

Sea detuning sweep report (Ga sea / Al rare)

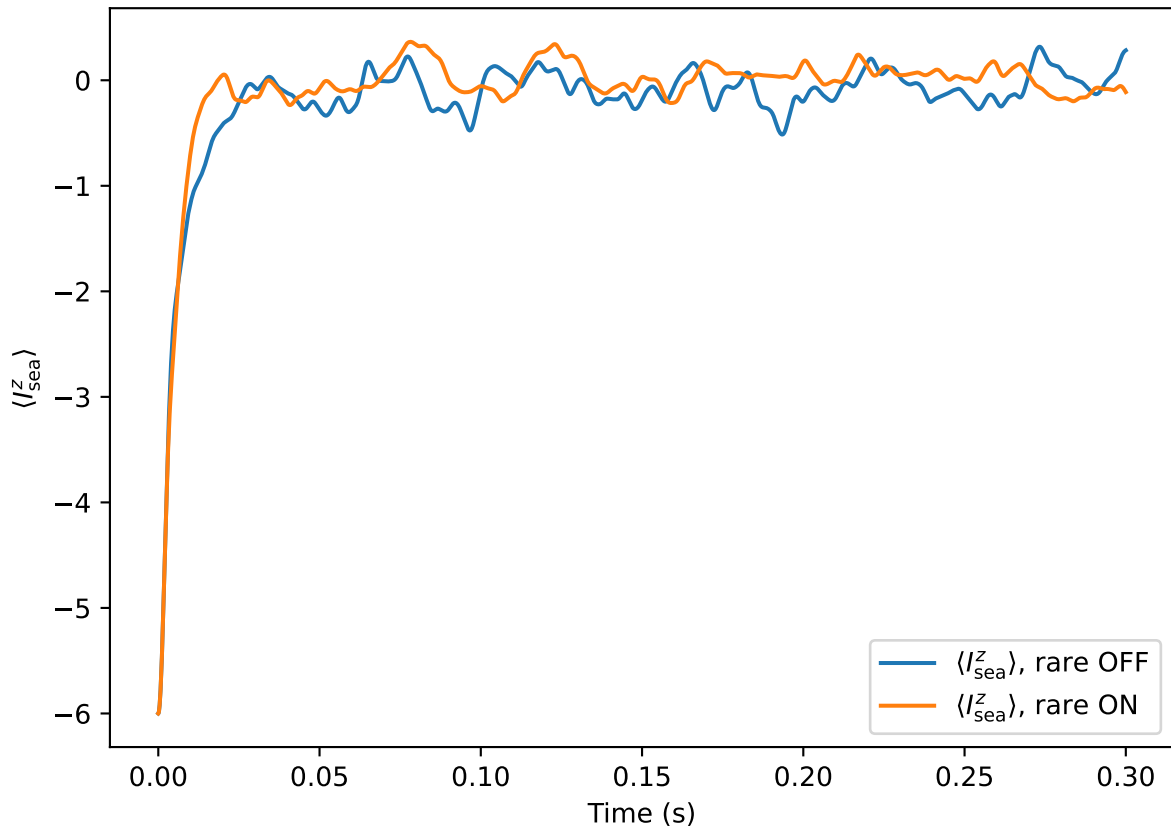
Global parameters (constant across sweep):

f_Az (sea Larmor)	= 39.062 MHz
f_Rz (rare Larmor)	= 33.308 MHz
f1A (sea Rabi)	= 0.020 kHz
f1R (rare Rabi)	= 2.000 kHz
gamma_sea	= $8.181\text{e}+07 \text{ rad}\cdot\text{s}^{-1}\cdot\text{T}^{-1}$
gamma_rare	= $6.976\text{e}+07 \text{ rad}\cdot\text{s}^{-1}\cdot\text{T}^{-1}$
B0_common	= 3.000 T
B1_sea	= $1.536\text{e}-06 \text{ T}$
B1_rare	= $1.801\text{e}-04 \text{ T}$
dipolar_scale_SI	= $1.055\text{e}-41$
shell_scale	= 0.300 nm
t_final	= $3.000\text{e}-01 \text{ s}$
steps	= 20000
n_sea	= 12
phi_sea	= 1.571 rad
phi_rare	= 1.571 rad
sea_spin_type	= 1/2
rare_spin_type	= 1/2

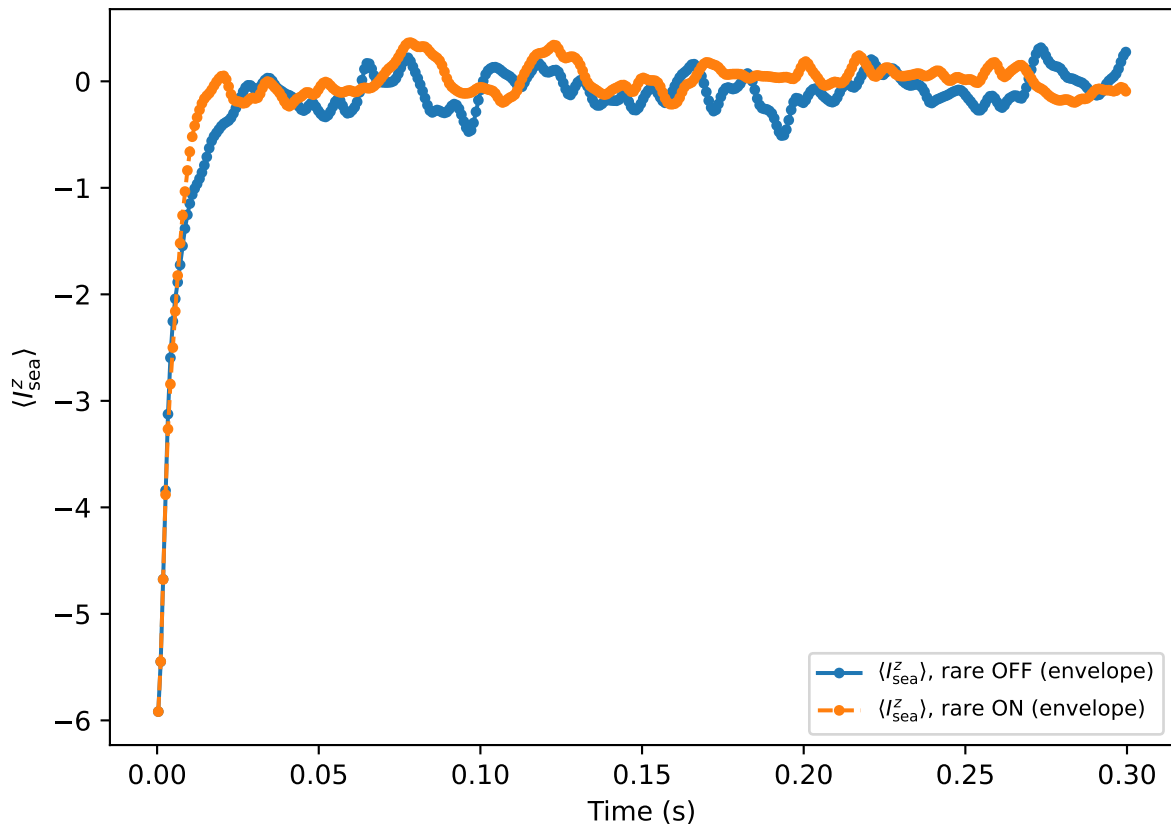
Sea detunings ($\delta_A = f_{Az} - f_{rf,A}$) in Hz:

+0.0, +62.5, +125.0, +187.5, +250.0, +312.5, +375.0, +437.5, +500.0

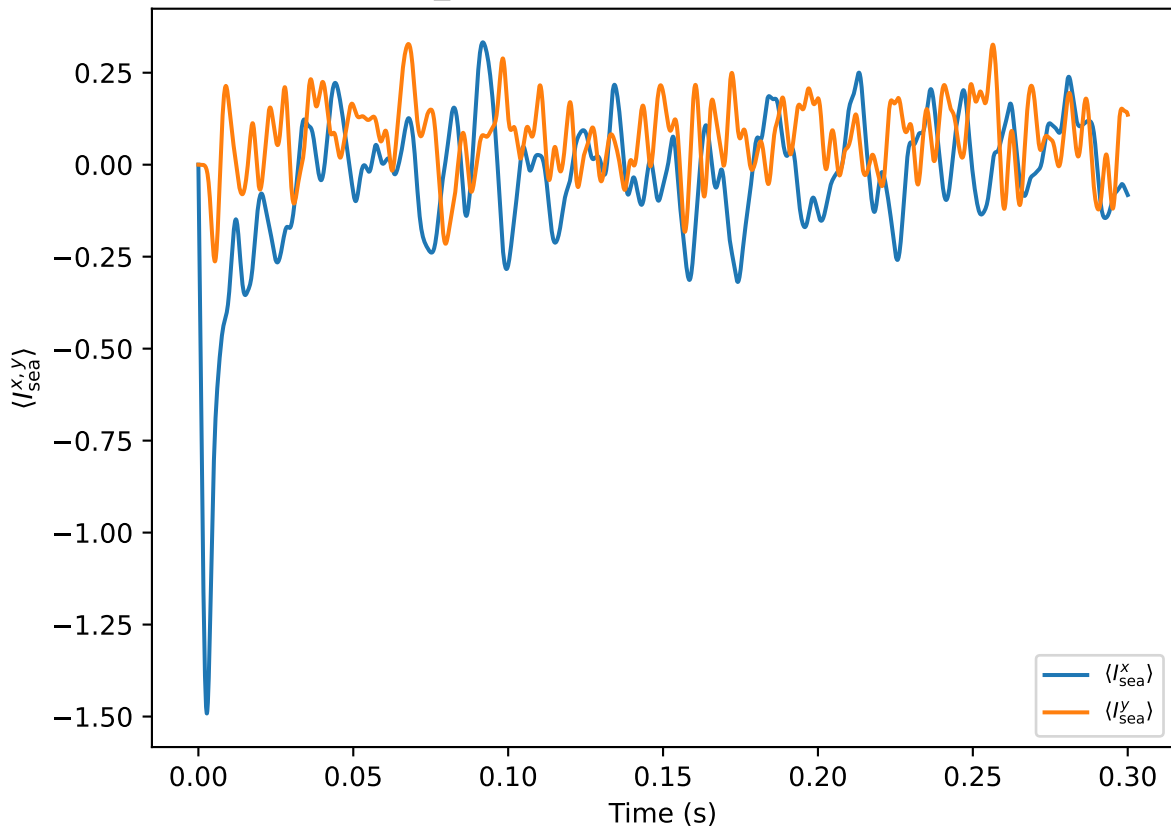
$\delta_A = +0.0$ Hz



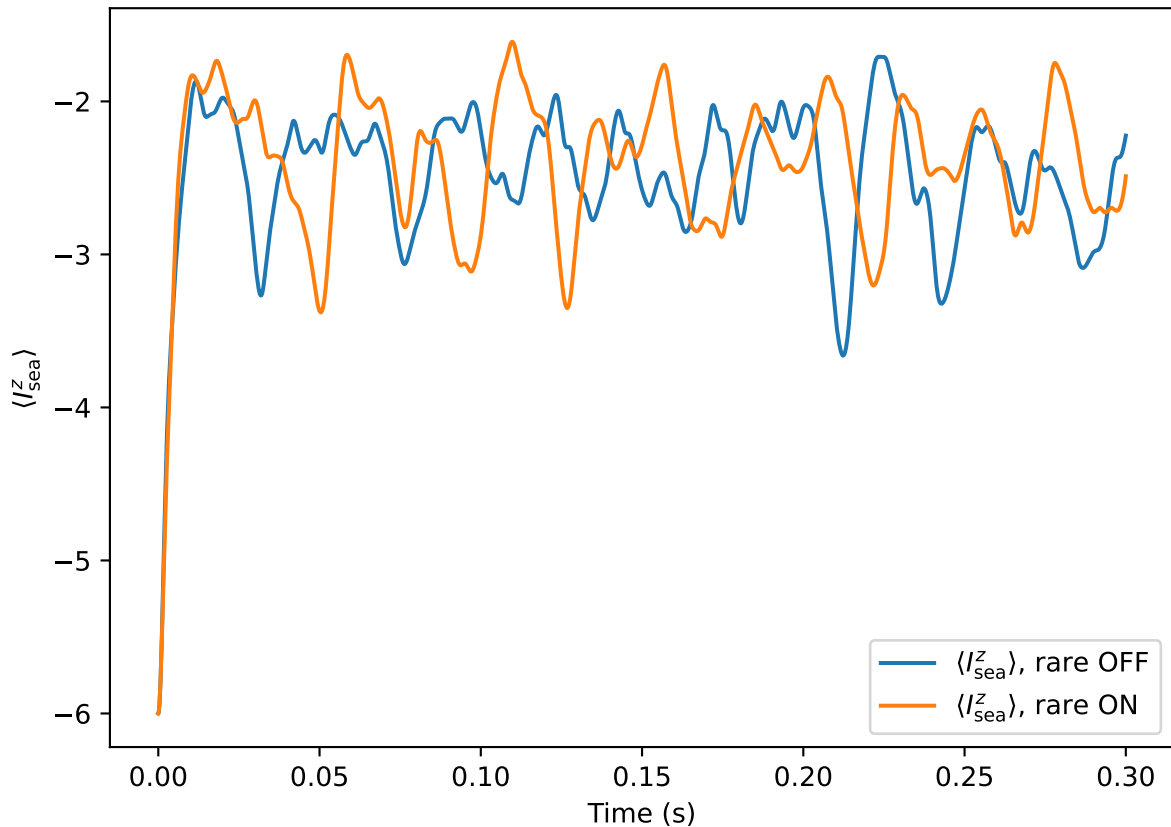
$\delta_A = +0.0$ Hz (pseudo T_1 envelope)



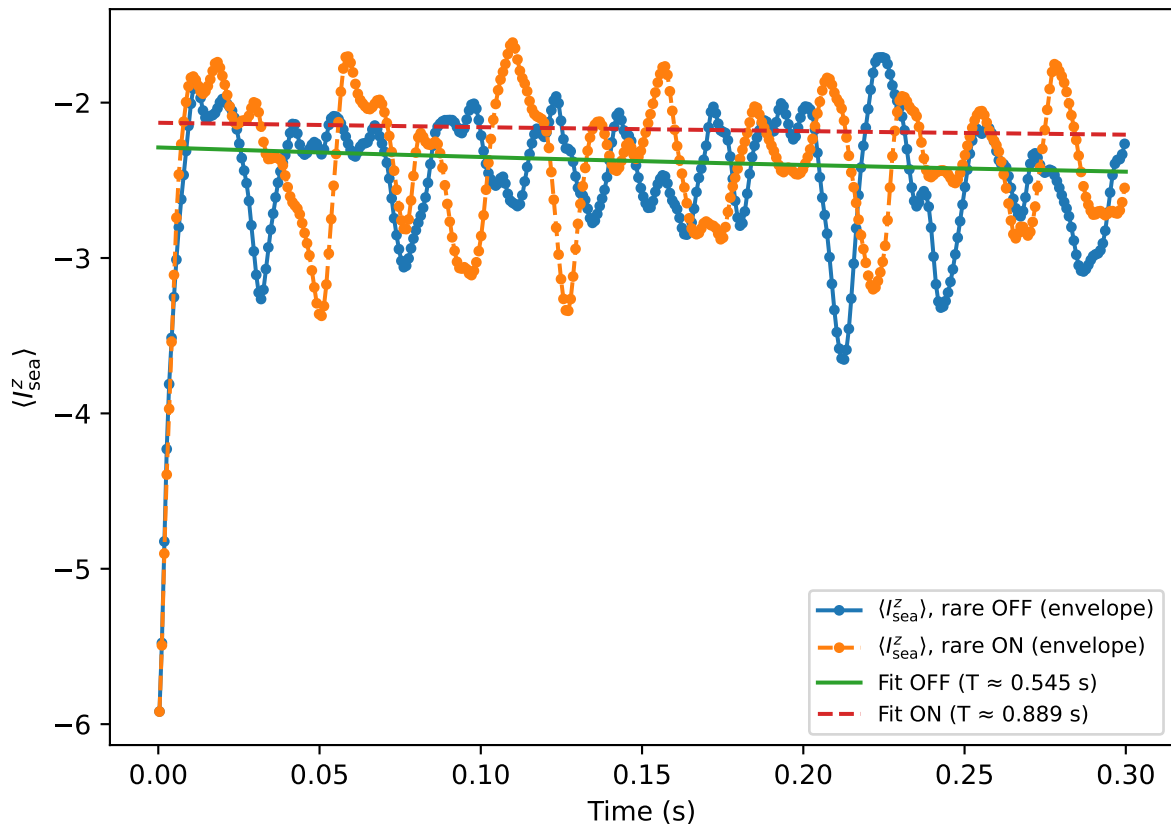
$\delta_A = +0.0$ Hz (rare drive OFF)



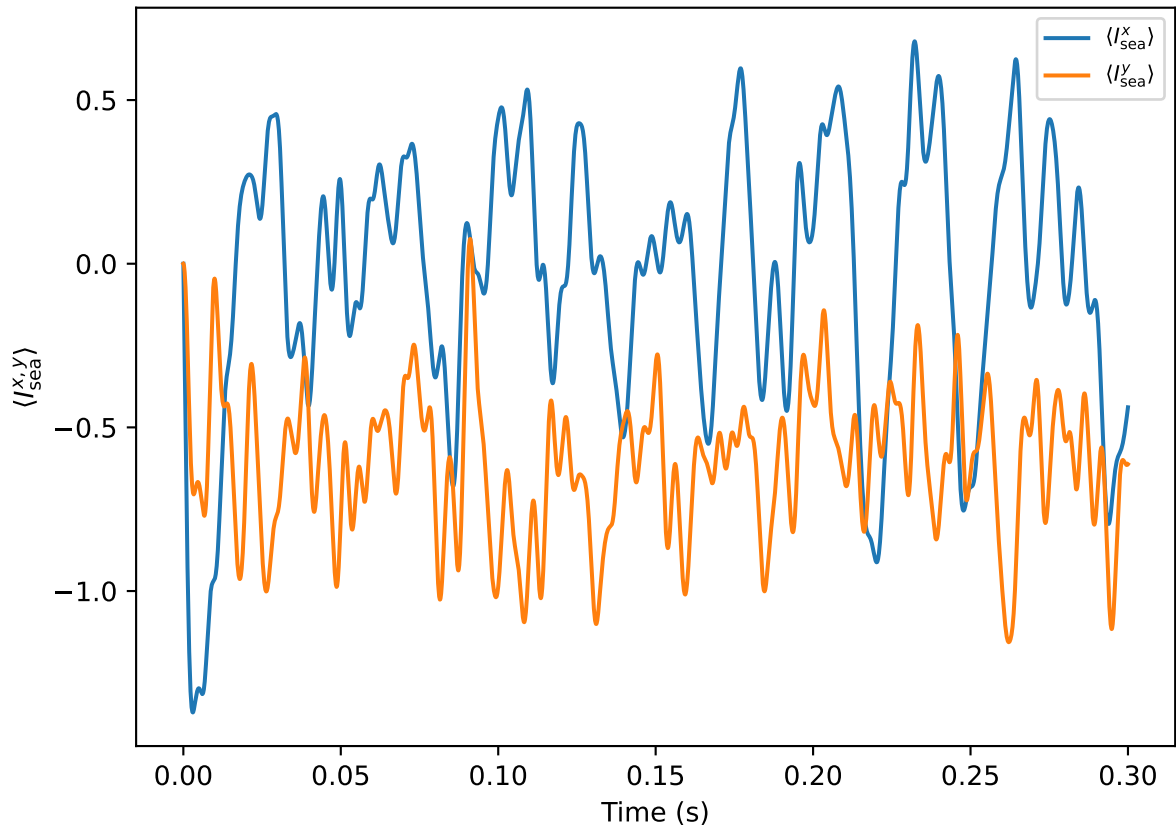
$\delta_A = +62.5$ Hz



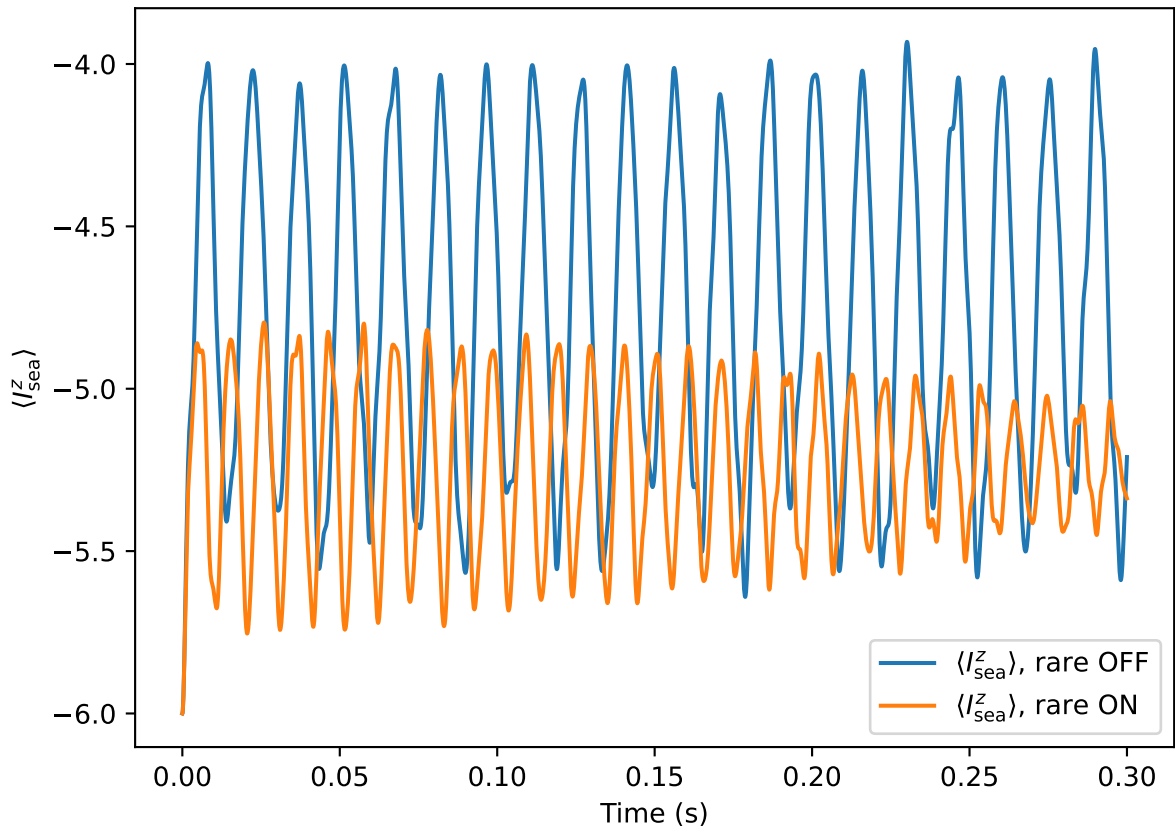
$\delta_A = +62.5$ Hz (pseudo T_1 envelope)



