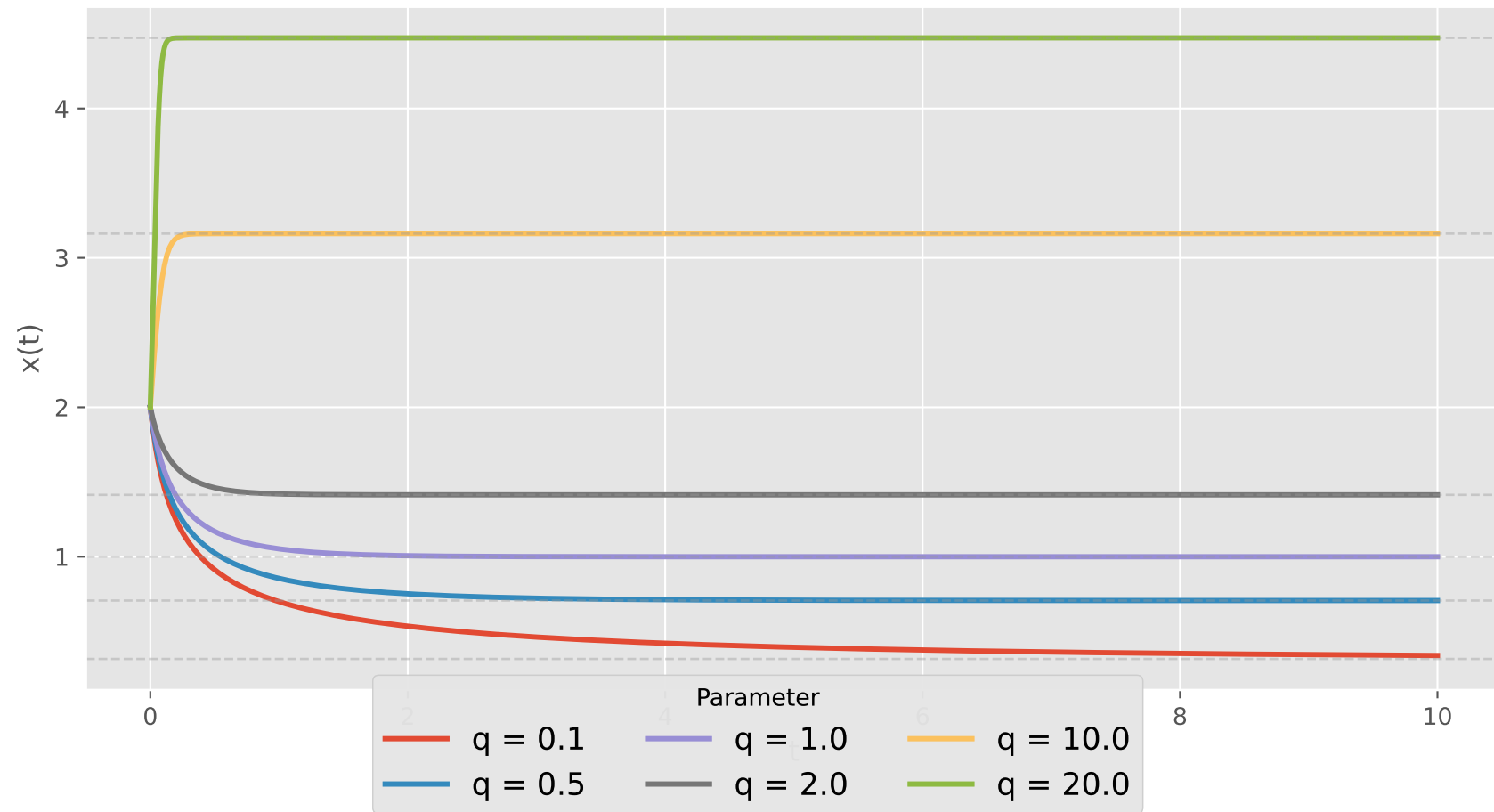
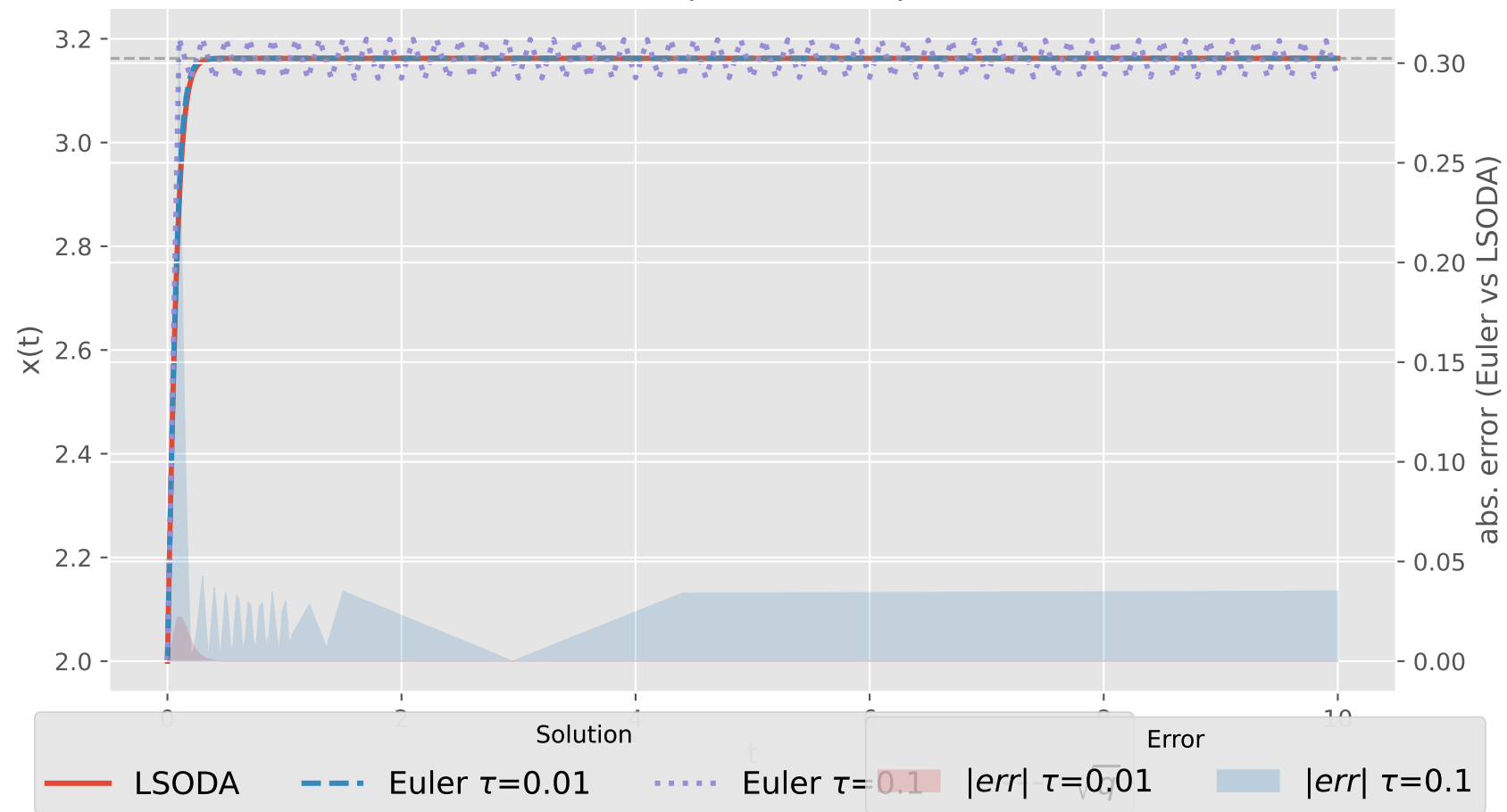


