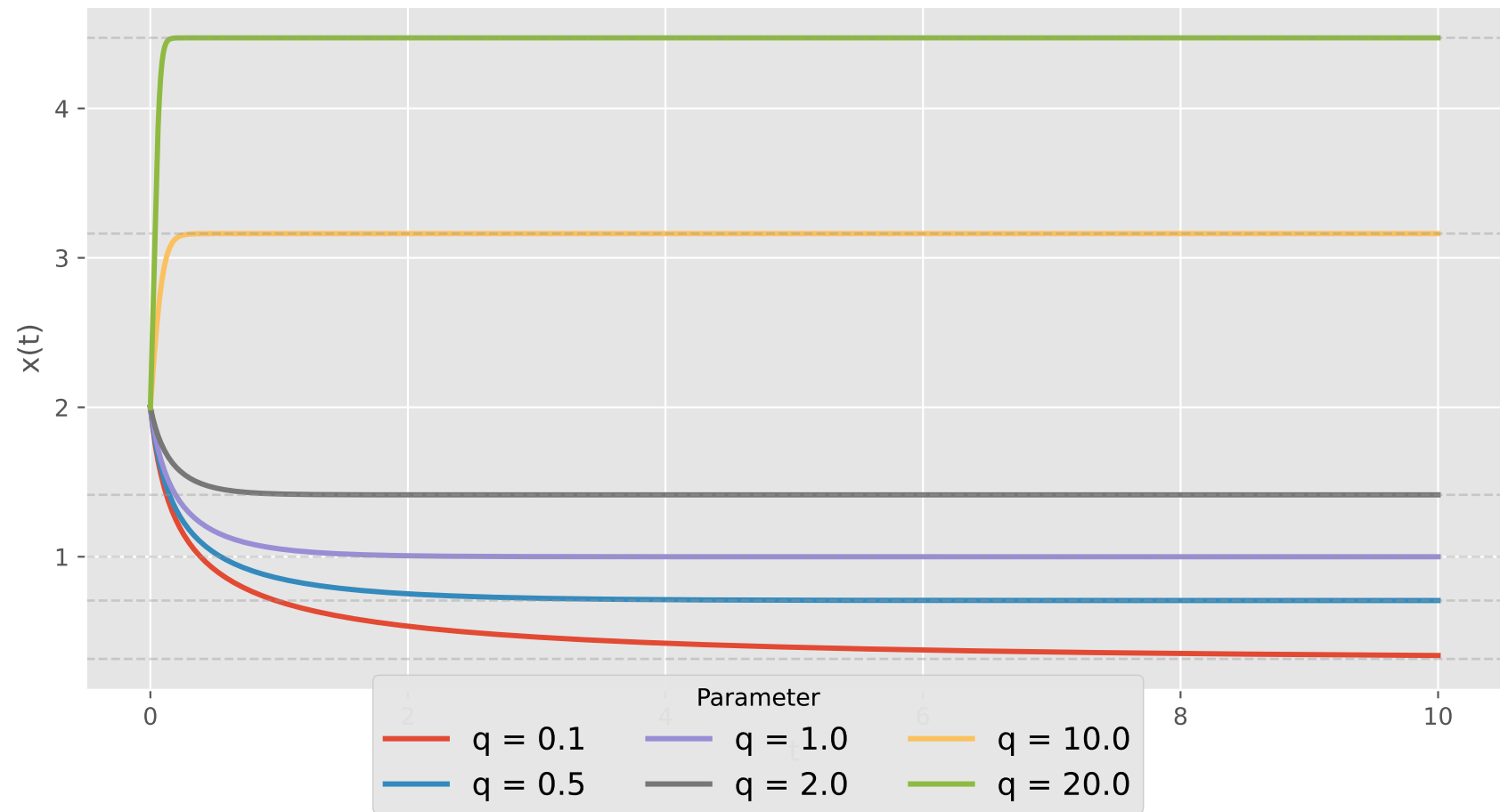
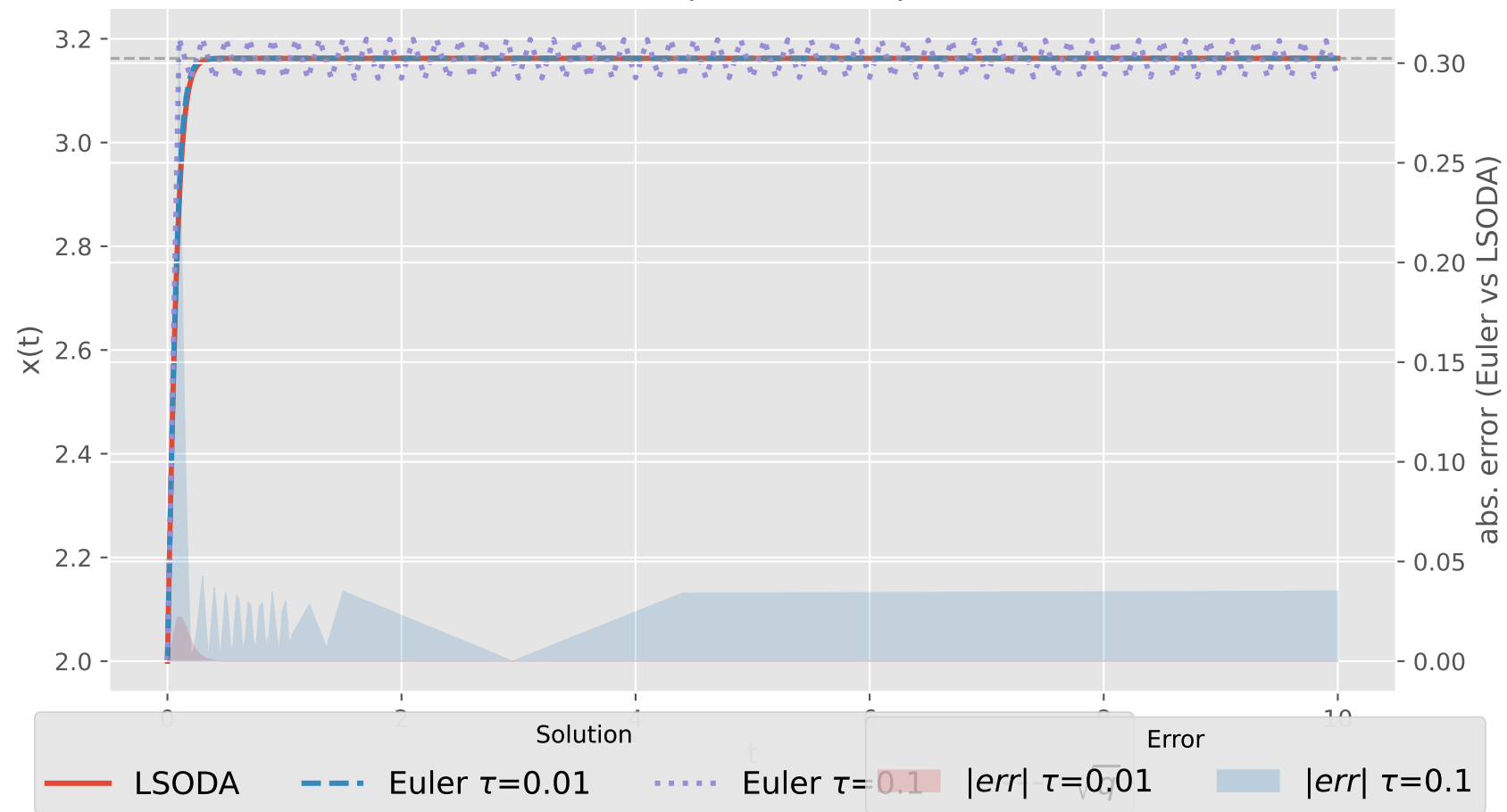


