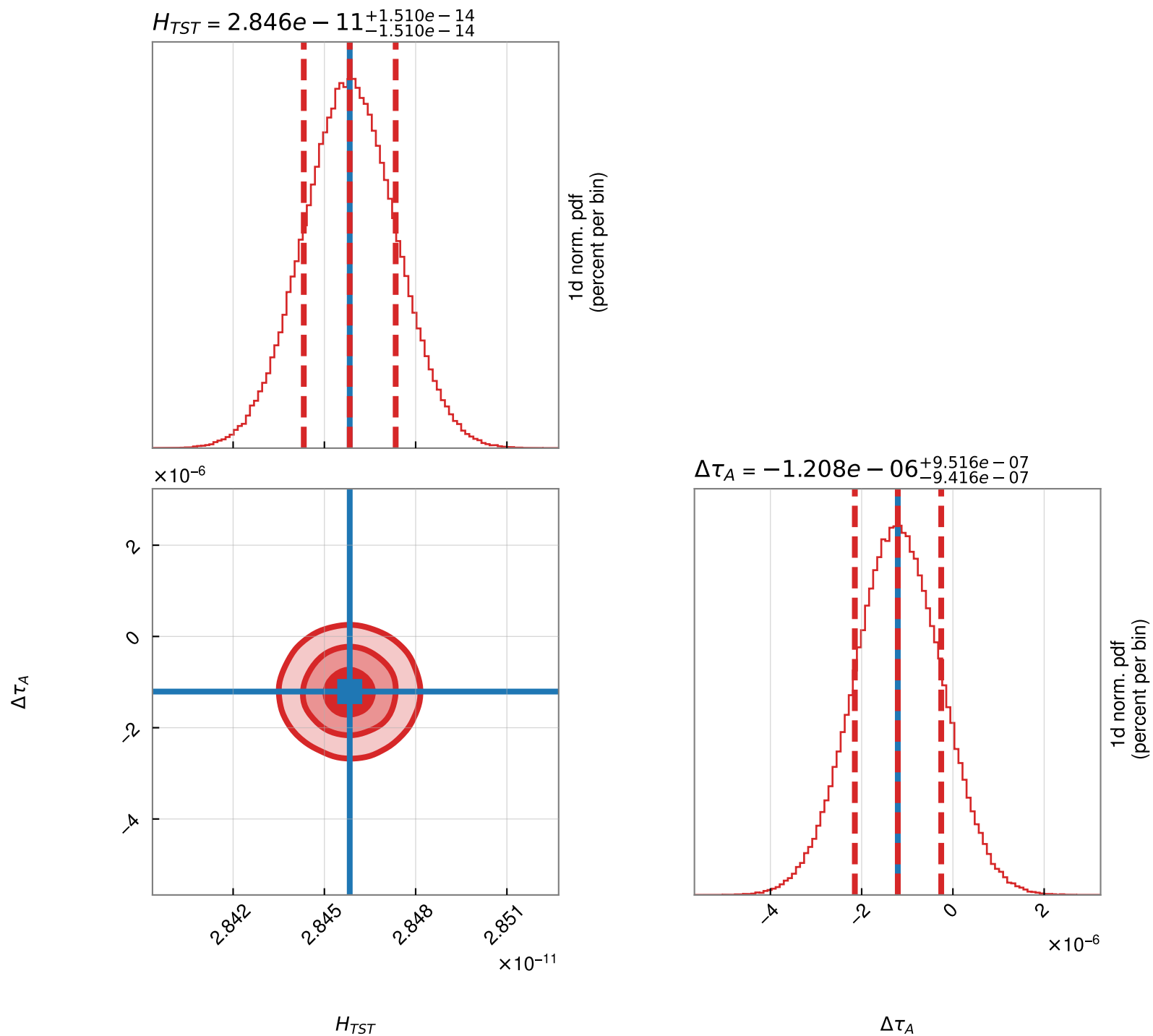
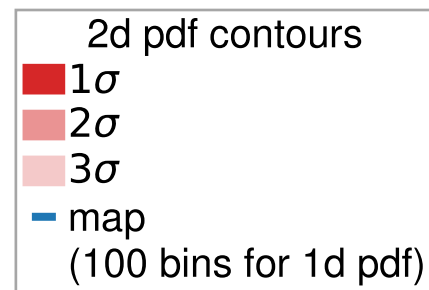
H1SUSEX L3 actuation model MCMC summary

