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Sea detuning sweep report

Global parameters (constant across sweep):
  f_Az (sea Larmor)     = 700.000 Hz
  f_Rz (rare Larmor)    = 1100.000 Hz
  f1A (sea Rabi)        = 100.000 Hz
  f1R (rare Rabi)       = 50.000 Hz
  gamma_sea             = 4.200
  gamma_rare            = 6.600
  B0_common             = 1.047e+03
  B1_sea                = 1.496e+02
  B1_rare               = 4.760e+01
  t_final               = 1.000 s
  steps                 = 2000
  n_sea                 = 12
  phi_sea               = 0.000 rad
  phi_rare              = 0.000 rad

Sea detunings (Δ_A = f_Az - f_rf,A) in Hz:
  -300.0, -200.0, -100.0, +0.0, +100.0, +200.0, +300.0
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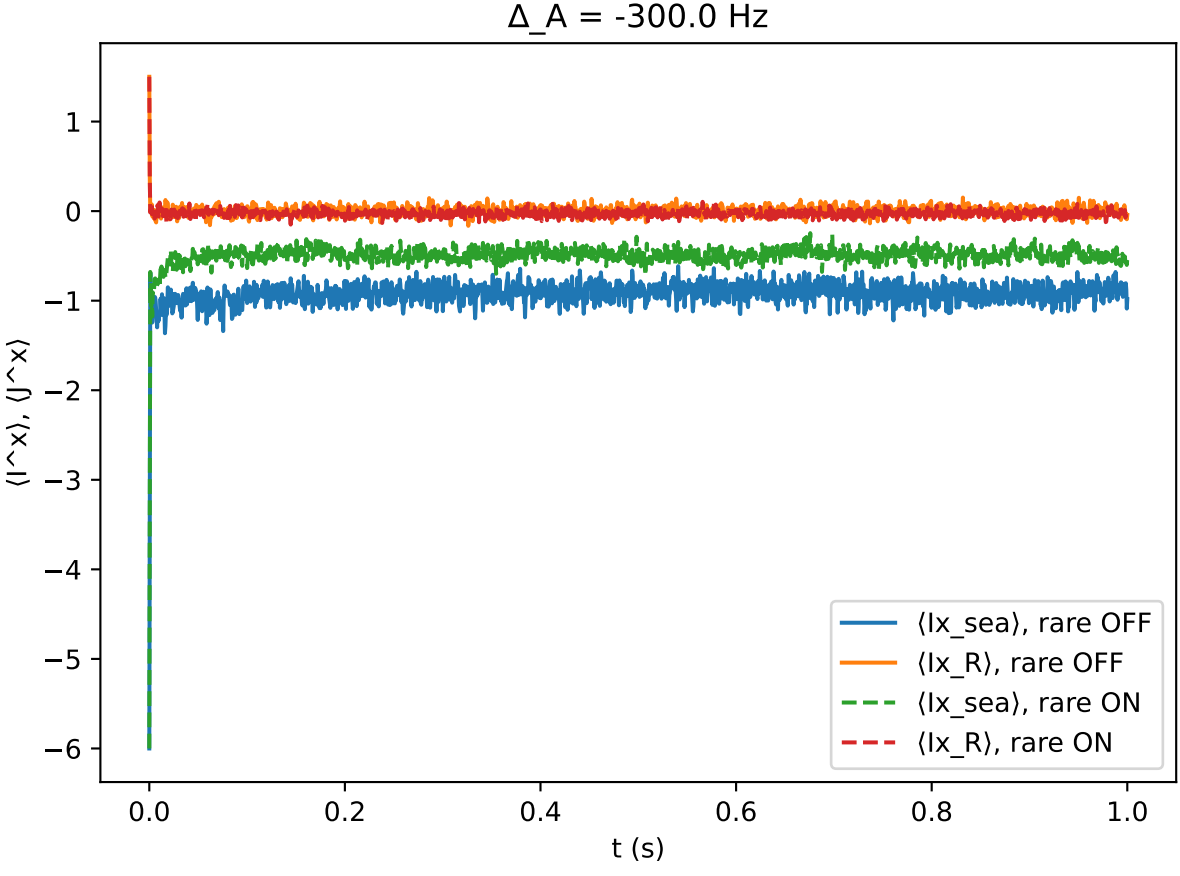
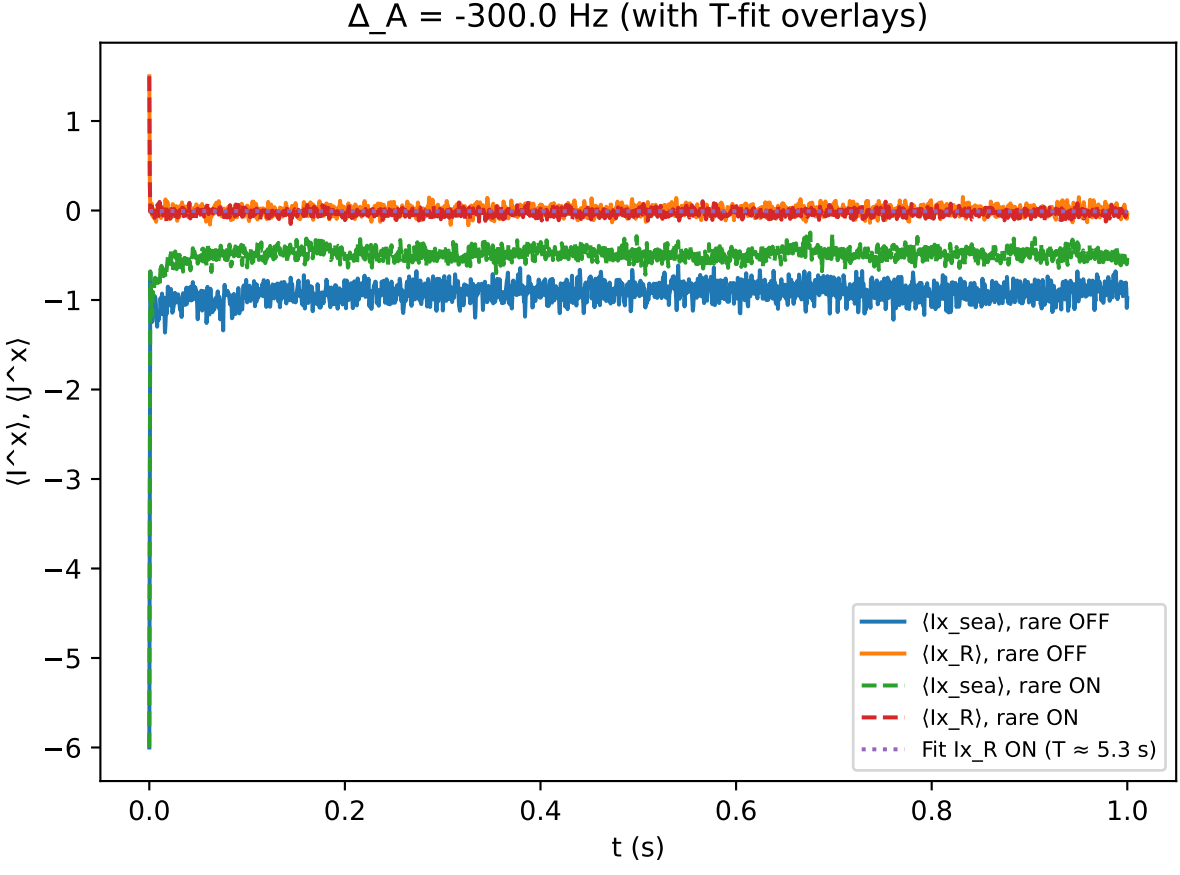
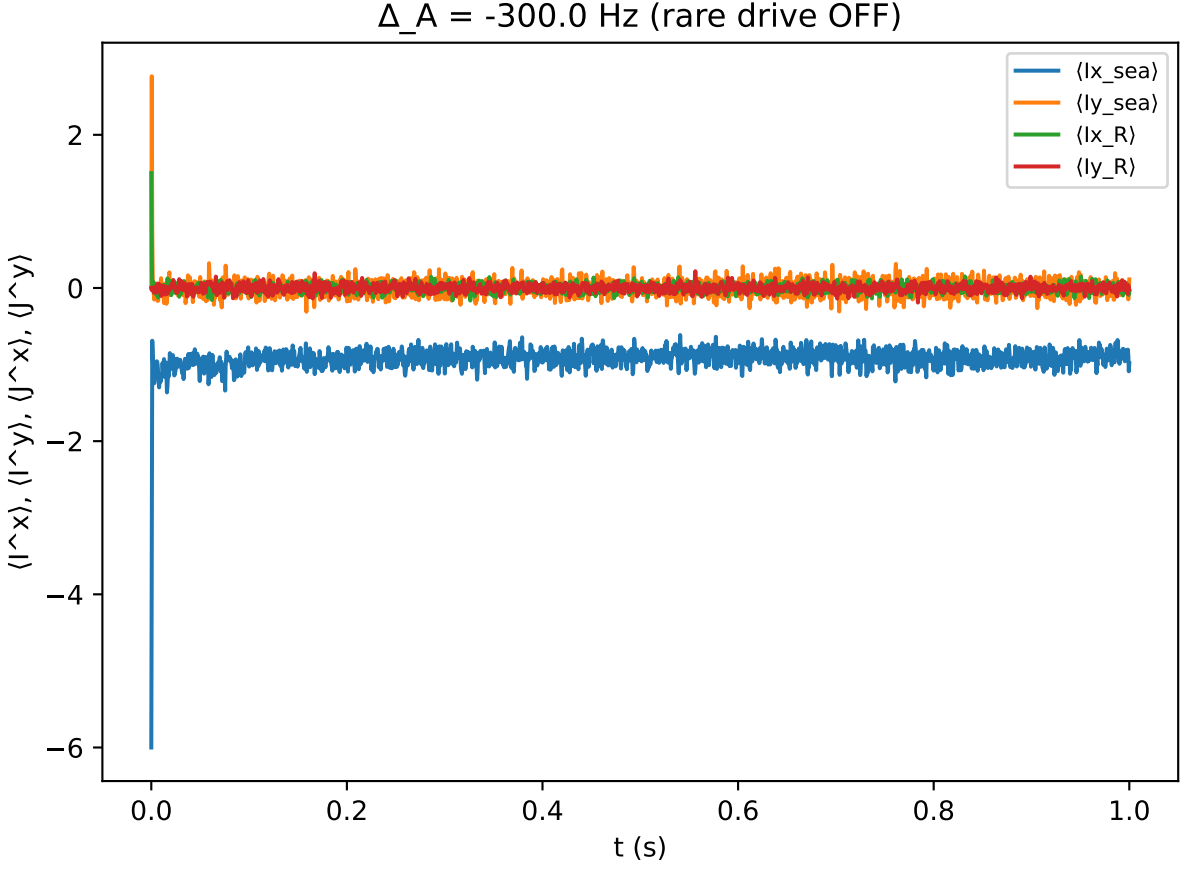
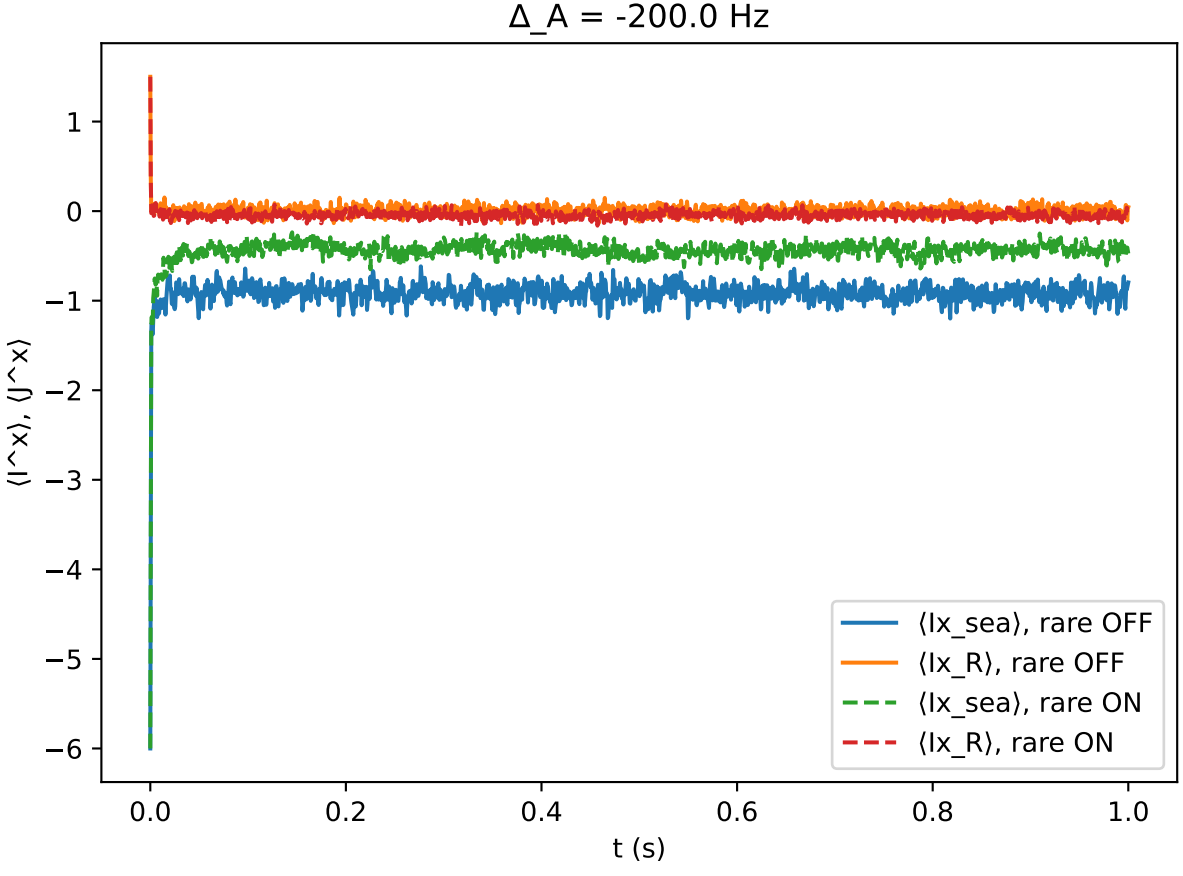
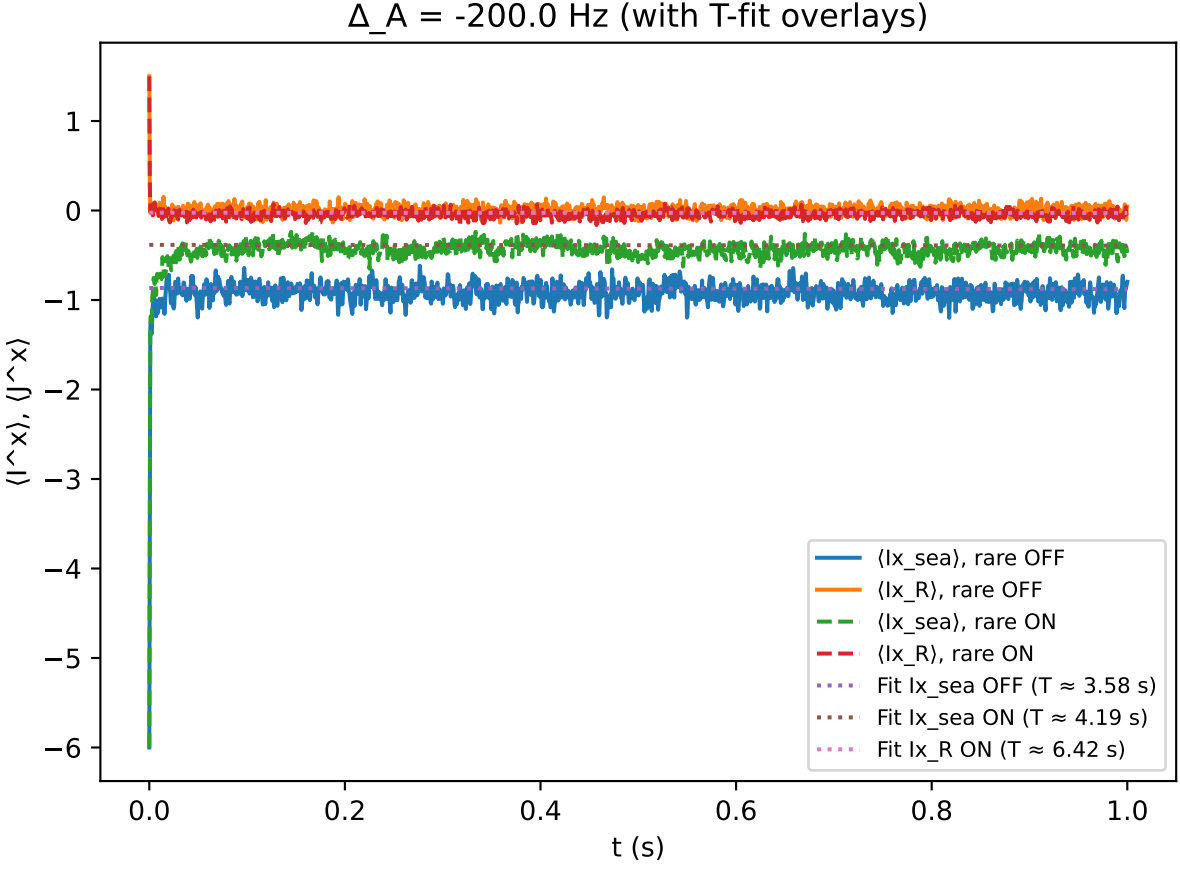
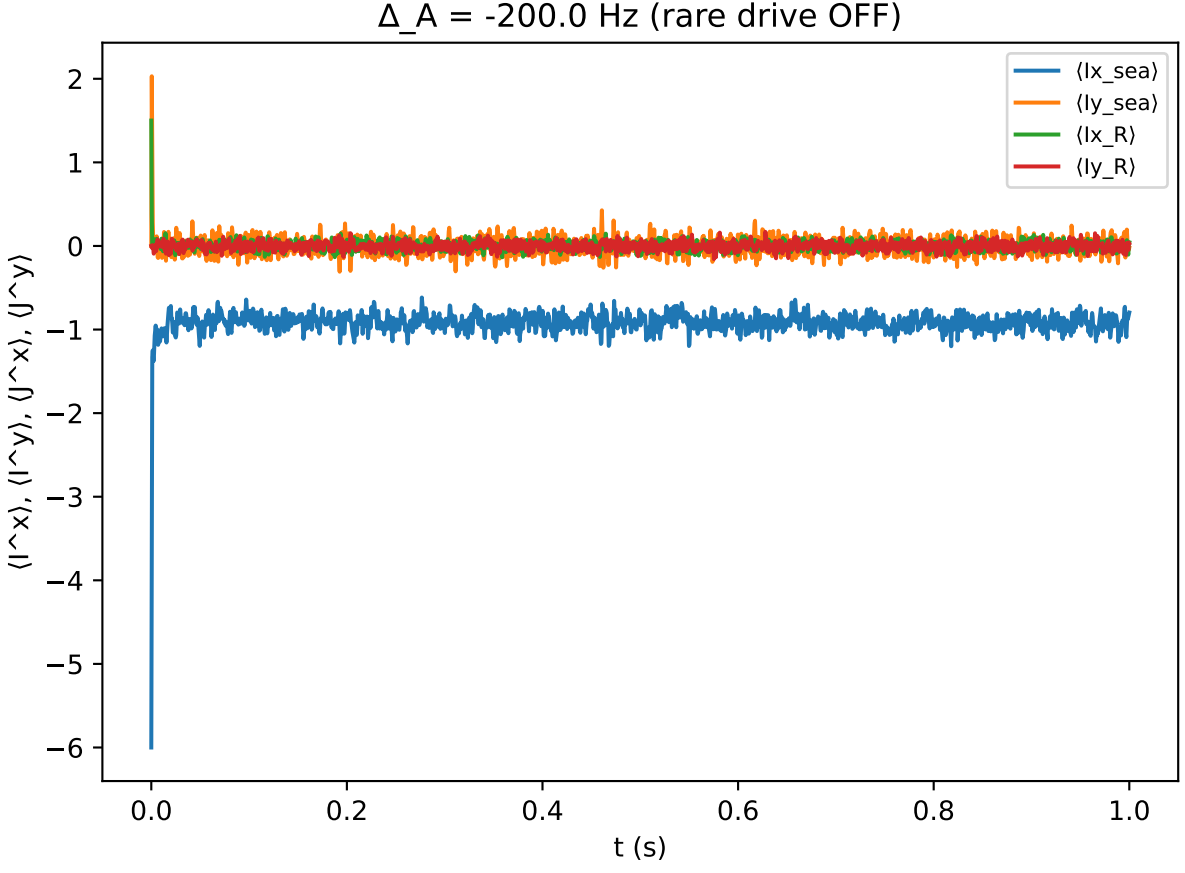