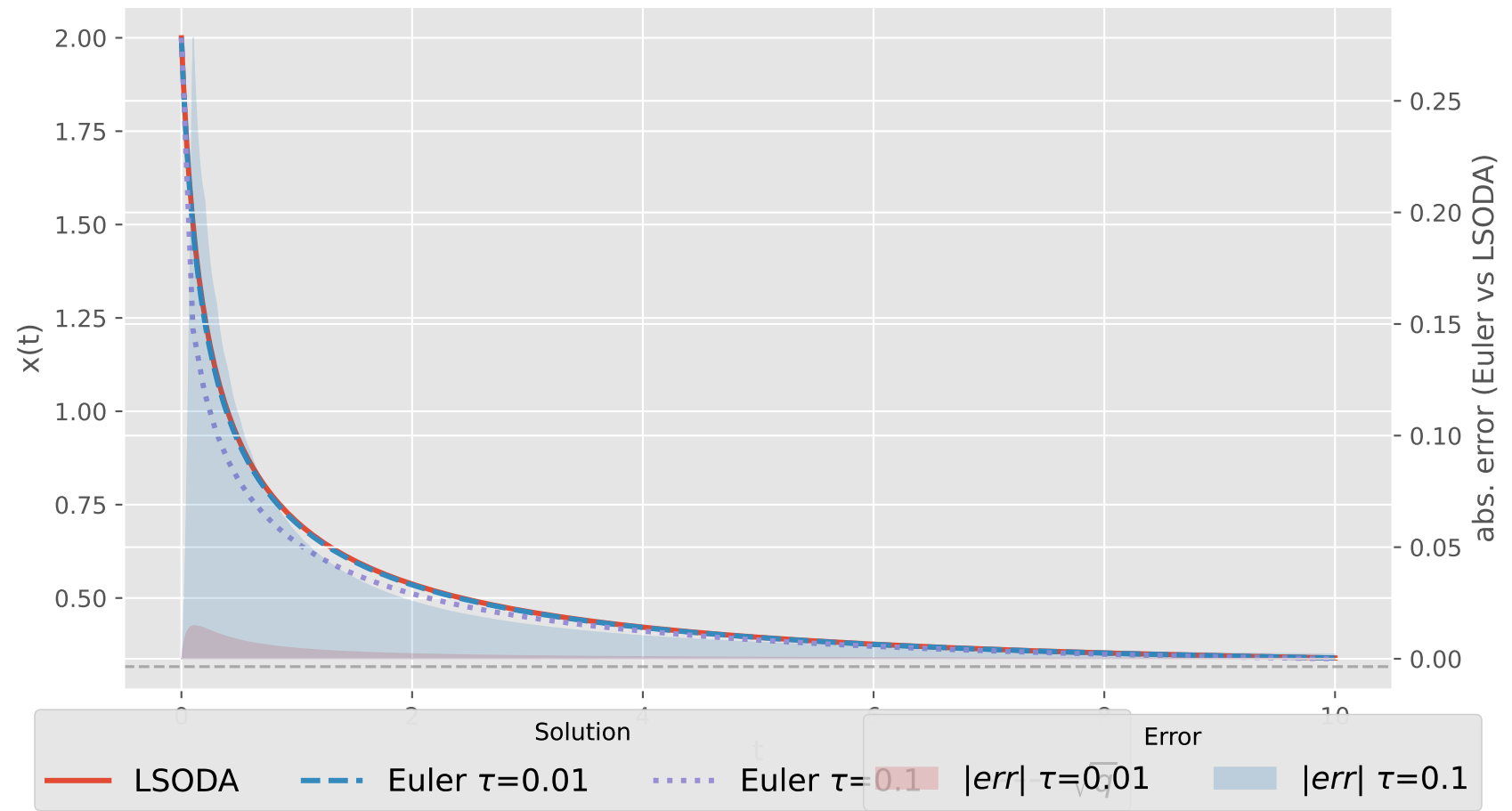
Cubic ODE parameter sweep (equilibria shown)