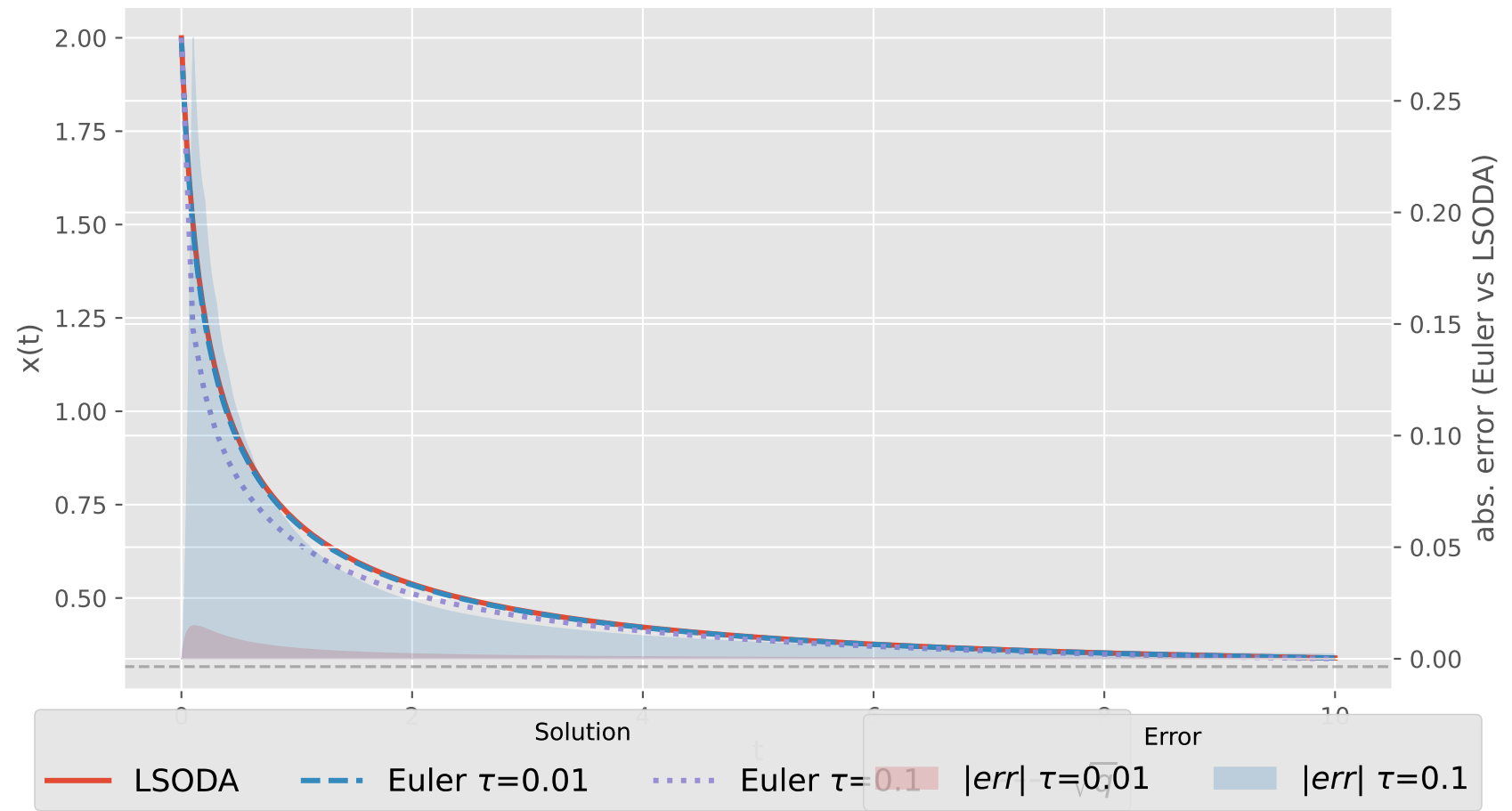
Cubic ODE parameter sweep (equilibria shown)



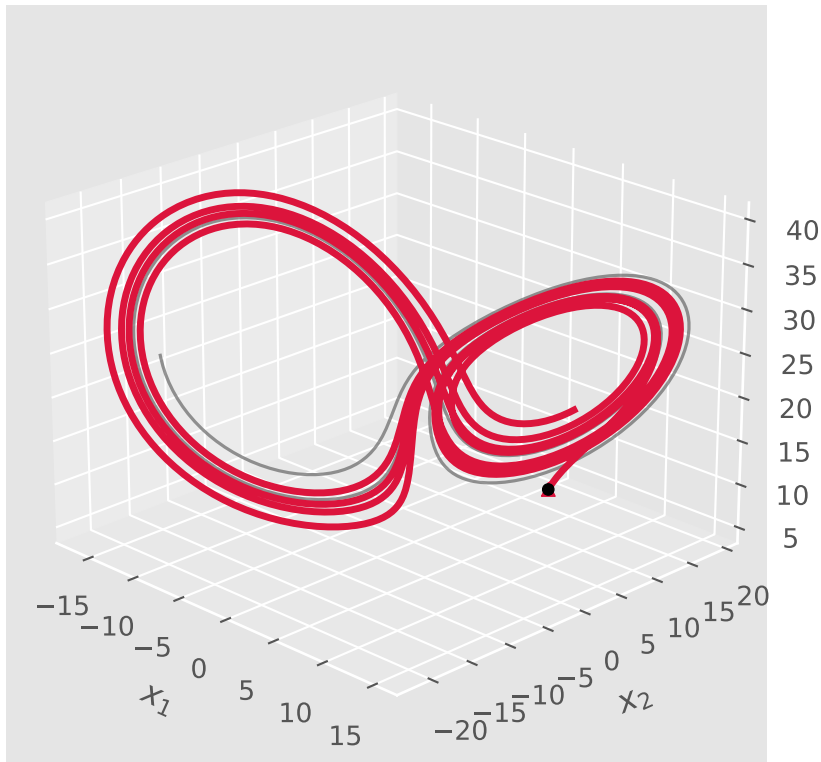