Δ_A = -300.0 Hz
⟨I^x⟩, ⟨J^x⟩
t (s)
⟨Ix_sea⟩, rare OFF
⟨Ix_R⟩, rare OFF
⟨Ix_sea⟩, rare ON
⟨Ix_R⟩, rare ON

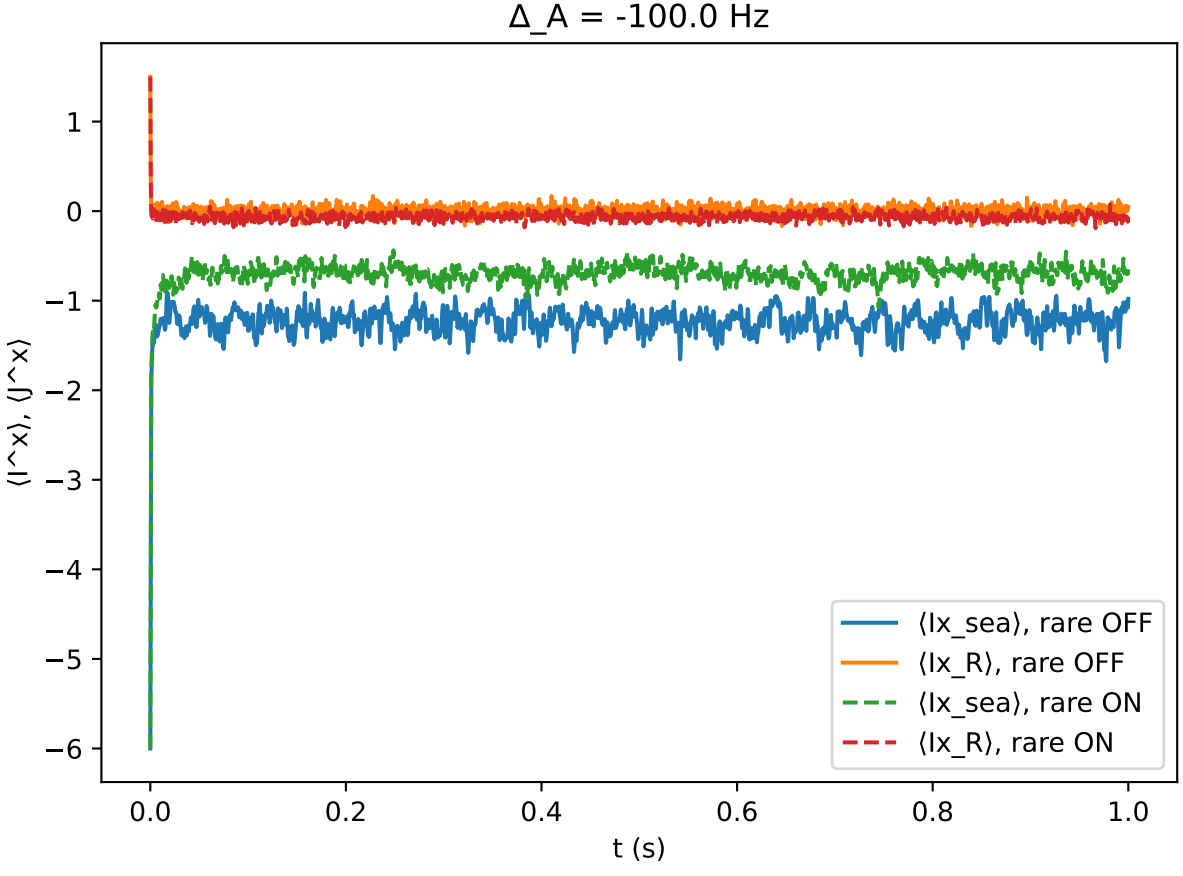

Δ_A = -300.0 Hz (with T-fit overlays)
⟨I^x⟩, ⟨J^x⟩
t (s)
1
0
−1
−2
−3
−4
−5
−6
0.0
0.2
0.4
0.6
0.8
1.0
⟨Ix_sea⟩, rare OFF
⟨Ix_R⟩, rare OFF
⟨Ix_sea⟩, rare ON
⟨Ix_R⟩, rare ON
Fit Ix_R ON (T ≈ 5.3 s)

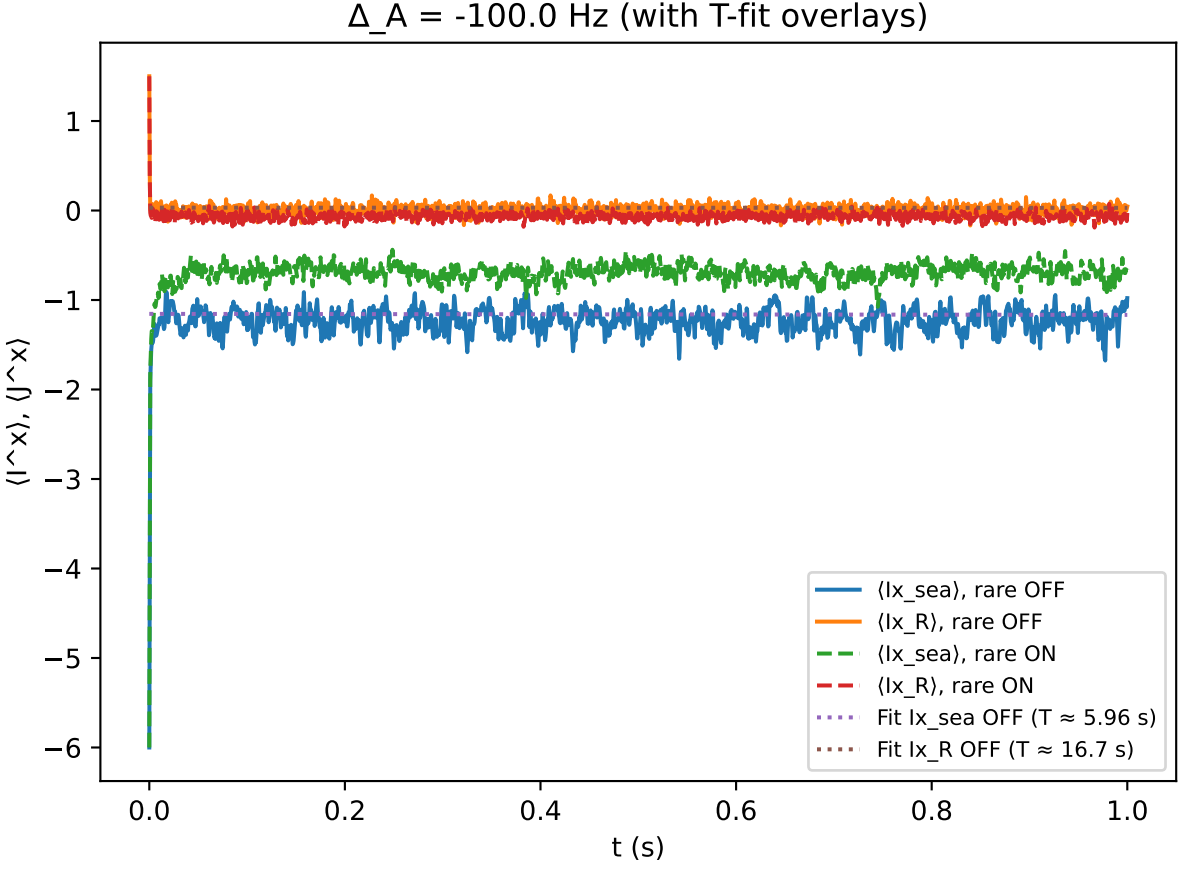

Δ_A = -300.0 Hz (rare drive OFF)
⟨Ix_sea⟩
⟨Iy_sea⟩
⟨Ix_R⟩
⟨Iy_R⟩
⟨I^x⟩, ⟨I^y⟩, ⟨J^x⟩, ⟨J^y⟩
2
0
−2
−4
−6
0.0
0.2
0.4
0.6
0.8
1.0
t (s)