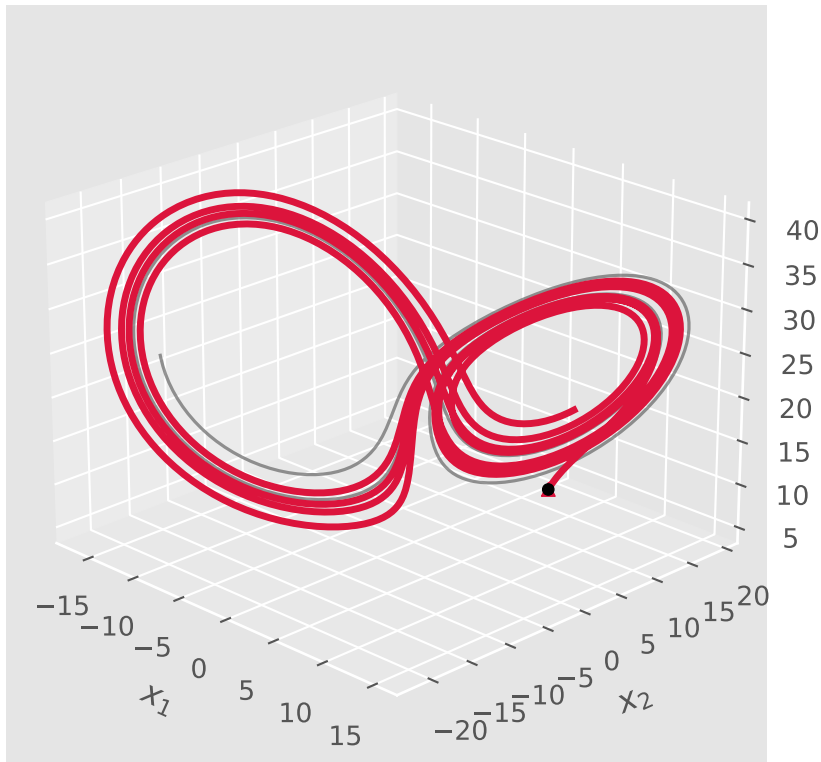
Method comparison for $q = 10.0$



Method comparison for $q = 0.1$

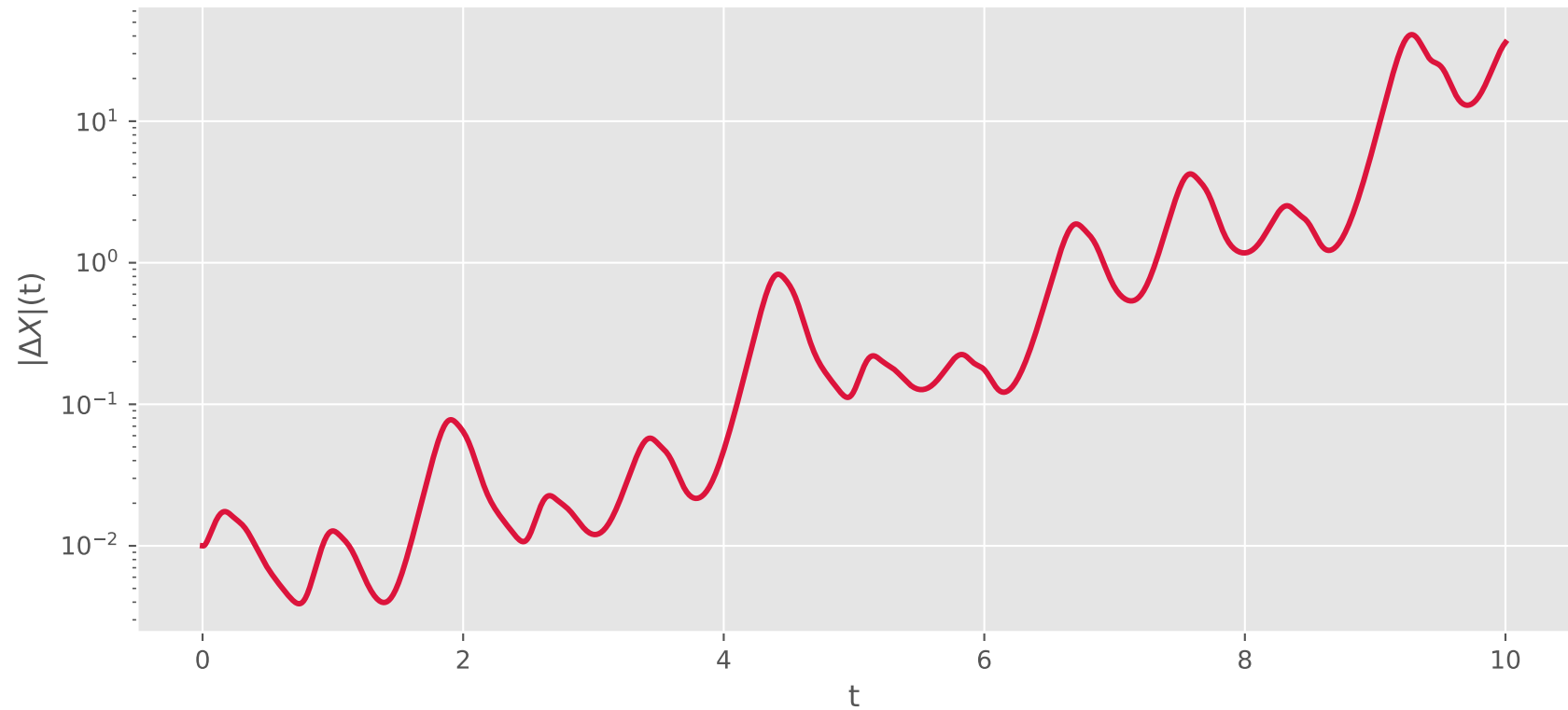


Lorenz sensitivity to perturbing $x_2(0)$

