

Sea detuning sweep report (Ga sea / Al rare)

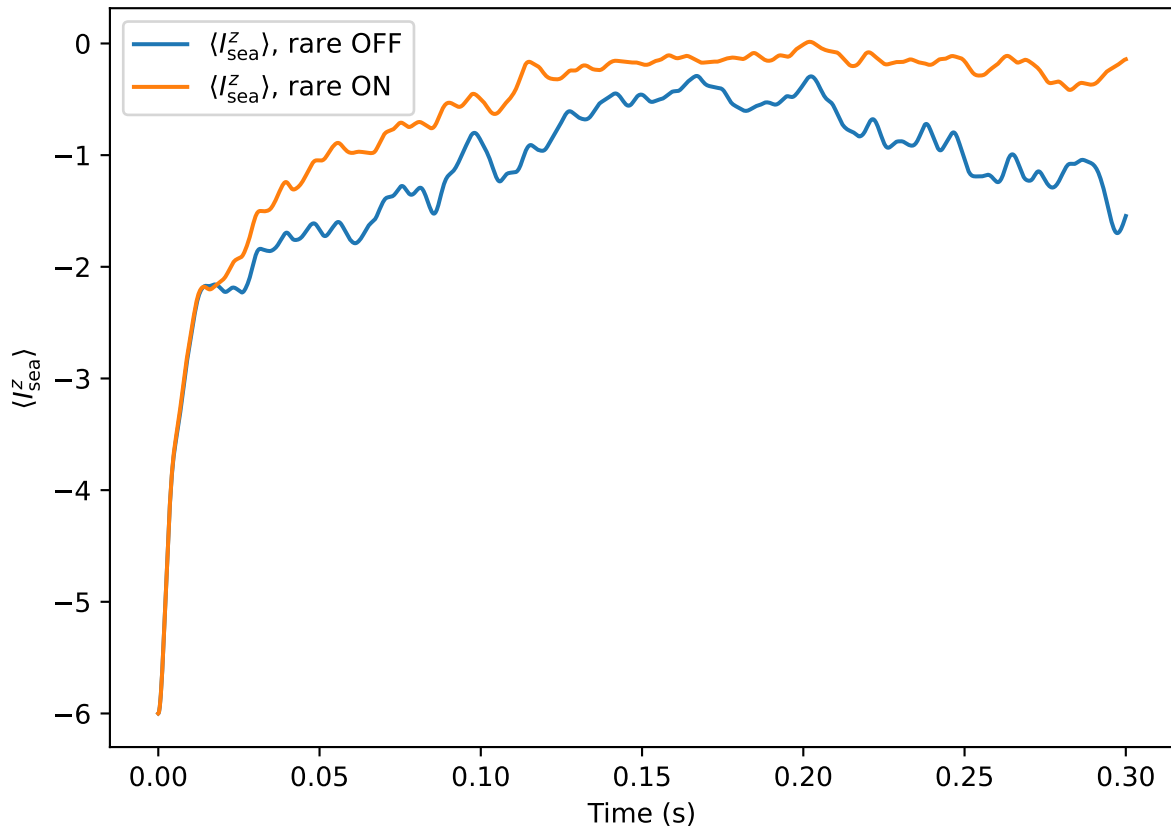
Global parameters (constant across sweep):

f_Az (sea Larmor)	= 34.062 MHz
f_Rz (rare Larmor)	= 33.308 MHz
f1A (sea Rabi)	= 0.020 kHz
f1R (rare Rabi)	= 0.010 kHz
gamma_sea	= 7.134e+07 rad·s ⁻¹ ·T ⁻¹
gamma_rare	= 6.976e+07 rad·s ⁻¹ ·T ⁻¹
B0_common	= 3.000 T
B1_sea	= 1.761e-06 T
B1_rare	= 9.007e-07 T
dipolar_scale_SI	= 1.055e-41
shell_scale	= 0.300 nm
t_final	= 3.000e-01 s
steps	= 20000
n_sea	= 12
phi_sea	= 1.571 rad
phi_rare	= 1.571 rad

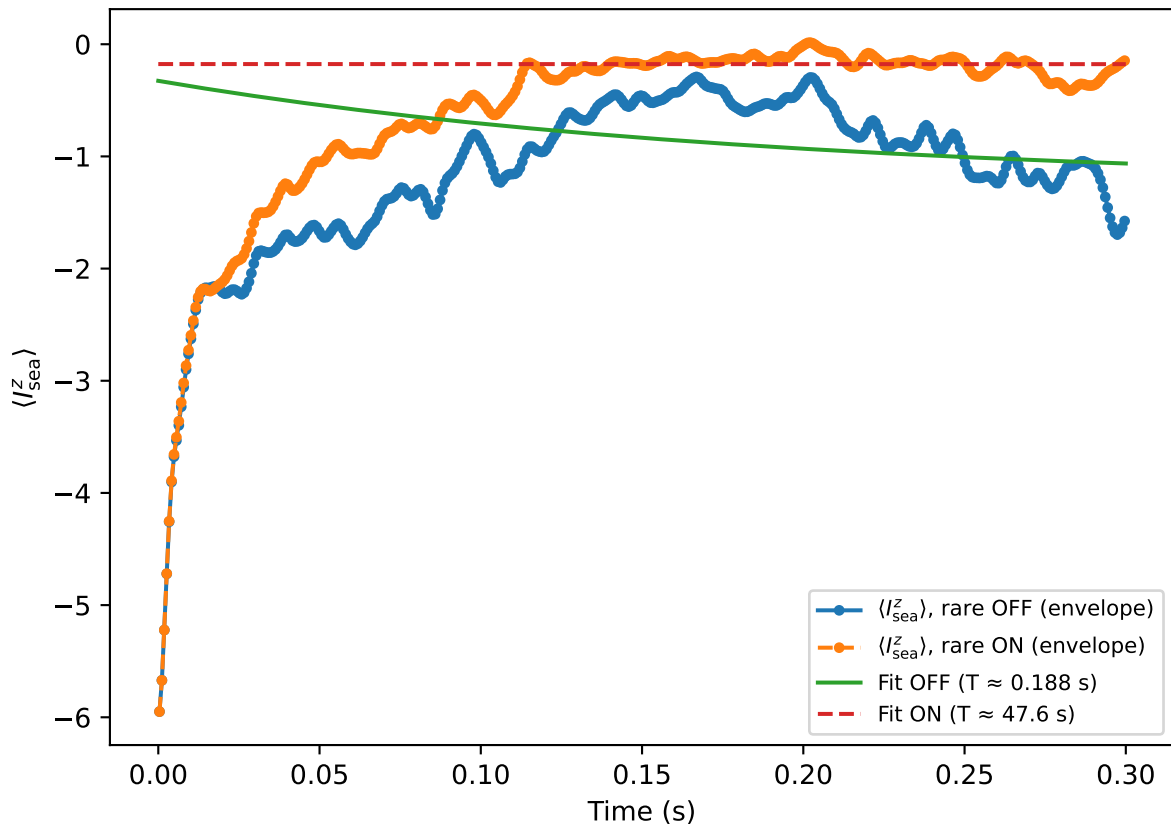
Sea detunings ($\delta_A = f_{Az} - f_{rf,A}$) in Hz:

+0.0, +125.0, +250.0, +375.0, +500.0, +625.0, +750.0, +875.0, +1000.0

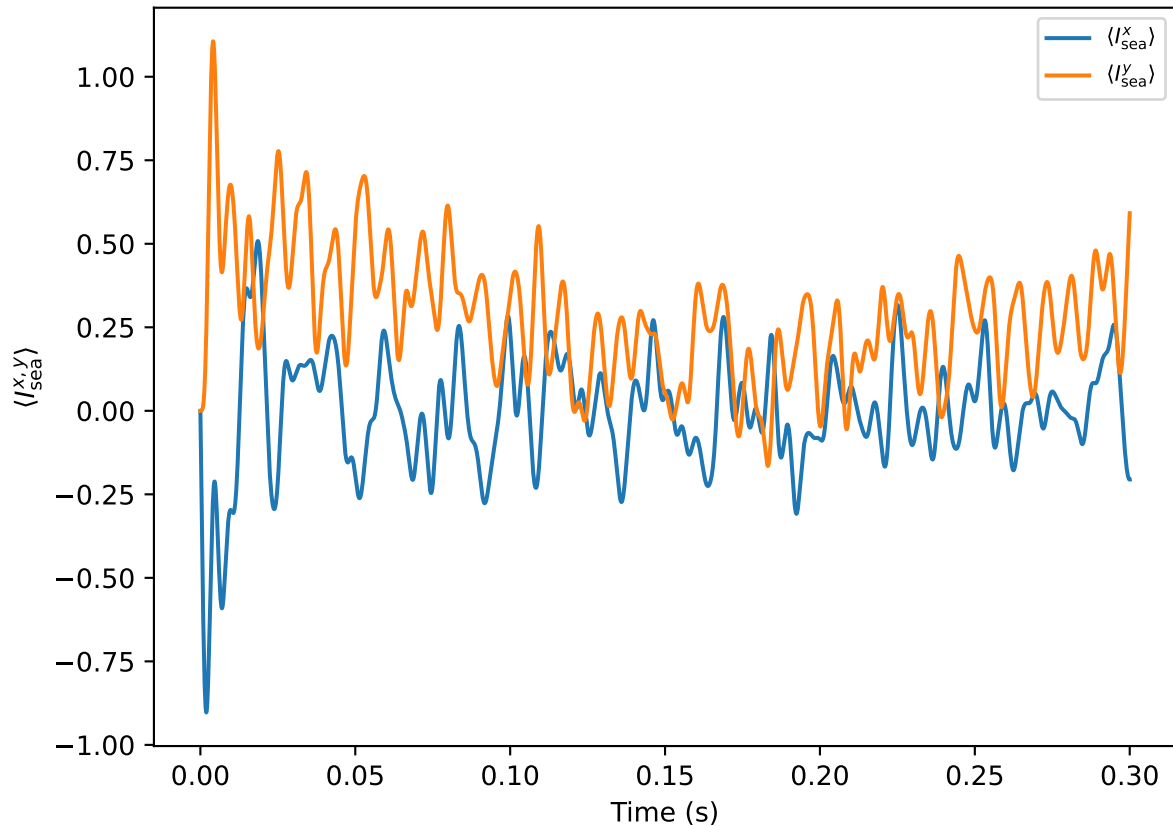
$\delta_A = +0.0$ Hz



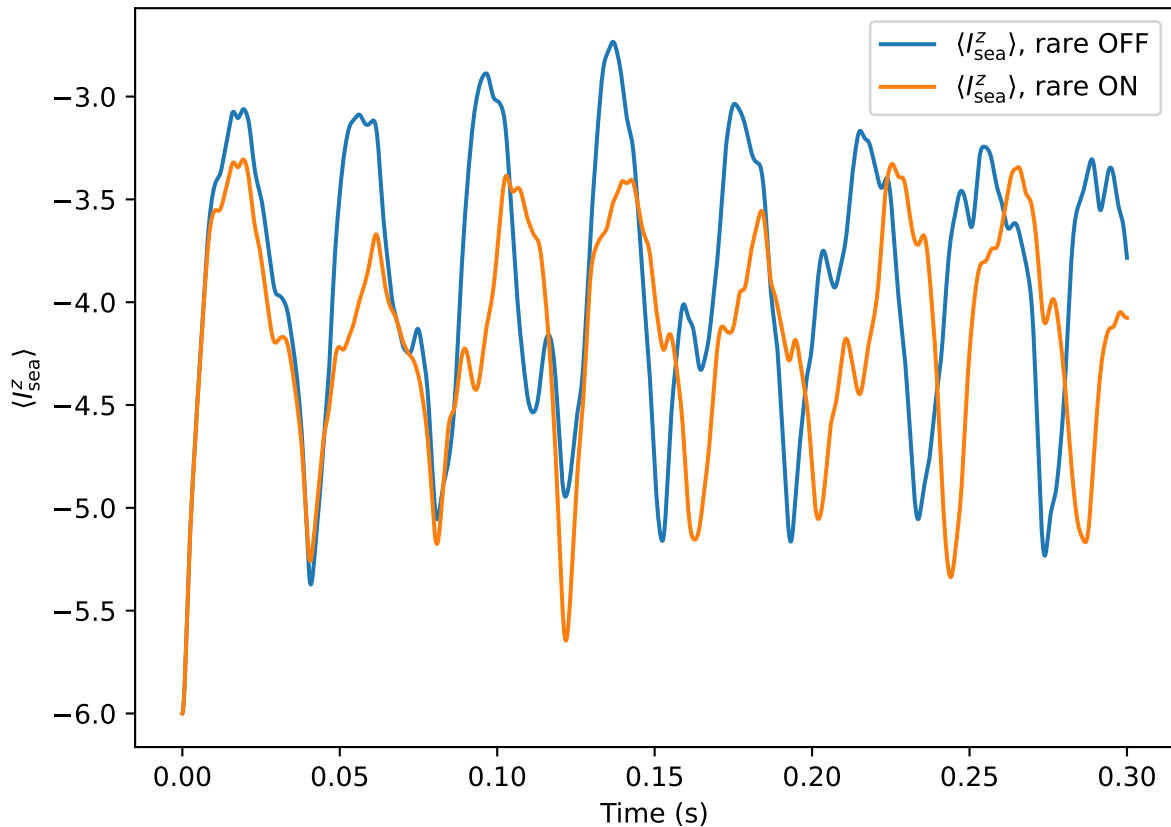
$\delta_A = +0.0$ Hz (pseudo T_1 envelope)



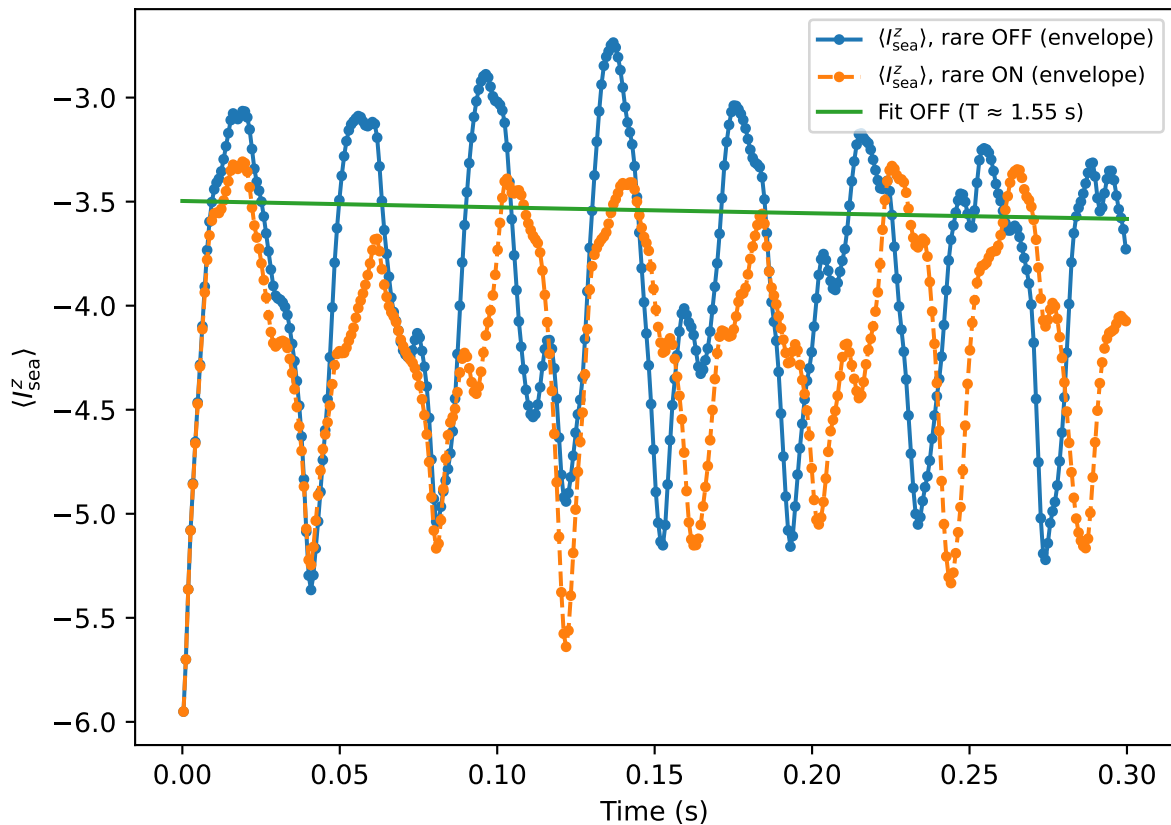
$\delta_A = +0.0$ Hz (rare drive OFF)



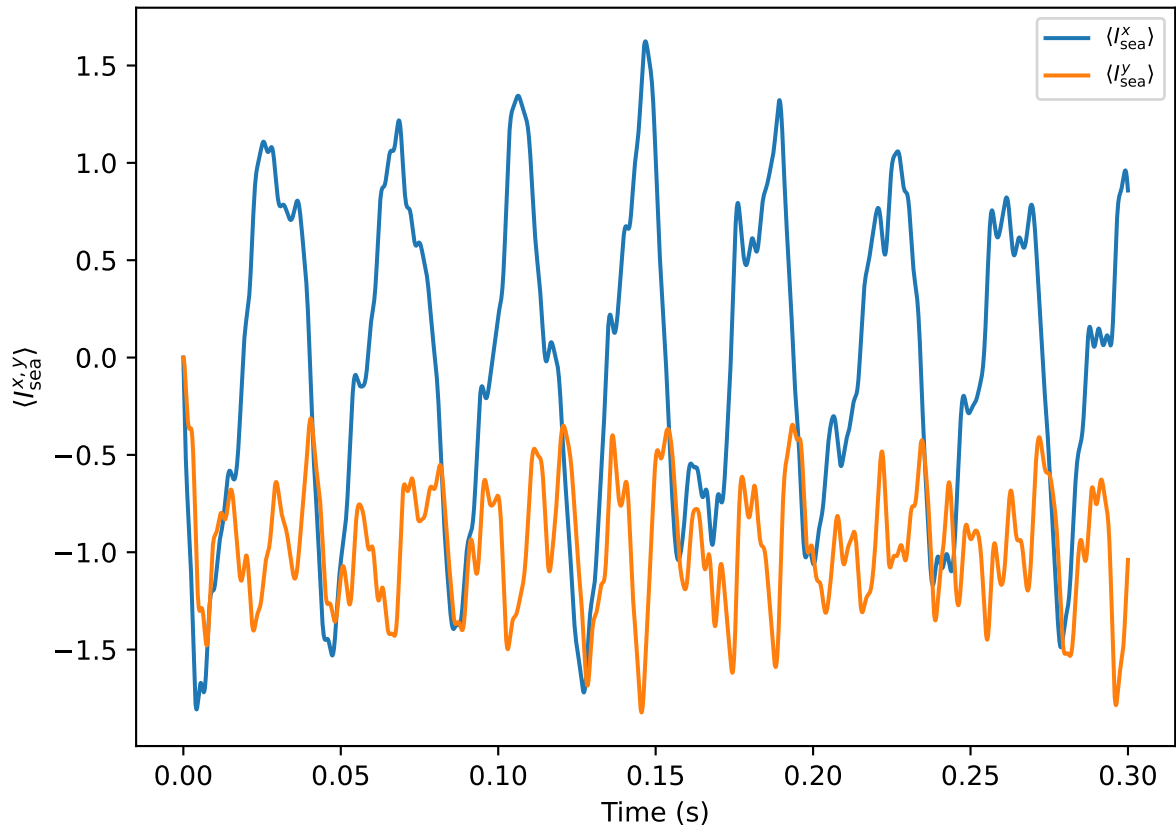
$\delta_A = +125.0$ Hz



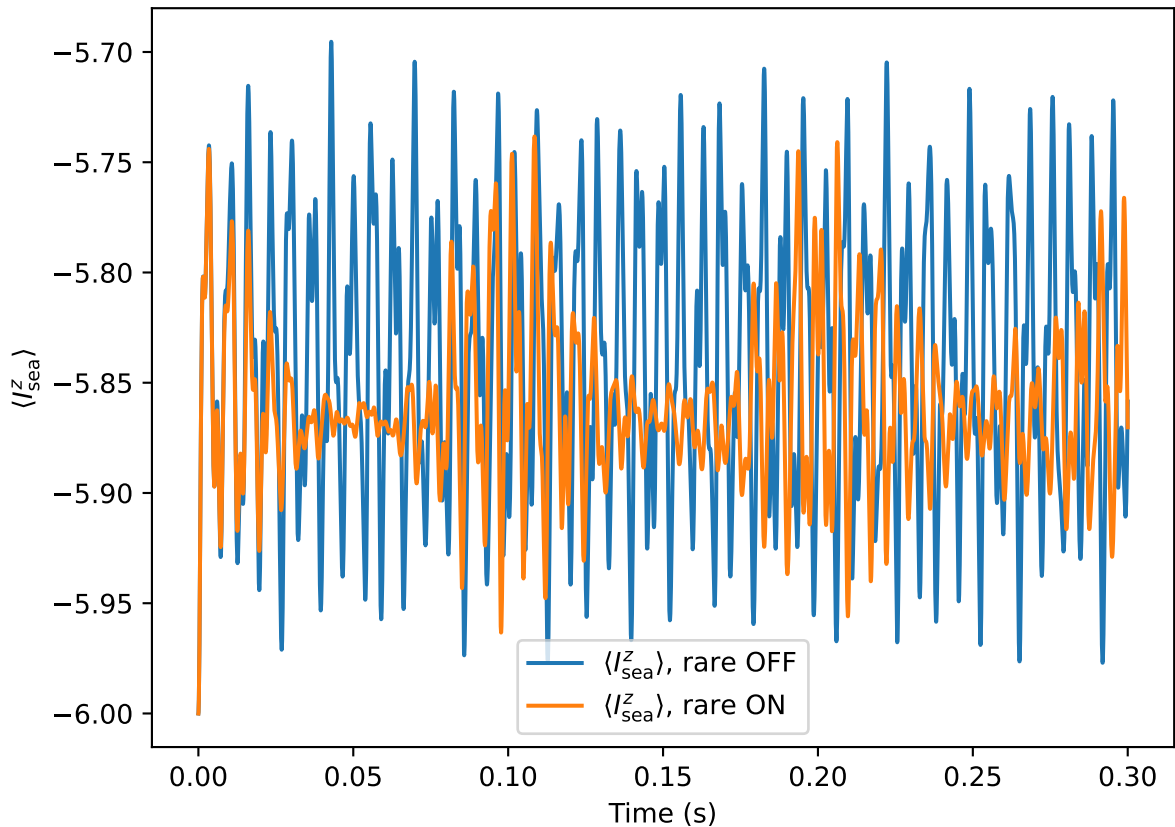
$\delta_A = +125.0$ Hz (pseudo T_1 envelope)