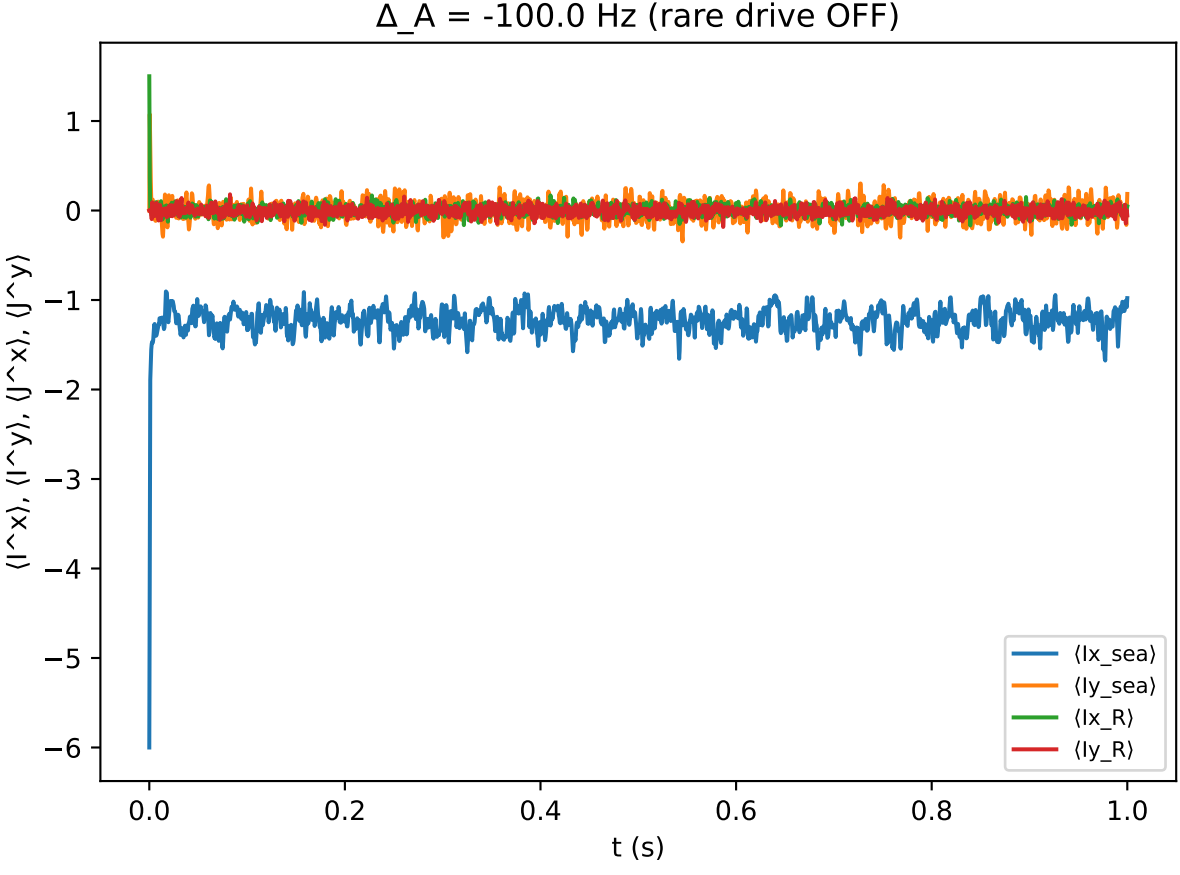

Δ_A = -200.0 Hz
⟨I^x⟩, ⟨J^x⟩
t (s)
⟨Ix_sea⟩, rare OFF
⟨Ix_R⟩, rare OFF
⟨Ix_sea⟩, rare ON
⟨Ix_R⟩, rare ON

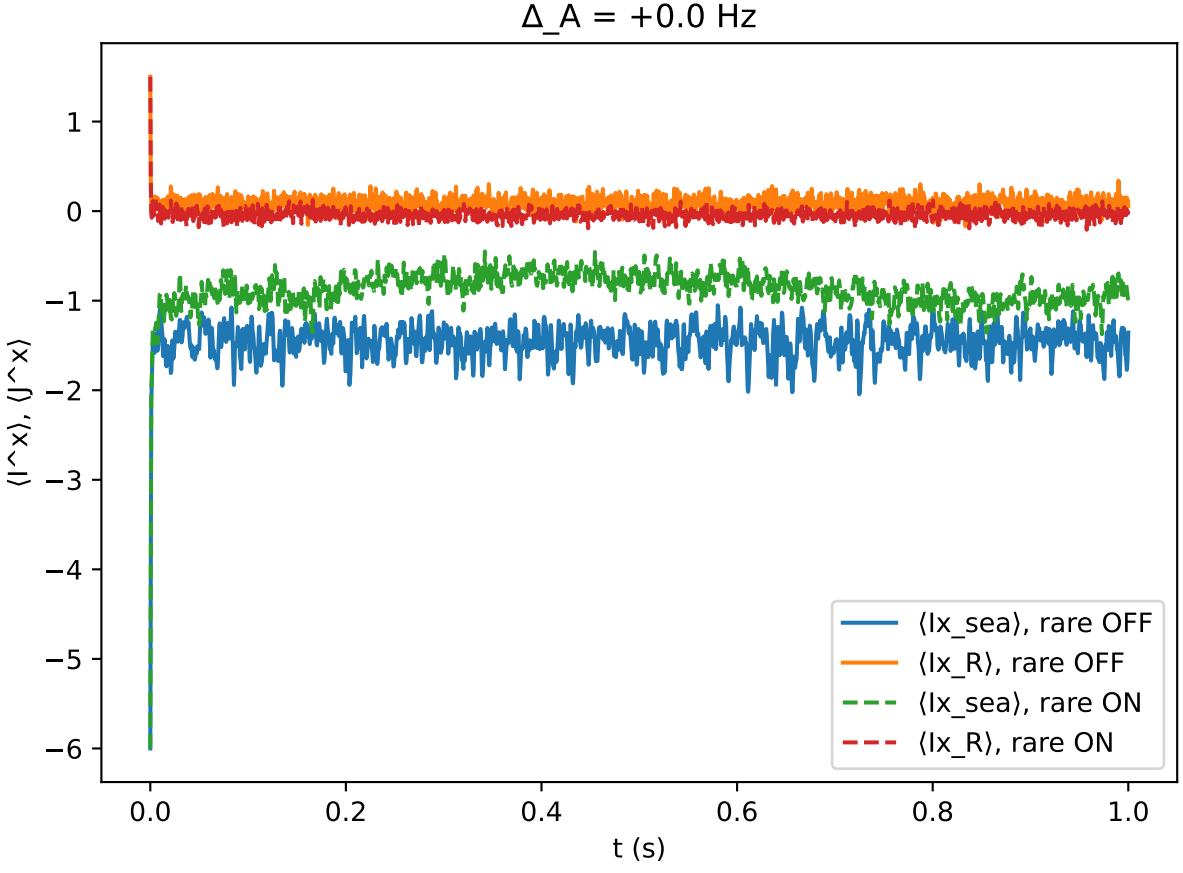

Δ_A = -200.0 Hz (with T-fit overlays)
⟨I^x⟩, ⟨J^x⟩
t (s)
1
0
−1
−2
−3
−4
−5
−6
0.0
0.2
0.4
0.6
0.8
1.0
⟨Ix_sea⟩, rare OFF
⟨Ix_R⟩, rare OFF
⟨Ix_sea⟩, rare ON
⟨Ix_R⟩, rare ON
Fit Ix_sea OFF (T ≈ 3.58 s)
Fit Ix_sea ON (T ≈ 4.19 s)
Fit Ix_R ON (T ≈ 6.42 s)

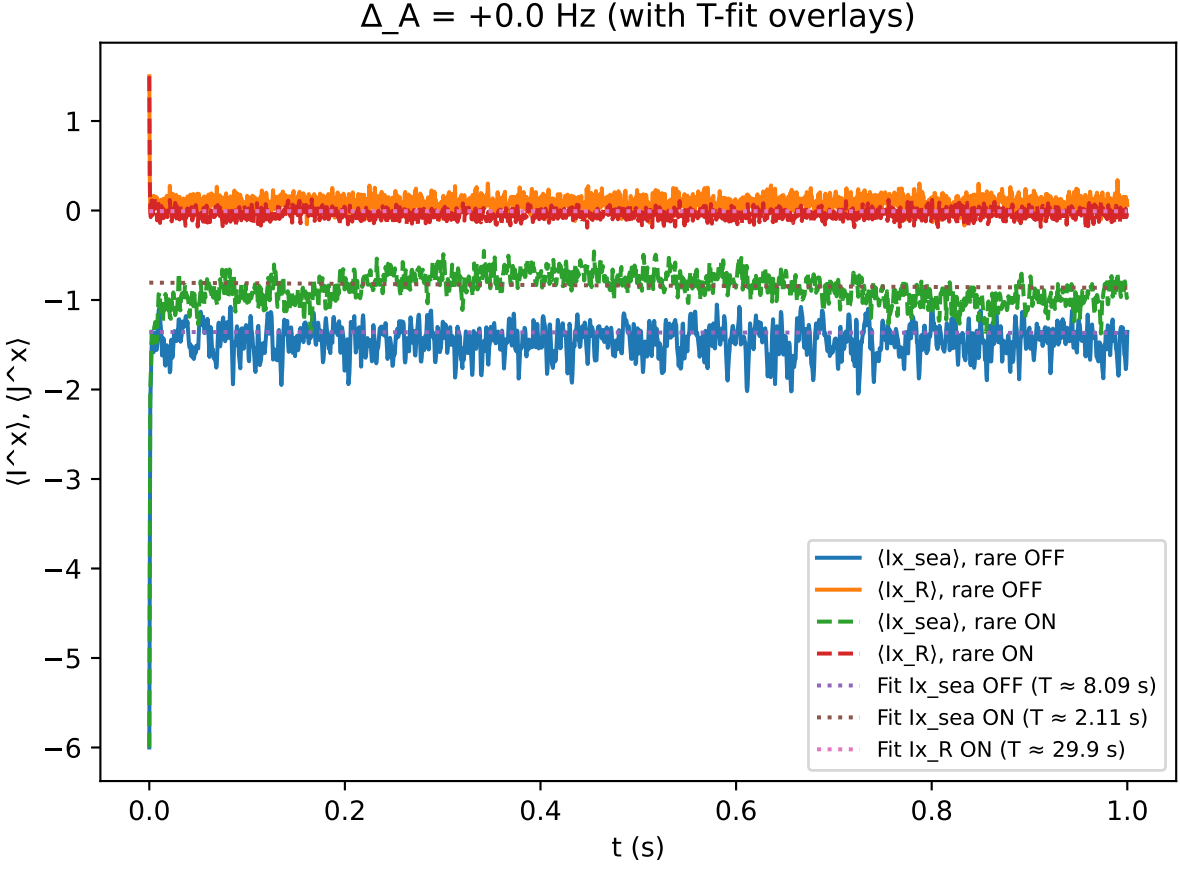

Δ_A = -200.0 Hz (rare drive OFF)
⟨Ix_sea⟩
⟨Iy_sea⟩
⟨Ix_R⟩
⟨Iy_R⟩
⟨I^x⟩, ⟨I^y⟩, ⟨J^x⟩, ⟨J^y⟩
t (s)
2
1
0
−1
−2
−3
−4
−5
−6
0.0
0.2
0.4
0.6
0.8
1.0