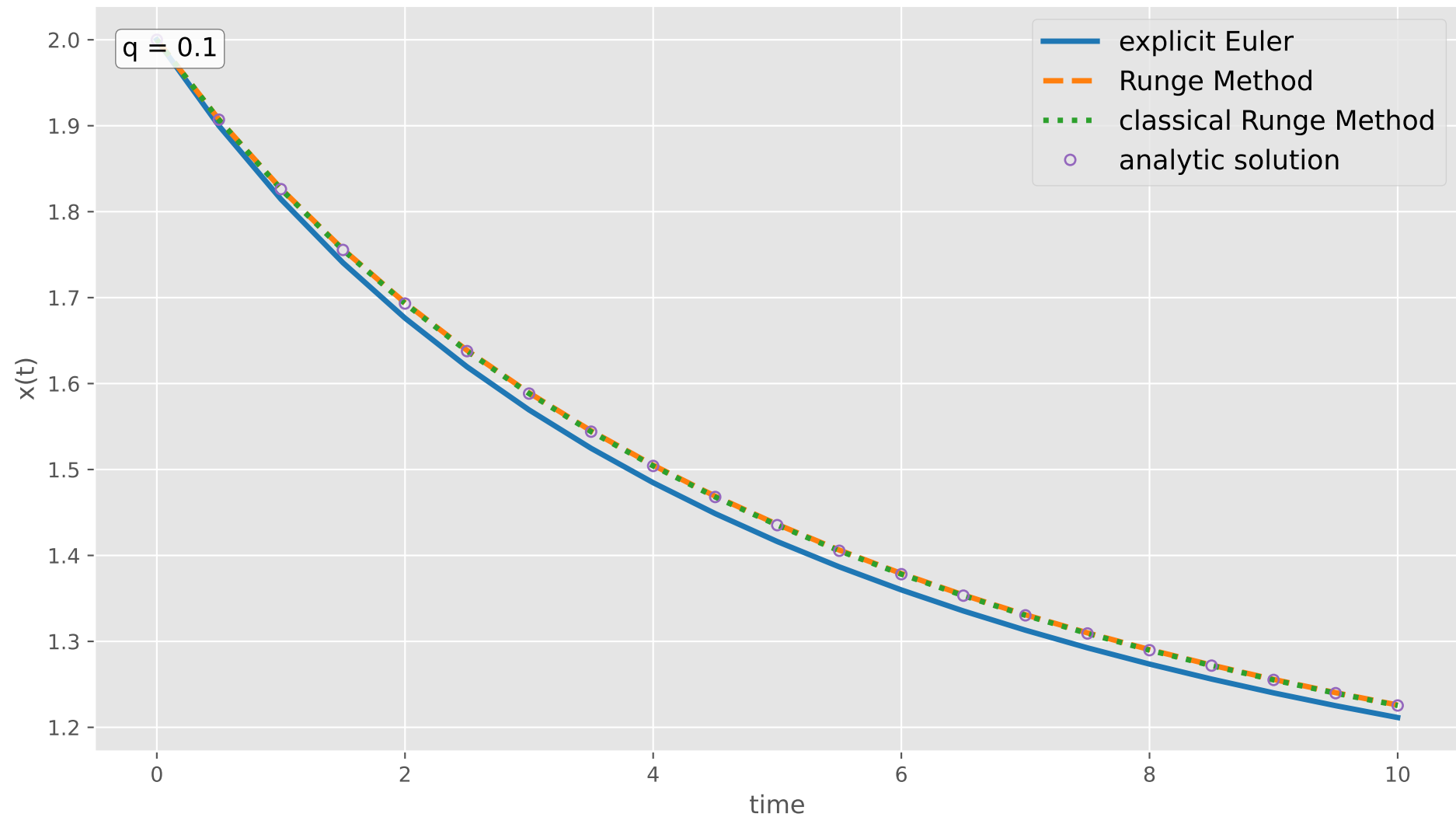


— Baseline — $x_2(0) = 5.01$ perturbed

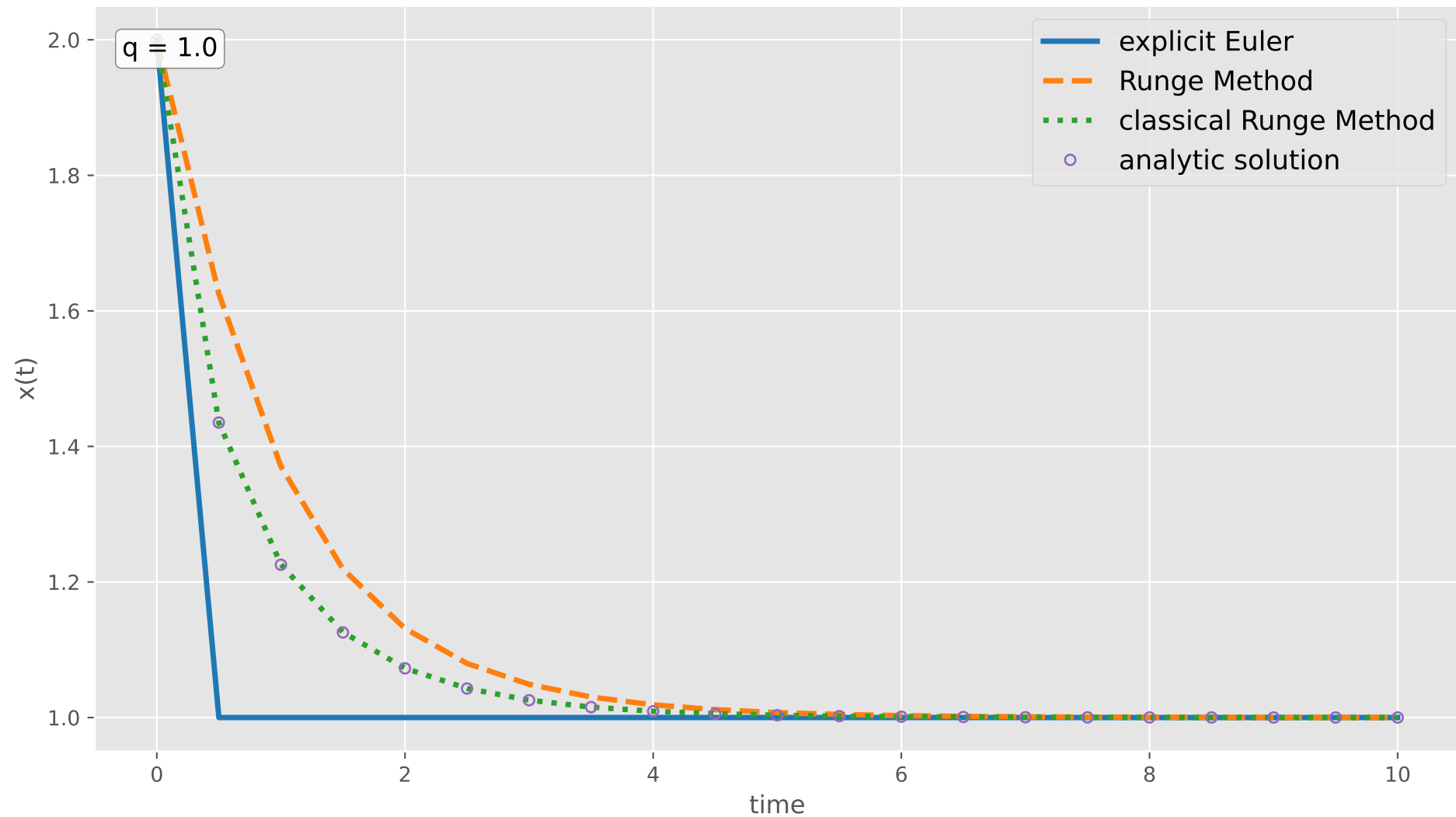
Lorenz trajectory separation