Method comparison for $q = 10.0$



Method comparison for $q = 0.1$

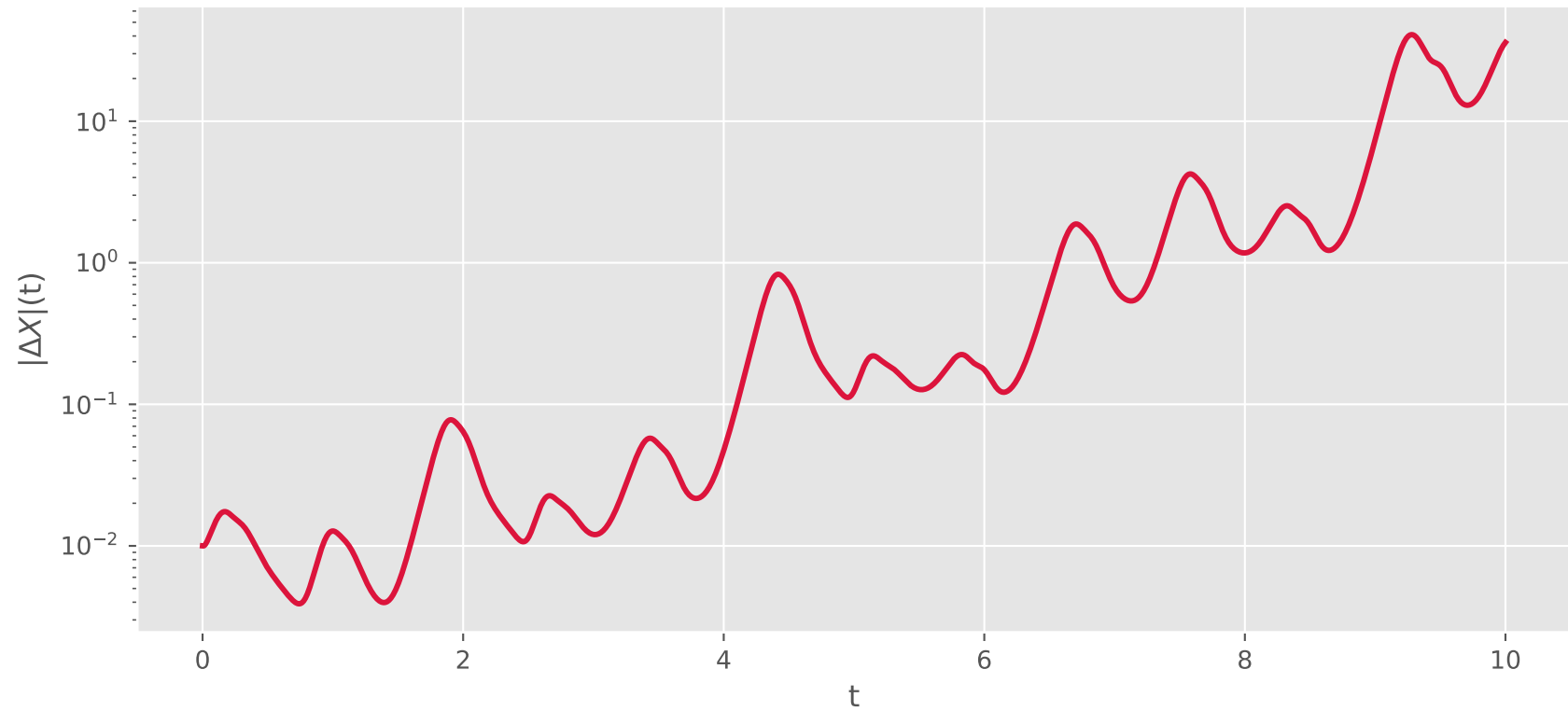