All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250610T035741Z/pydarm_H1.ini



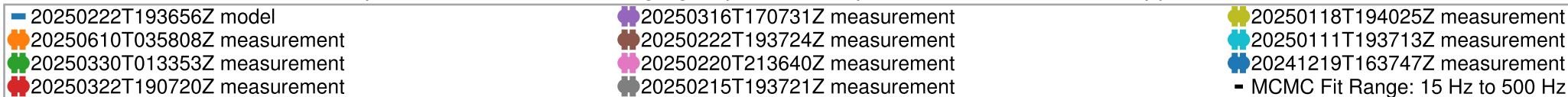
Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V^2)	2.846e-11	1.51e-14 (0.05%)	1.51e-14 (0.05%)
Residual time delay, tau_A (s)	-1.208e-06	9.516e-07 (-78.79%)	9.416e-07 (-77.96%)

20250610T035808Z EX L3 actuation MCMC corner plot

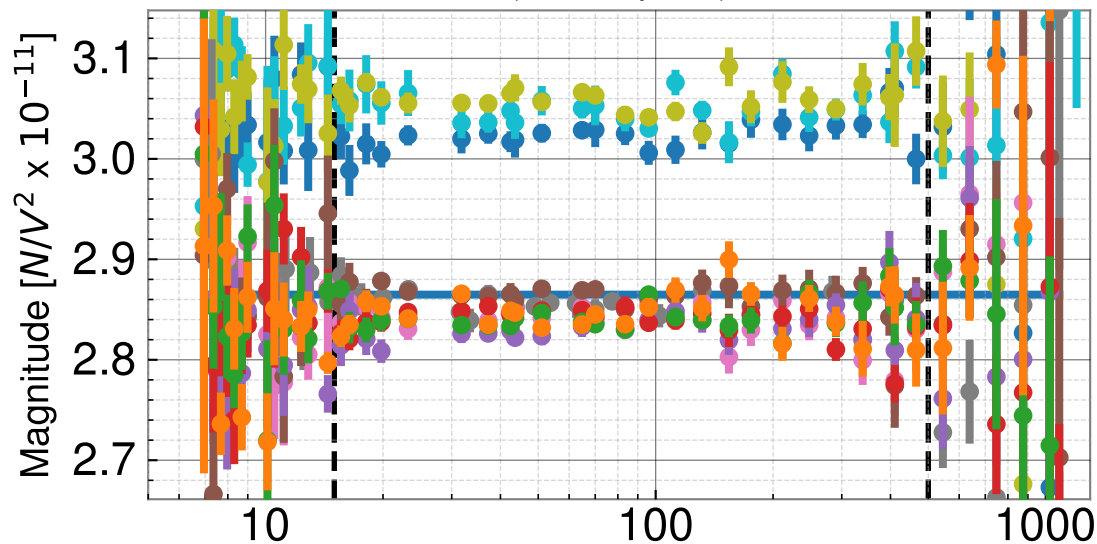


H1SUSEX L3 actuation model history (last 9 measurements)