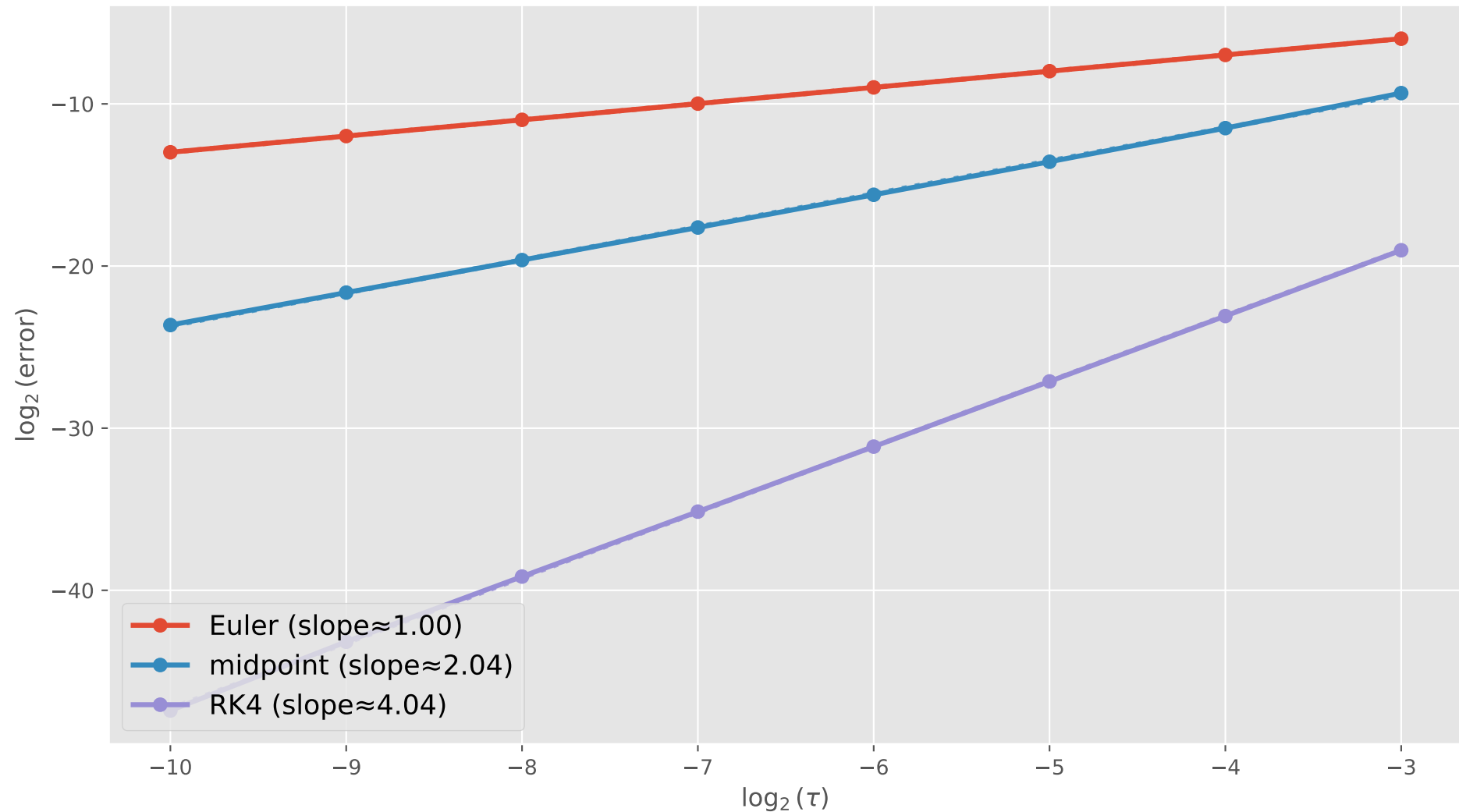
Approximation of the solution for different RK methods



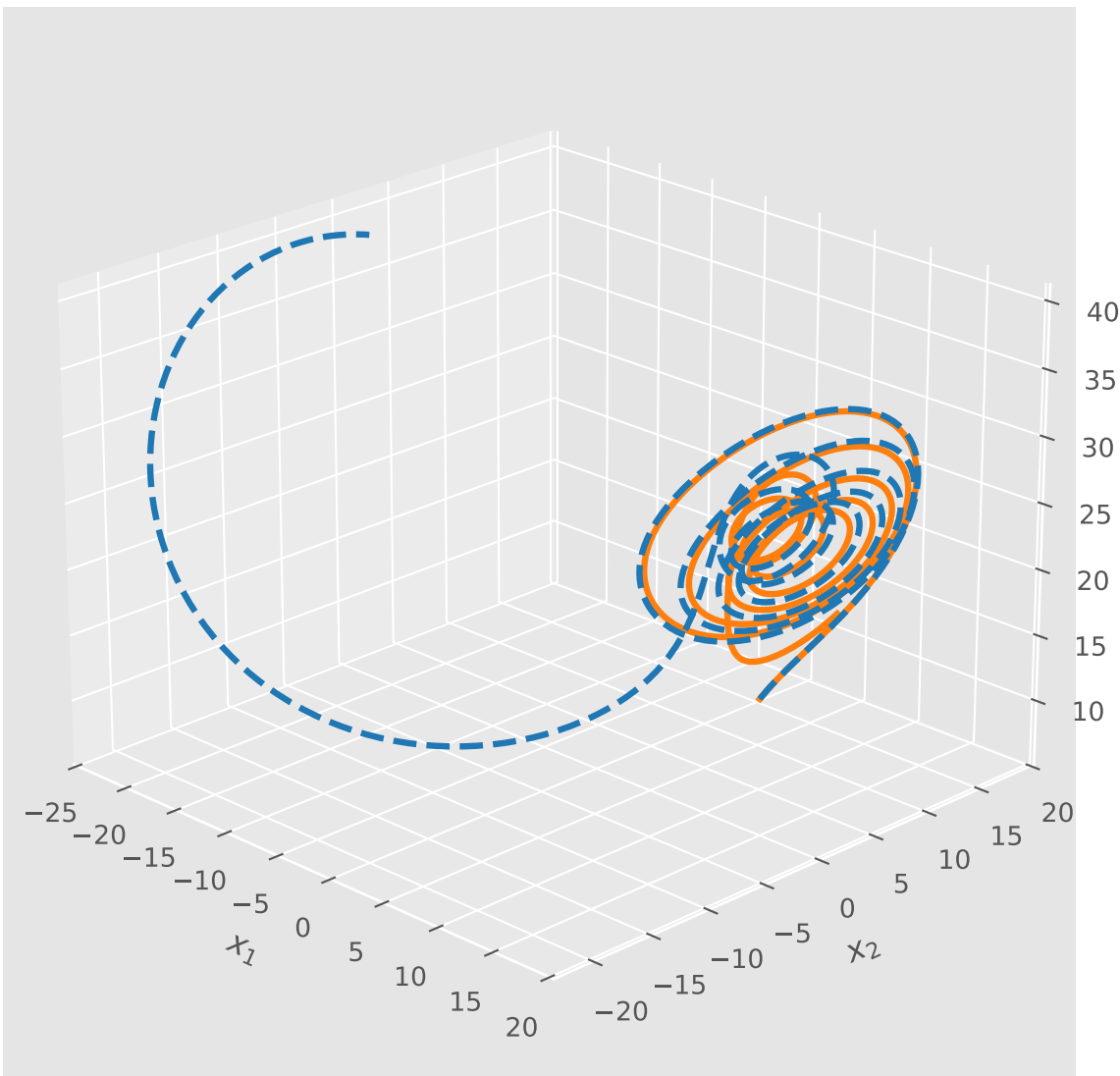
Approximation of the solution for different RK methods



