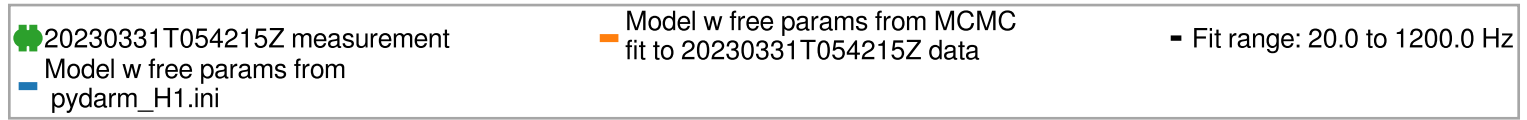
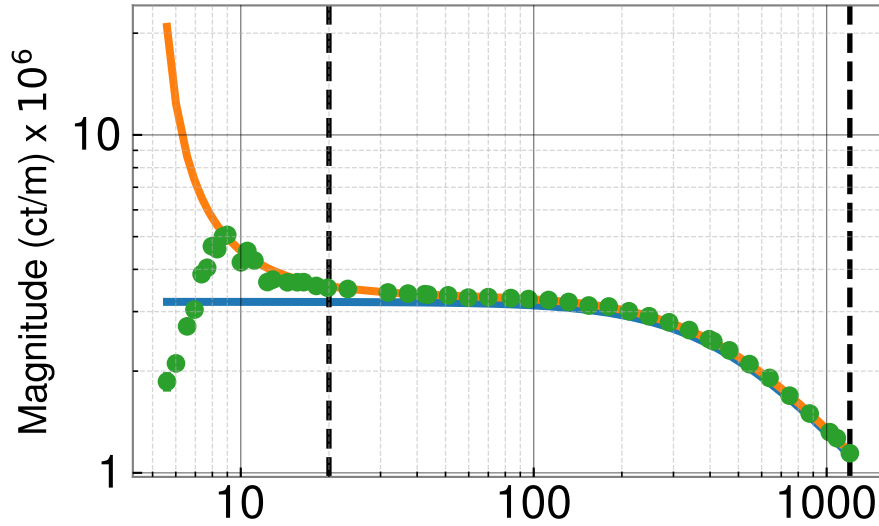


H1 sensing model MCMC summary

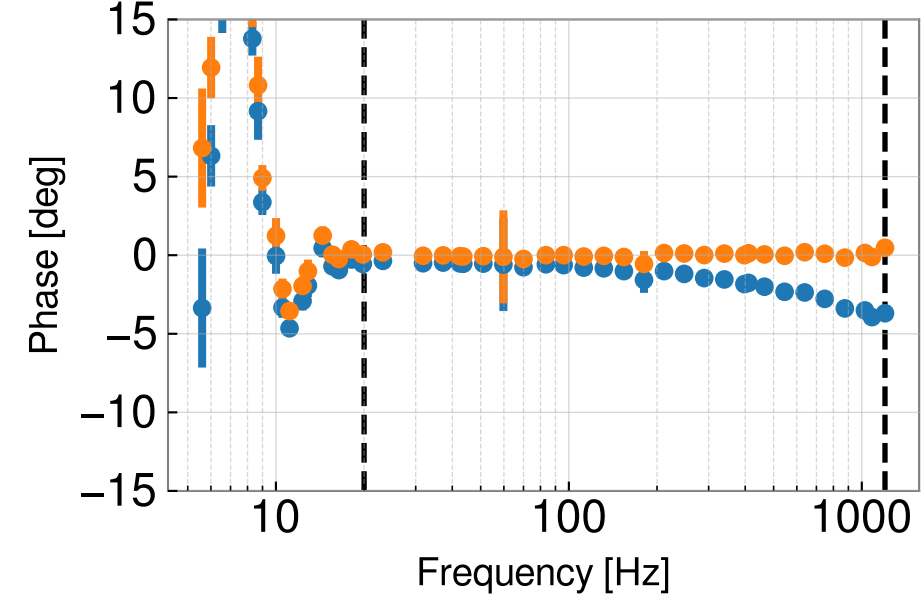
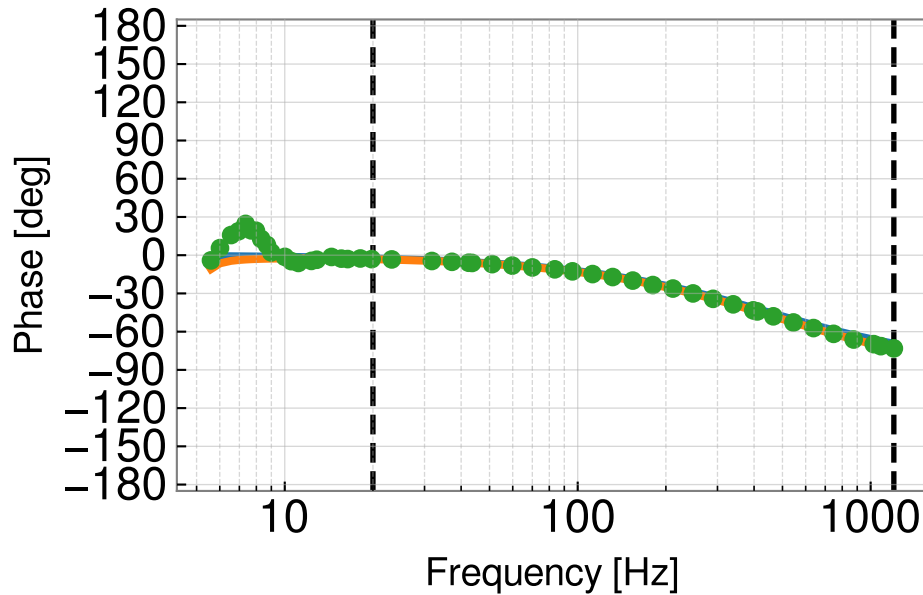
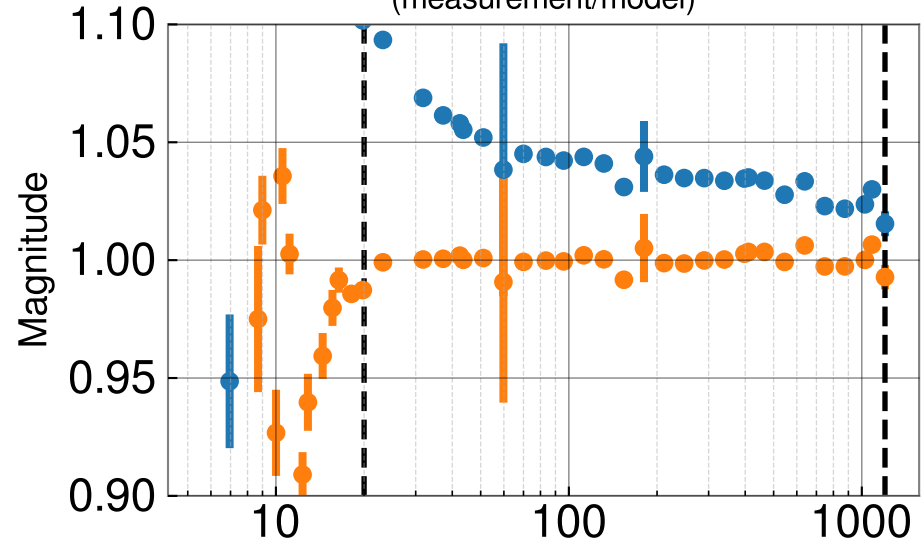
All fixed parameters are drawn from pydarm_H1.ini



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

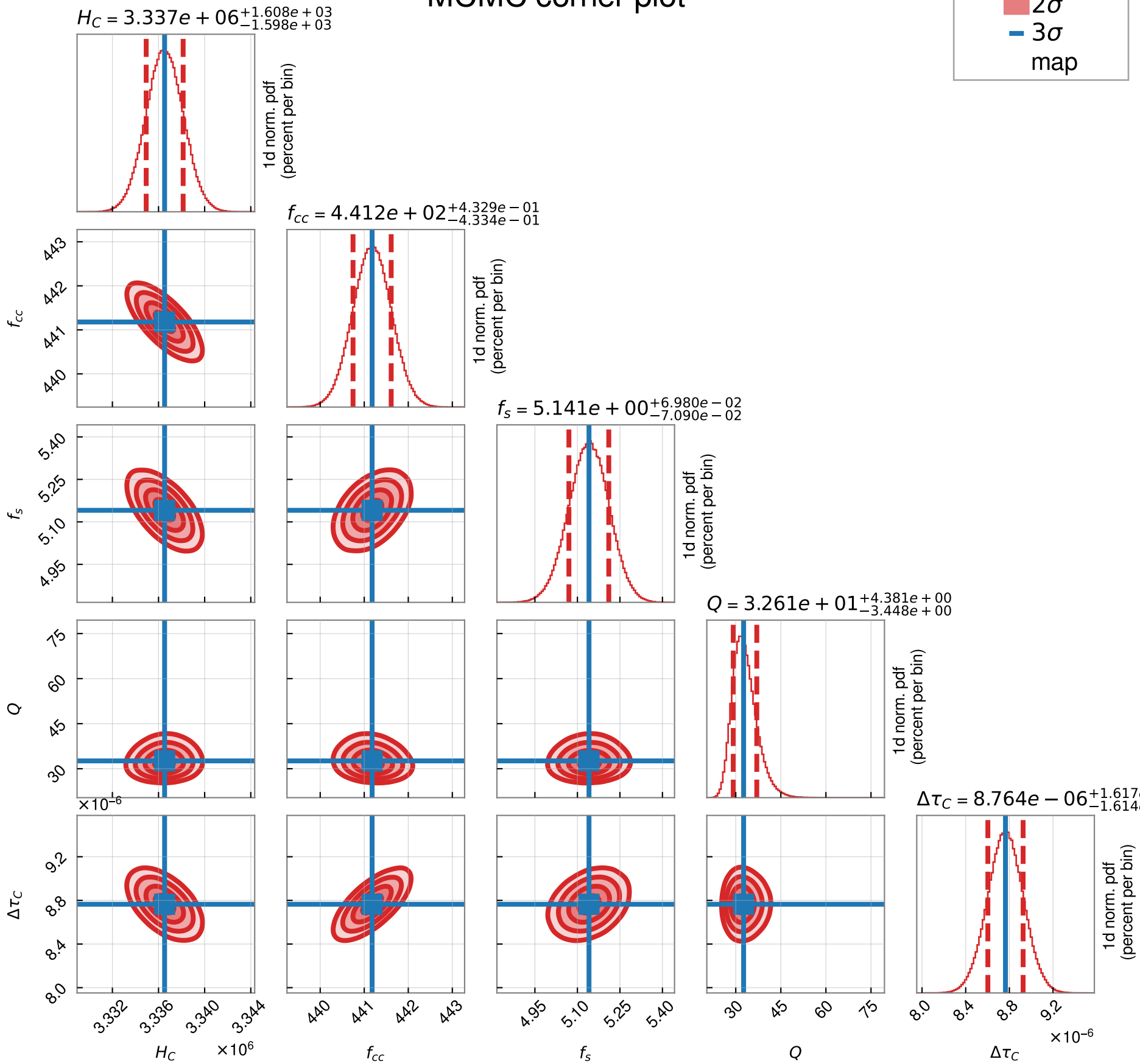
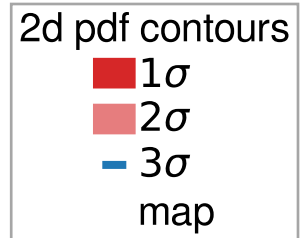