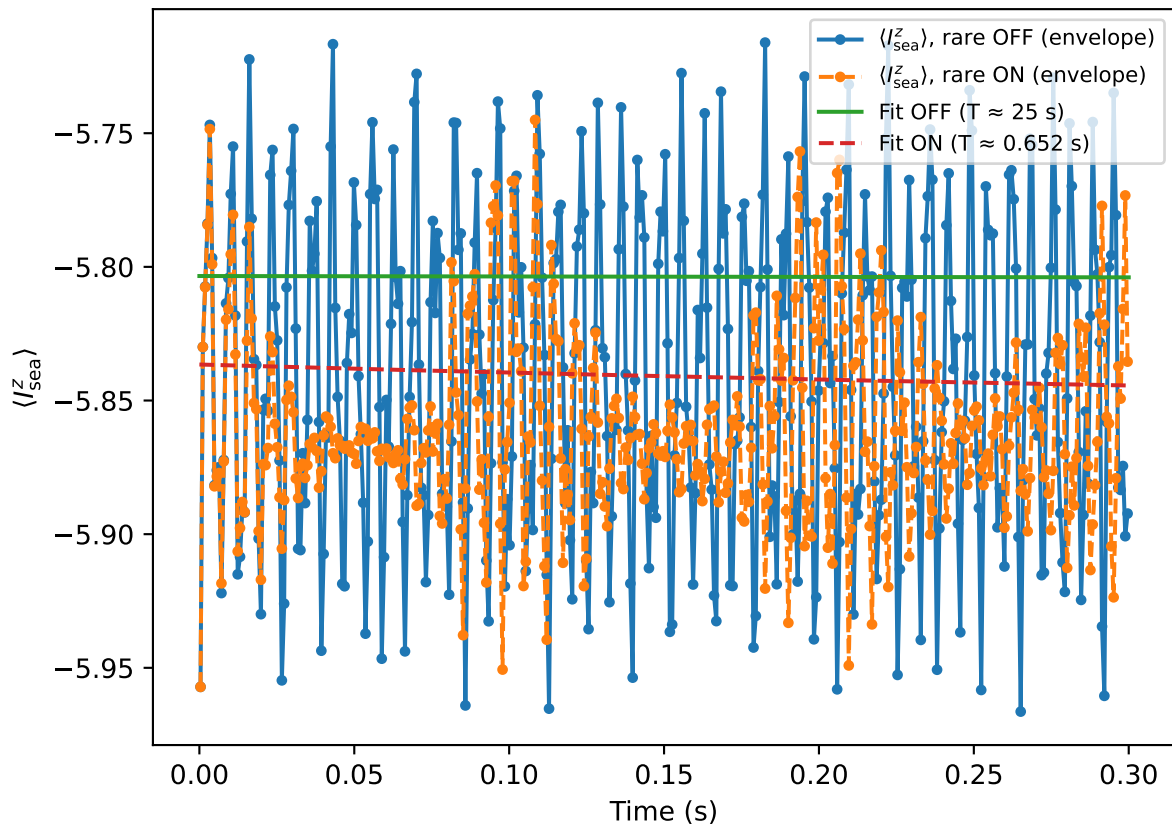
$\delta_A = +125.0$ Hz (rare drive OFF)



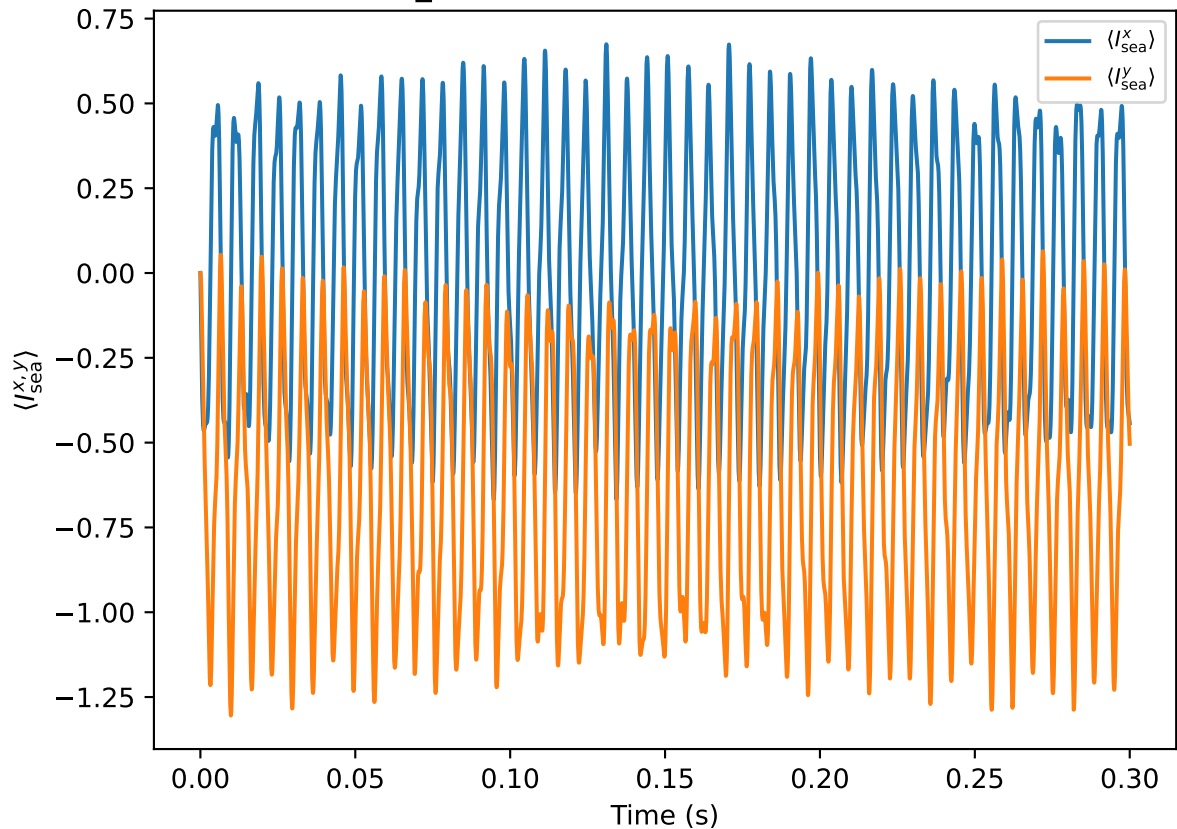
$\delta_A = +250.0$ Hz



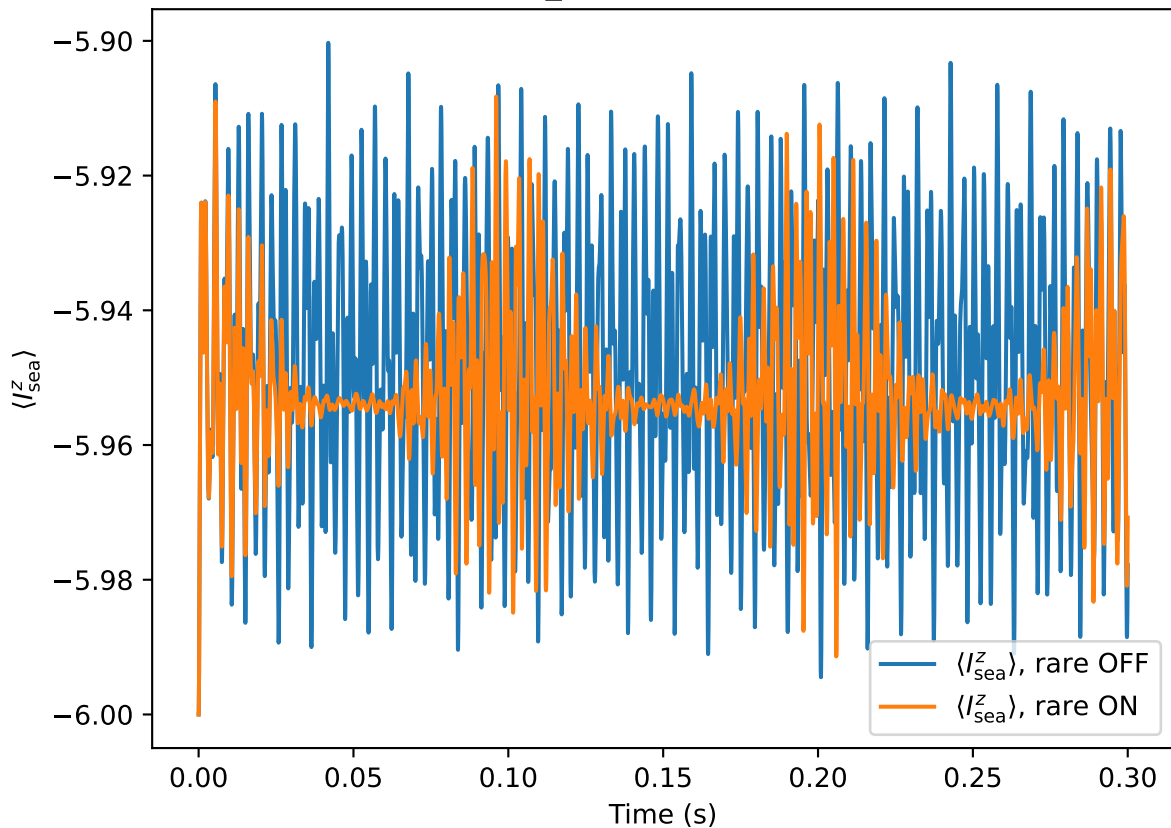
$\delta_A = +250.0$ Hz (pseudo T_1 envelope)