\log_2, \log_2 plot of the error for the three different RK methods

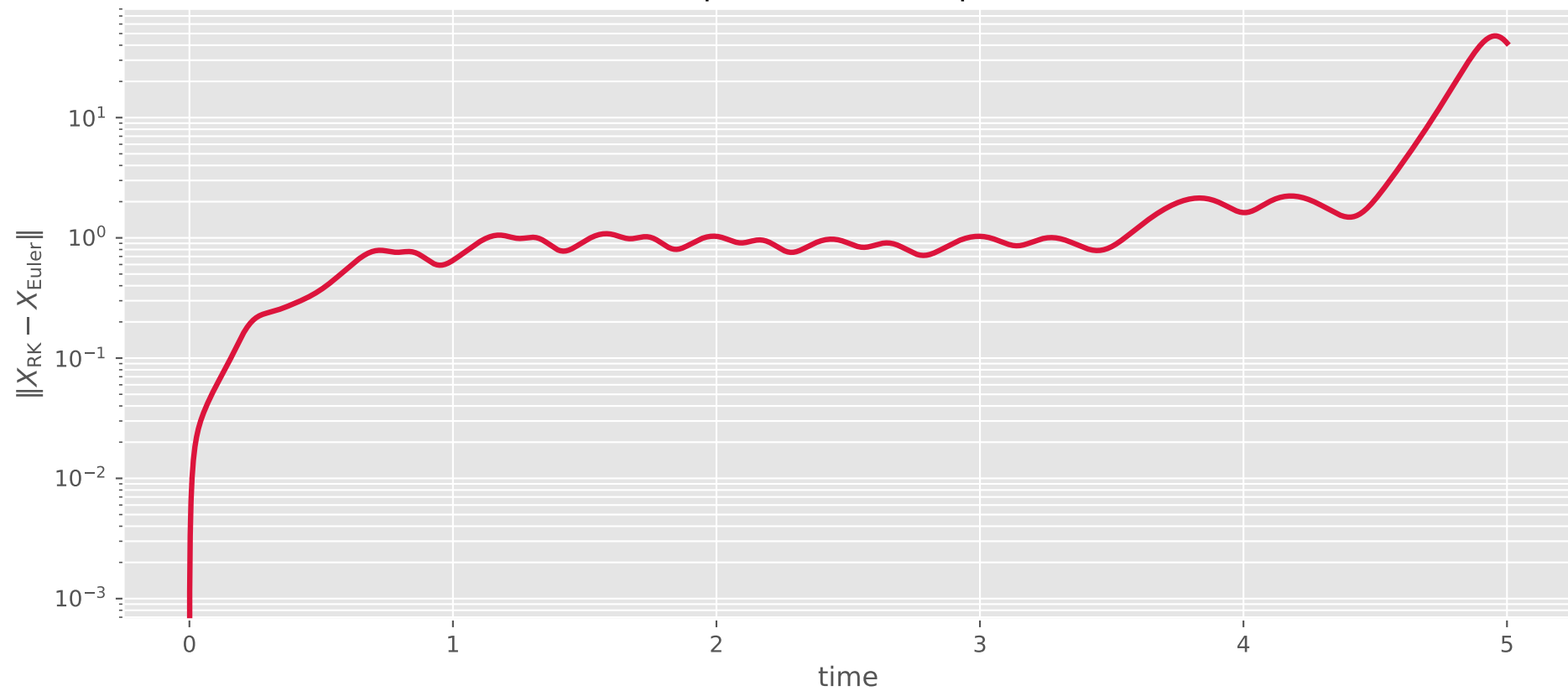


Forced Lorenz trajectories

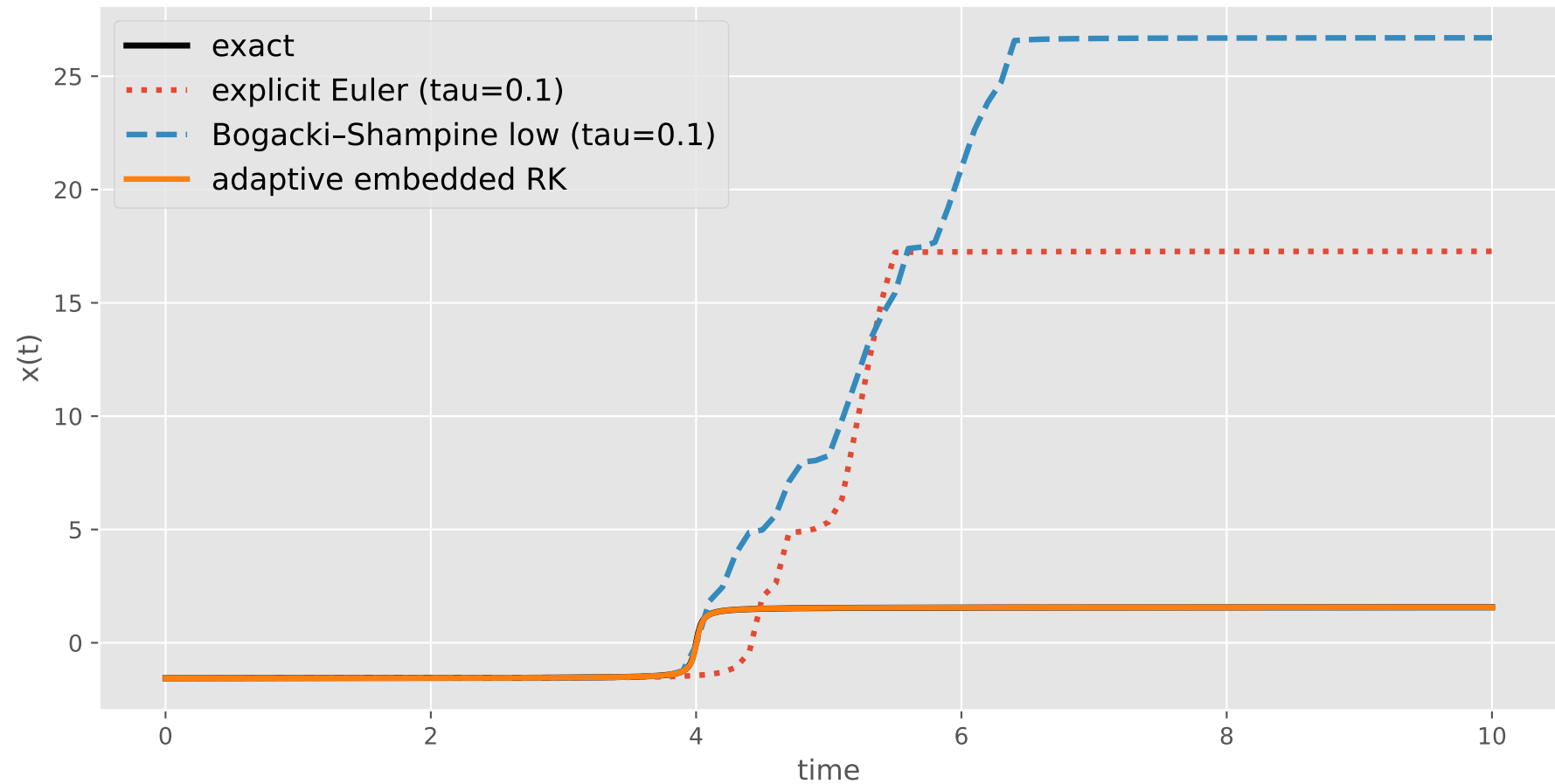


midpoint RK explicit Euler