Lorenz sensitivity to perturbing $x_2(0)$

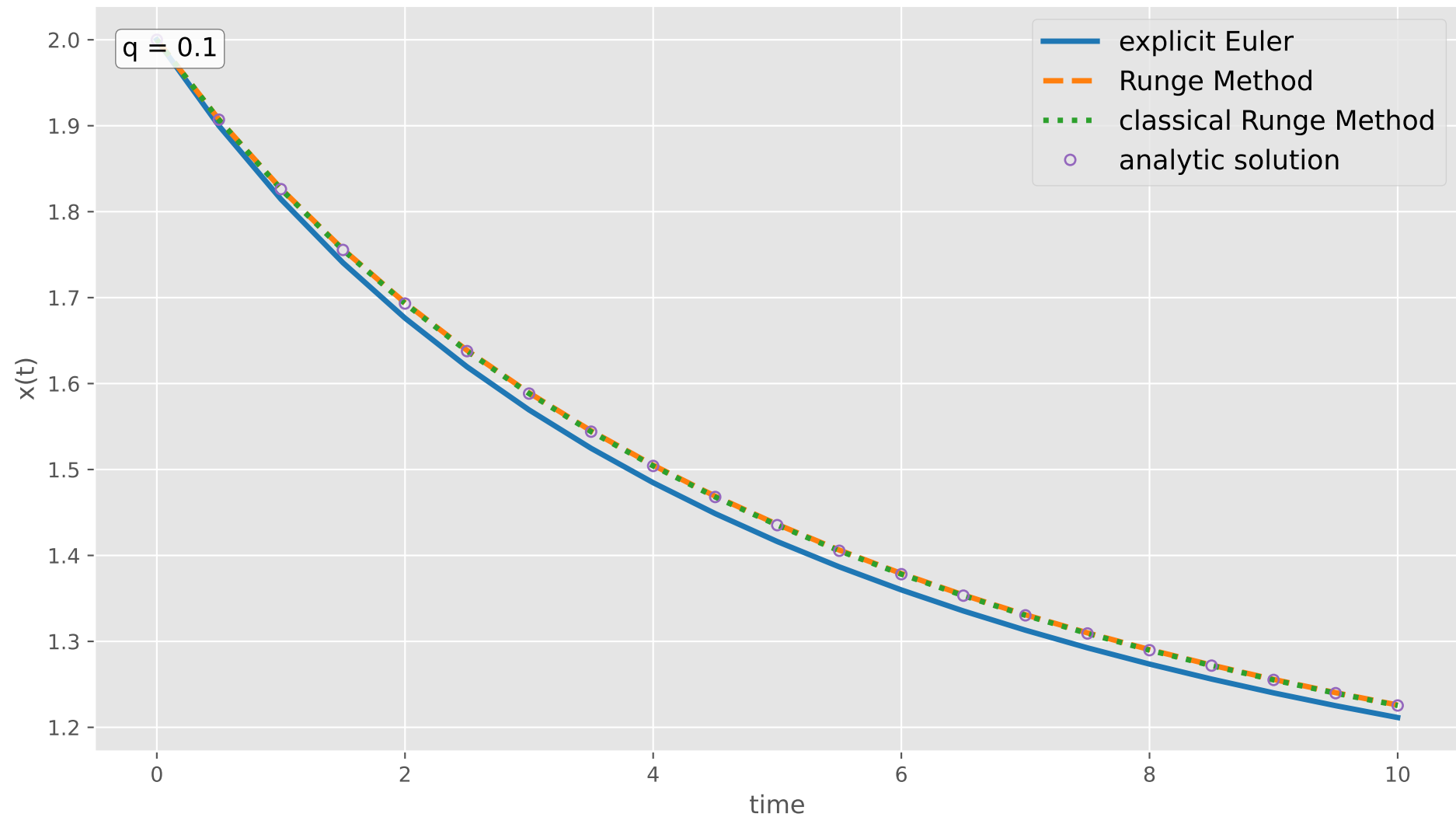