Optical response residuals
(measurement/model)



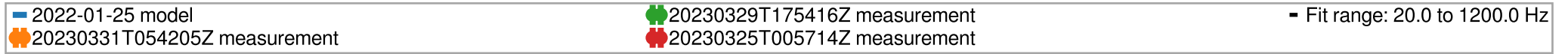
Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.337e+06	1608 (0.05%)	1598 (0.05%)
Cavity_pole, f_{cc} (Hz)	441.2	0.4329 (0.10%)	0.4334 (0.10%)
Detuned SRC spring frequency, f_s (Hz)	5.141	0.0698 (1.36%)	0.0709 (1.38%)
Detuned SRC spring quality factor, Q_s	32.61	4.381 (13.43%)	3.448 (10.57%)
Residual time delay, τ_c (s)	8.764e-06	1.617e-07 (1.85%)	1.614e-07 (1.84%)
κ_c	1.041	0.0005015 (0.05%)	0.0004983 (0.05%)

20230331T054215Z sensing function MCMC corner plot

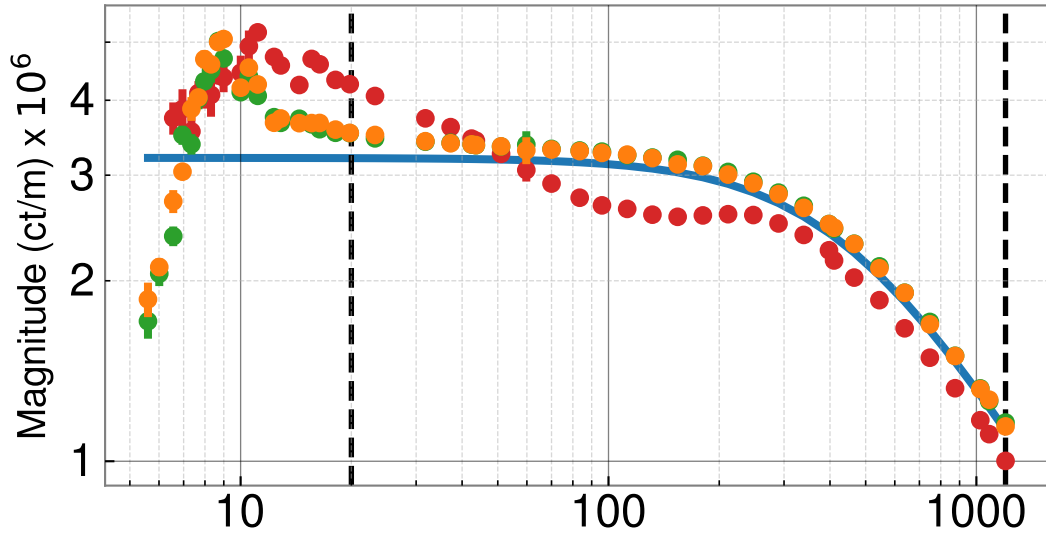


H1 sensing model history

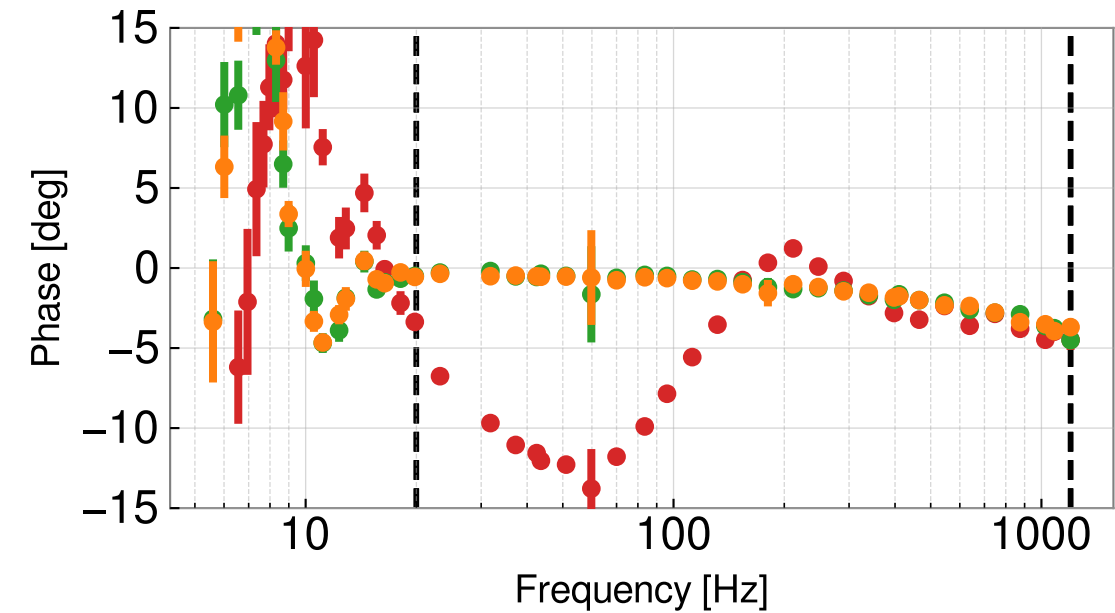
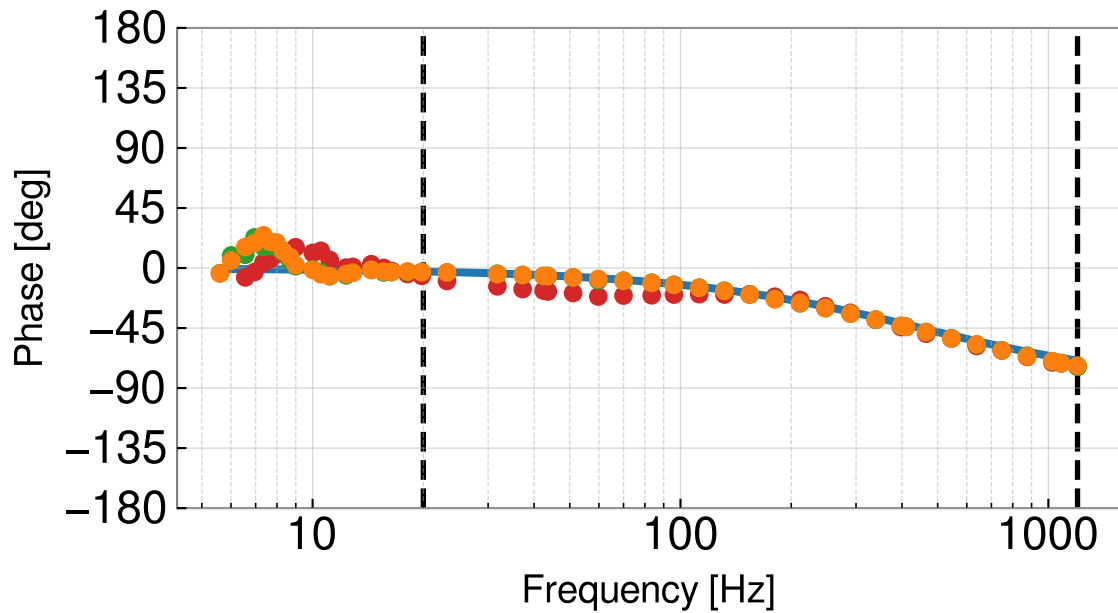
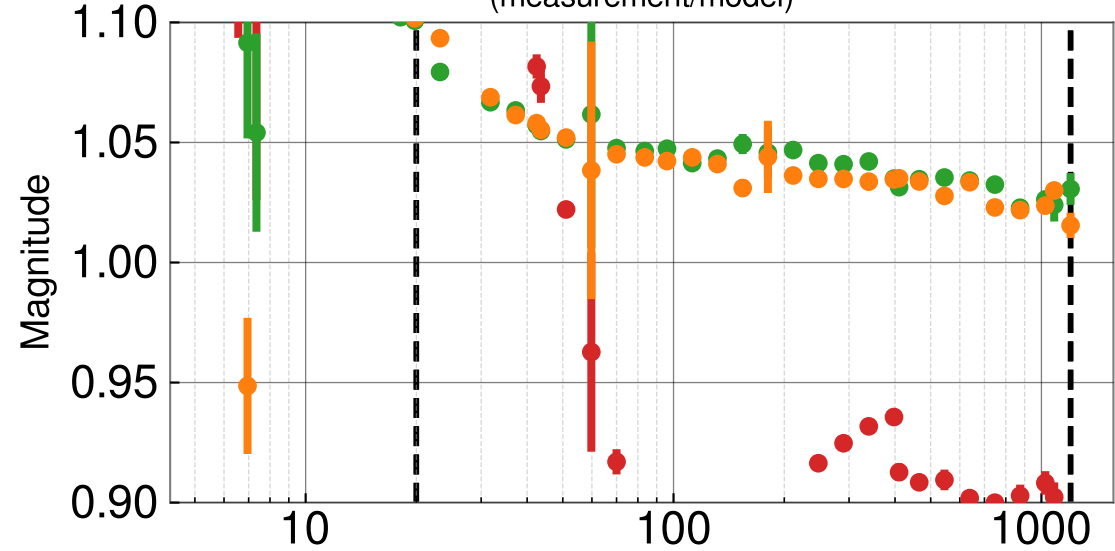
All fixed parameters are drawn from pydarm_H1.ini