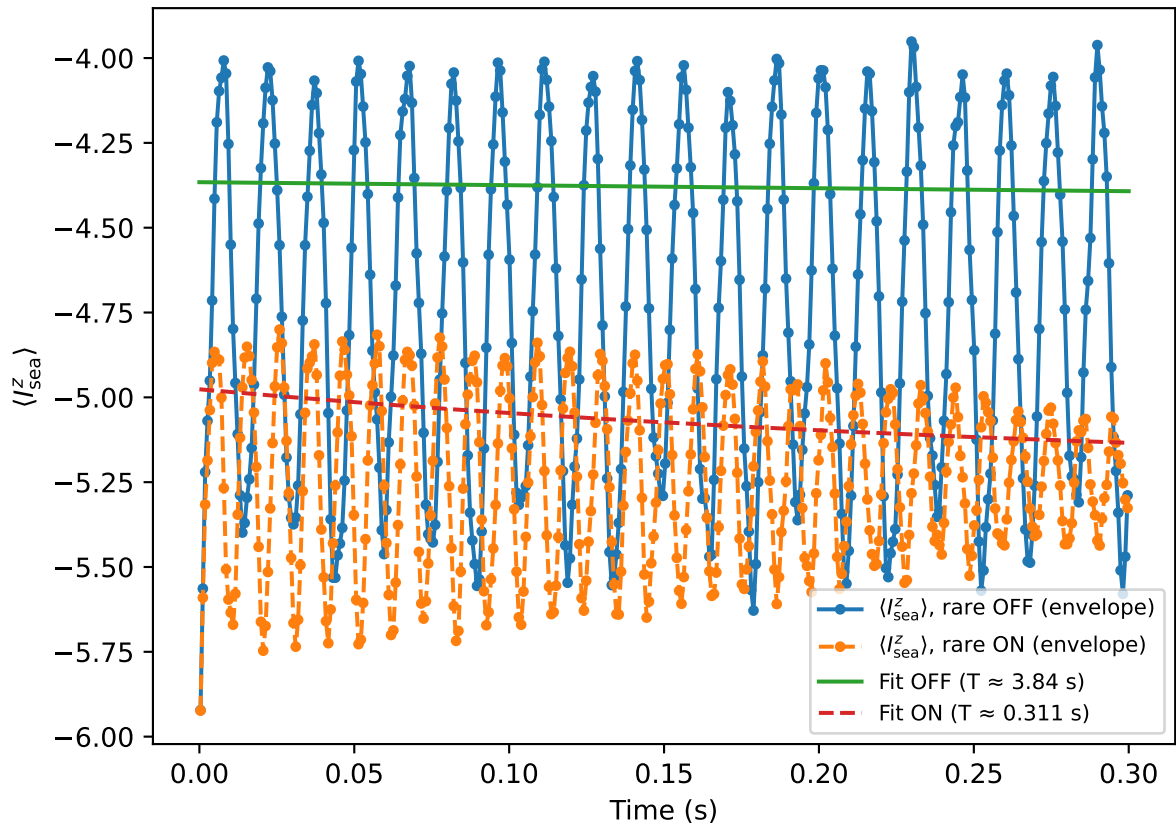
$\delta_A = +62.5$ Hz (rare drive OFF)



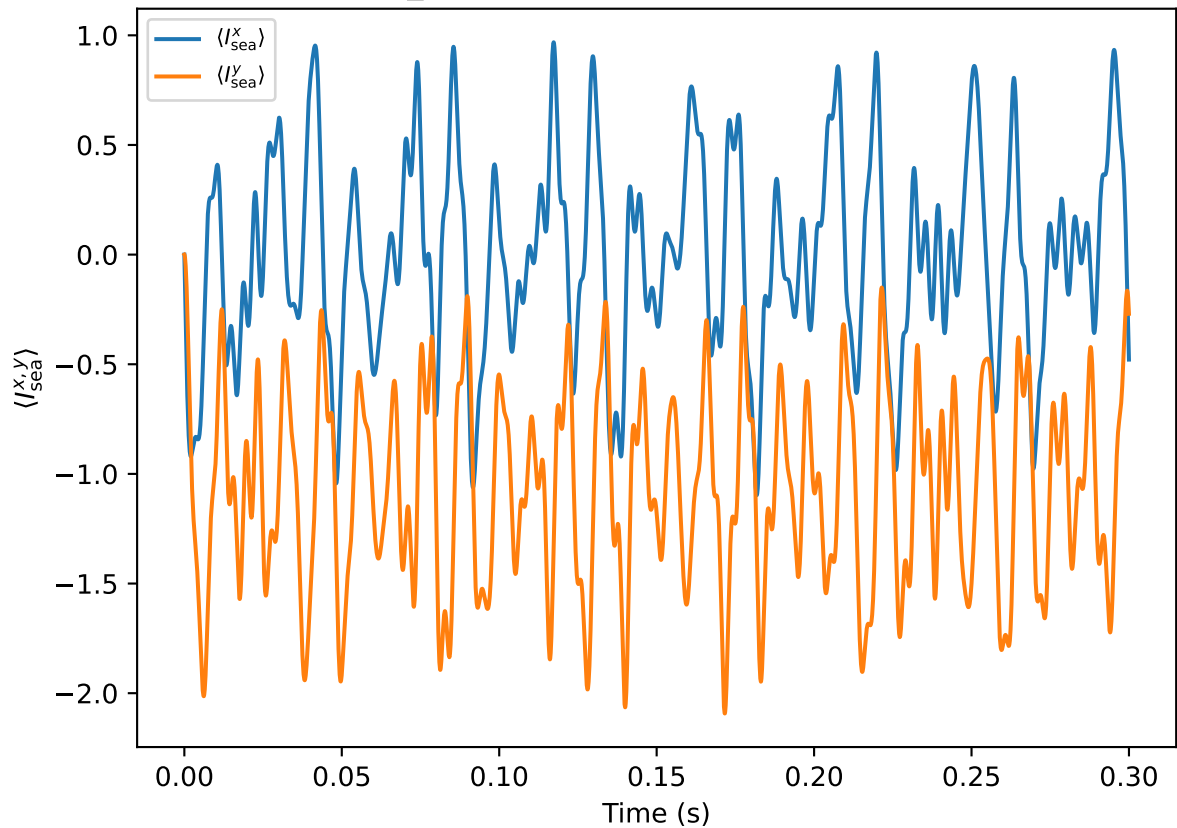
$\delta_A = +125.0$ Hz



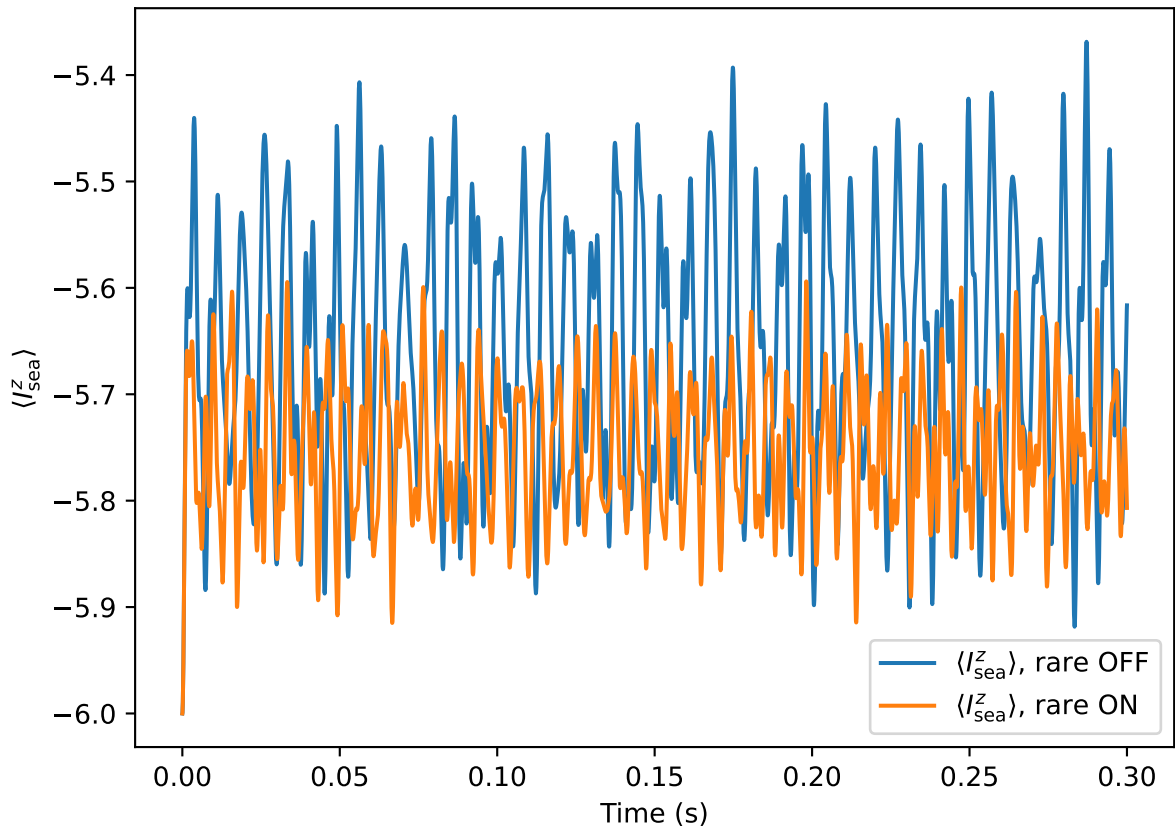
$\delta_A = +125.0$ Hz (pseudo T_1 envelope)