— Baseline — $x_2(0) = 5.01$ perturbed

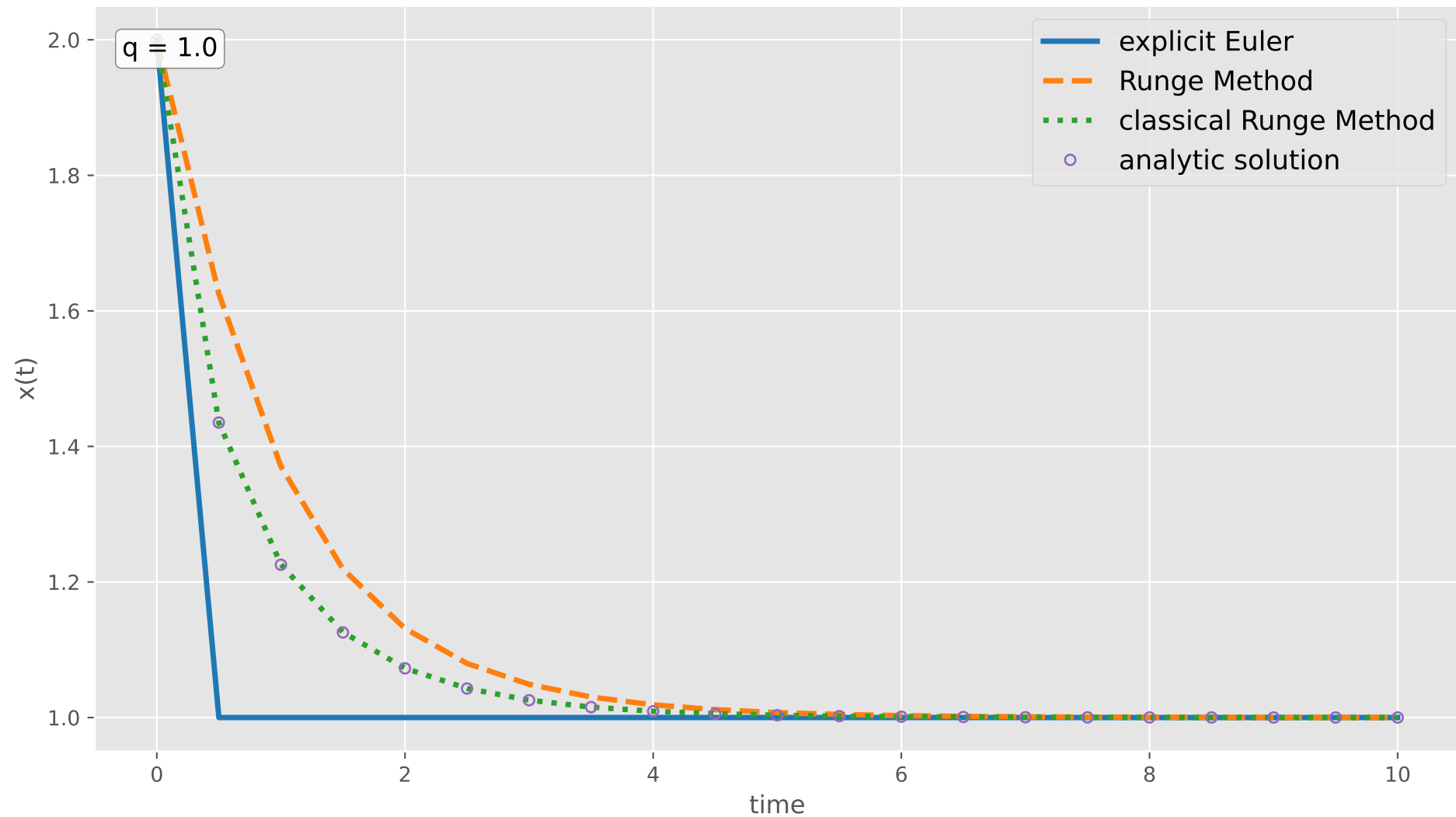
Lorenz trajectory separation