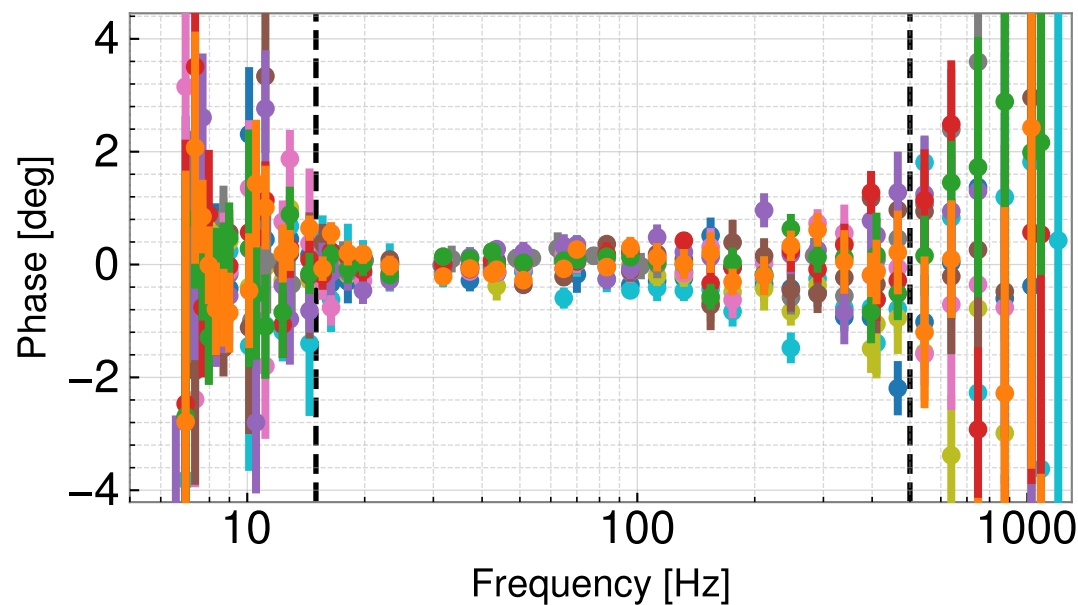
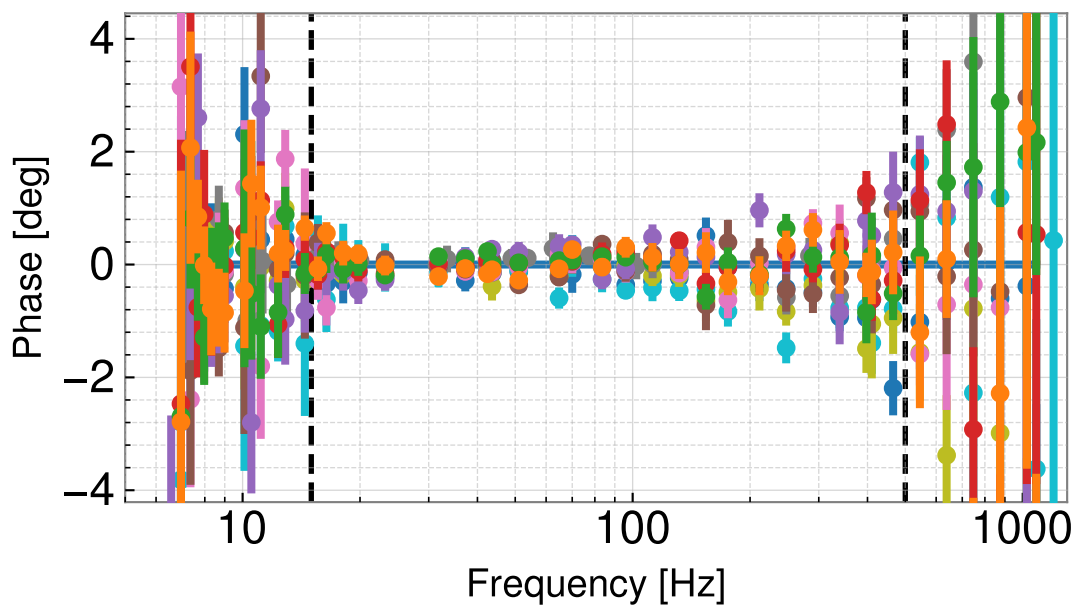
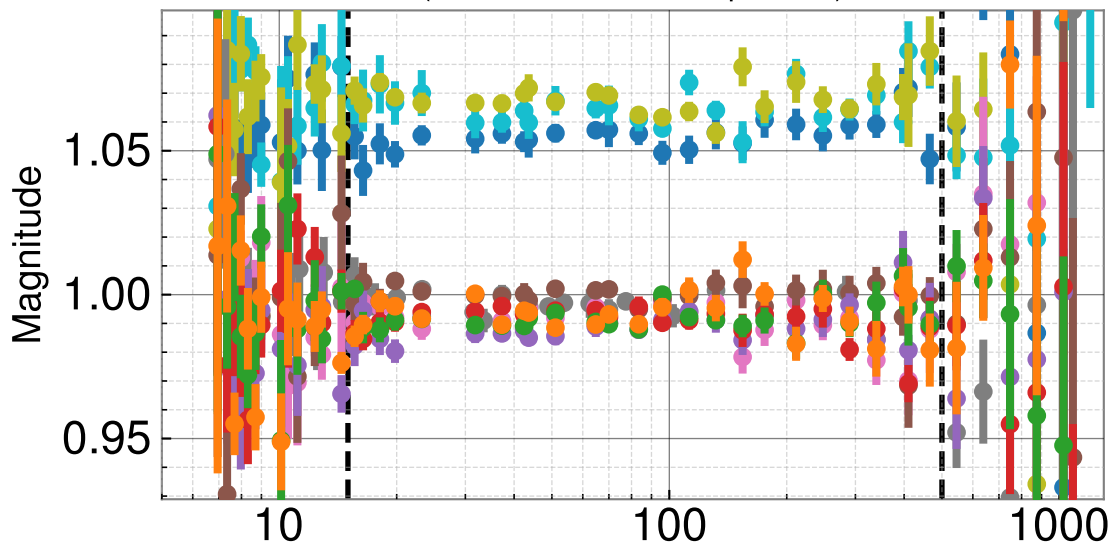
All fixed parameters drawn from /ligo/groups/cal/H1/reports/20250610T035741Z/pydarm_H1.ini