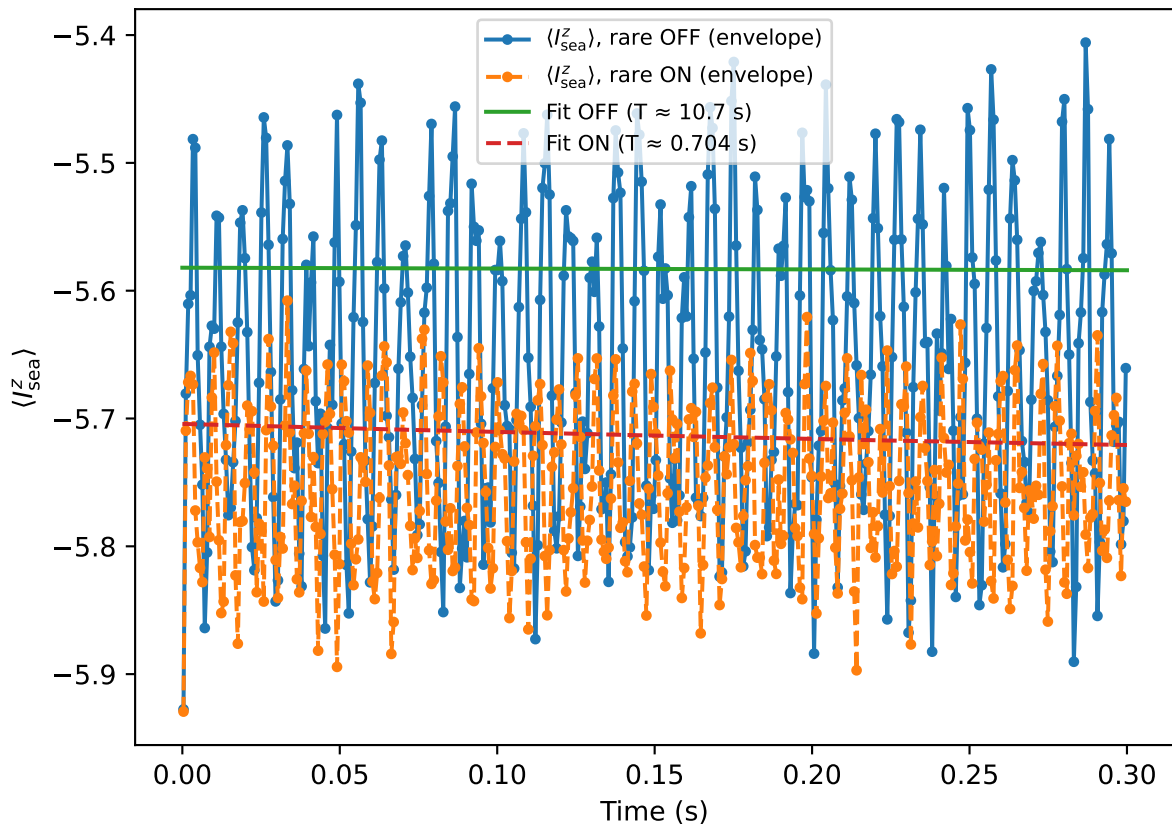
$\delta_A = +125.0$ Hz (rare drive OFF)



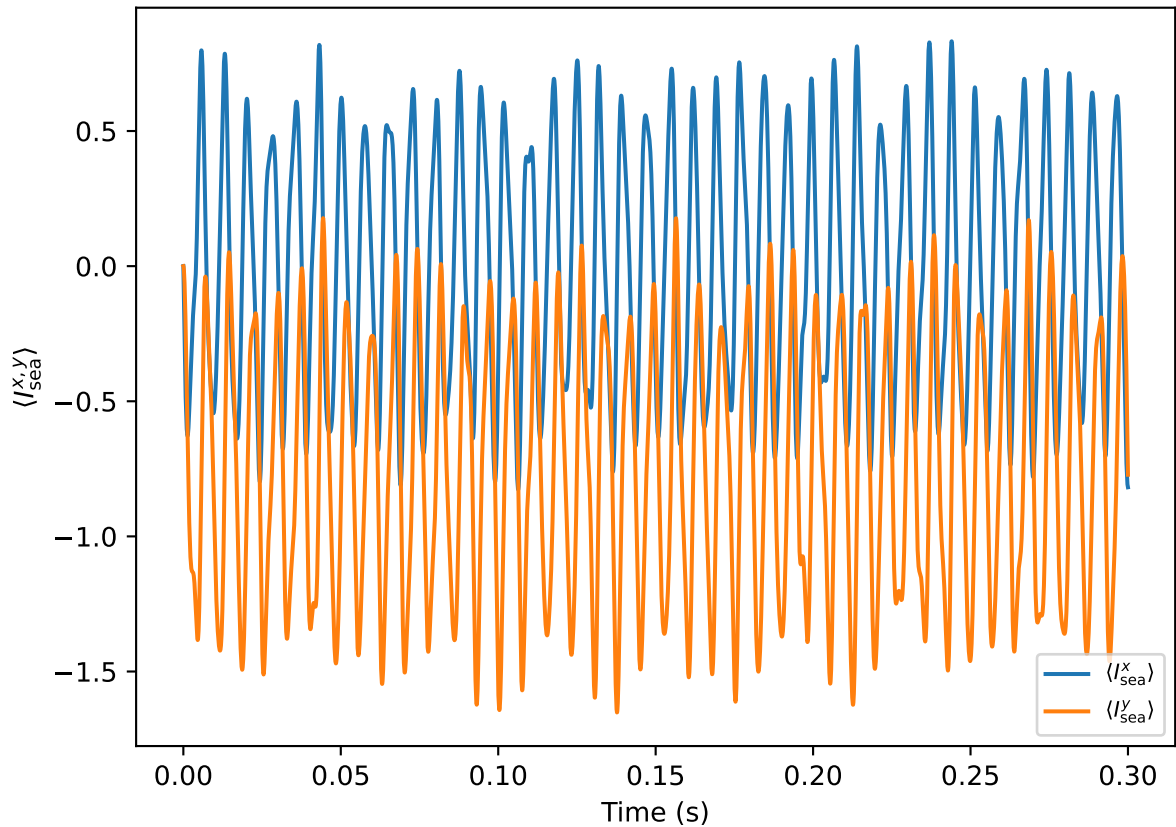
$\delta_A = +187.5$ Hz



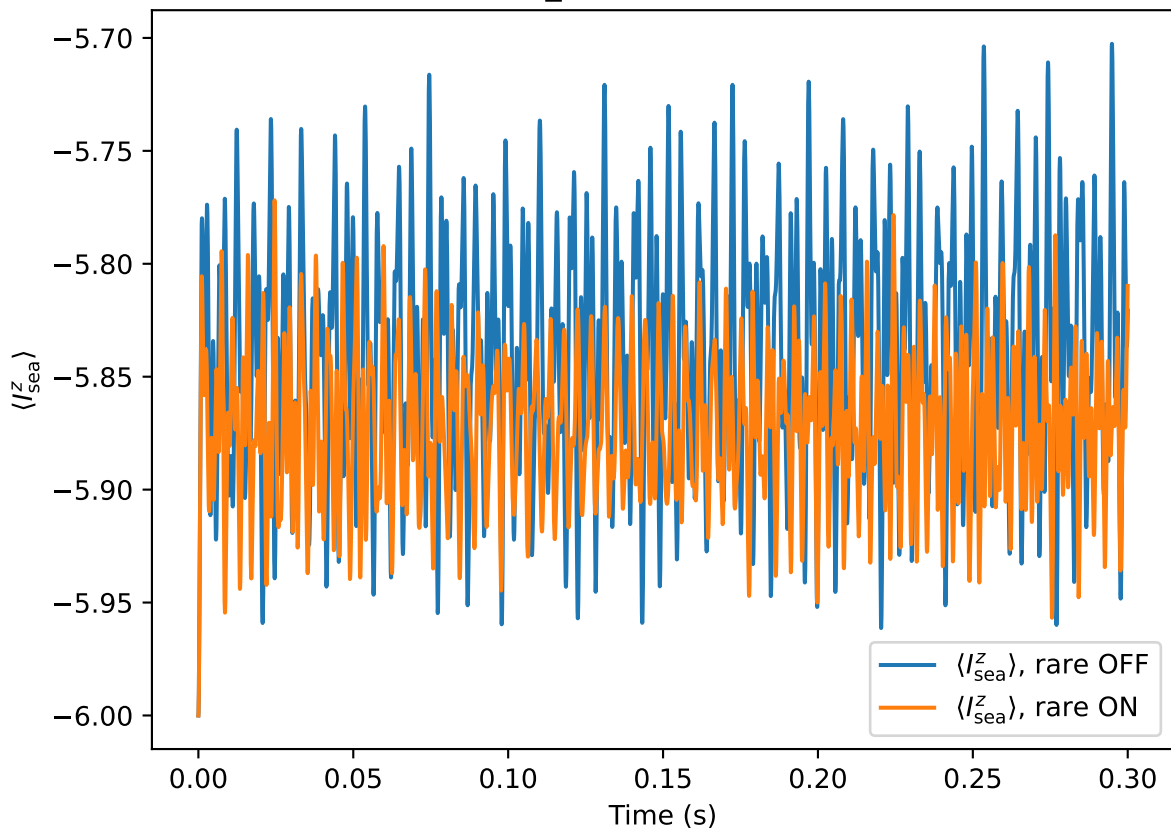
$\delta_A = +187.5$ Hz (pseudo T_1 envelope)