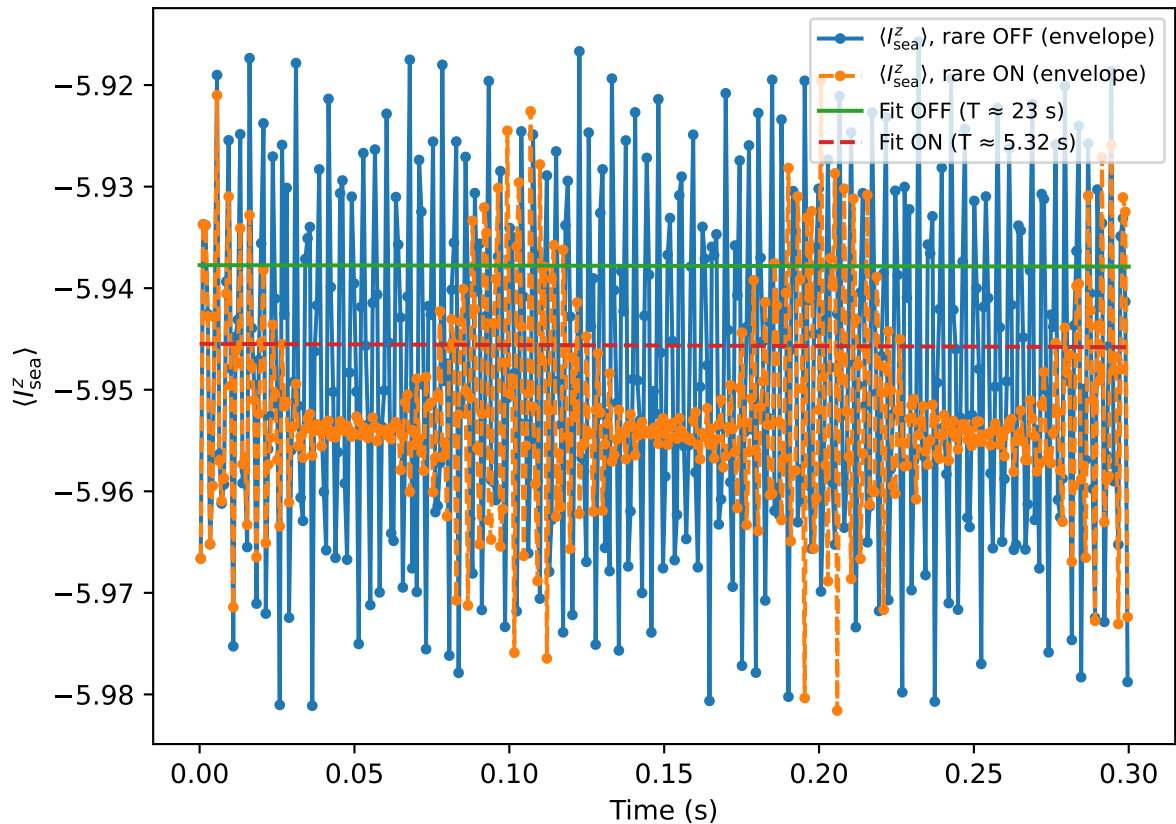
$\delta_A = +250.0$ Hz (rare drive OFF)



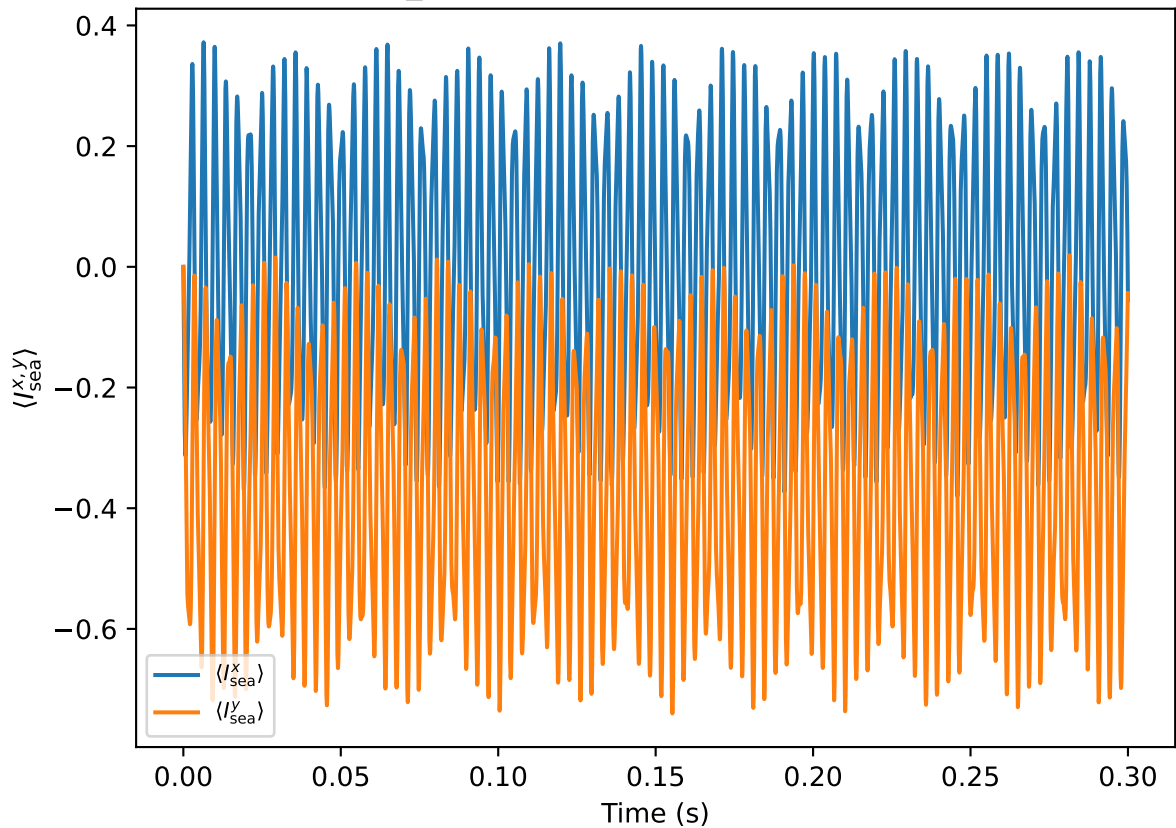
$\delta_A = +375.0$ Hz



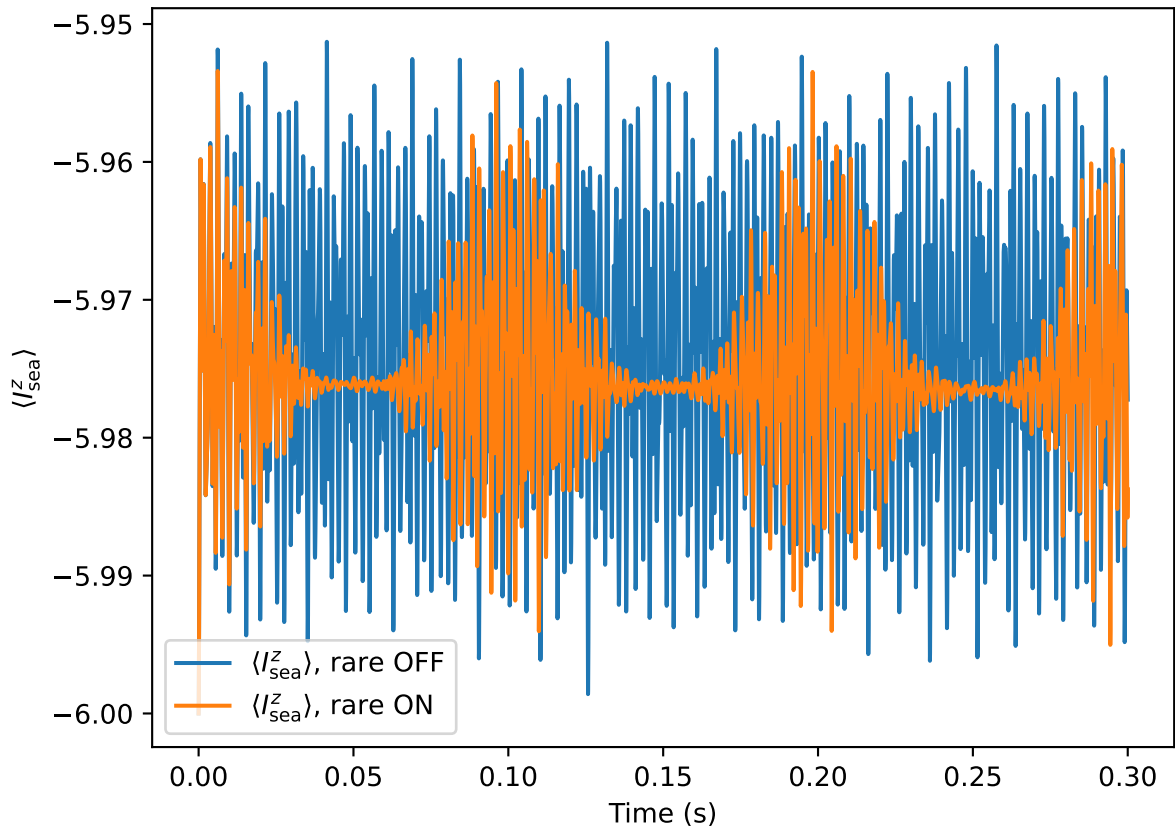
$\delta_A = +375.0$ Hz (pseudo T_1 envelope)