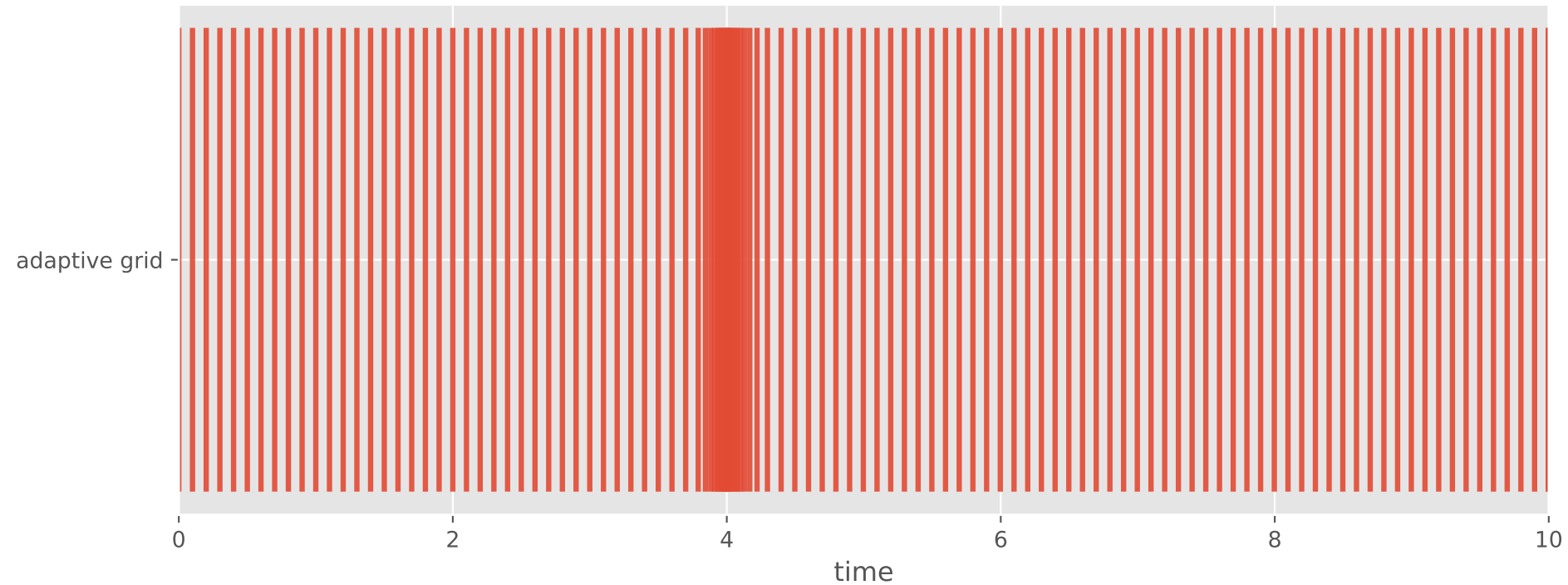
Difference between midpoint RK and explicit Euler (forced Lorenz)



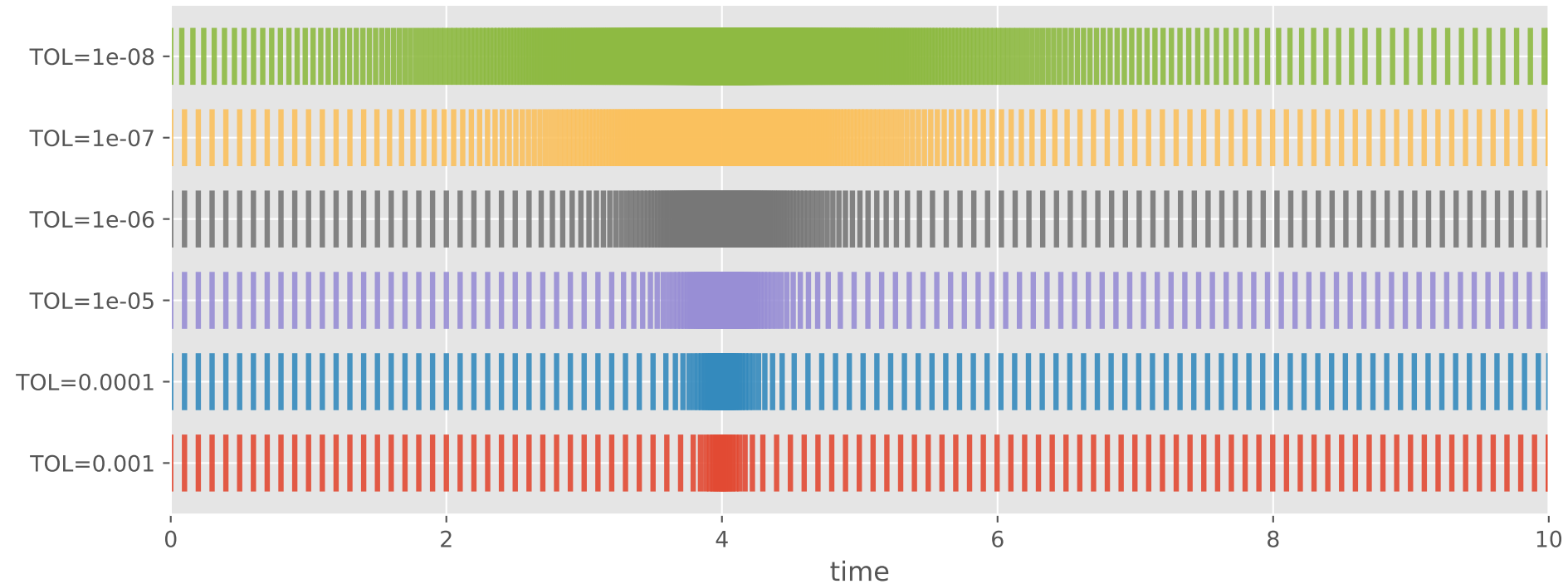
Arctan problem: adaptive BS23 vs references