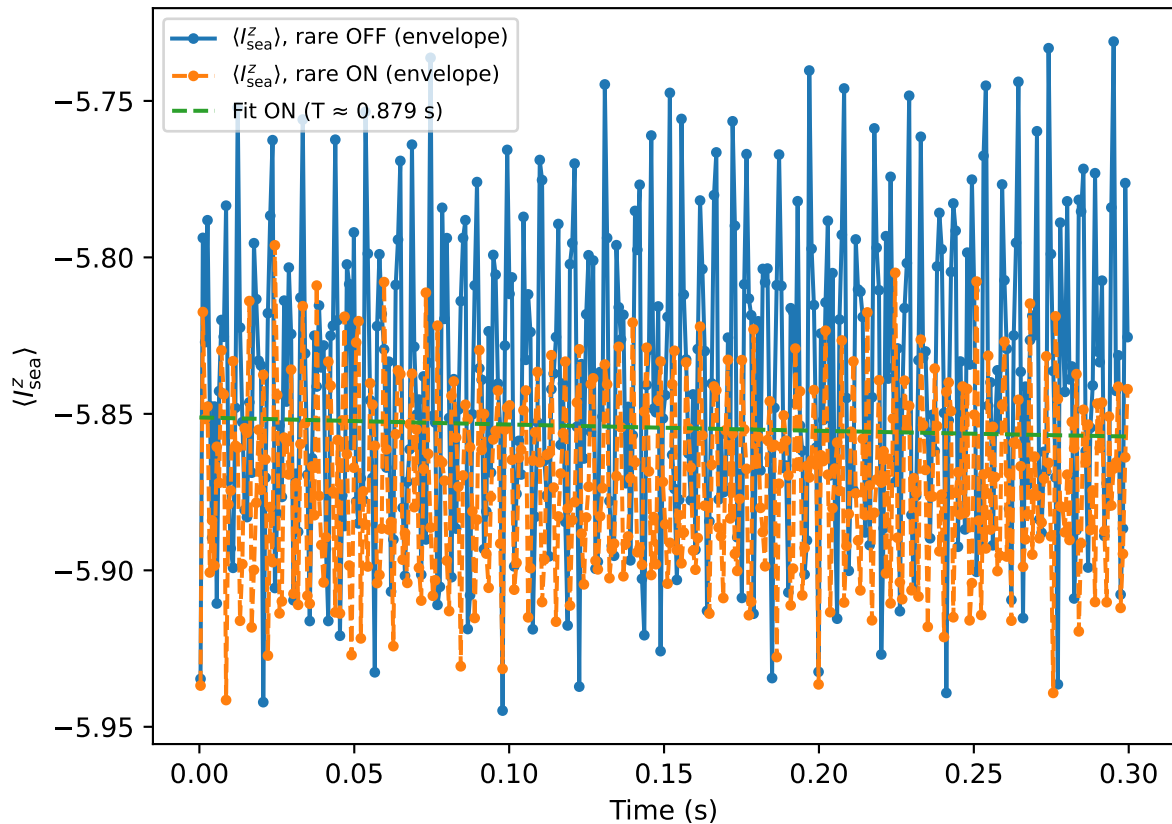
$\delta_A = +187.5$ Hz (rare drive OFF)



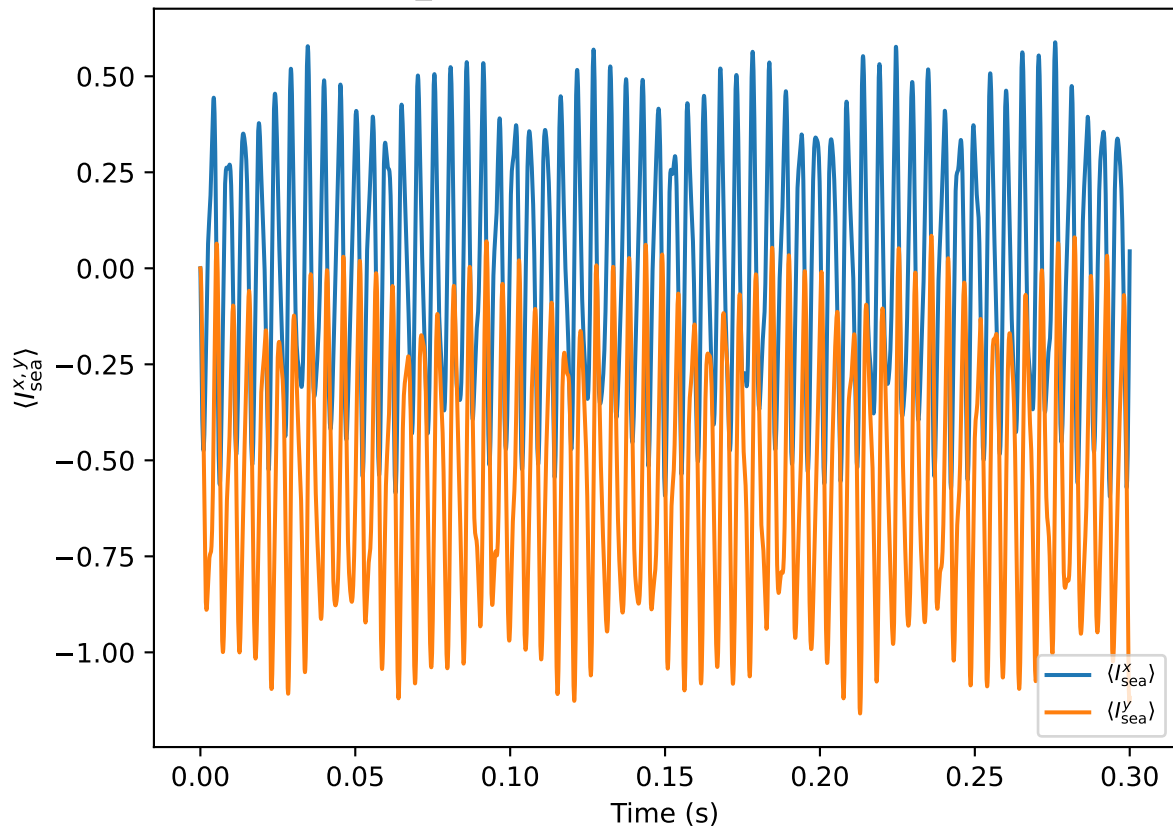
$\delta_A = +250.0$ Hz



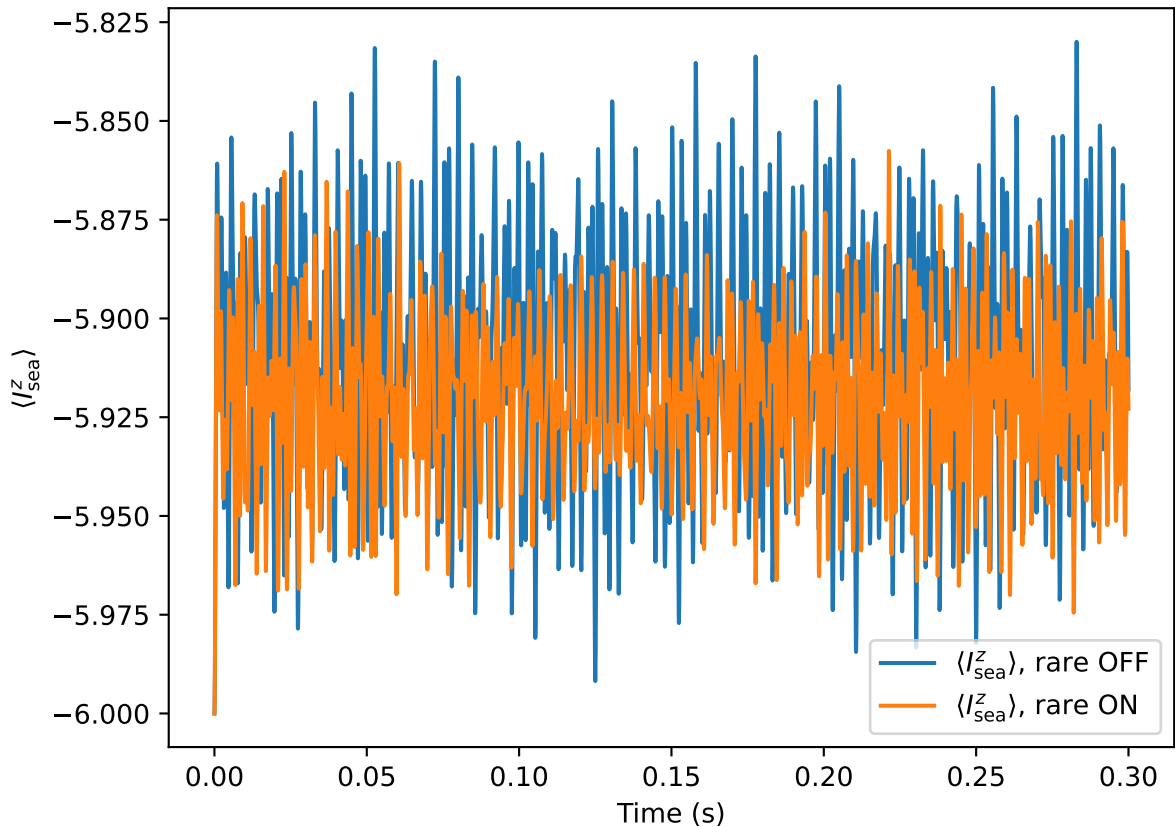
$\delta_A = +250.0$ Hz (pseudo T_1 envelope)



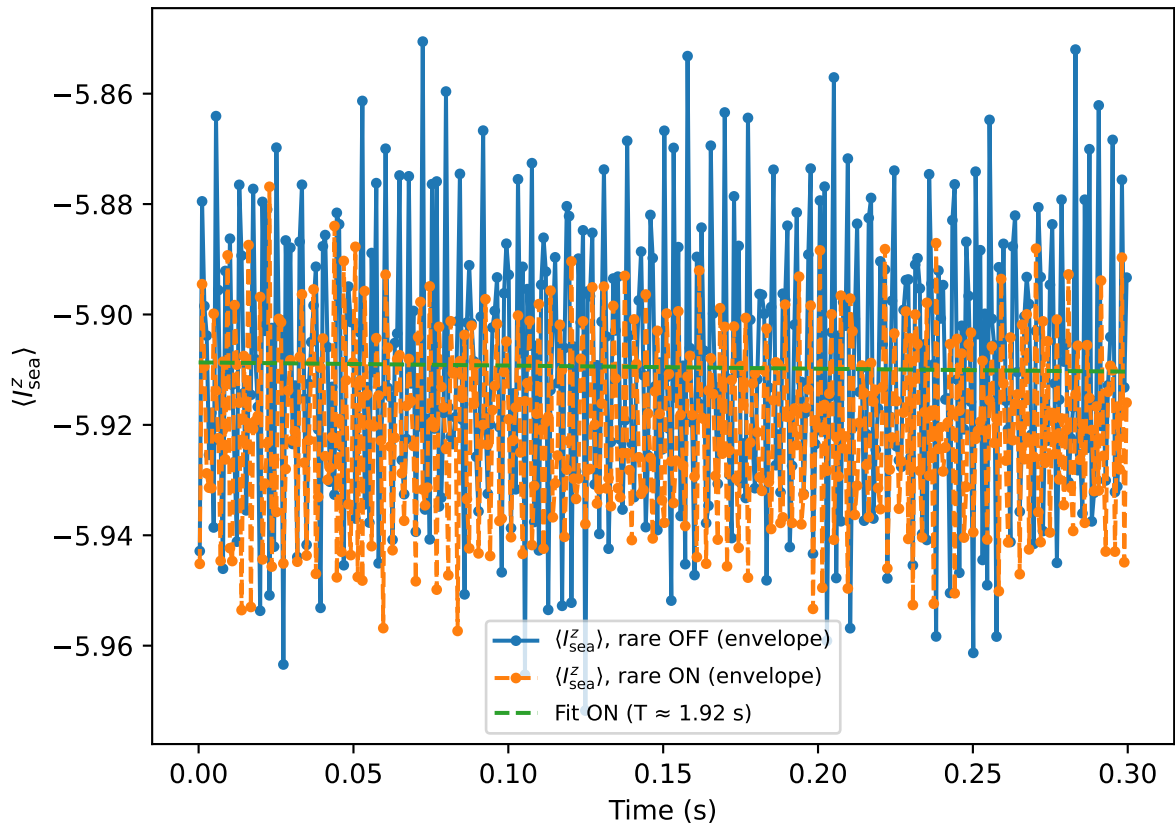
$\delta_A = +250.0$ Hz (rare drive OFF)