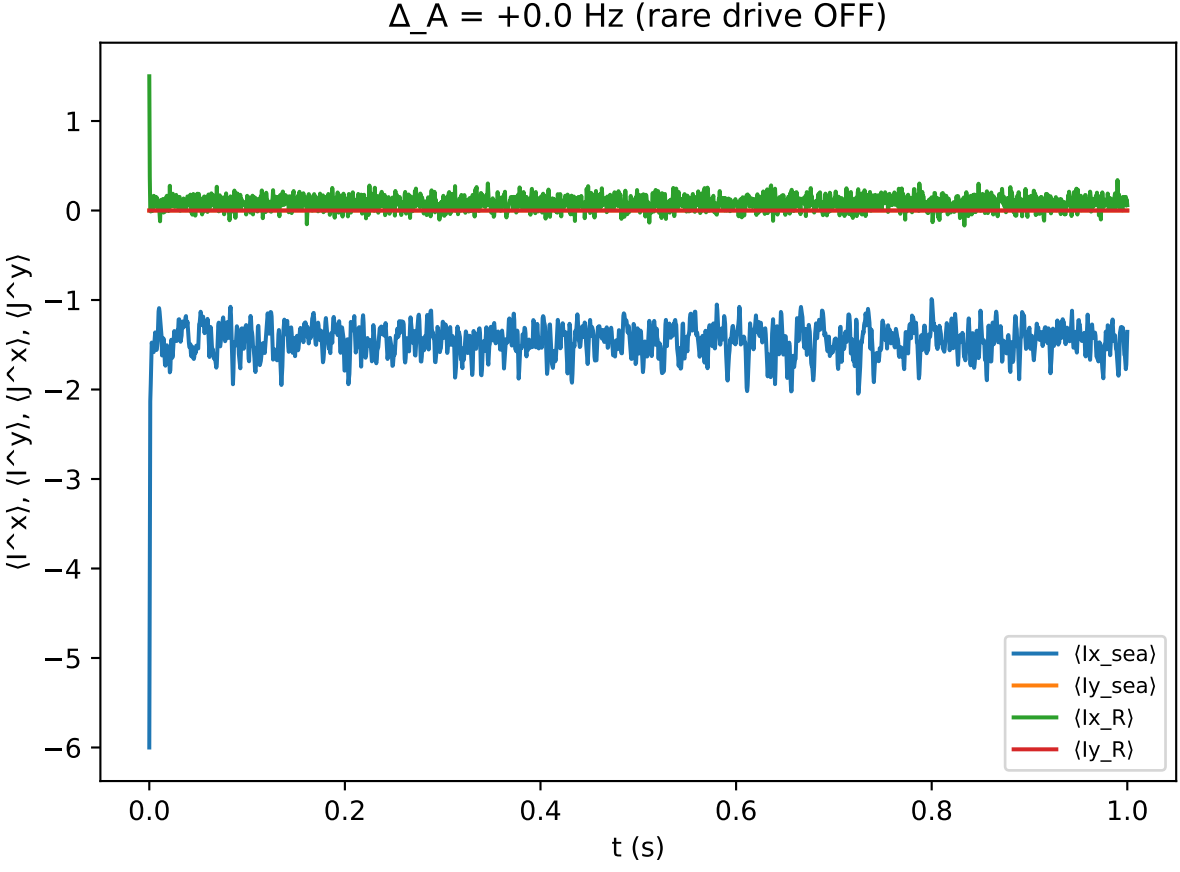

Δ_A = -100.0 Hz
⟨I^x⟩, ⟨J^x⟩
t (s)
⟨Ix_sea⟩, rare OFF
⟨Ix_R⟩, rare OFF
⟨Ix_sea⟩, rare ON
⟨Ix_R⟩, rare ON

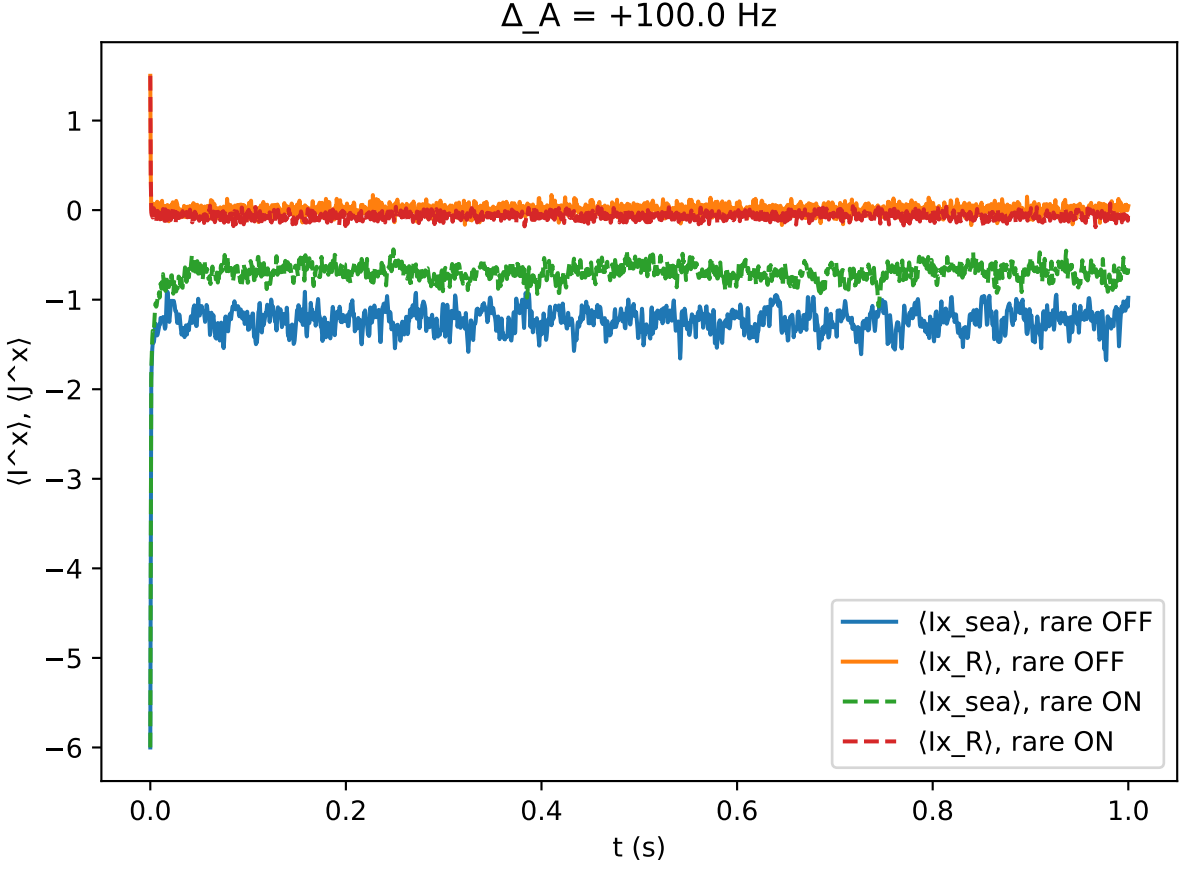

Δ_A = -100.0 Hz (with T-fit overlays)
⟨I^x⟩, ⟨J^x⟩
t (s)
⟨Ix_sea⟩, rare OFF
⟨Ix_R⟩, rare OFF
⟨Ix_sea⟩, rare ON
⟨Ix_R⟩, rare ON
Fit Ix_sea OFF (T ≈ 5.96 s)
Fit Ix_R OFF (T ≈ 16.7 s)

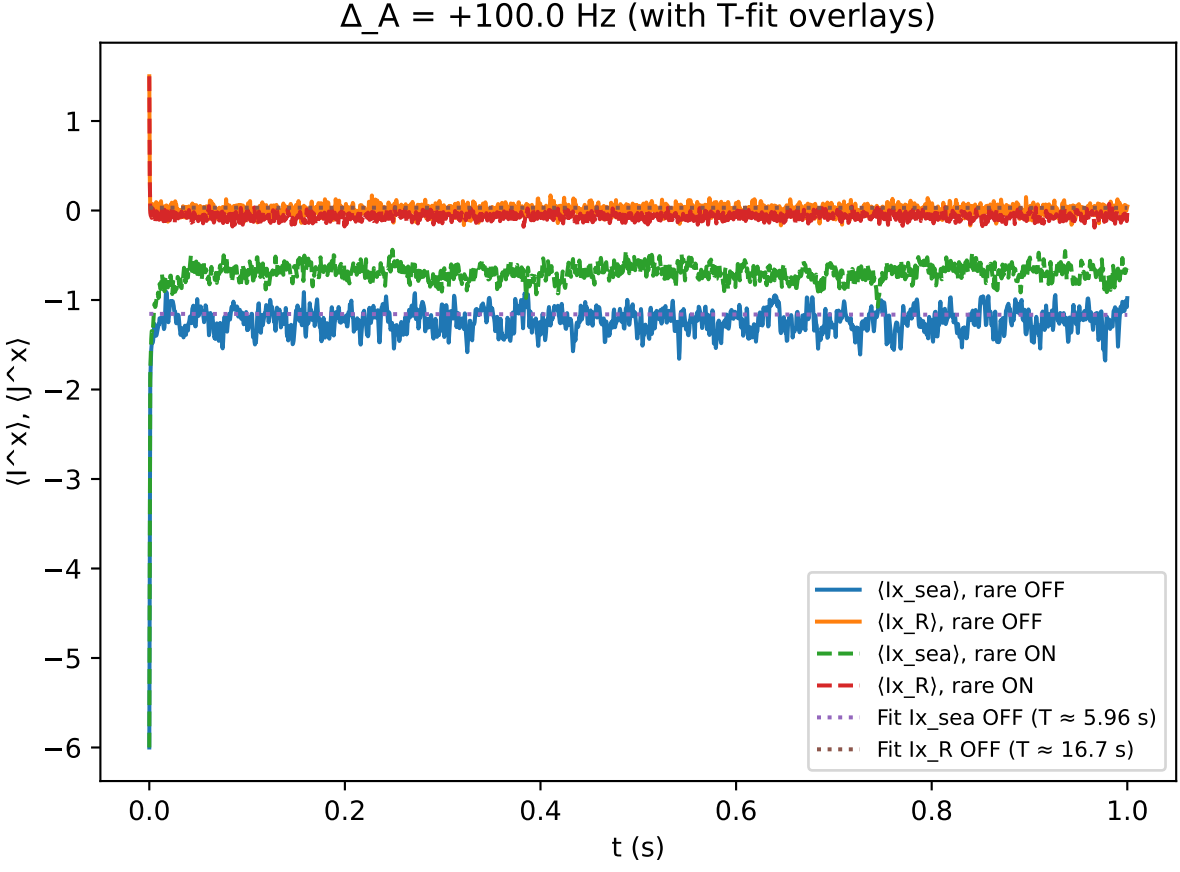

Δ_A = -100.0 Hz (rare drive OFF)
⟨I^x⟩, ⟨I^y⟩, ⟨J^x⟩, ⟨J^y⟩
t (s)
⟨Ix_sea⟩
⟨Iy_sea⟩
⟨Ix_R⟩
⟨Iy_R⟩