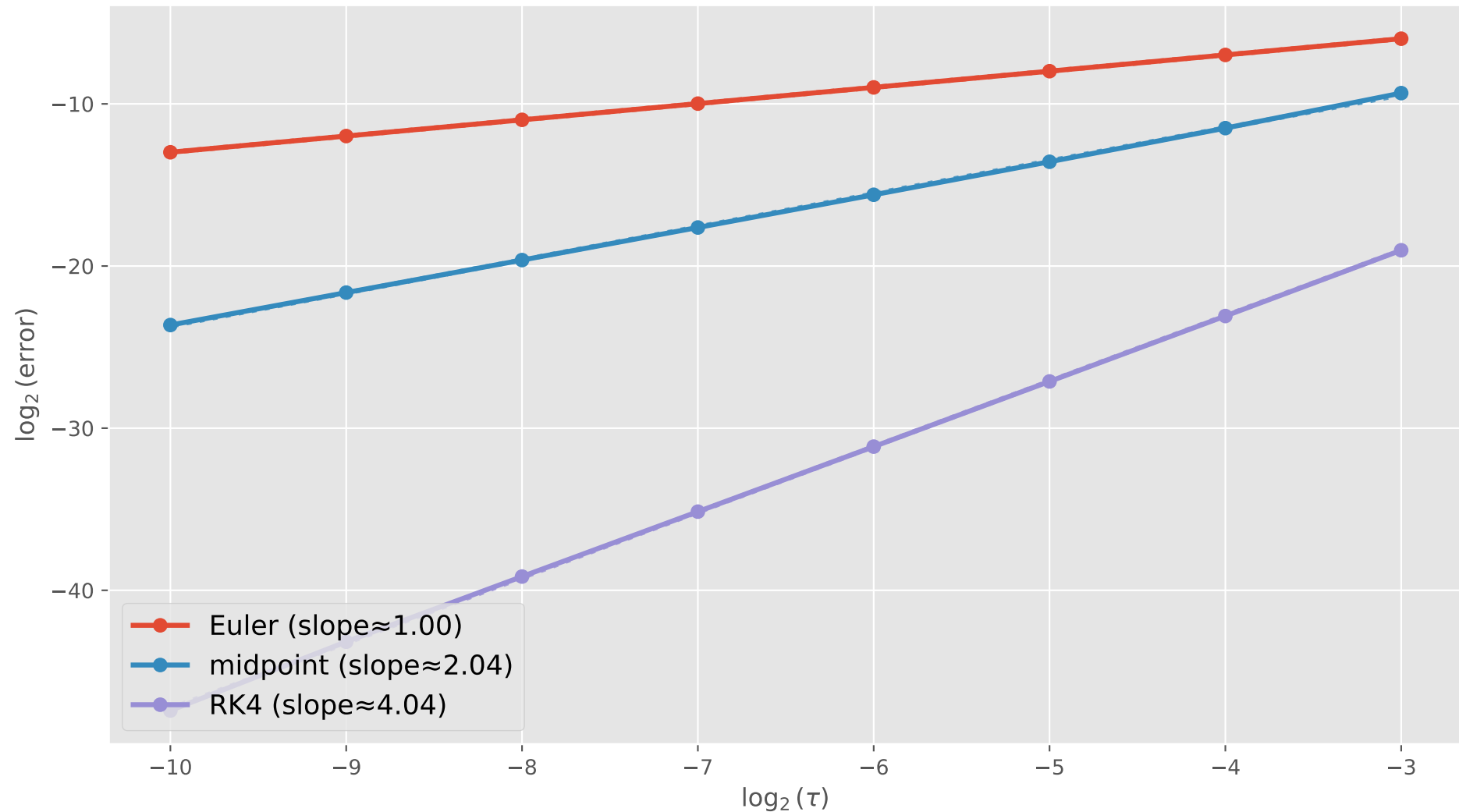
Approximation of the solution for different RK methods