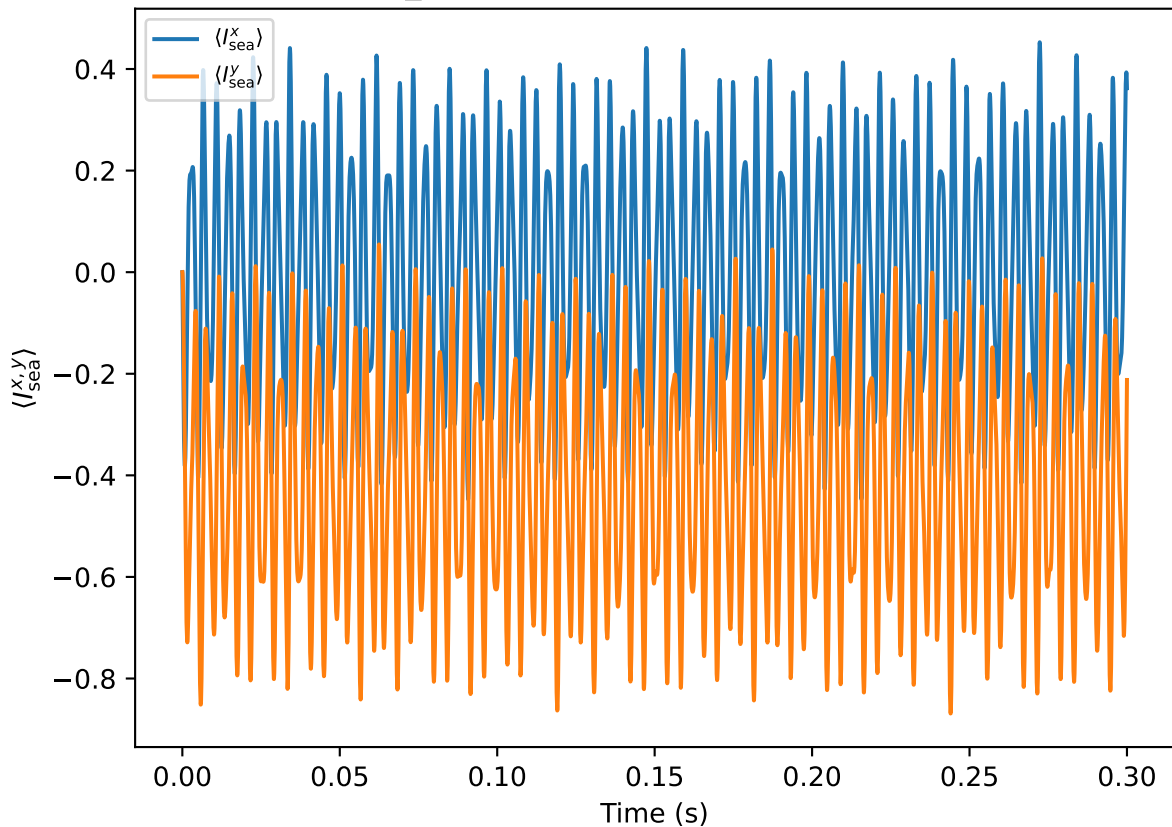
$\delta_A = +312.5$ Hz



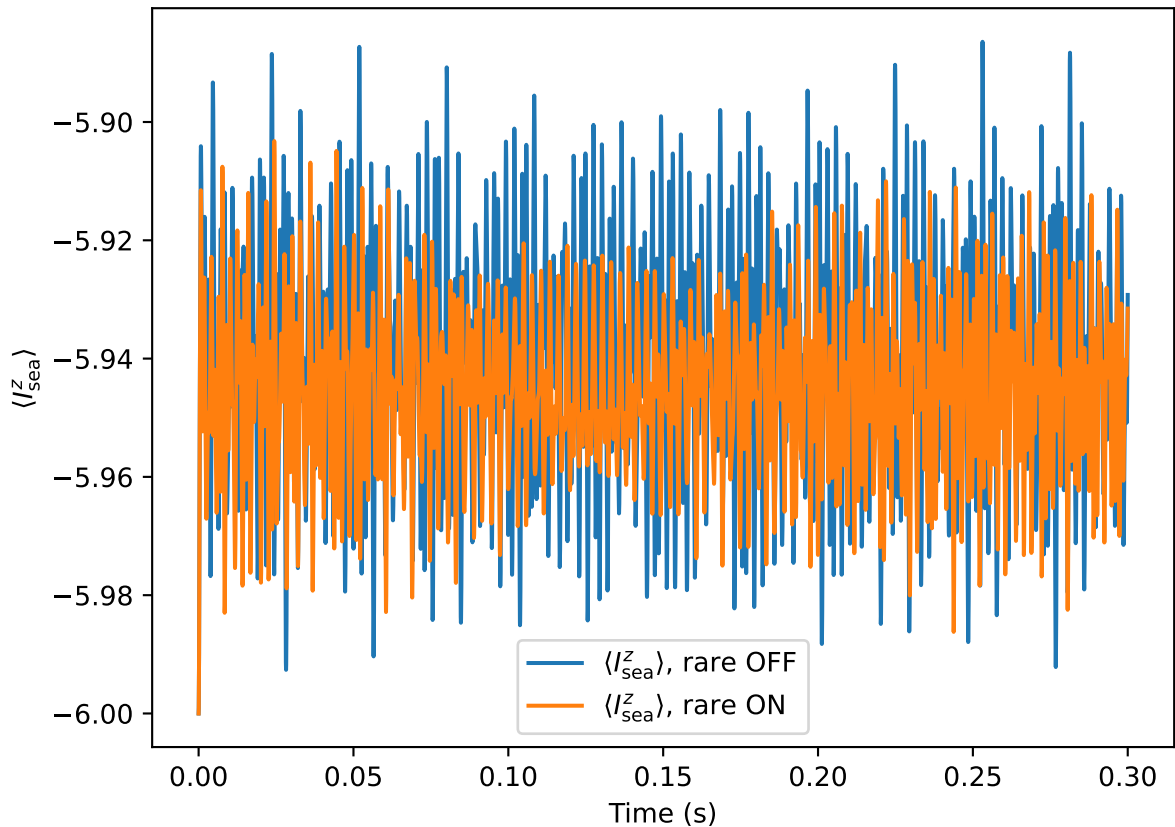
$\delta_A = +312.5$ Hz (pseudo T_1 envelope)



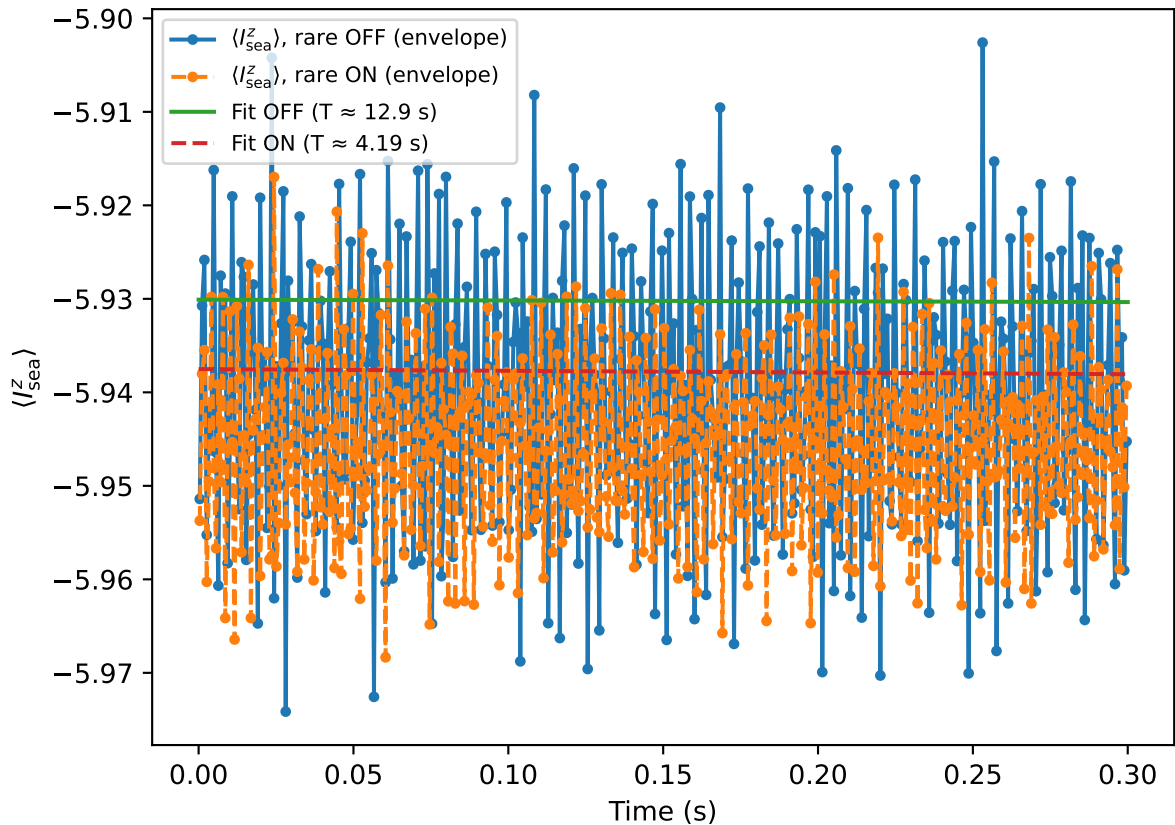
$\delta_A = +312.5$ Hz (rare drive OFF)