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



Optical response residuals
(measurement/model)

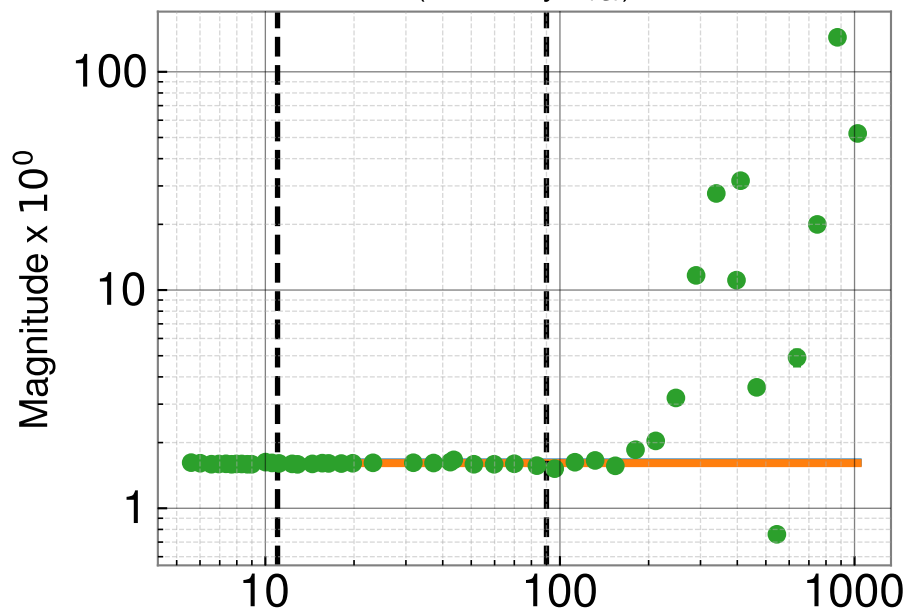


H1SUSEX L1 actuation model MCMC summary

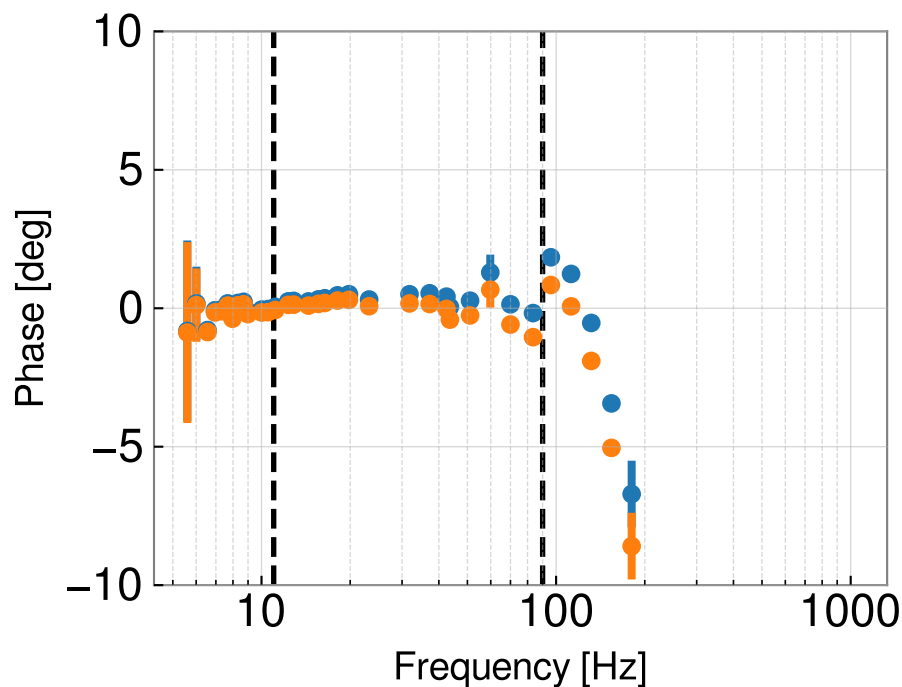
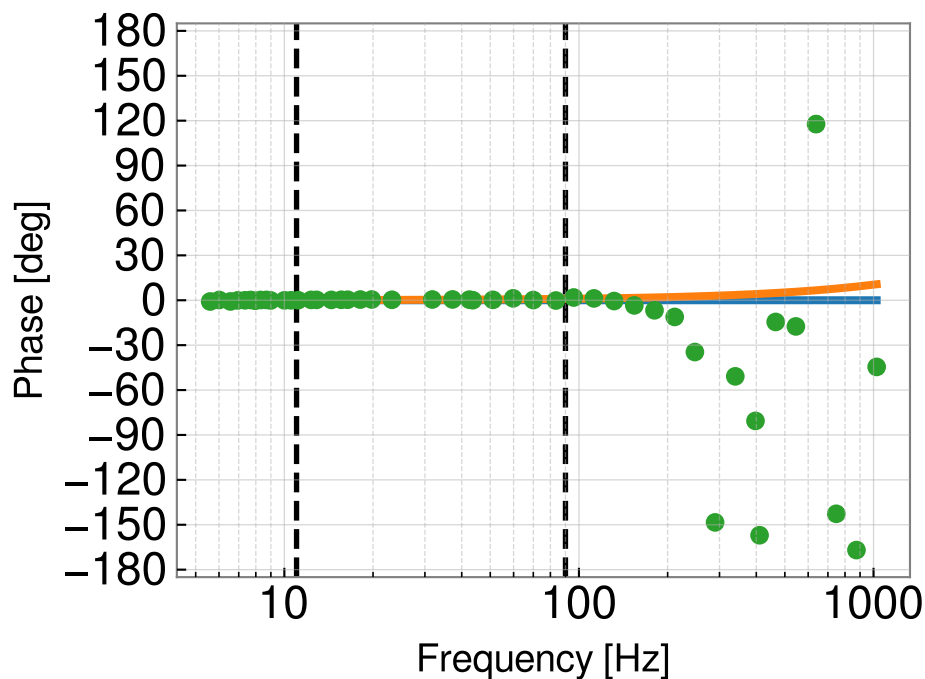
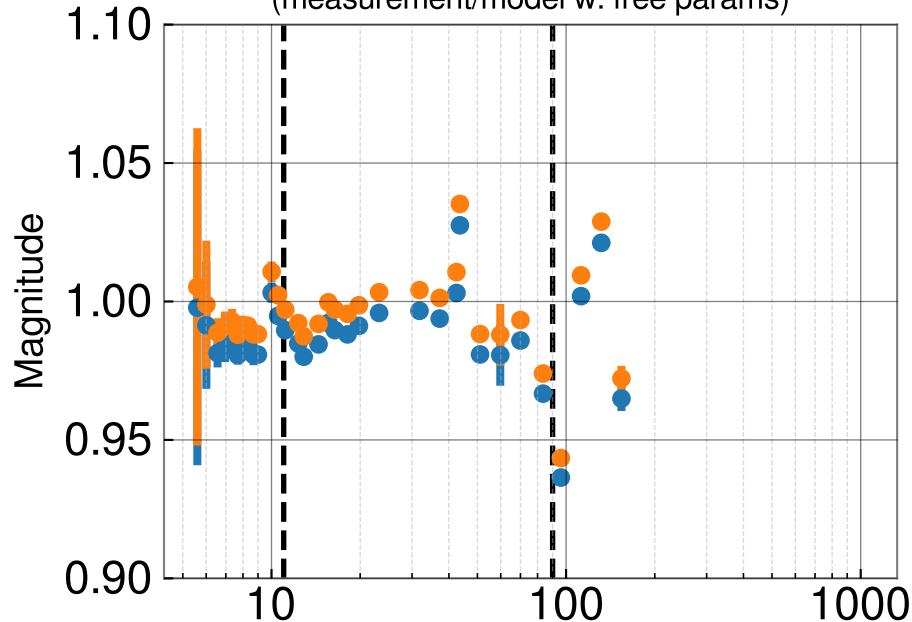
All fixed parameters are drawn from pydarm_H1.ini

— Model w free params from pydarm_H1.ini
 — Model w free params from MCMC fit to 20230331T050712Z data
 - - Fit range 11.0 to 90.0 Hz