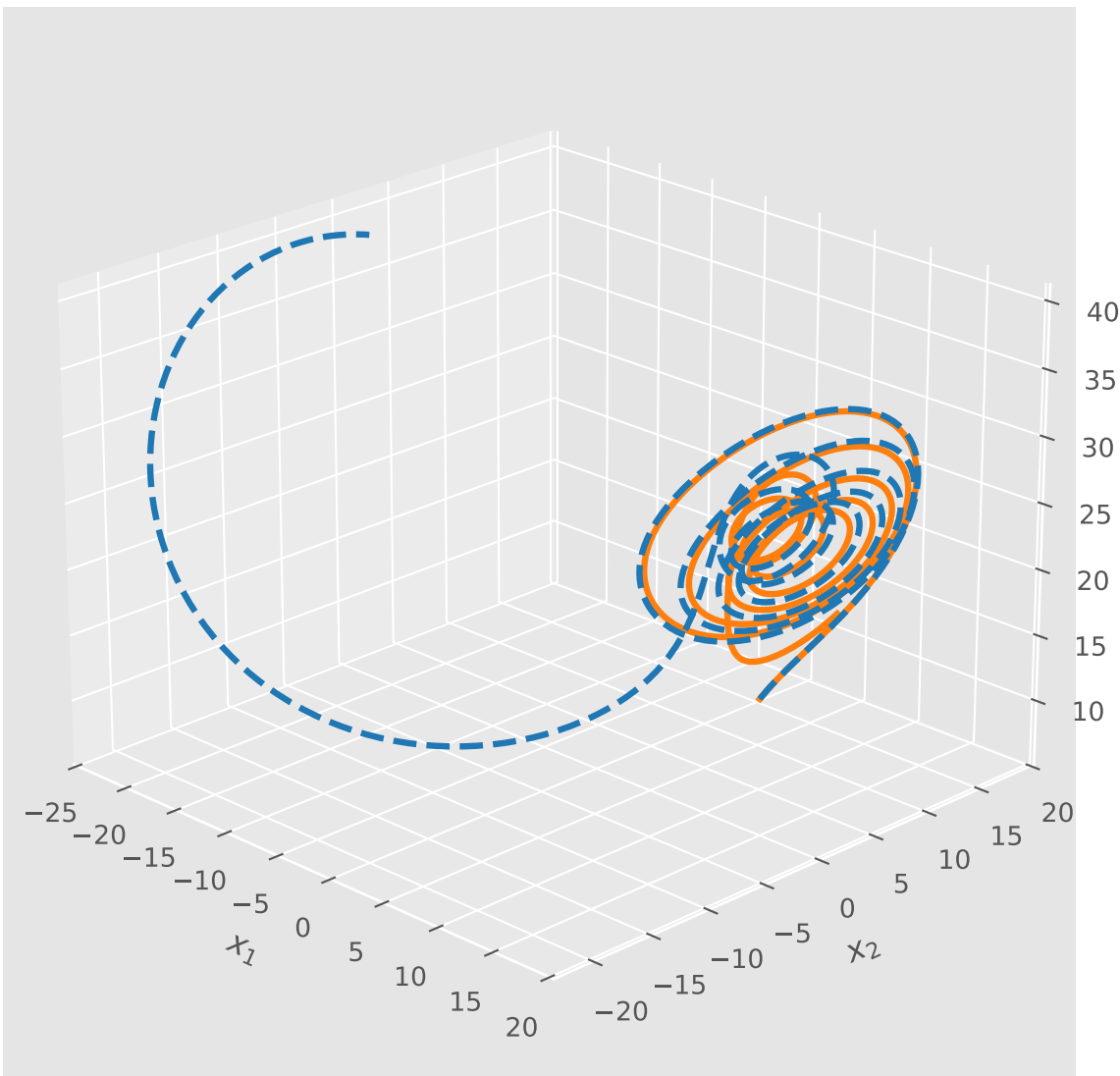
Approximation of the solution for different RK methods