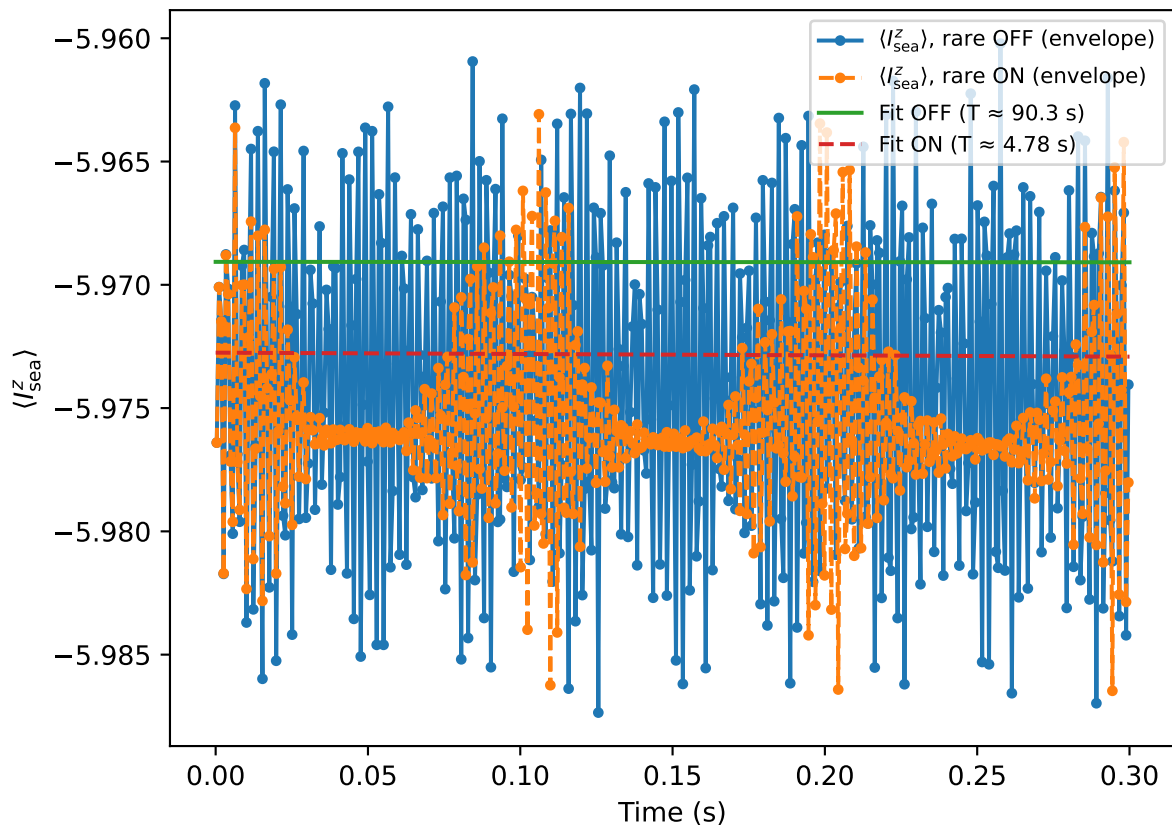
$\delta_A = +375.0$ Hz (rare drive OFF)



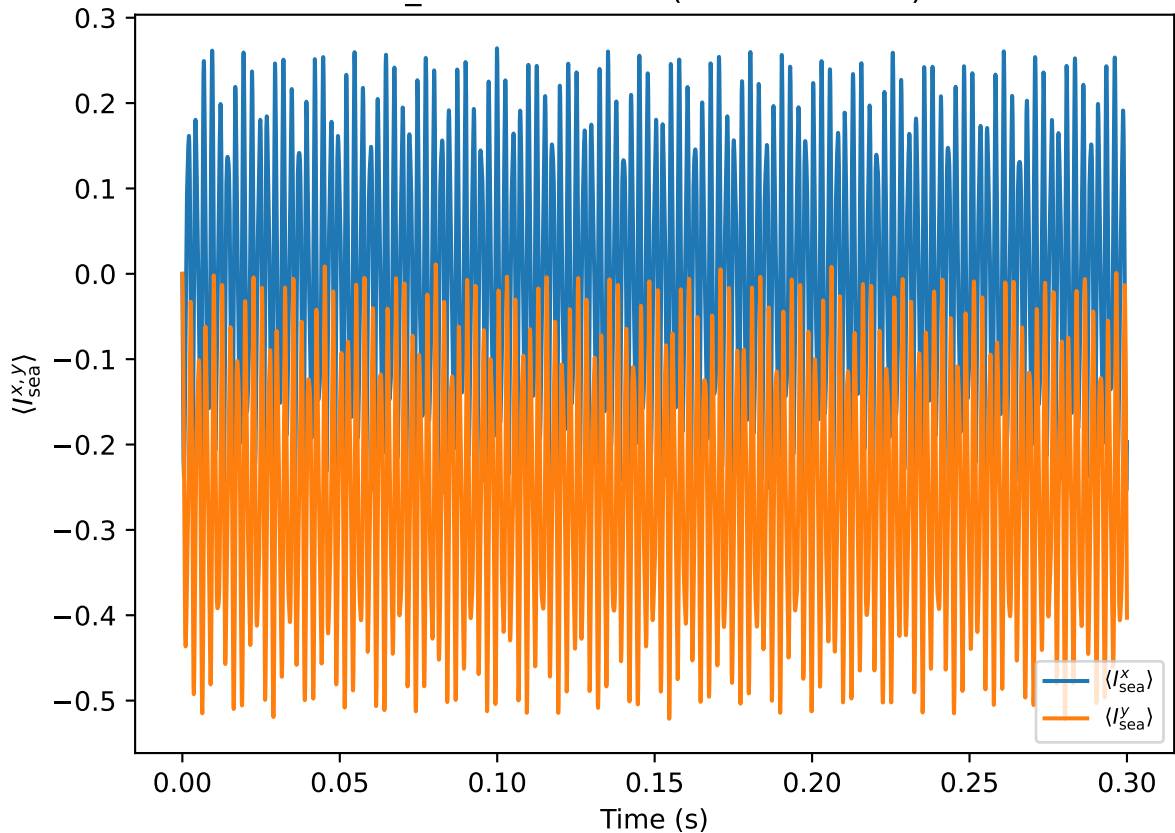
$\delta_A = +500.0$ Hz



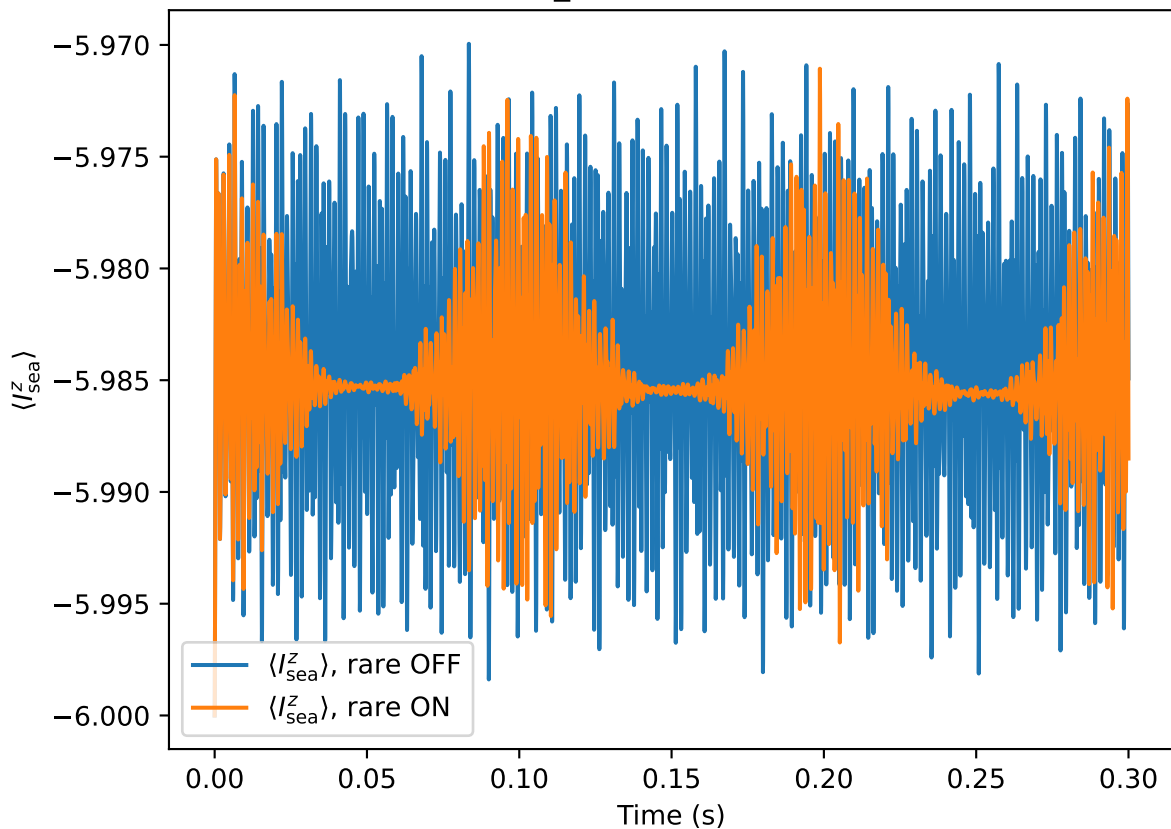
$\delta_A = +500.0$ Hz (pseudo T_1 envelope)



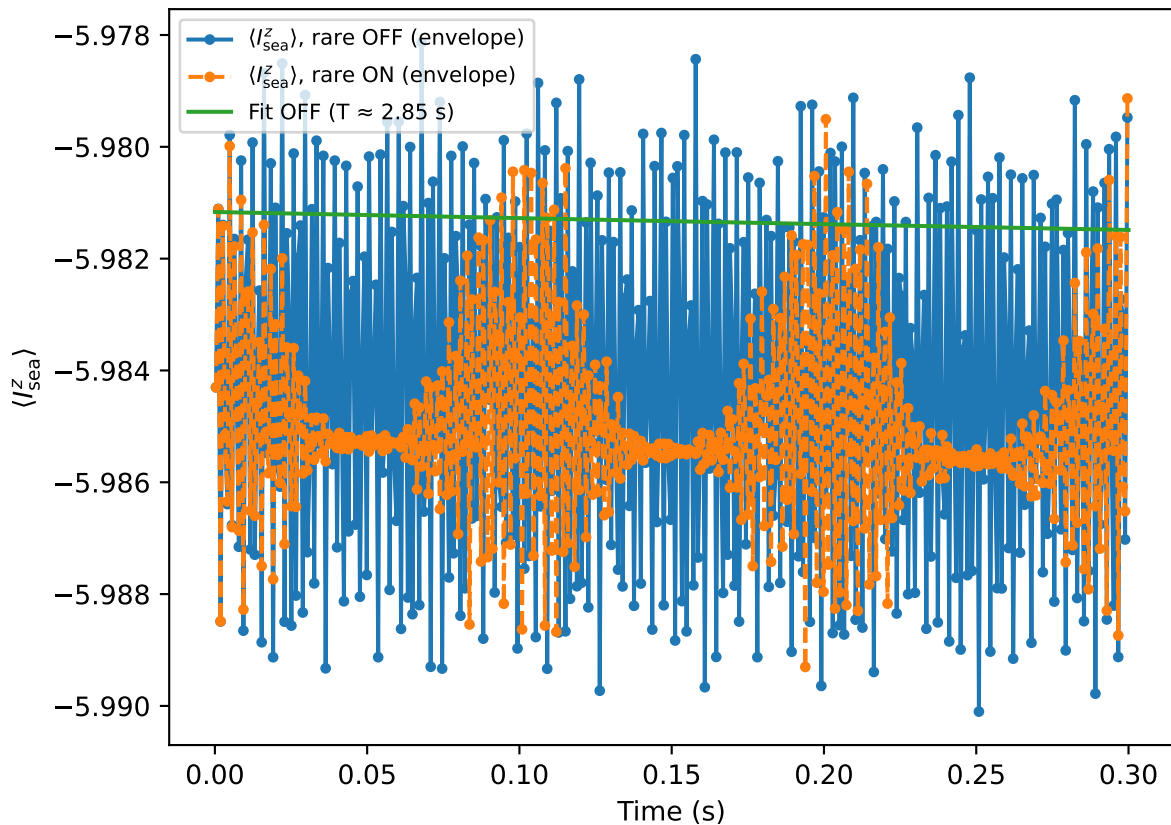
$\delta_A = +500.0$ Hz (rare drive OFF)