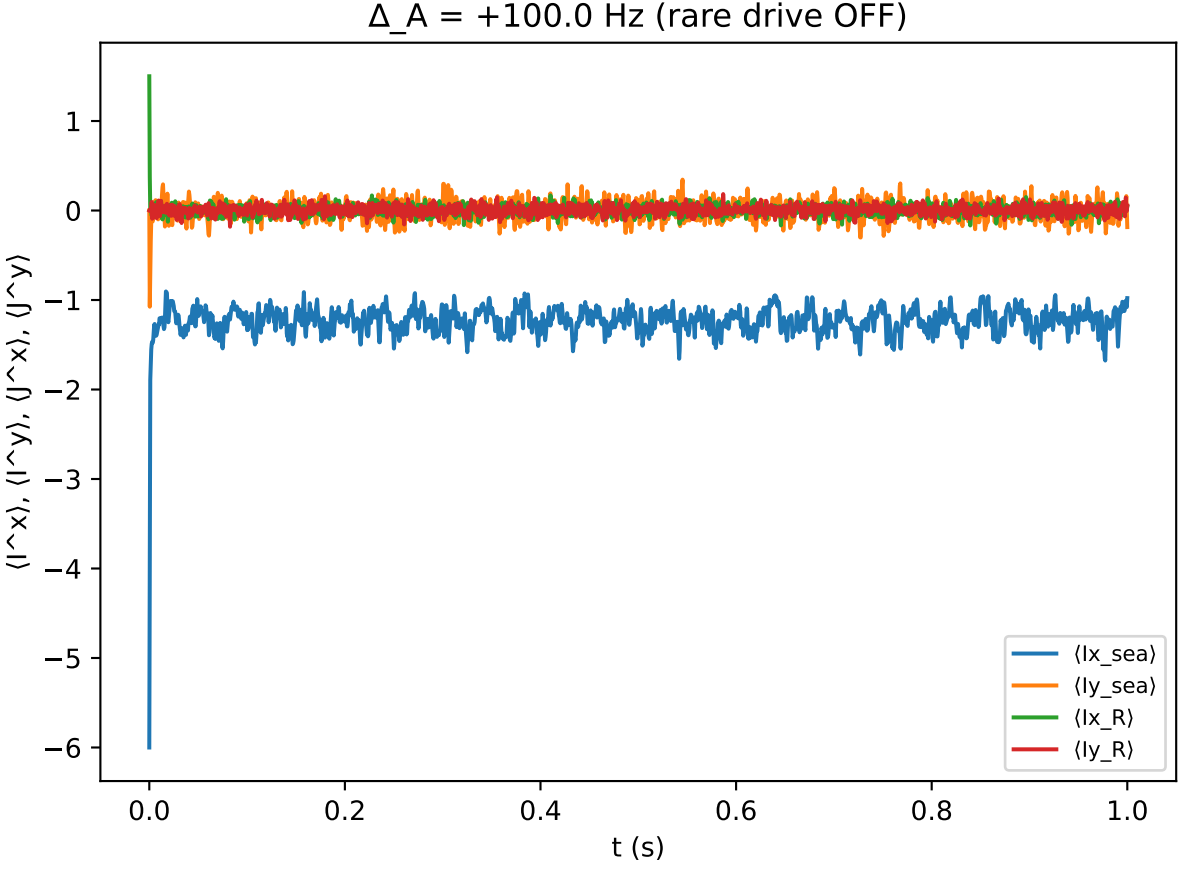

Δ_A = +0.0 Hz
⟨I^x⟩, ⟨J^x⟩
t (s)
1
0
−1
−2
−3
−4
−5
−6
0.0
0.2
0.4
0.6
0.8
1.0
⟨Ix_sea⟩, rare OFF
⟨Ix_R⟩, rare OFF
⟨Ix_sea⟩, rare ON
⟨Ix_R⟩, rare ON

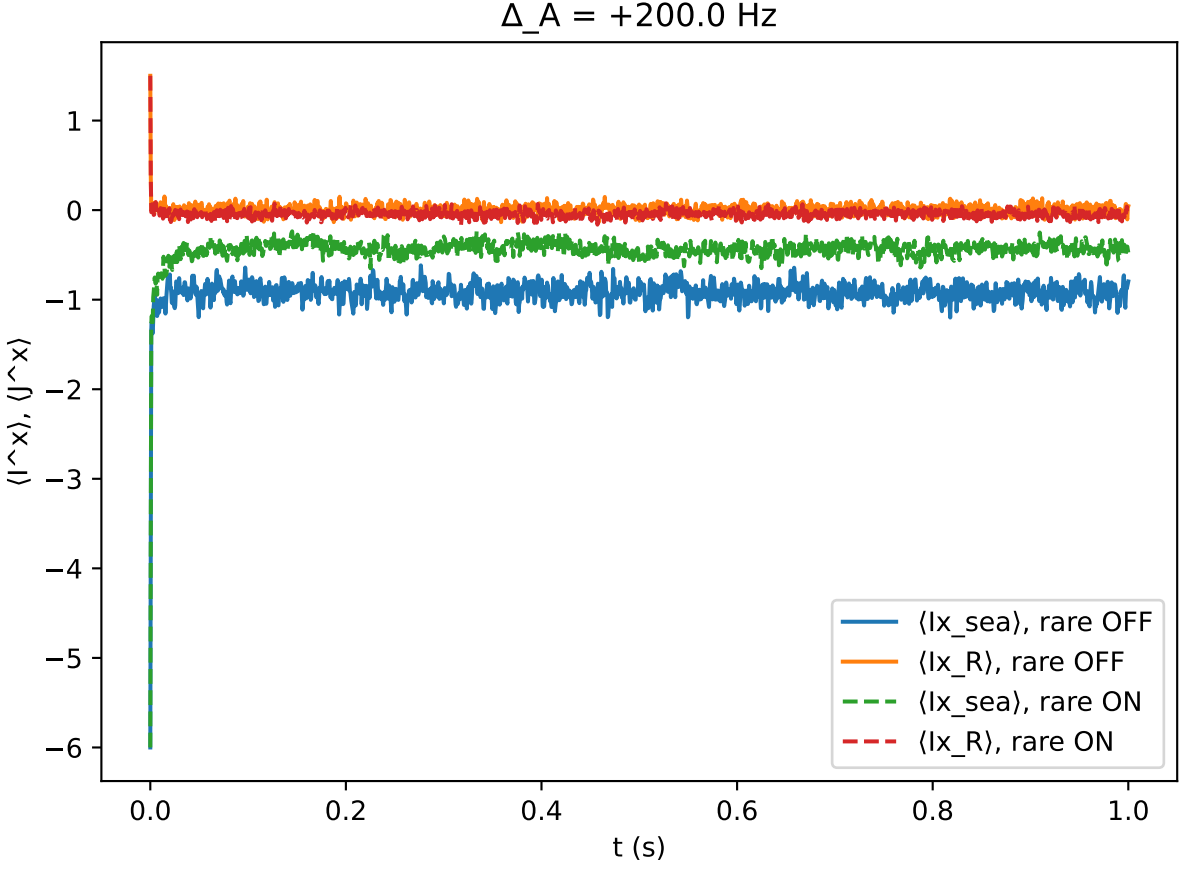

Δ_A = +0.0 Hz (with T-fit overlays)
⟨I^x⟩, ⟨J^x⟩
t (s)
1
0
−1
−2
−3
−4
−5
−6
0.0
0.2
0.4
0.6
0.8
1.0
⟨Ix_sea⟩, rare OFF
⟨Ix_R⟩, rare OFF
⟨Ix_sea⟩, rare ON
⟨Ix_R⟩, rare ON
Fit Ix_sea OFF (T ≈ 8.09 s)
Fit Ix_sea ON (T ≈ 2.11 s)
Fit Ix_R ON (T ≈ 29.9 s)