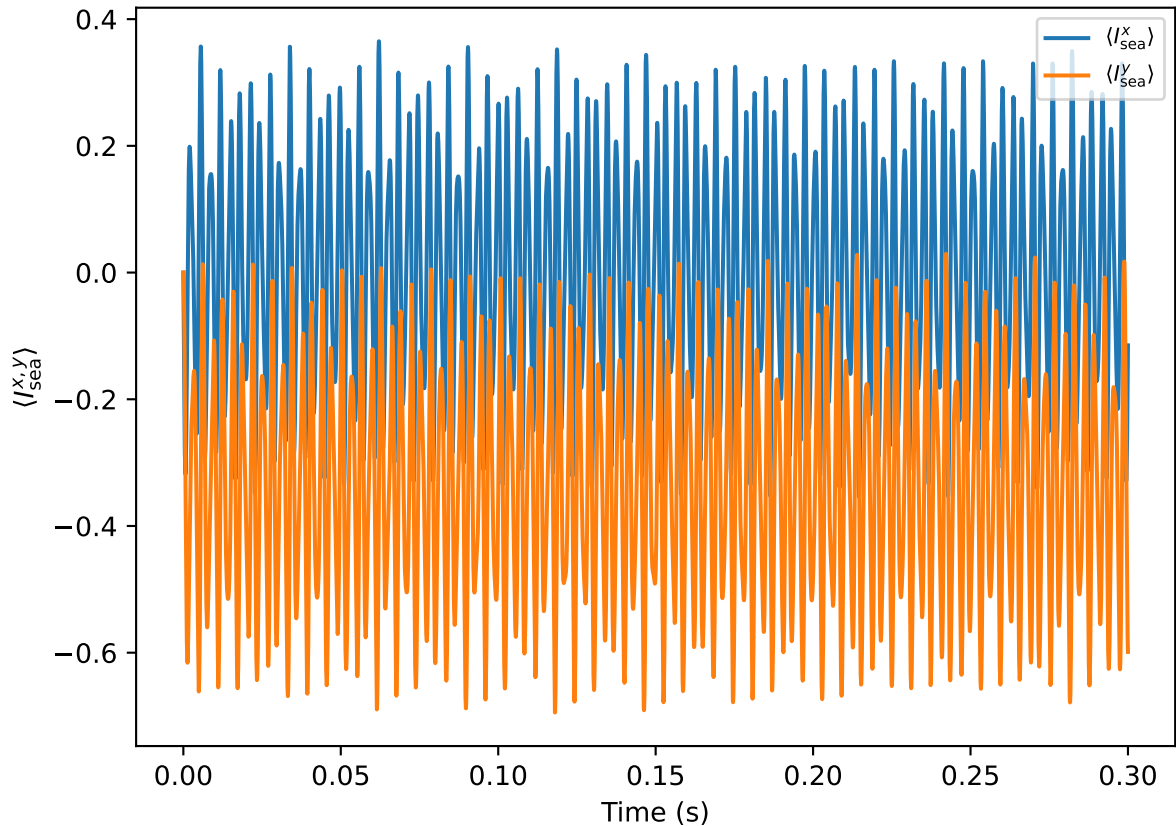
$\delta_A = +375.0$ Hz



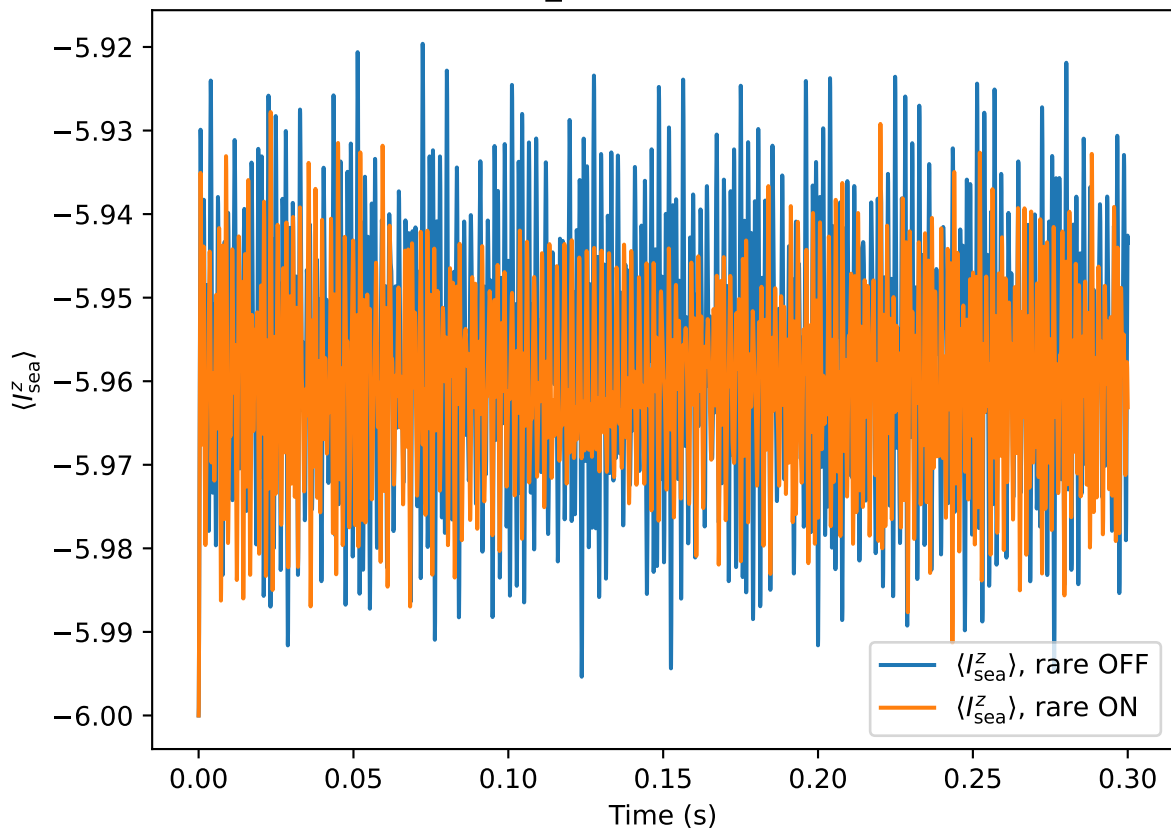
$\delta_A = +375.0$ Hz (pseudo T_1 envelope)



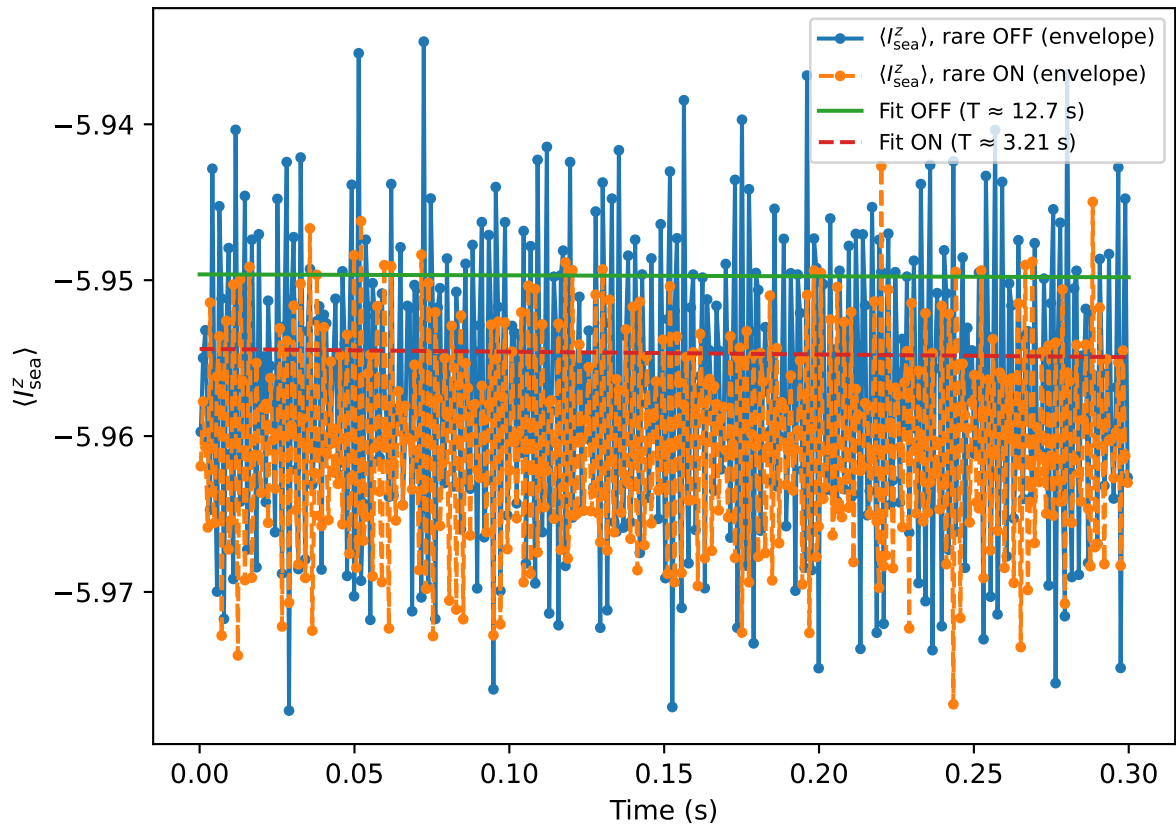
$\delta_A = +375.0$ Hz (rare drive OFF)