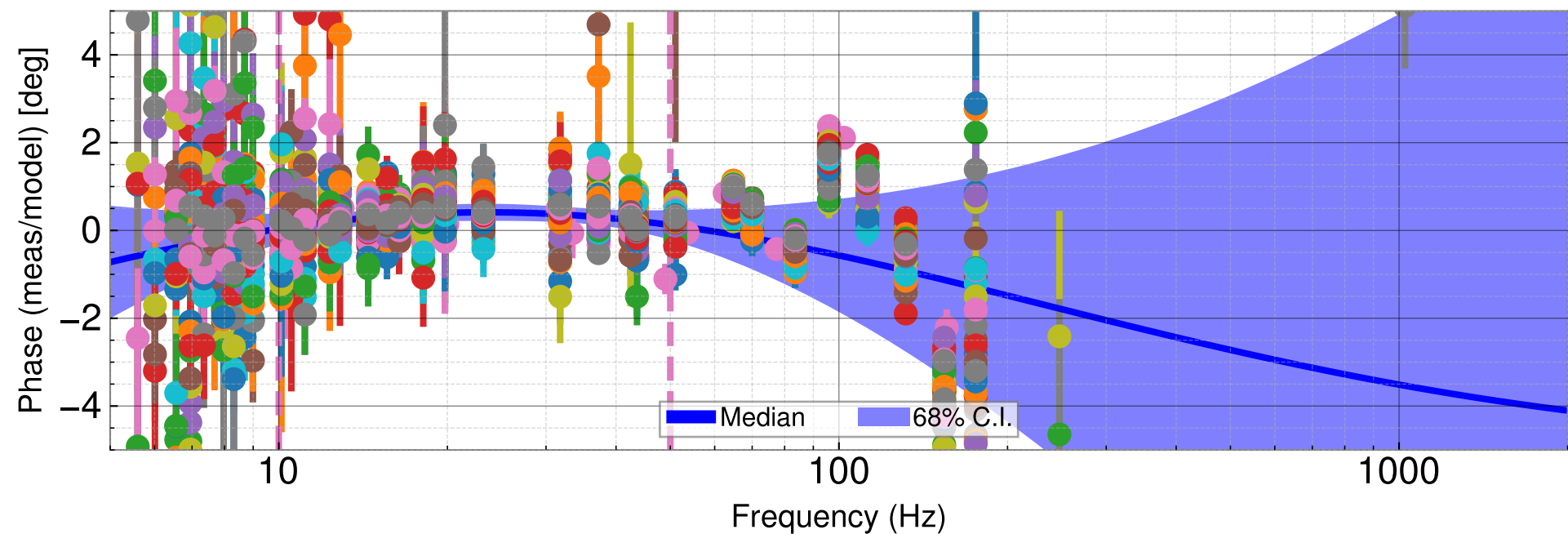
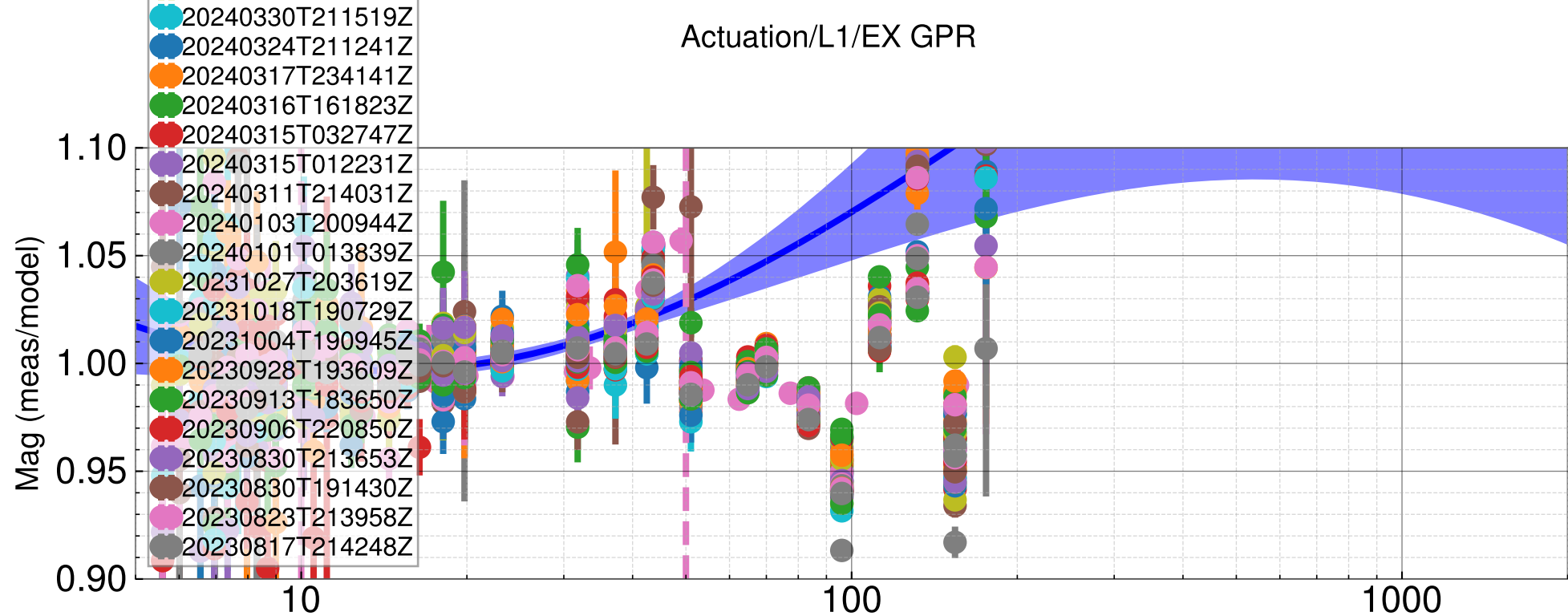
Actuation strength transfer functions
(scaled by H_{ref})