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

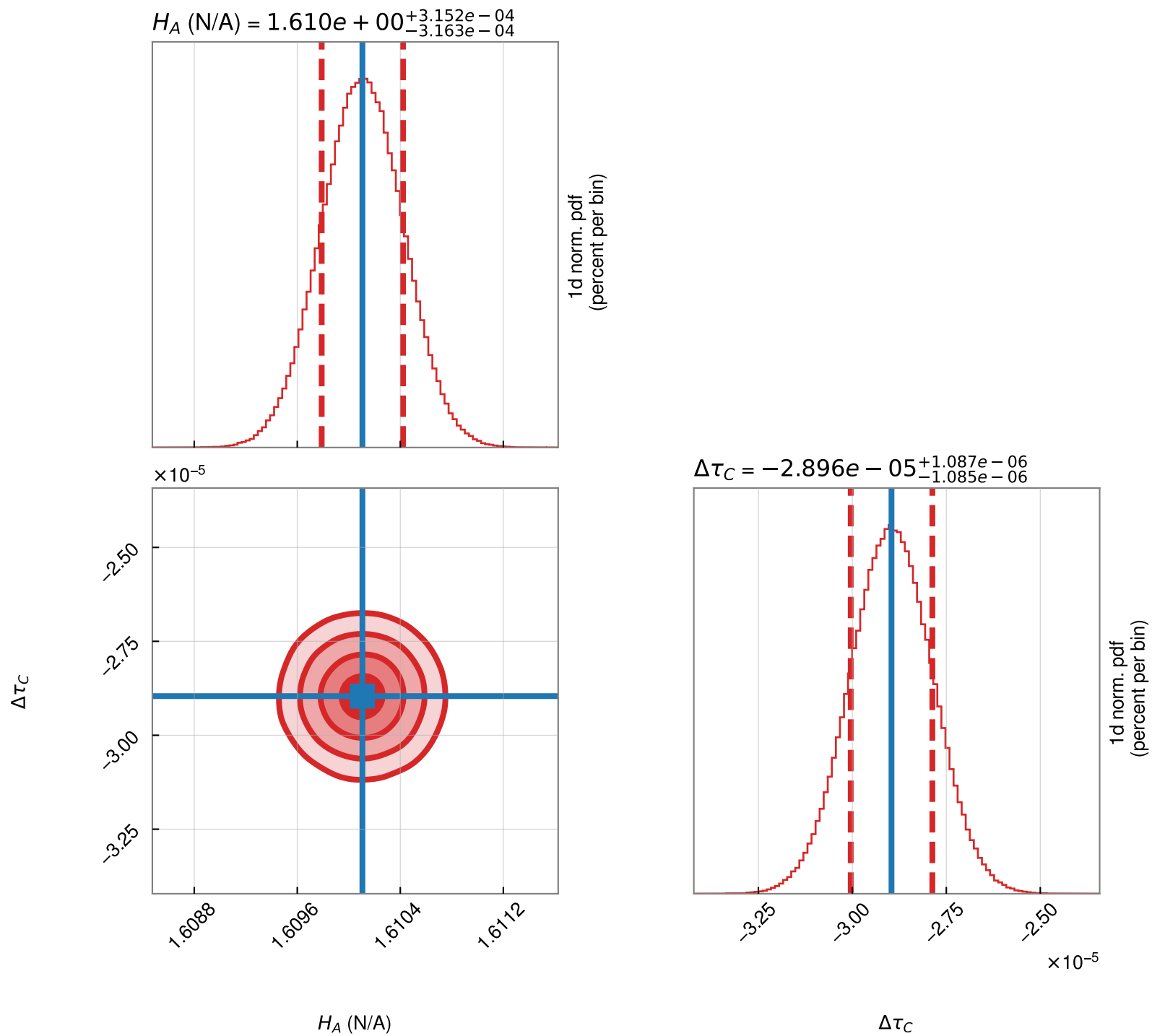
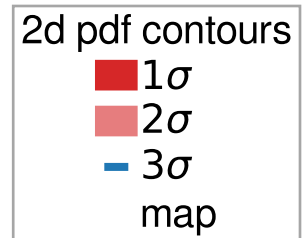


Actuation strength residuals
(measurement/model w. free params)



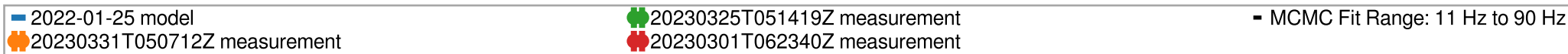
Parameter	(value +/-) value	+	-
Gain, H_A (N/A)	1.61	0.0003152 (0.02%)	0.0003163 (0.02%)
Residual time delay, tau_c (s)	-2.896e-05	1.087e-06 (-3.75%)	1.085e-06 (-3.75%)
Gain, H_A (N/ct)	7.559e-08	1.48e-11 (0.02%)	1.485e-11 (0.02%)

20230331T050712Z L1 actuation function MCMC corner plot

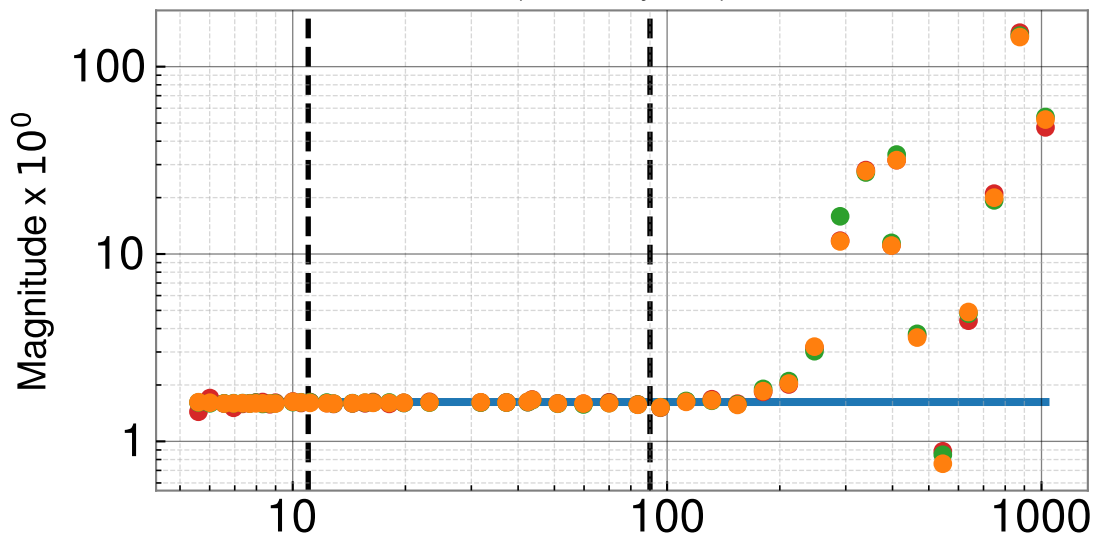


H1 SUSEX L1 actuation model history

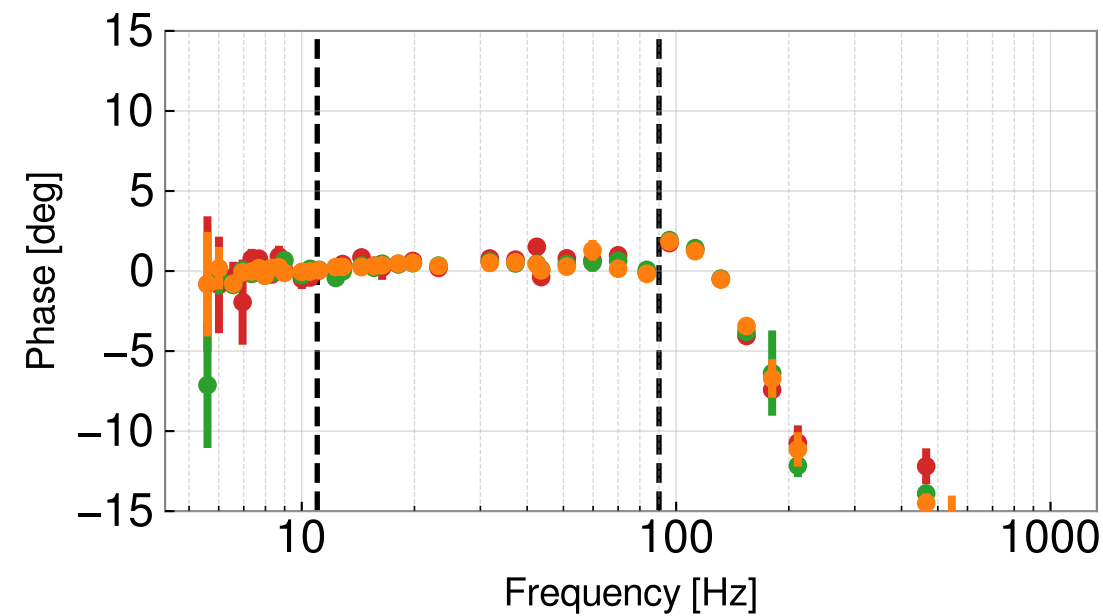
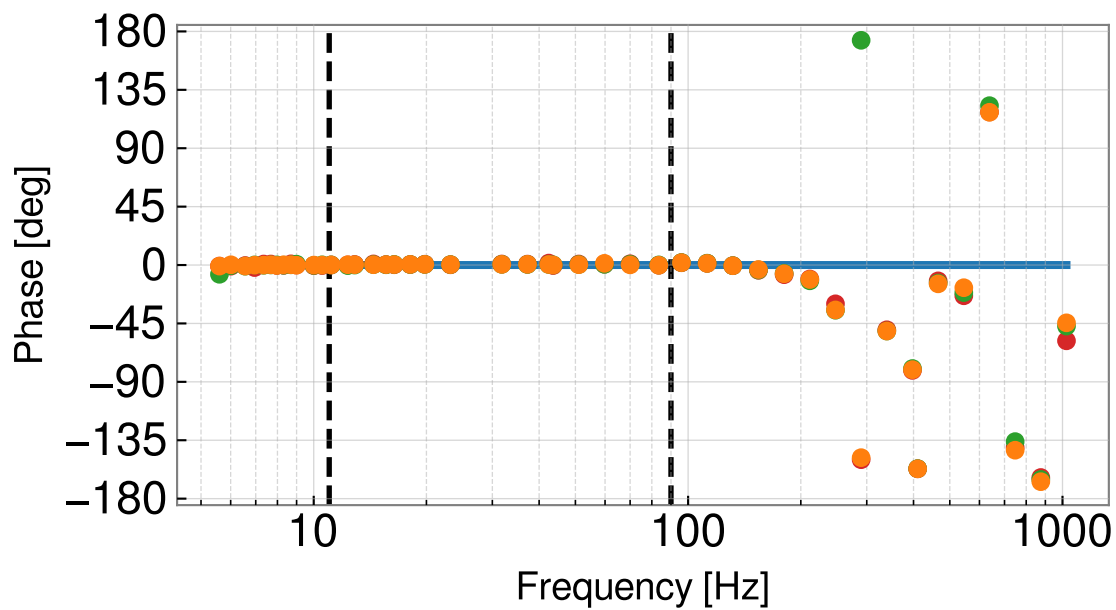
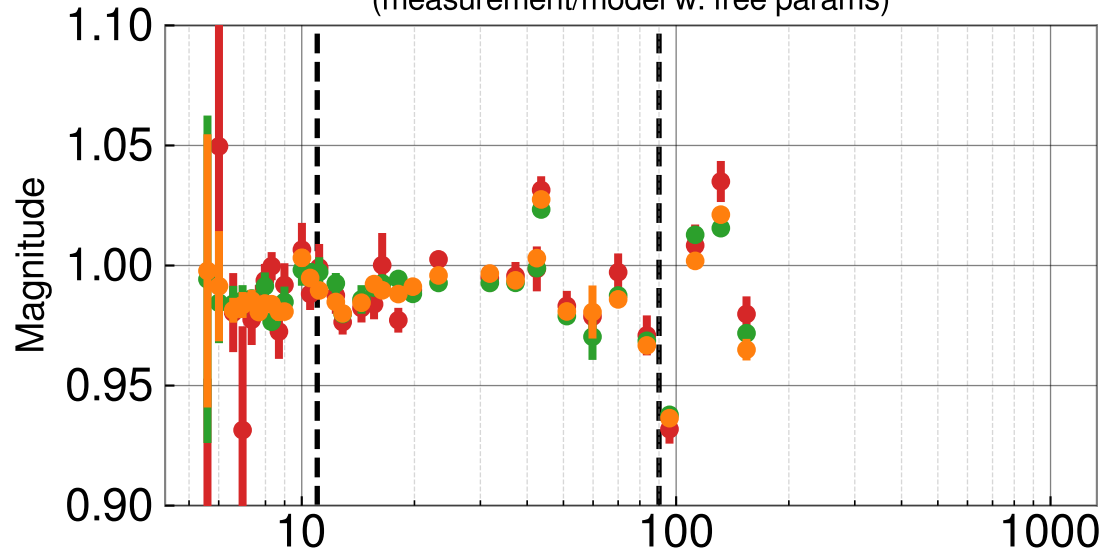
All fixed parameters are drawn from pydarm_H1.ini