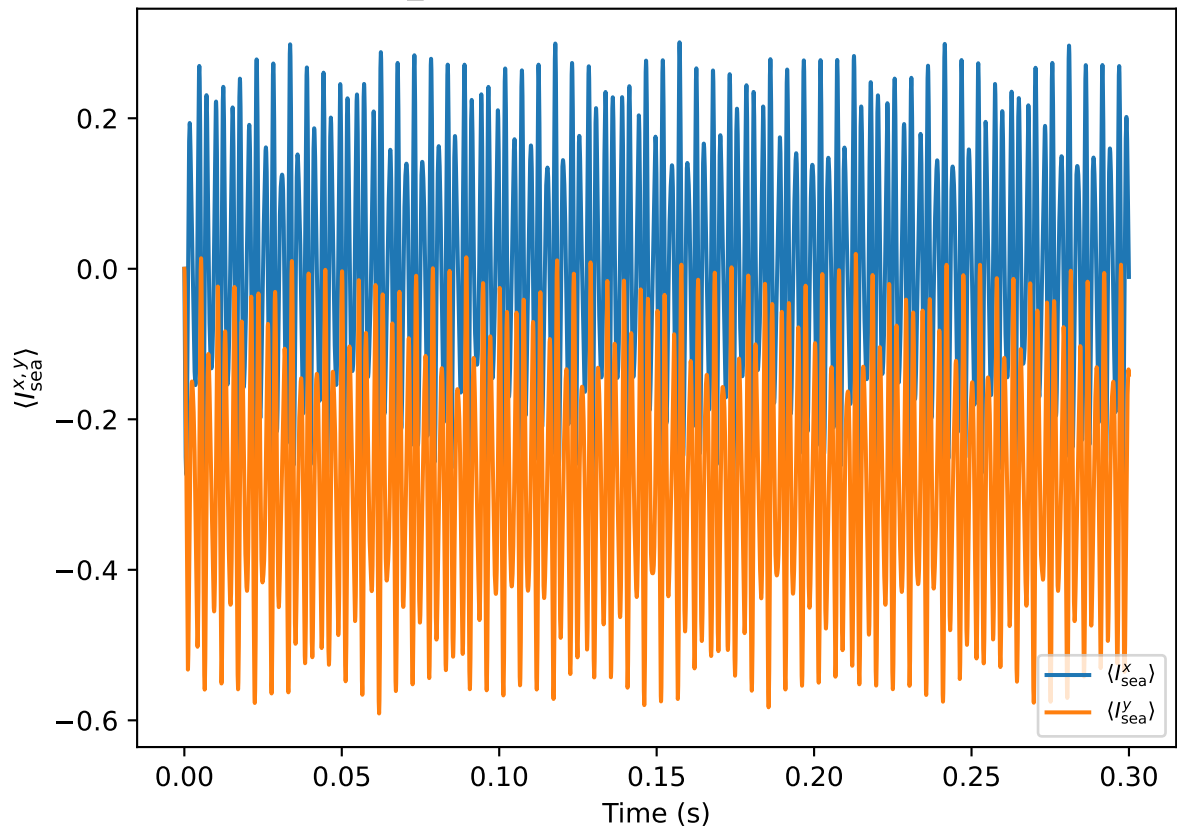
$\delta_A = +437.5$ Hz



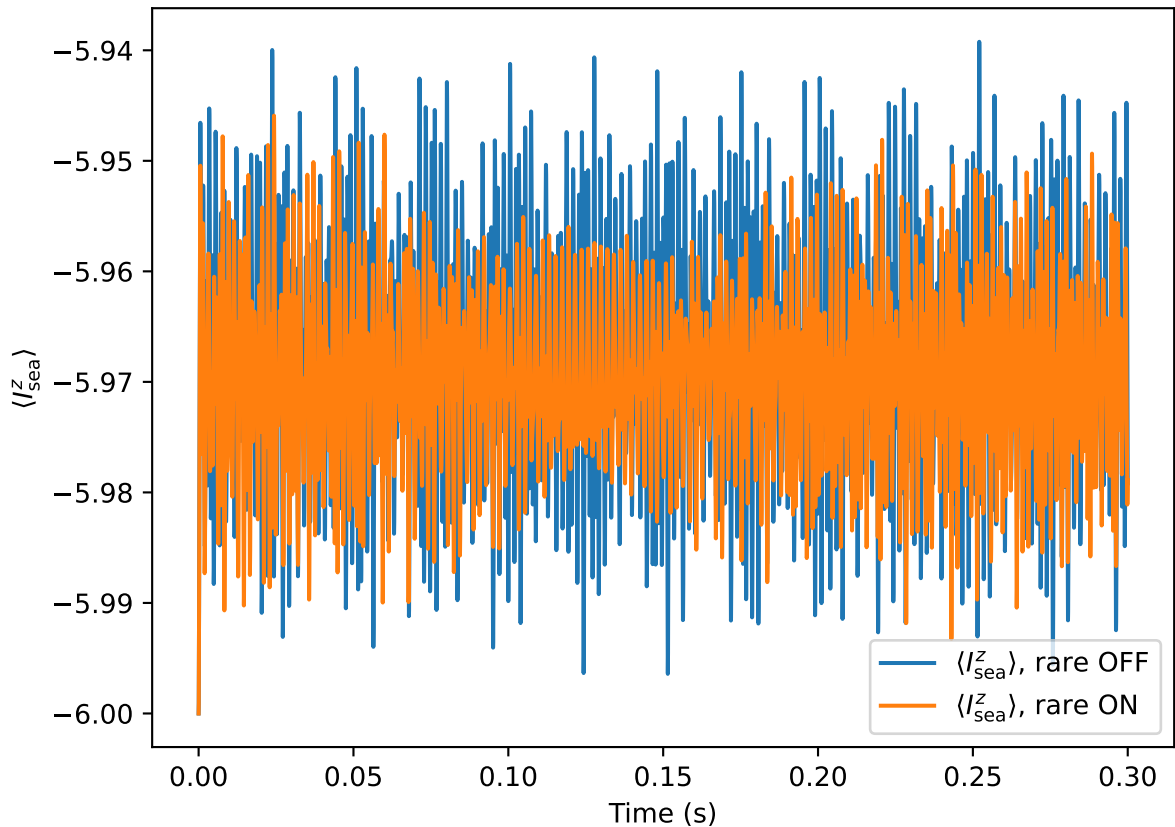
$\delta_A = +437.5$ Hz (pseudo T_1 envelope)



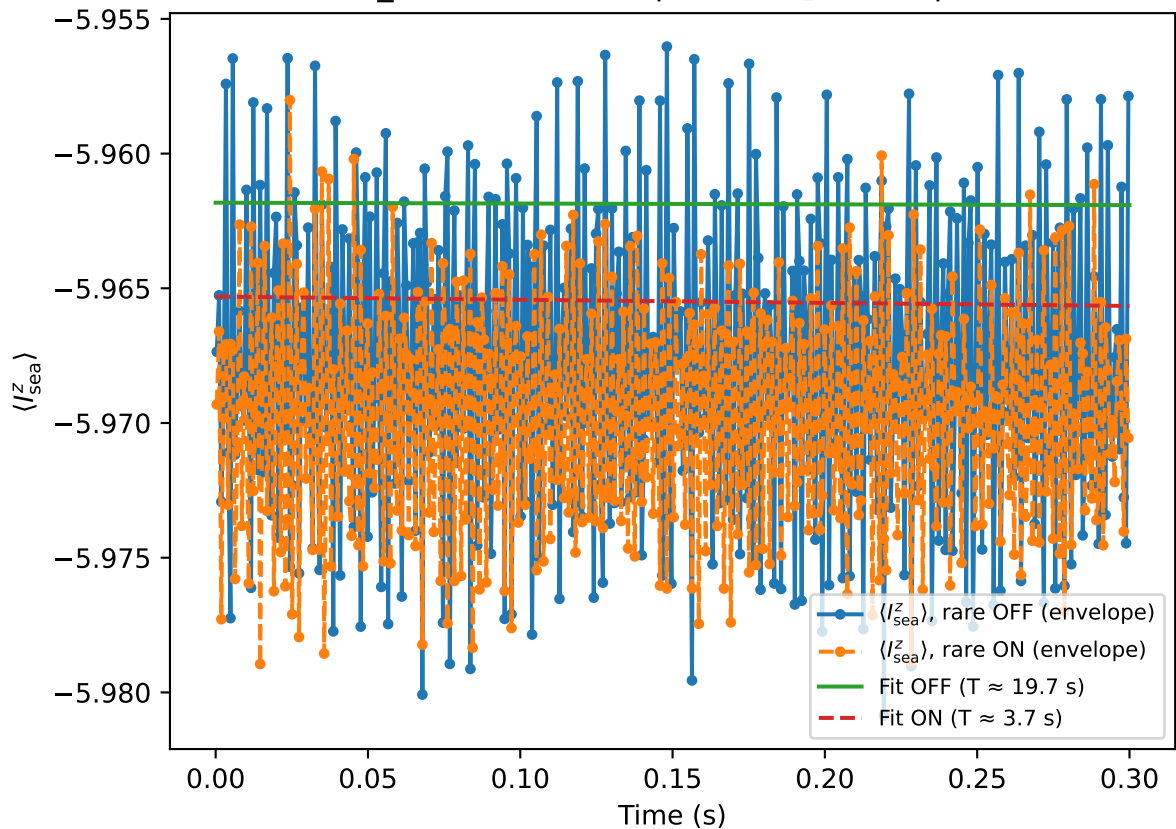
$\delta_A = +437.5$ Hz (rare drive OFF)



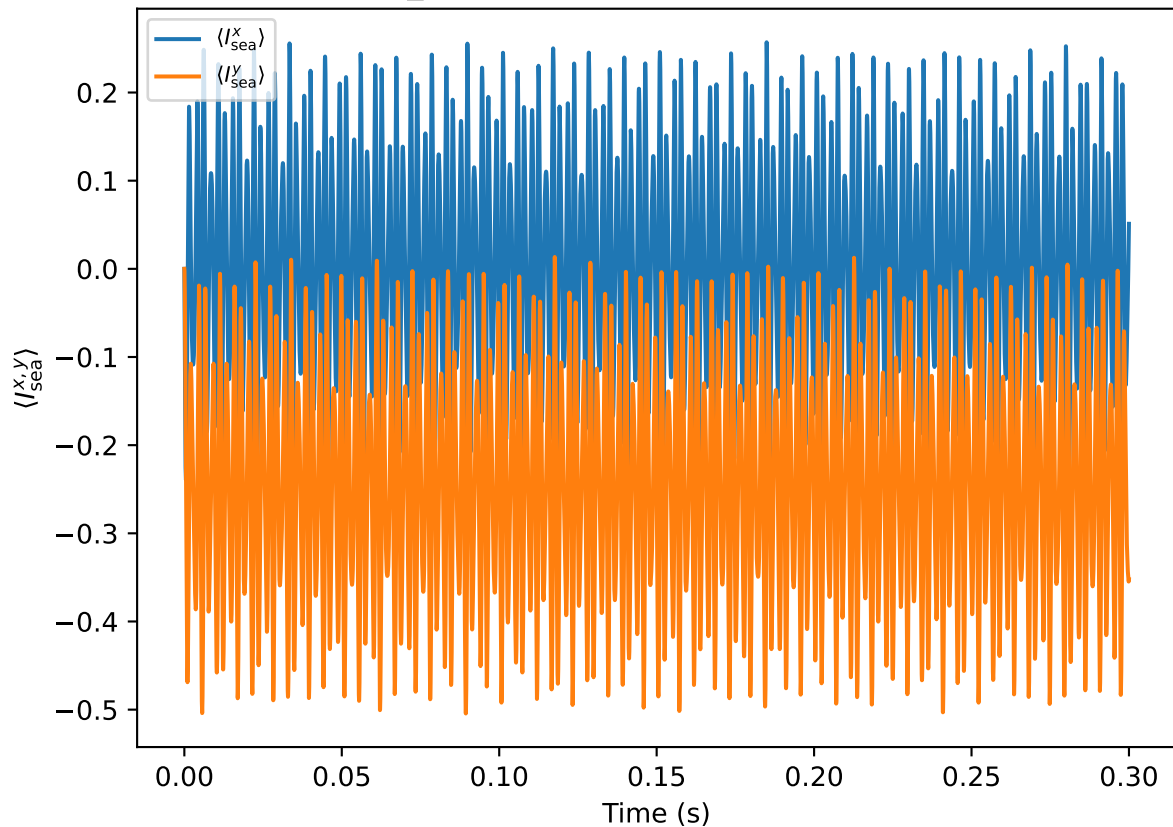
$\delta_A = +500.0$ Hz



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



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



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

delta_Hz	T_Iz_sea_off	T_Iz_sea_on

+0.0	NA	NA
+62.5	0.545	0.889
+125.0	3.84	0.311
+187.5	10.7	0.704
+250.0	NA	0.879
+312.5	NA	1.92
+375.0	12.9	4.19
+437.5	12.7	3.21
+500.0	19.7	3.7