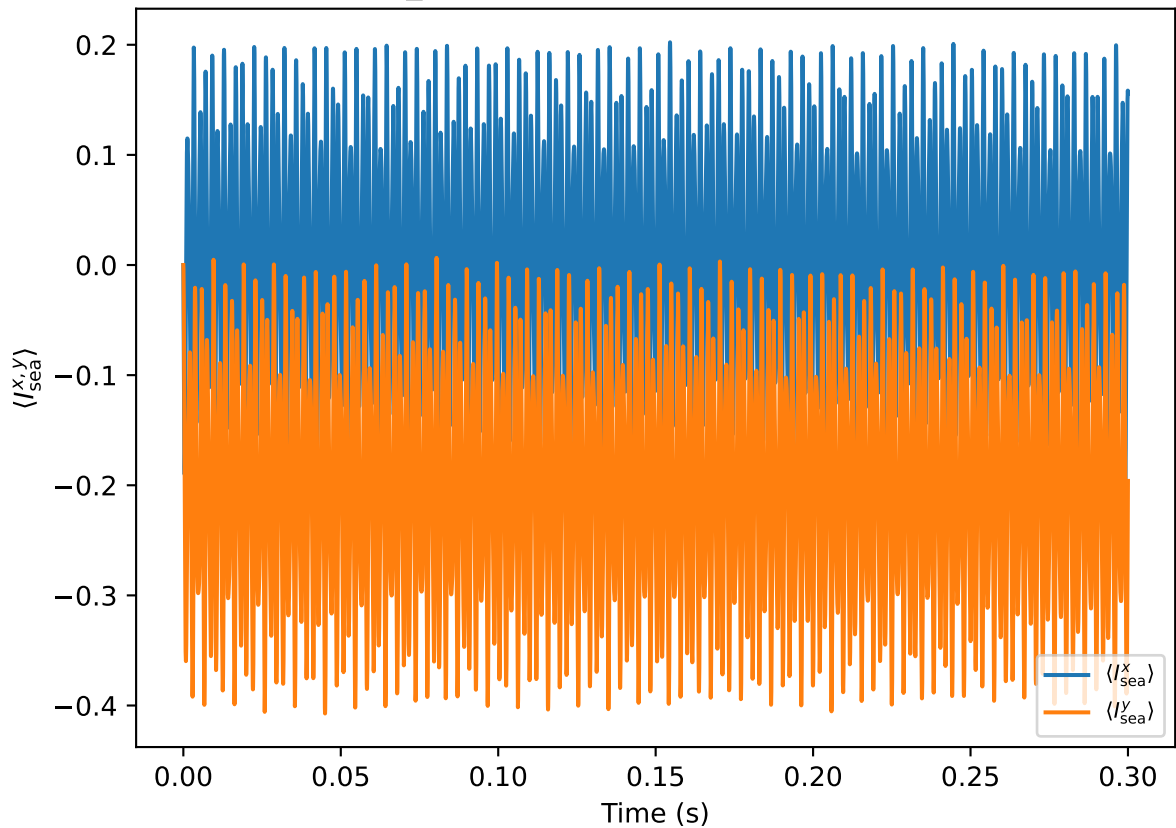
$\delta_A = +625.0$ Hz



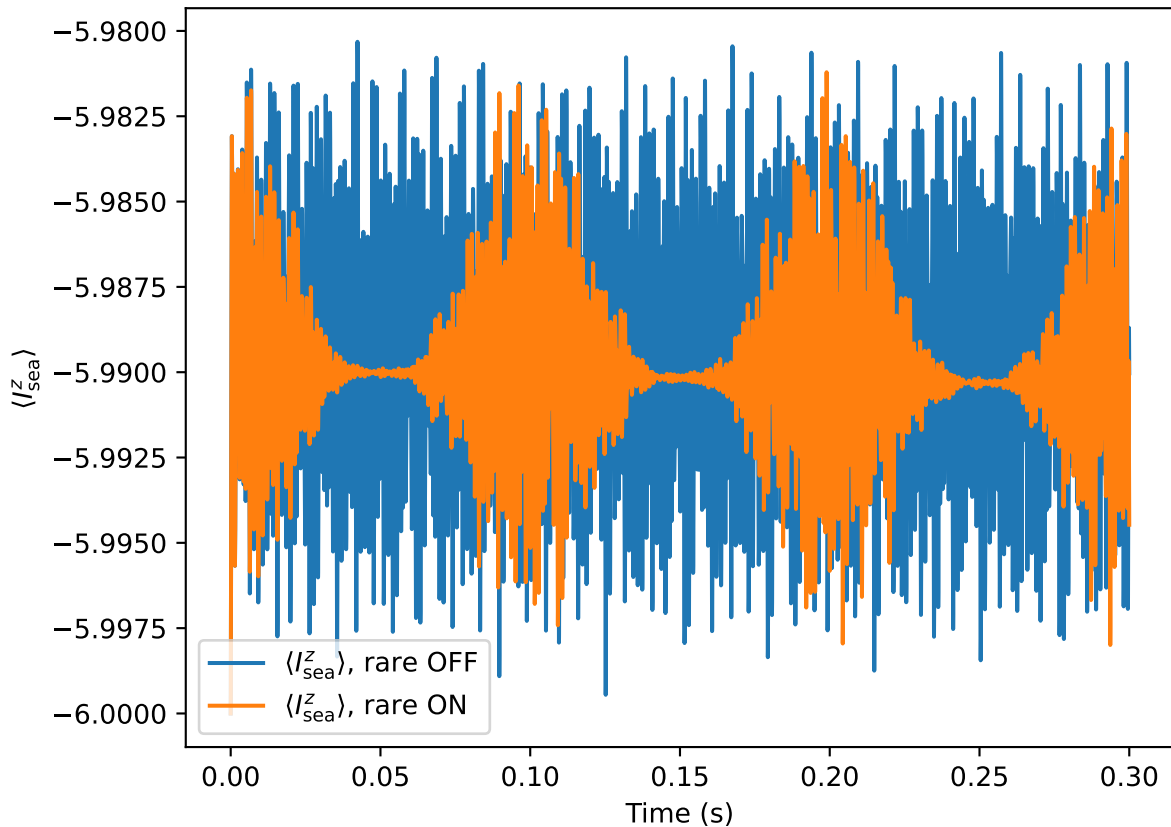
$\delta_A = +625.0$ Hz (pseudo T_1 envelope)



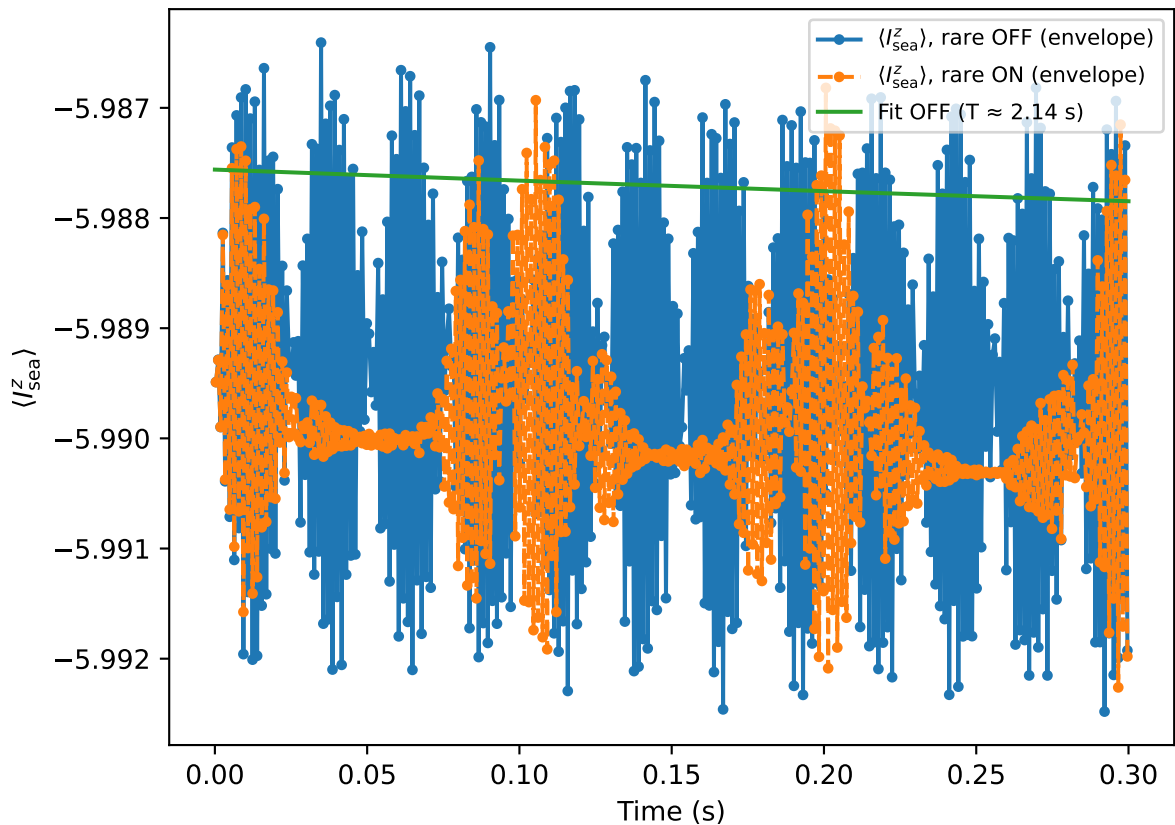
$\delta_A = +625.0$ Hz (rare drive OFF)