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



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

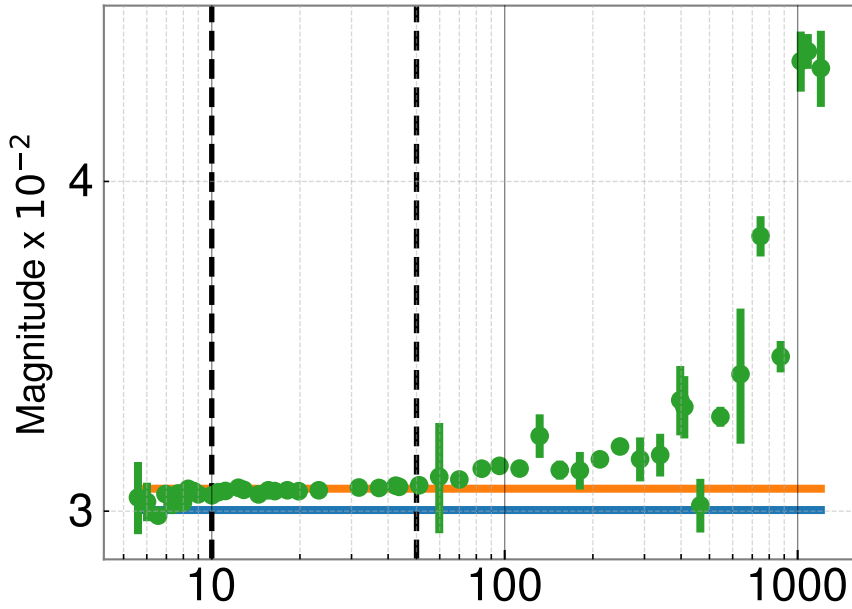


H1SUSEX L2 actuation model MCMC summary

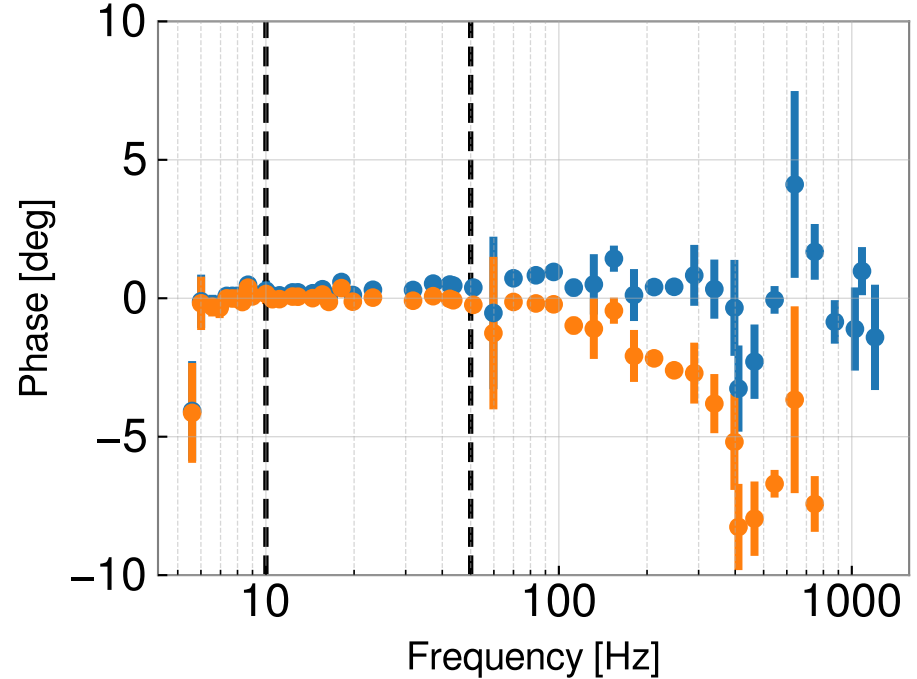
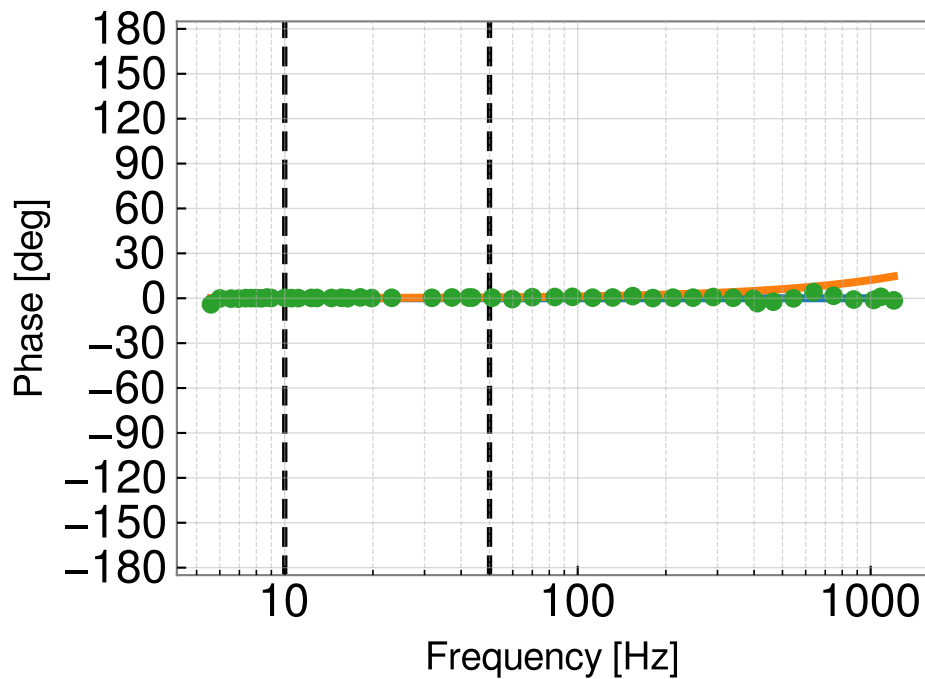
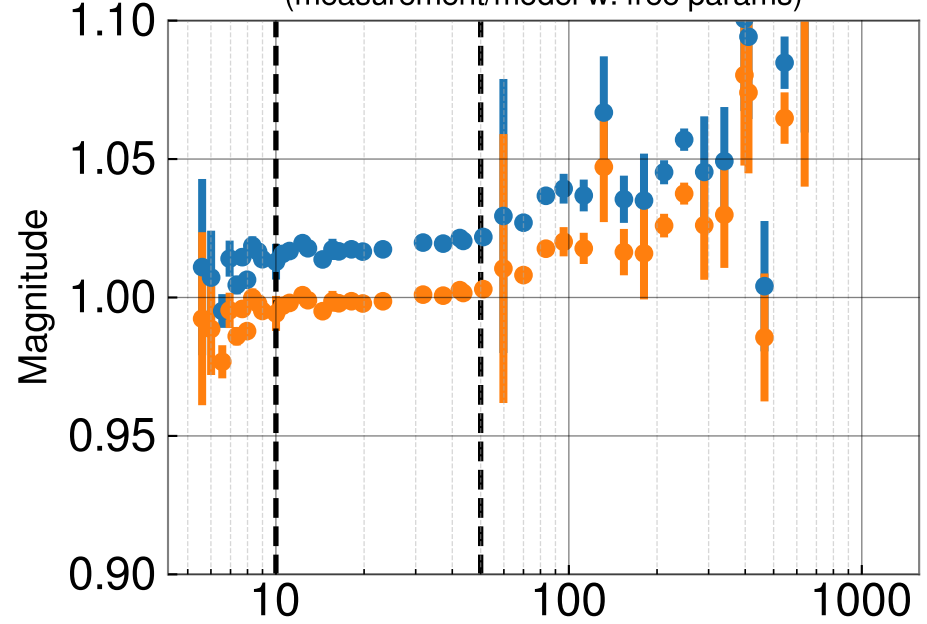
All fixed parameters are drawn from pydarm_H1.ini

