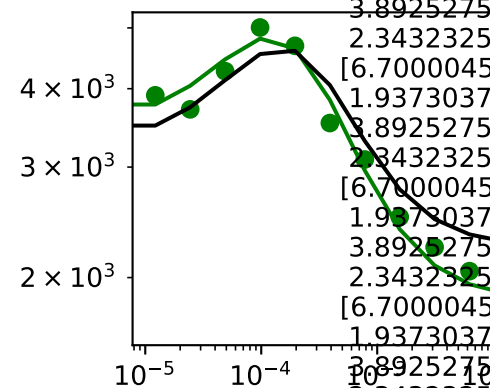
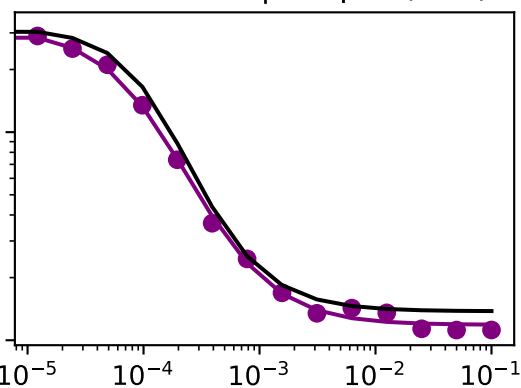
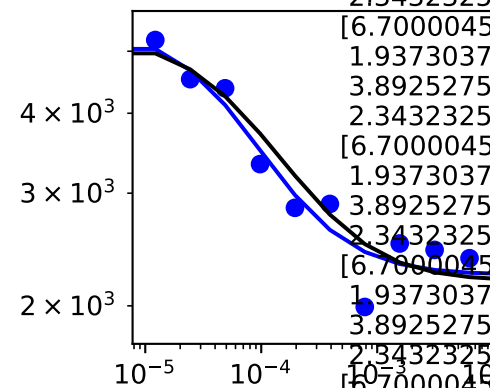
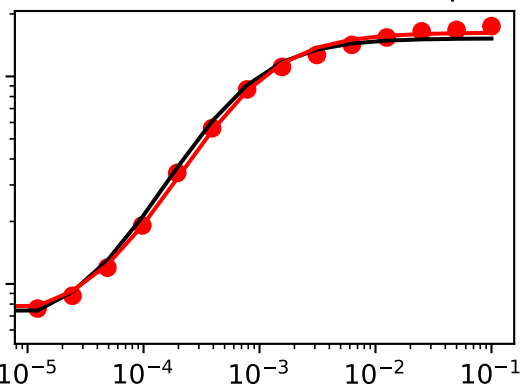


Iteration	Output	Initial Guess	Converged
1	6.70000458e+02, 1.6256714	1.32492437e+00, 7.76516741e-01	1.32492437e+00, 7.76516741e-01
2	1.93730376e+03, 2.6394701	1.32492437e+00, 7.76516741e-01	1.32492437e+00, 7.76516741e-01
3	3.89252756e+02, 5.1681561	1.32492437e+00, 7.76516741e-01	1.32492437e+00, 7.76516741e-01
4	2.34323251e+00, 2.0083035	1.32492437e+00, 7.76516741e-01	1.32492437e+00, 7.76516741e-01
5	6.70000458e+02, 1.6256714	1.32492437e+00, 7.76516741e-01	1.32492437e+00, 7.76516741e-01
6	1.93730376e+03, 2.6394701	1.32492437e+00, 7.76516741e-01	1.32492437e+00, 7.76516741e-01
7	3.89252756e+02, 5.1681561	1.32492437e+00, 7.76516741e-01	1.32492437e+00, 7.76516741e-01
8	2.34323251e+00, 2.0083035	1.32492437e+00, 7.76516741e-01	1.32492437e+00, 7.76516741e-01



RSS (% reduction)=0.757

Figure 1: Evolution of the Lyapunov exponent  $\lambda$  over time  $t$ . The plot shows a series of blue dots connected by lines, with a red line indicating the average value. The Lyapunov exponent starts at approximately 0.5, drops sharply to about -0.5 at  $t=10$ , and then fluctuates between -0.5 and 0.5 for the remainder of the time.

$[6.70000458e+02, 1.62567145e+04, 1.29623533e+03, 1.18675633e+00,$   
 $1.93730376e+03, 2.63947013e+05, 3.84197663e-01, 7.76516741e-01,$   
 $3.89252755e+02, 5.16815619e+04, 1.13338385e-03, 1.32492437e+00,$   
 $2.34323251e+00, 2.00830351e+00, 1.42681452e+00],$   
 $[6.70000458e+02, 1.62567145e+04, 1.29623533e+03, 1.18675633e+00,$   
 $1.93730376e+03, 2.63947013e+05, 3.84197662e-01, 7.76516741e-01,$   
 $3.89252755e+02, 5.16815619e+04, 1.13338385e-03, 1.32492437e+00,$   
 $2.34323251e+00, 2.00830351e+00, 1.42681452e+00],$   
 $[6.70000458e+02, 1.62567145e+04, 1.29623533e+03, 1.18675633e+00,$   
 $1.93730376e+03, 2.63947013e+05, 3.84197662e-01, 7.76516741e-01,$   
 $3.89252755e+02, 5.16815619e+04, 1.13338385e-03, 1.32492437e+00,$

```
[6.70000458e+02, 1.62567145e+04, 1.29623533e+03, 1.18675633e+00,
1.93730376e+03, 2.63947013e+05, 3.84197662e-01, 7.76516741e-01,
3.89252755e+02, 5.16815619e+04, 1.13338385e-03, 1.32492437e+00,
2.34323251e+00, 2.00830351e+00, 1.42681452e+00]]) , array([0.055828
0.0558286, 0.0558286, 0.0558286, 0.0558286, 0.0558286, 0.0558286,
0.0558286, 0.0558286, 0.0558286, 0.0558286]))
```

2.34323251e+00, 2.00830351e+00, 1.42681452e+00])