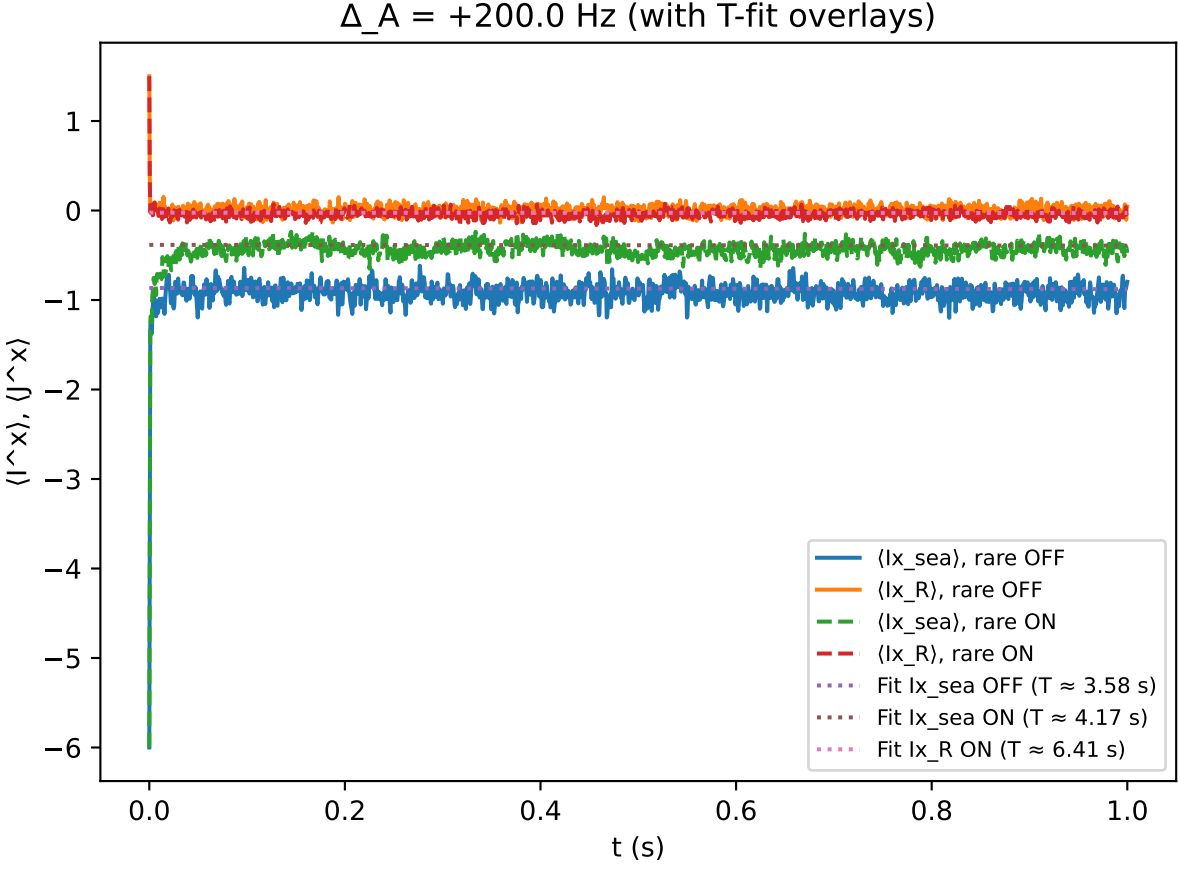

Δ_A = +0.0 Hz (rare drive OFF)
⟨I^x⟩, ⟨I^y⟩, ⟨J^x⟩, ⟨J^y⟩
t (s)
⟨Ix_sea⟩
⟨Iy_sea⟩
⟨Ix_R⟩
⟨Iy_R⟩

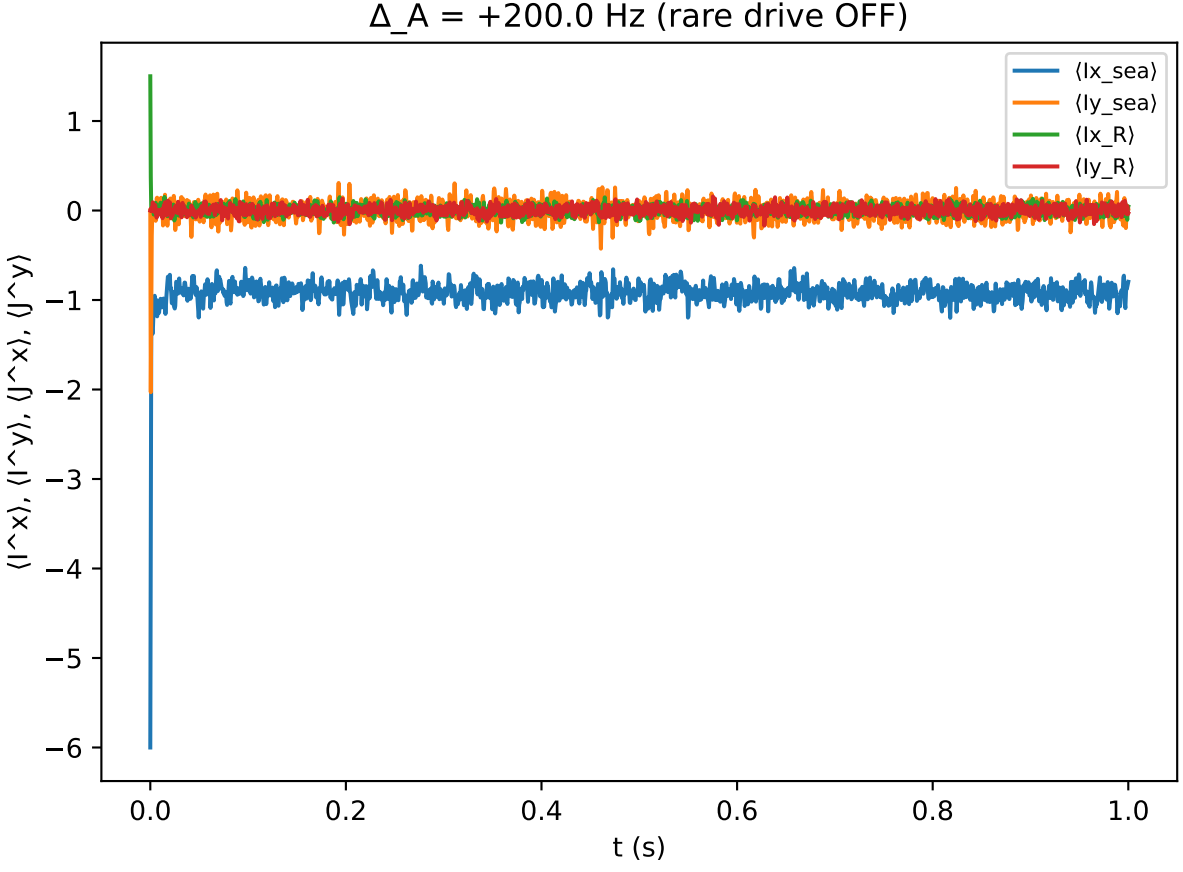

Δ_A = +100.0 Hz
⟨I^x⟩, ⟨J^x⟩
t (s)
1
0
−1
−2
−3
−4
−5
−6
0.0
0.2
0.4
0.6
0.8
1.0
⟨Ix_sea⟩, rare OFF
⟨Ix_R⟩, rare OFF
⟨Ix_sea⟩, rare ON
⟨Ix_R⟩, rare ON

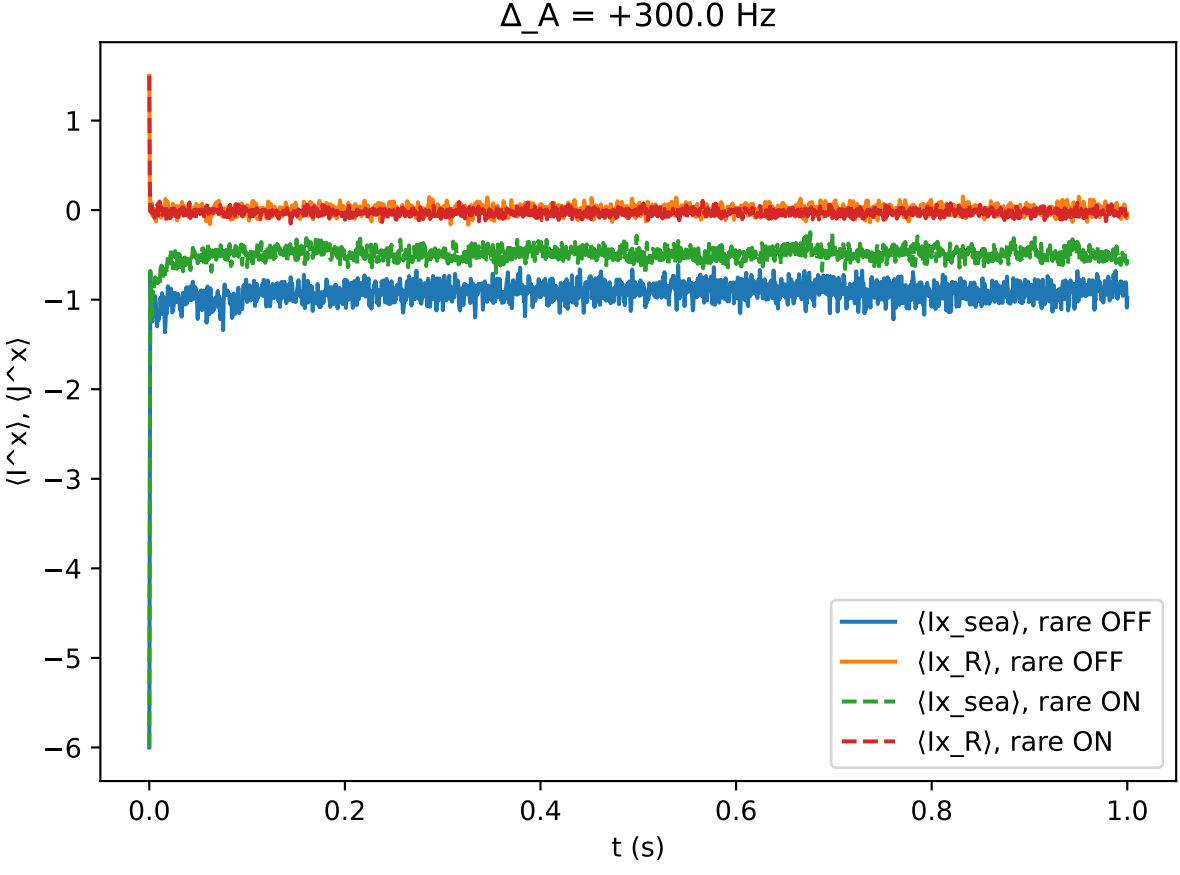

Δ_A = +100.0 Hz (with T-fit overlays)
⟨I^x⟩, ⟨J^x⟩
t (s)
1
0
−1
−2
−3
−4
−5
−6
0.0
0.2
0.4
0.6
0.8
1.0
⟨Ix_sea⟩, rare OFF
⟨Ix_R⟩, rare OFF
⟨Ix_sea⟩, rare ON
⟨Ix_R⟩, rare ON
Fit Ix_sea OFF (T ≈ 5.96 s)
Fit Ix_R OFF (T ≈ 16.7 s)