— Model w free params from pydarm_H1.ini
 — Model w free params from MCMC fit to 20230331T043240Z data
 - Fit range 10.0 to 50.0 Hz

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

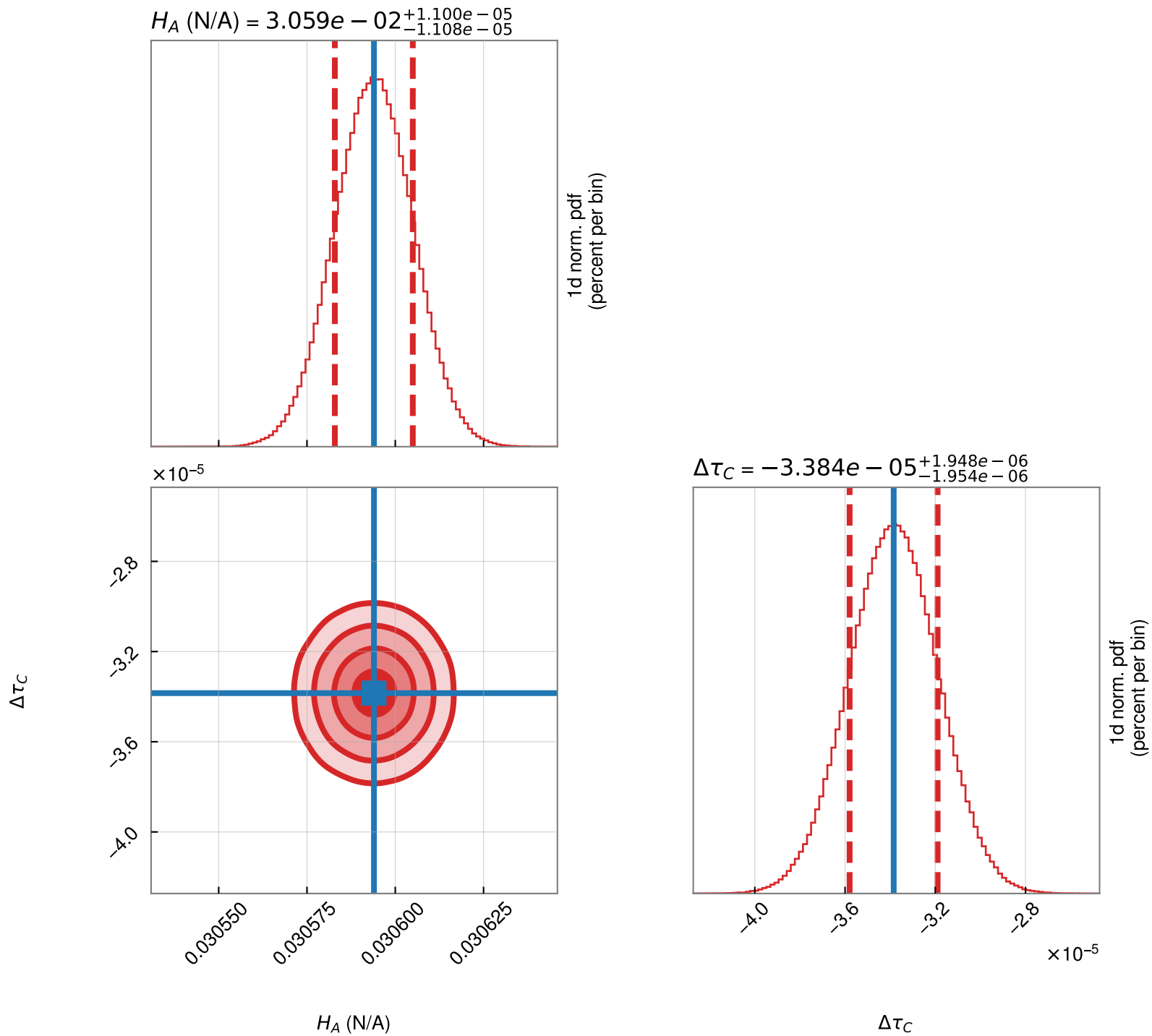
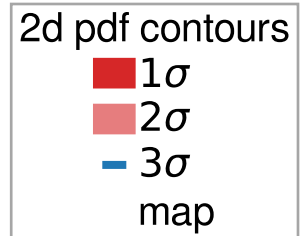


Actuation strength residuals
(measurement/model w. free params)



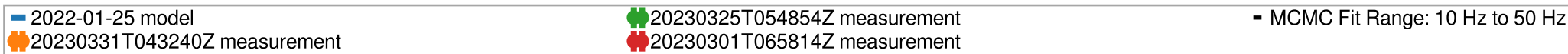
Parameter	(value +/-) value	+	-
Gain, H_A (N/A)	0.03059	1.1e-05 (0.04%)	1.108e-05 (0.04%)
Residual time delay, tau_c (s)	-3.384e-05	1.948e-06 (-5.75%)	1.954e-06 (-5.77%)
Gain, H_A (N/ct)	6.266e-10	2.253e-13 (0.04%)	2.269e-13 (0.04%)