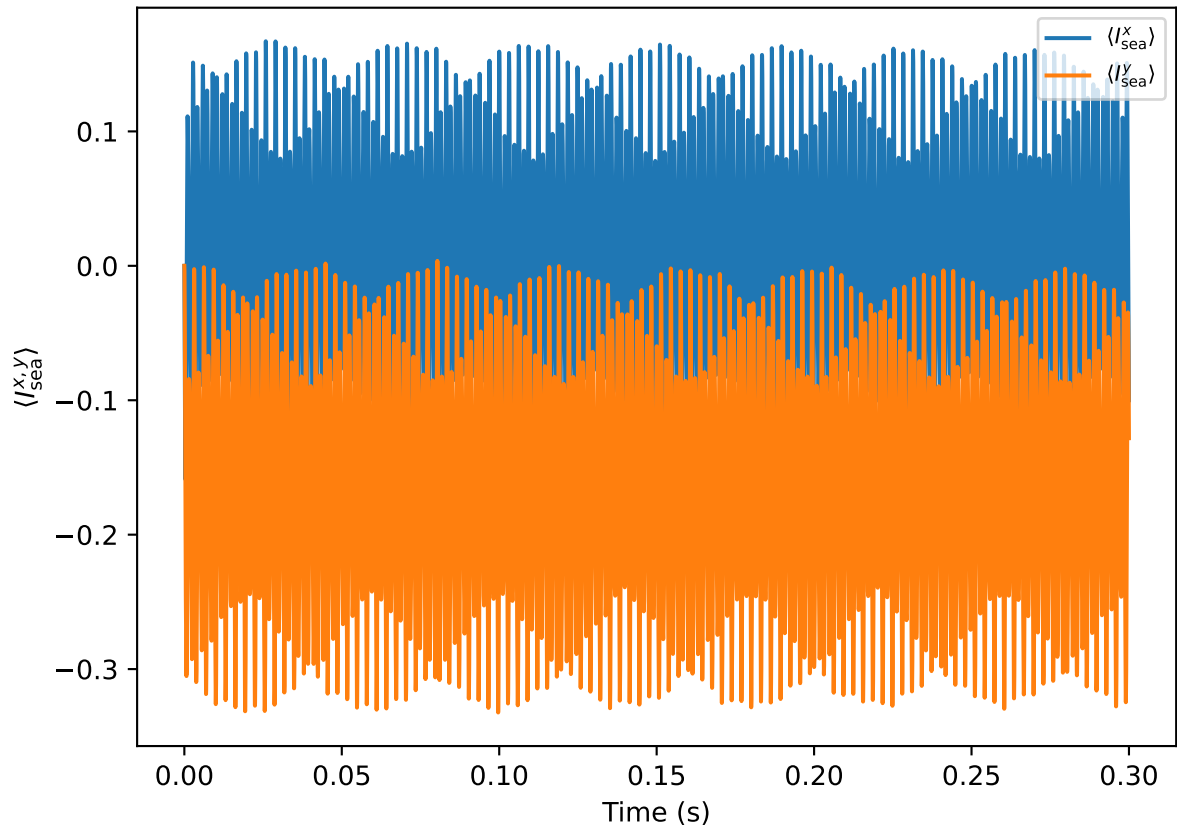
$\delta_A = +750.0$ Hz



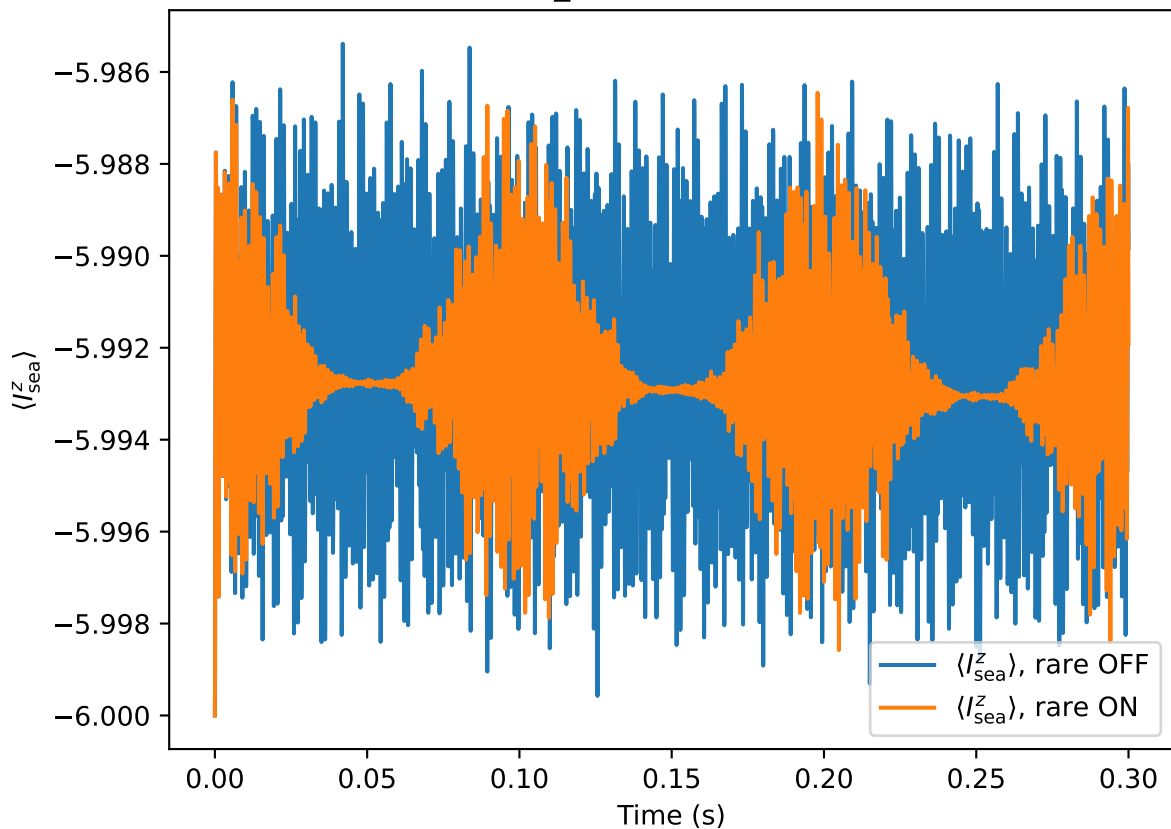
$\delta_A = +750.0$ Hz (pseudo T_1 envelope)



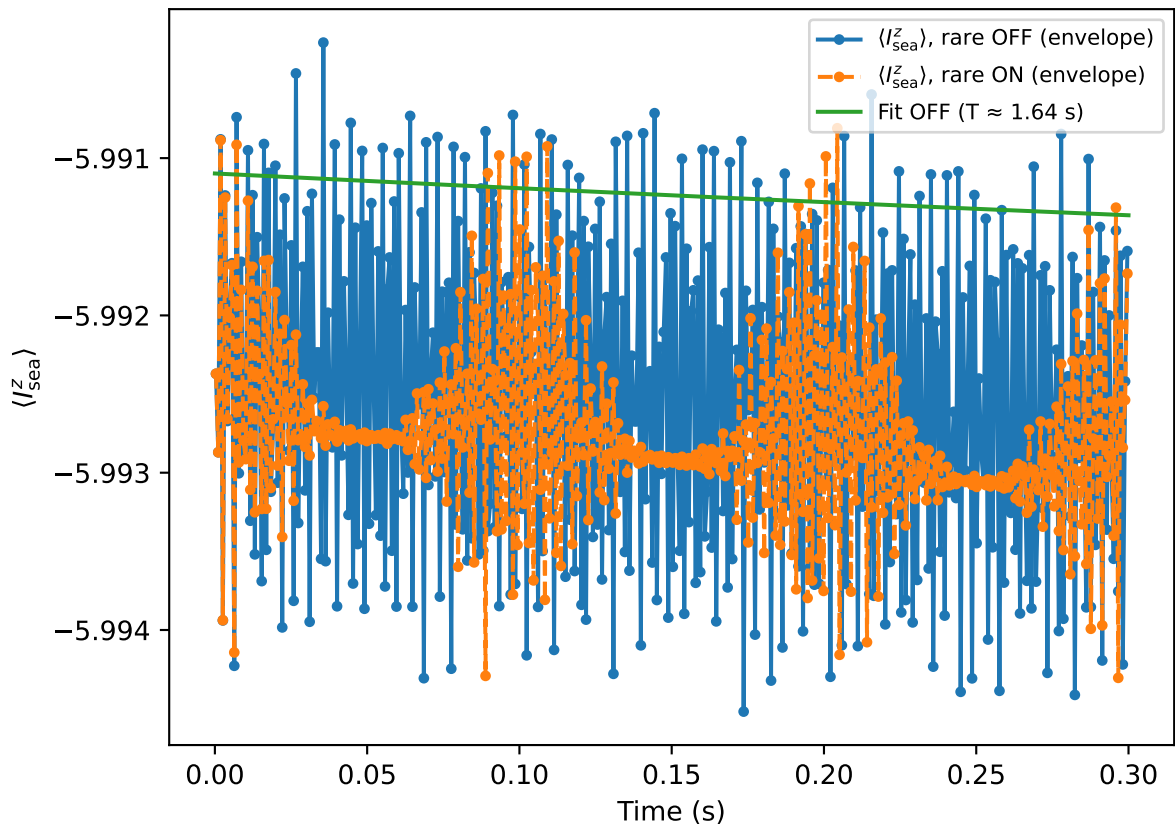
$\delta_A = +750.0$ Hz (rare drive OFF)