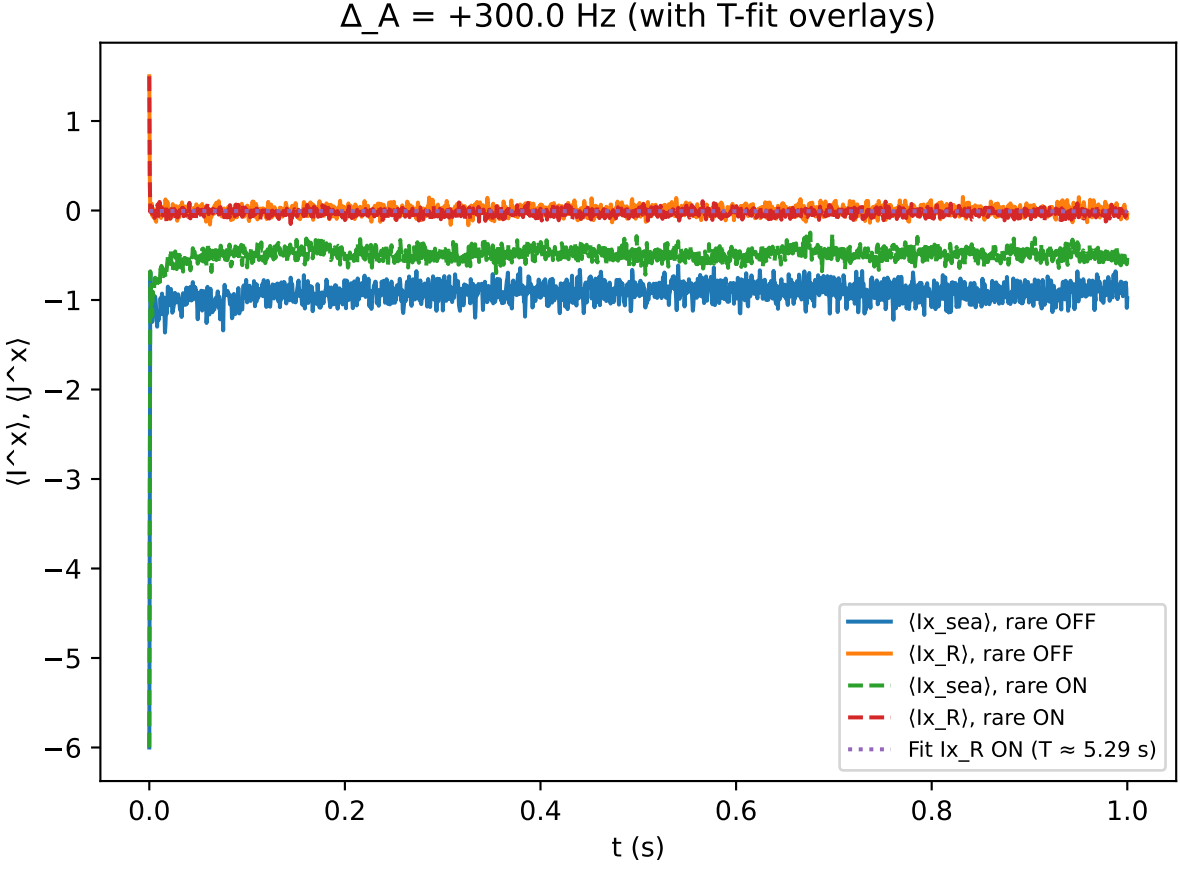

Δ_A = +100.0 Hz (rare drive OFF)
⟨I^x⟩, ⟨I^y⟩, ⟨J^x⟩, ⟨J^y⟩
t (s)
⟨Ix_sea⟩
⟨Iy_sea⟩
⟨Ix_R⟩
⟨Iy_R⟩

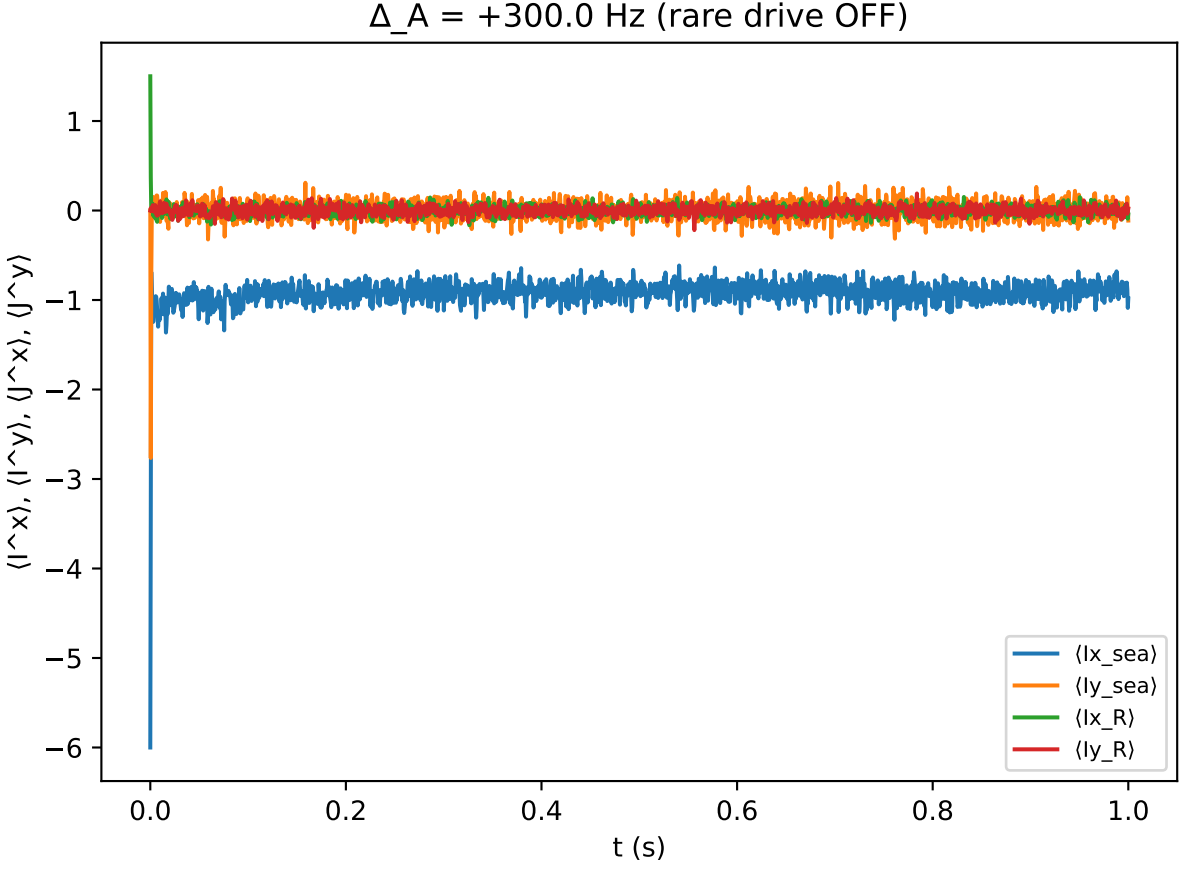

Δ_A = +200.0 Hz
⟨I^x⟩, ⟨J^x⟩
t (s)
⟨Ix_sea⟩, rare OFF
⟨Ix_R⟩, rare OFF
⟨Ix_sea⟩, rare ON
⟨Ix_R⟩, rare ON


Δ_A = +200.0 Hz (with T-fit overlays)
⟨I^x⟩, ⟨J^x⟩
t (s)
1
0
−1
−2
−3
−4
−5
−6
0.0
0.2
0.4
0.6
0.8
1.0
⟨Ix_sea⟩, rare OFF
⟨Ix_R⟩, rare OFF
⟨Ix_sea⟩, rare ON
⟨Ix_R⟩, rare ON
Fit Ix_sea OFF (T ≈ 3.58 s)
Fit Ix_sea ON (T ≈ 4.17 s)
Fit Ix_R ON (T ≈ 6.41 s)


Δ_A = +200.0 Hz (rare drive OFF)
⟨Ix_sea⟩
⟨Iy_sea⟩
⟨Ix_R⟩
⟨Iy_R⟩
⟨I^x⟩, ⟨I^y⟩, ⟨J^x⟩, ⟨J^y⟩
t (s)
1
0
−1
−2
−3
−4
−5
−6
0.0
0.2
0.4
0.6
0.8
1.0


Δ_A = +300.0 Hz
⟨I^x⟩, ⟨J^x⟩
t (s)
⟨Ix_sea⟩, rare OFF
⟨Ix_R⟩, rare OFF
⟨Ix_sea⟩, rare ON
⟨Ix_R⟩, rare ON


Δ_A = +300.0 Hz (with T-fit overlays)
⟨I^x⟩, ⟨J^x⟩
t (s)
1
0
−1
−2
−3
−4
−5
−6
0.0
0.2
0.4
0.6
0.8
1.0
⟨Ix_sea⟩, rare OFF
⟨Ix_R⟩, rare OFF
⟨Ix_sea⟩, rare ON
⟨Ix_R⟩, rare ON
Fit Ix_R ON (T ≈ 5.29 s)


Δ_A = +300.0 Hz (rare drive OFF)
⟨I^x⟩, ⟨I^y⟩, ⟨J^x⟩, ⟨J^y⟩
t (s)
1
0
−1
−2
−3
−4
−5
−6
0.0
0.2
0.4
0.6
0.8
1.0
⟨Ix_sea⟩
⟨Iy_sea⟩
⟨Ix_R⟩
⟨Iy_R⟩

T-like decay fits (from Ix traces)

| delta_Hz | T_Ix_sea_off | T_Ix_R_off | T_Ix_sea_on | T_Ix_R_on |
|---|---|---|---|---|
| -300.0 | NA | NA | NA | 5.3 |
| -200.0 | 3.58 | NA | 4.19 | 6.42 |
| -100.0 | 5.96 | 16.7 | NA | NA |
| +0.0 | 8.09 | NA | 2.11 | 29.9 |
| +100.0 | 5.96 | 16.7 | NA | NA |
| +200.0 | 3.58 | NA | 4.17 | 6.41 |
| +300.0 | NA | NA | NA | 5.29 |