20230331T043240Z L2 actuation function MCMC corner plot

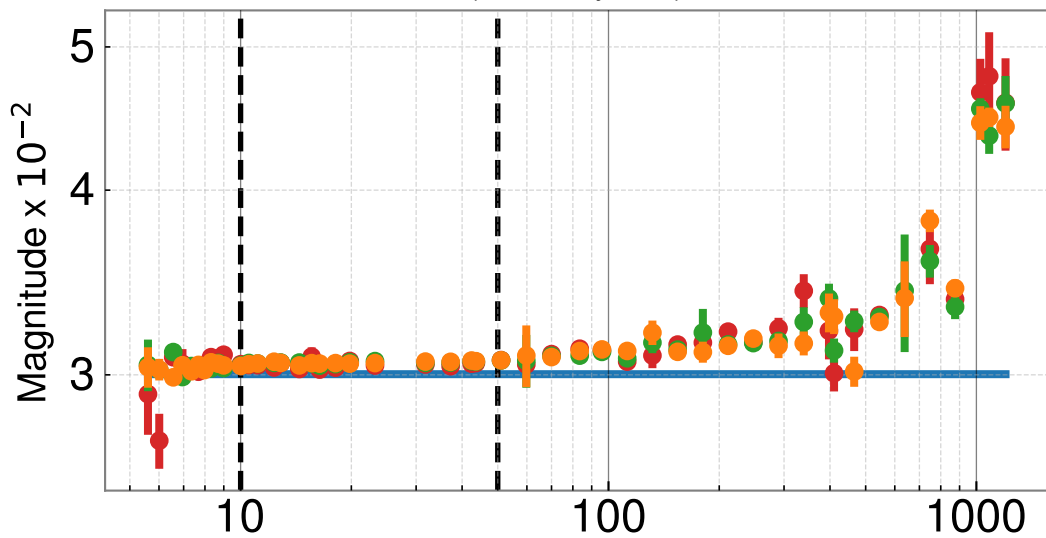


H1 SUSEX L2 actuation model history

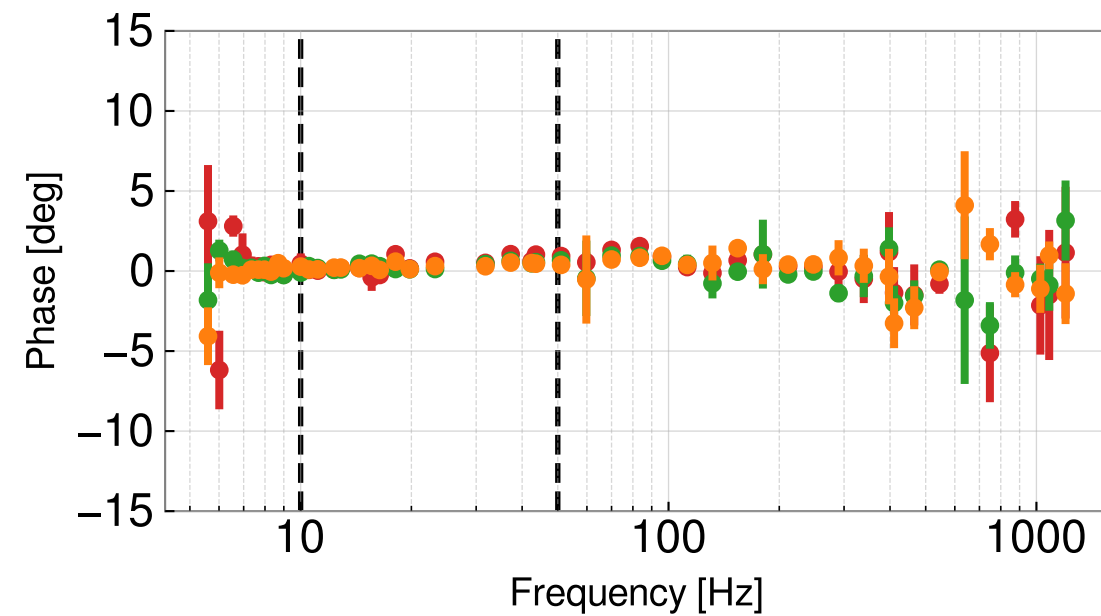
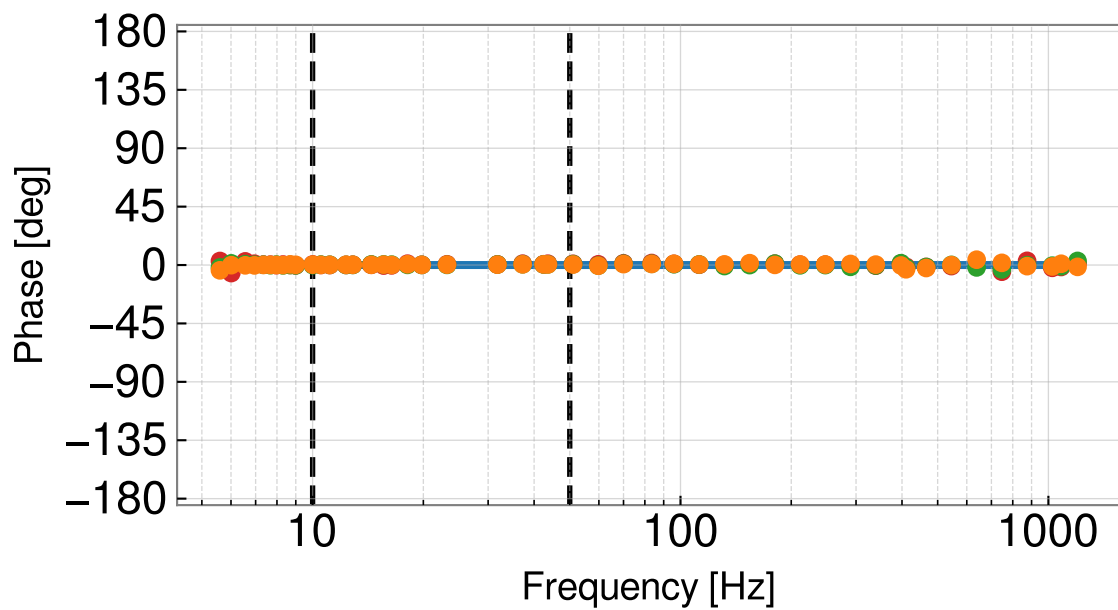
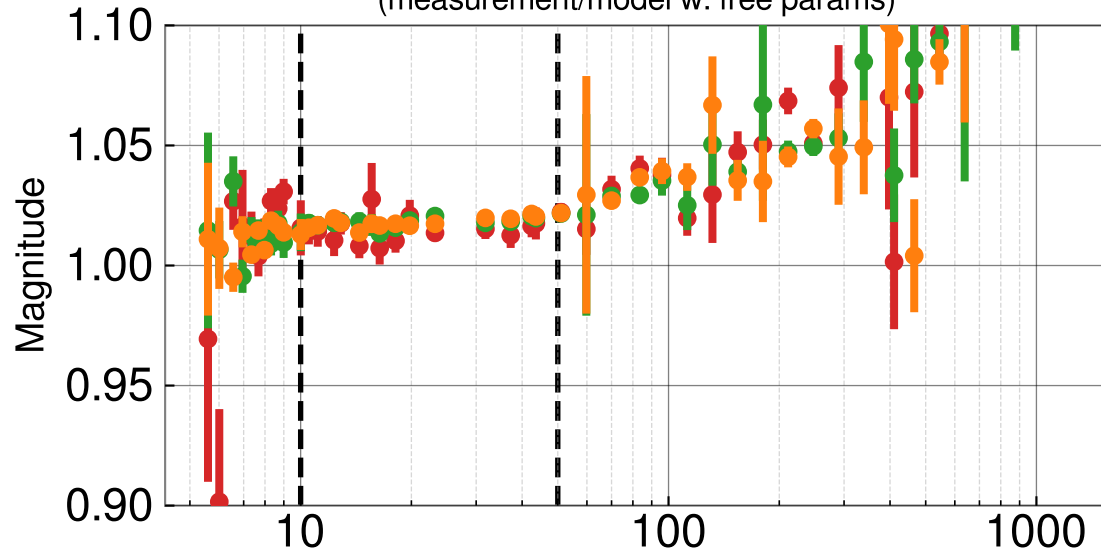
All fixed parameters are drawn from pydarm_H1.ini



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



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

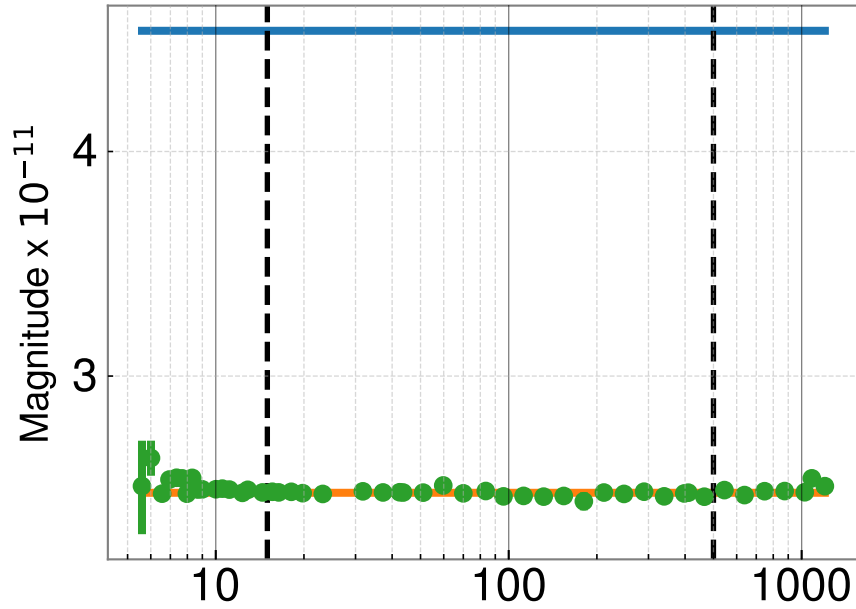


H1SUSEX L3 actuation model MCMC summary

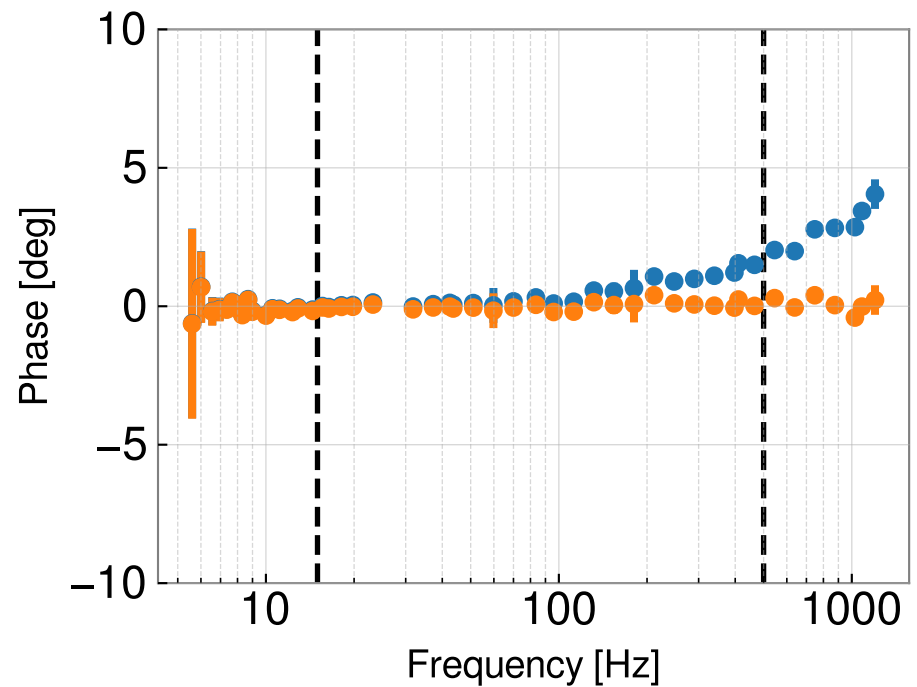
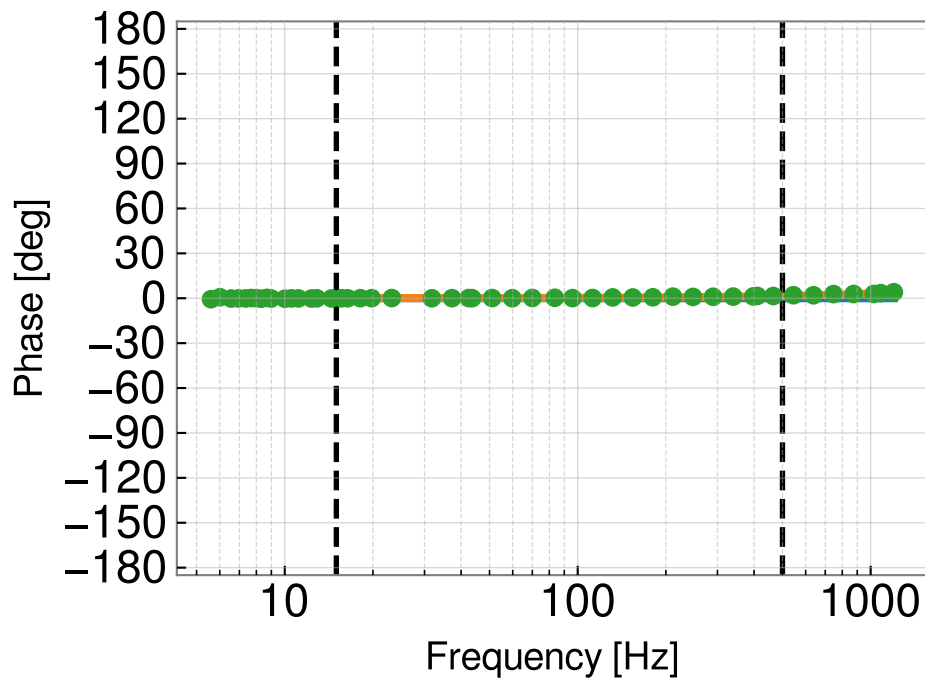
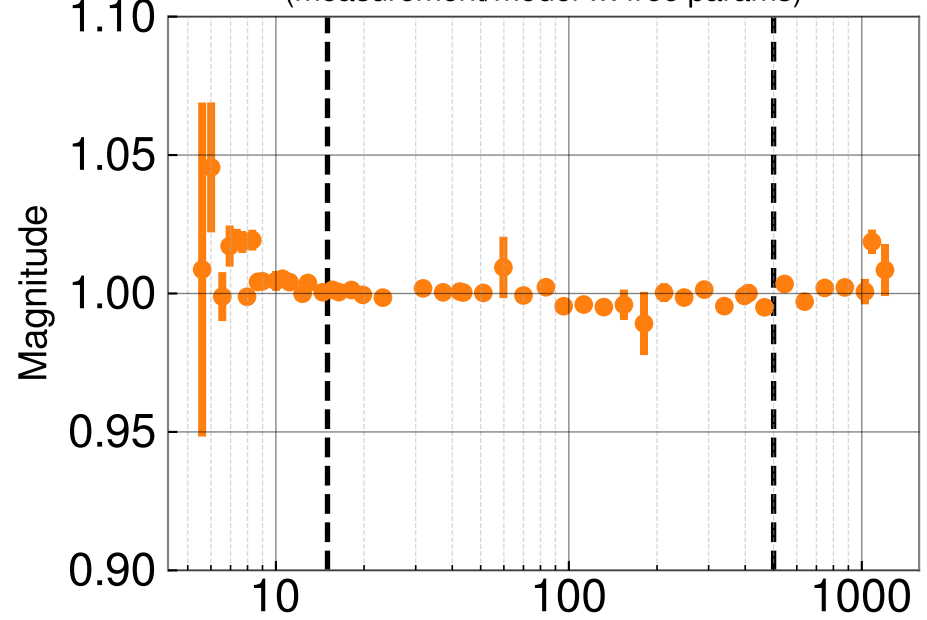
All fixed parameters are drawn from pydarm_H1.ini