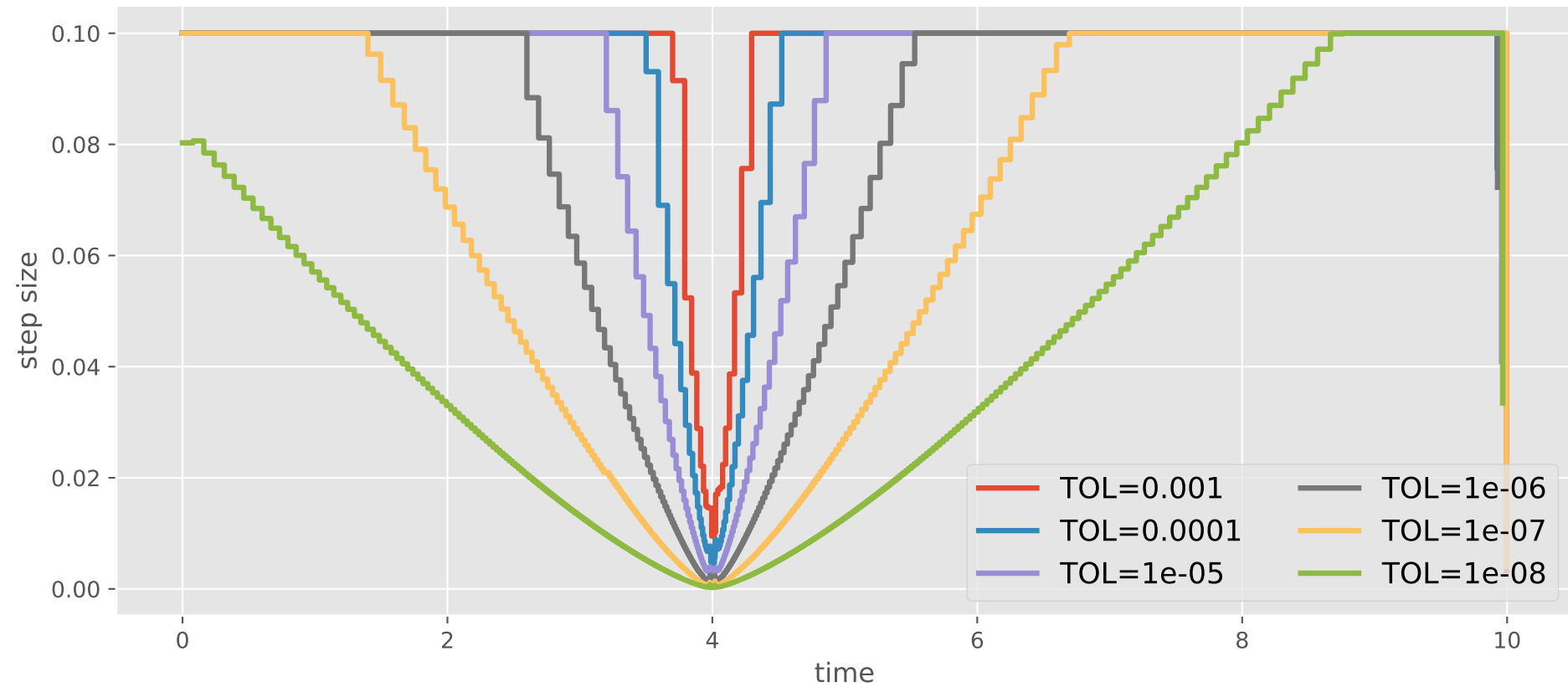
Adaptive discretization points (BS23)



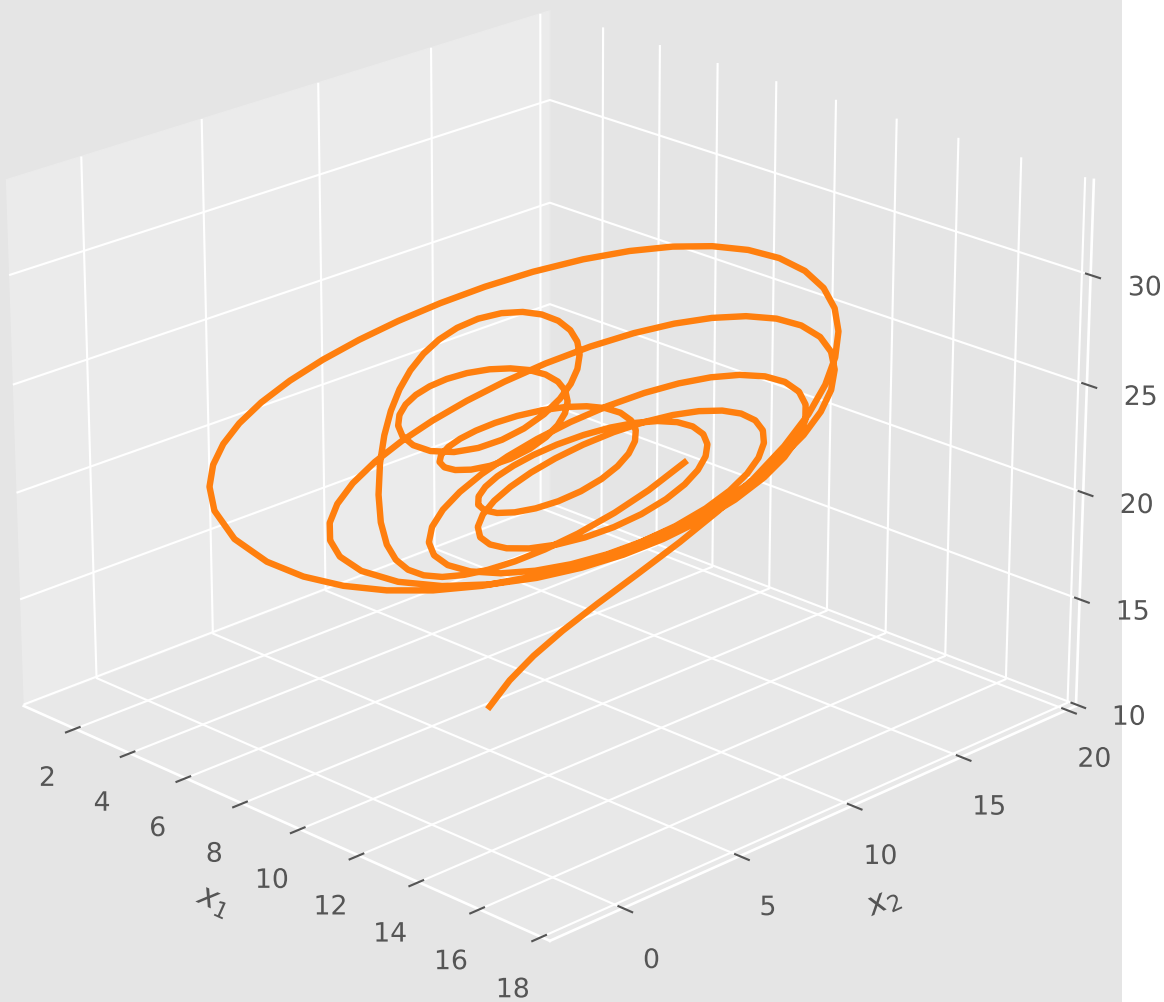
Adaptive grids for different tolerances



Step sizes over time for different TOL



Forced Lorenz (adaptive BS23)



Adaptive step sizes (Lorenz)