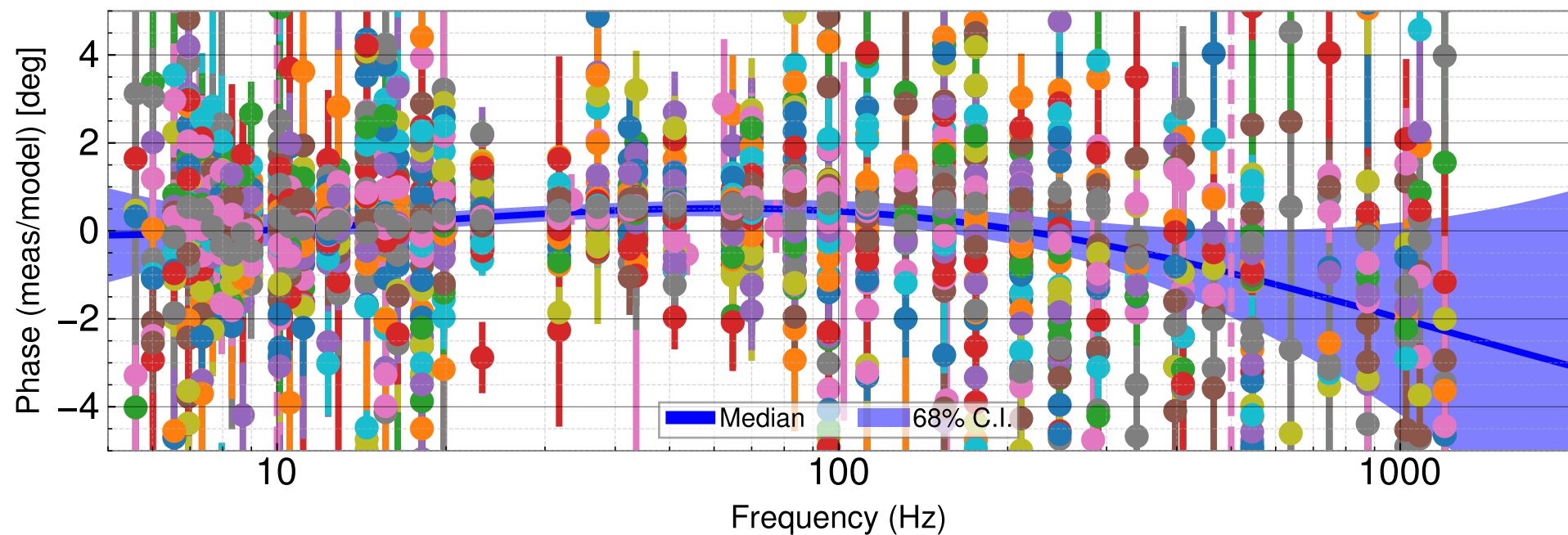
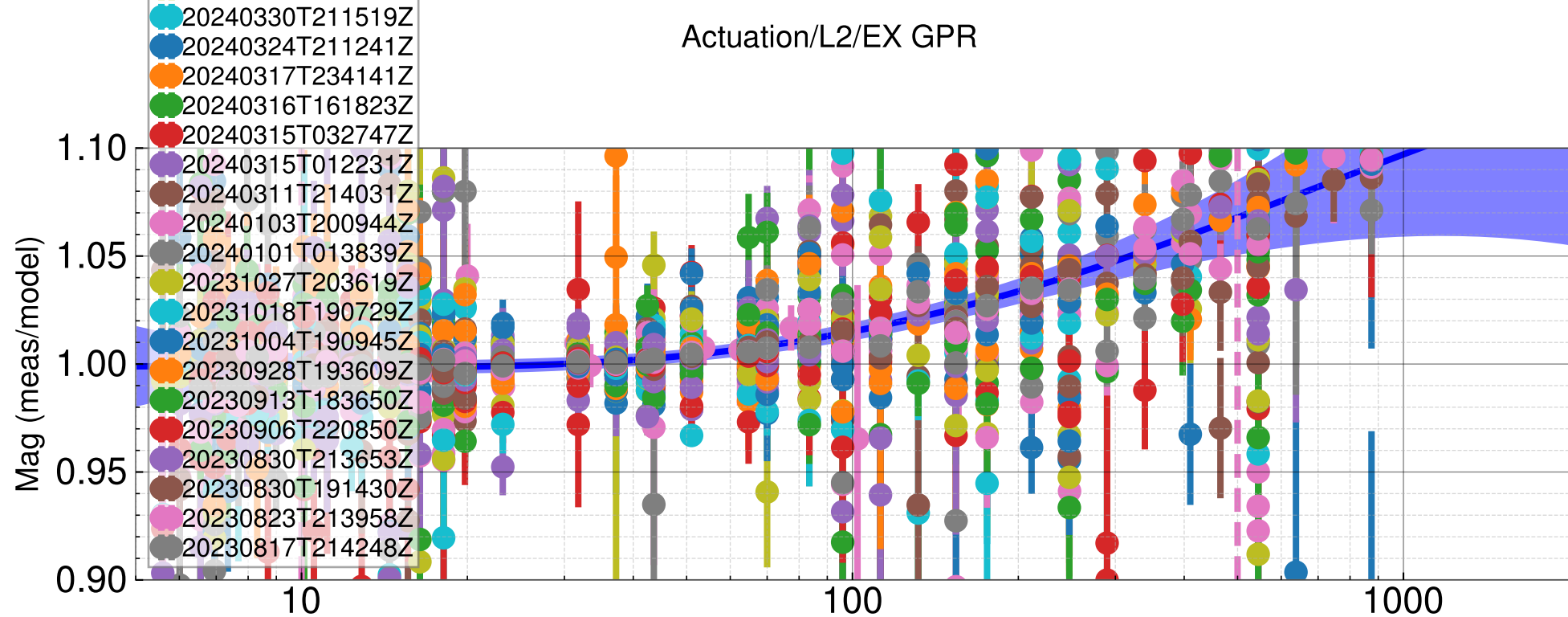
Actuation strength residuals
(meas./model w. free params)



Actuation/L1/EX GPR



Actuation/L2/EX GPR



Actuation/L3/EX GPR