— Model w free params from pydarm_H1.ini
 — Model w free params from MCMC fit to 20230331T041523Z data
 - Fit range 15.0 to 500.0 Hz

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

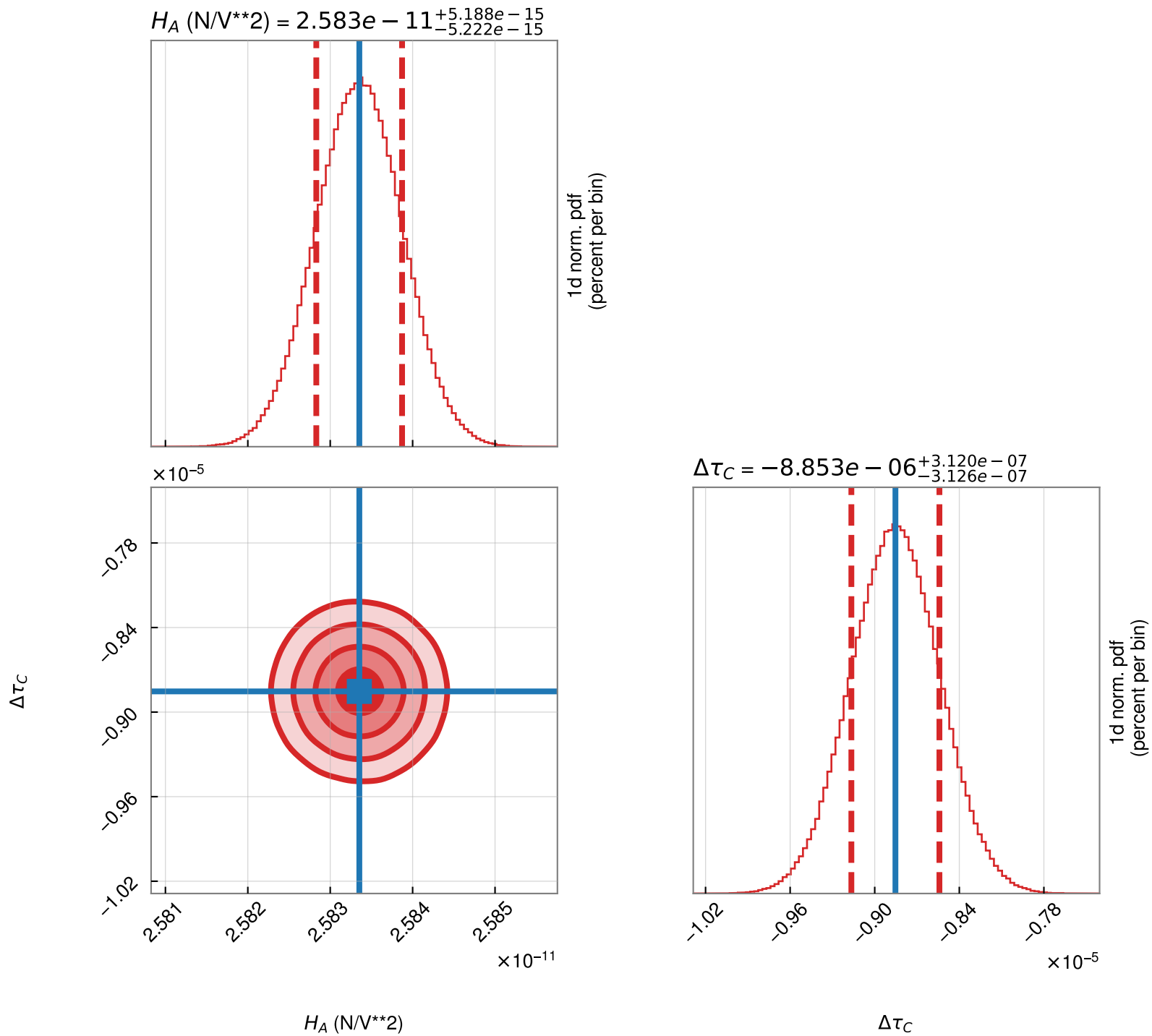
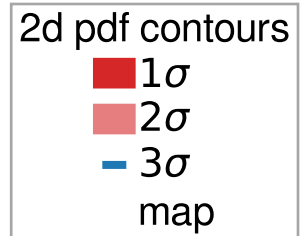


Actuation strength residuals
(measurement/model w. free params)



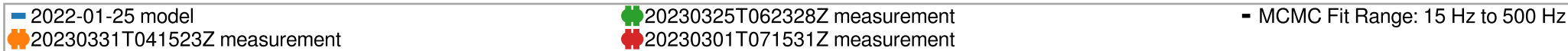
Parameter	(value +/-) value	+	-
Gain, H_A (N/V**2)	2.583e-11	5.188e-15 (0.02%)	5.222e-15 (0.02%)
Residual time delay, tau_c (s)	-8.853e-06	3.12e-07 (-3.52%)	3.126e-07 (-3.53%)
Gain, H_A (N/ct)	9.787e-13	1.966e-16 (0.02%)	1.978e-16 (0.02%)

20230331T041523Z L3 actuation function MCMC corner plot

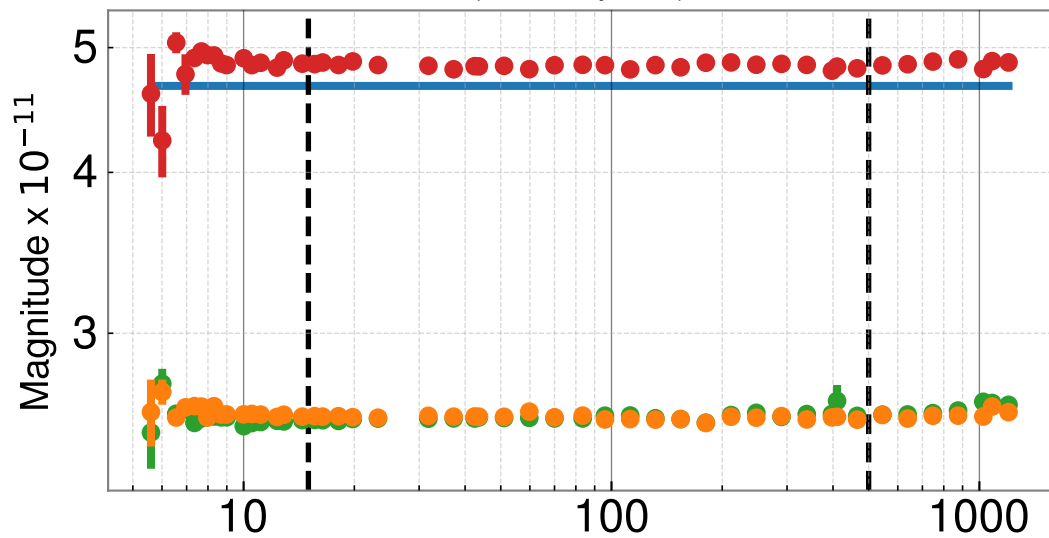


H1 SUSEX L3 actuation model history

All fixed parameters are drawn from pydarm_H1.ini



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



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