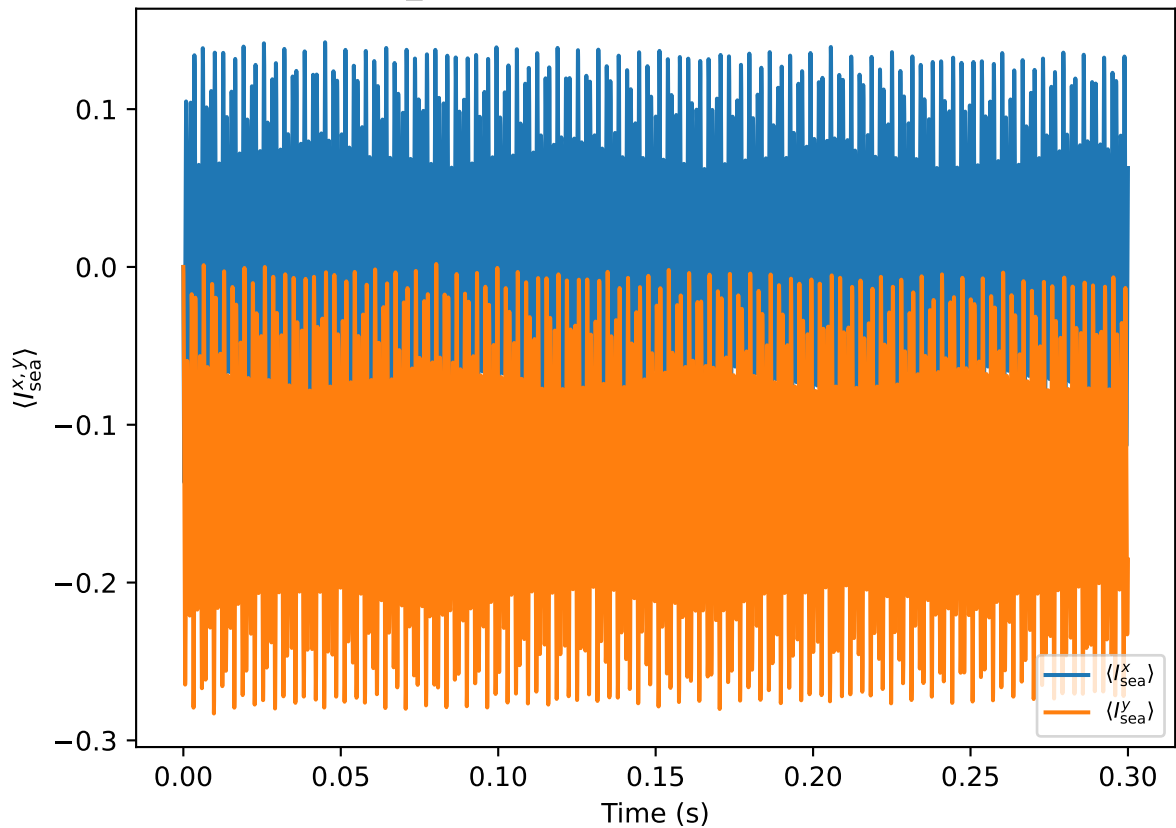
$\delta_A = +875.0$ Hz



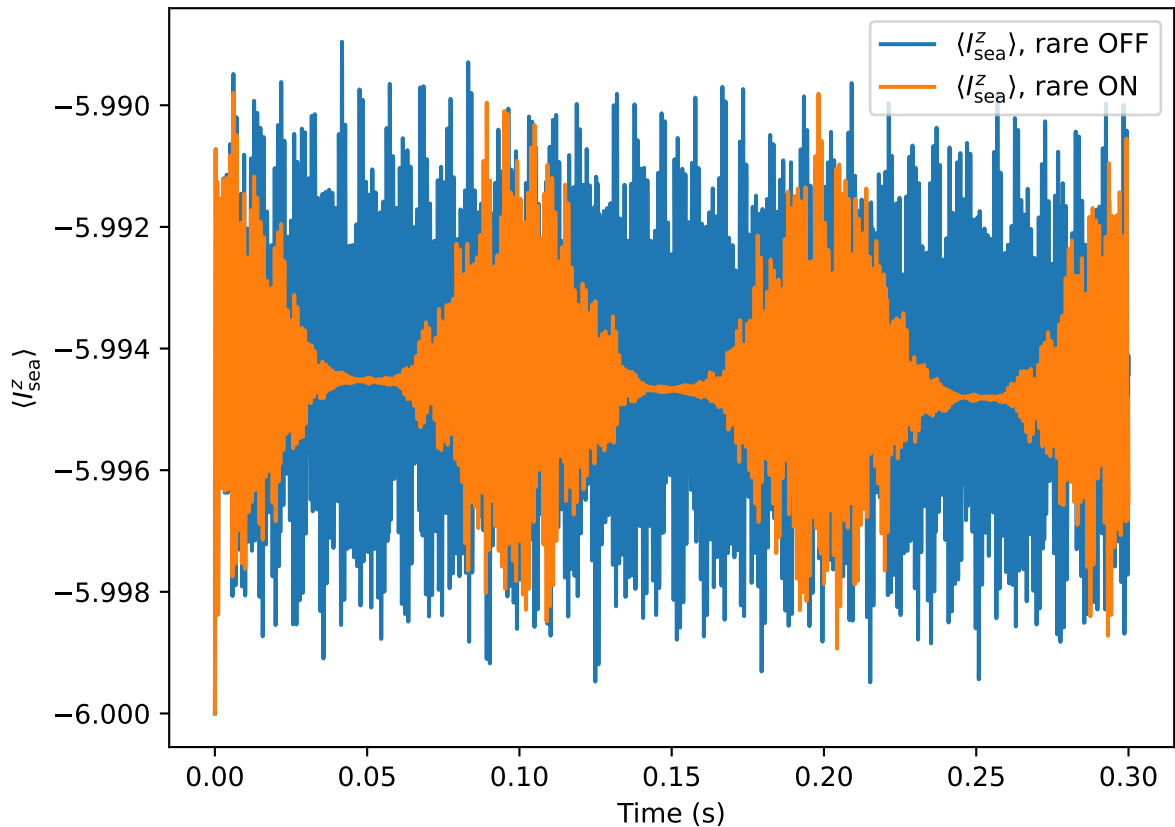
$\delta_A = +875.0$ Hz (pseudo T_1 envelope)



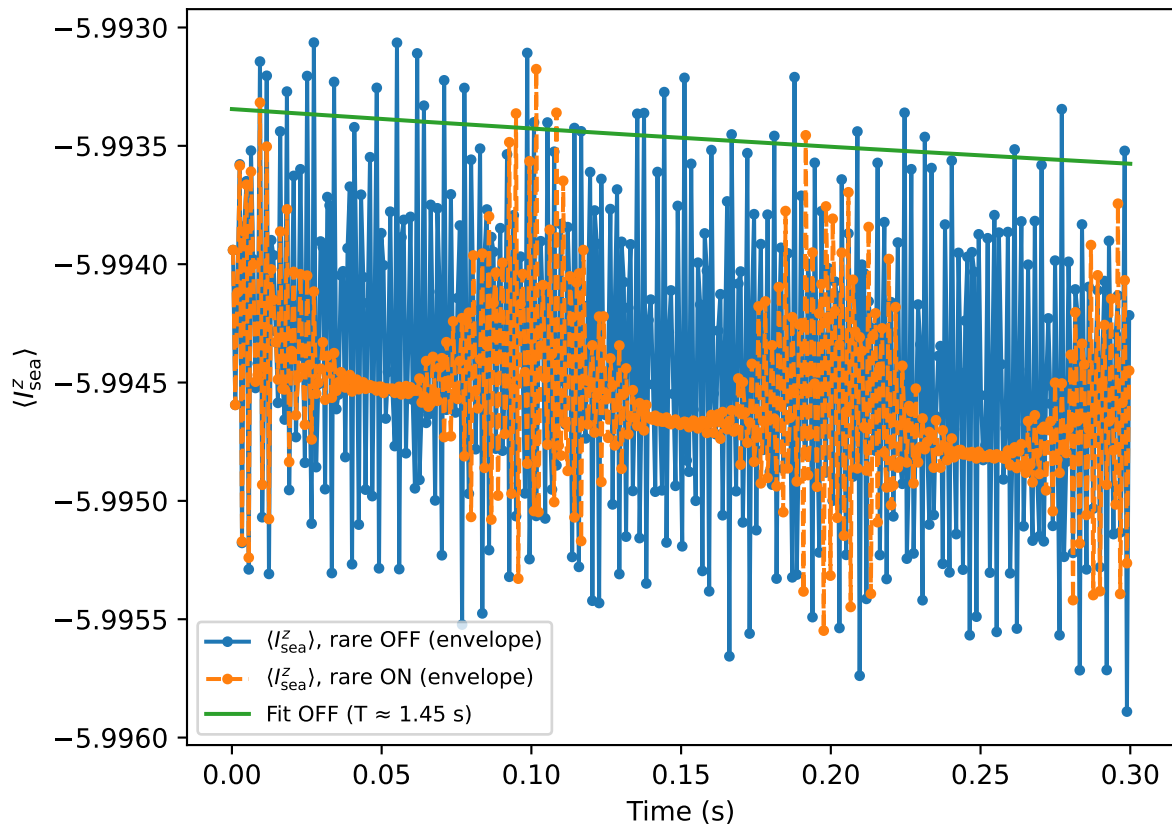
$\delta_A = +875.0$ Hz (rare drive OFF)



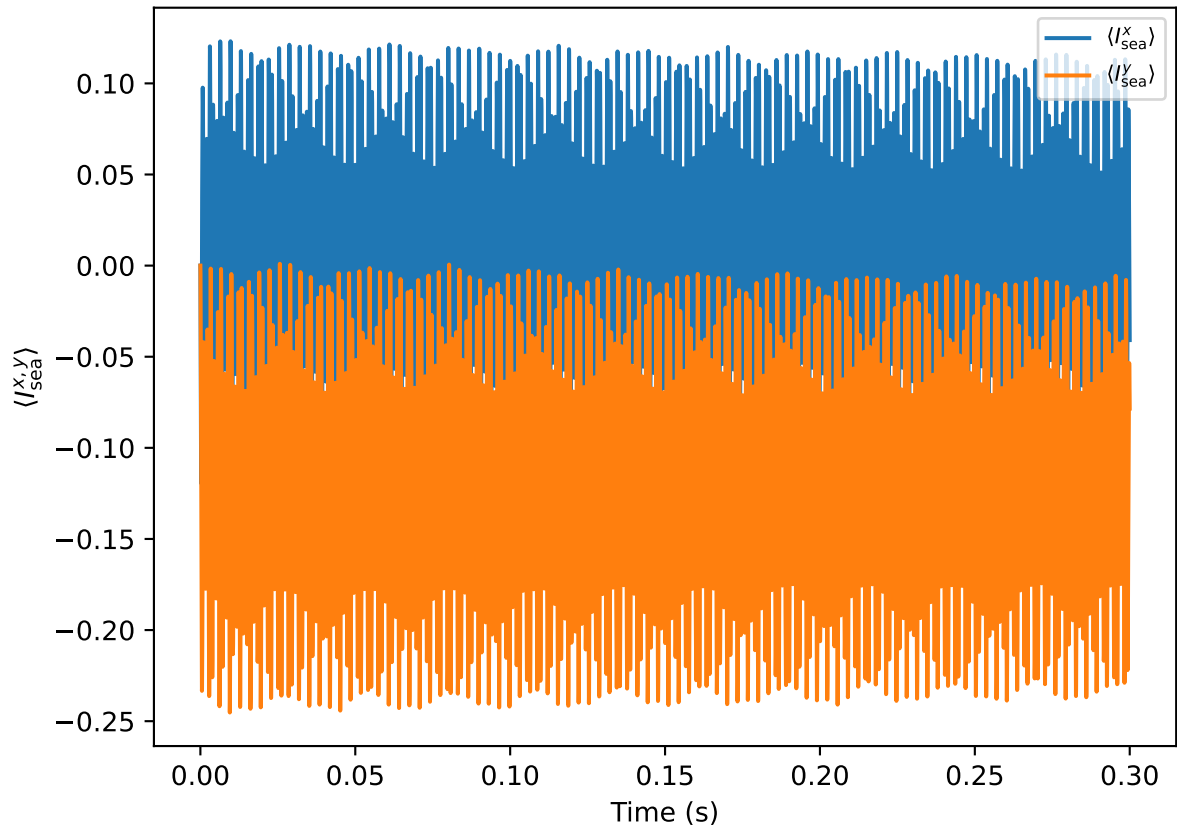
$\delta_A = +1000.0$ Hz



$\delta_A = +1000.0$ Hz (pseudo T_1 envelope)



$\delta_A = +1000.0$ Hz (rare drive OFF)



T-like decay fits from $\langle I^z_{\text{sea}} \rangle$ traces

delta_Hz	T_Iz_sea_off	T_Iz_sea_on

+0.0	0.188	47.6
+125.0	1.55	NA
+250.0	25	0.652
+375.0	23	5.32
+500.0	90.3	4.78
+625.0	2.85	NA
+750.0	2.14	NA
+875.0	1.64	NA
+1000.0	1.45	NA