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

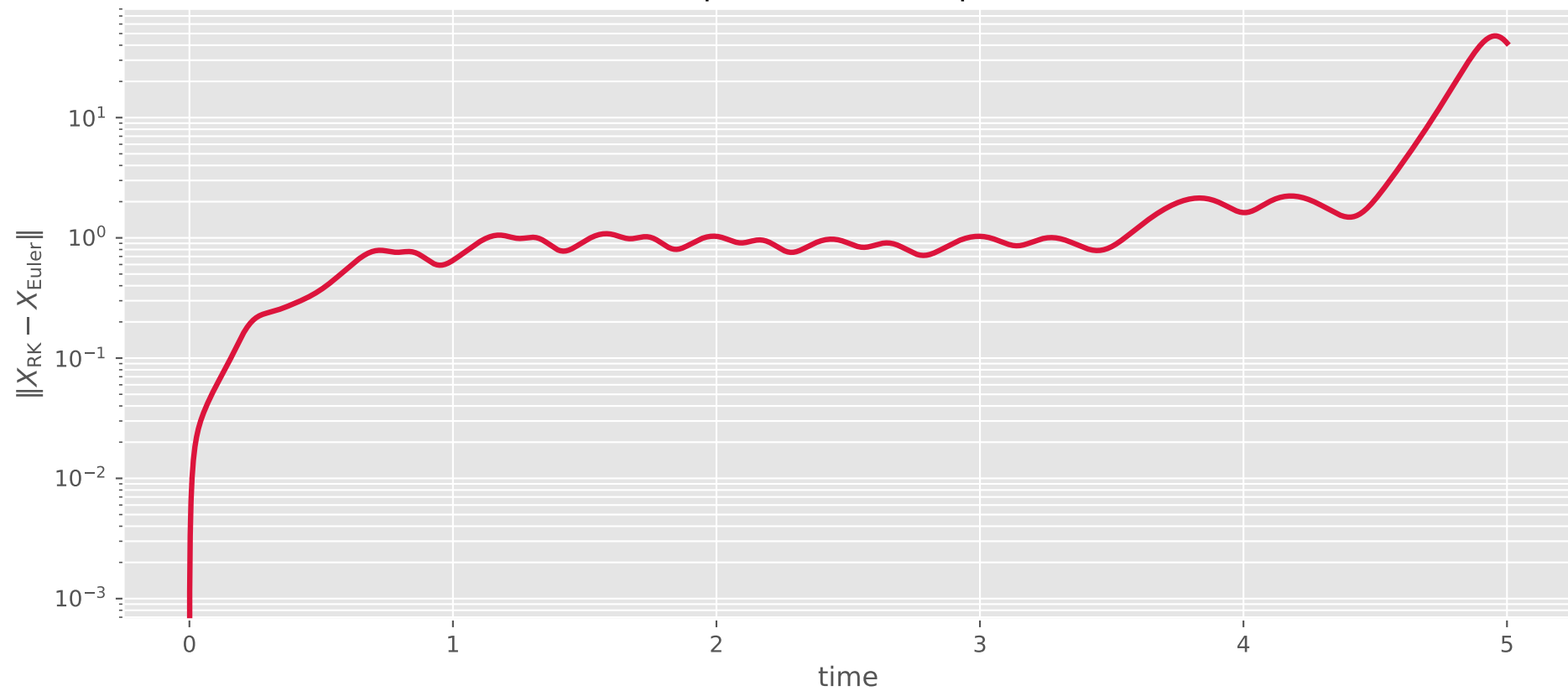


Forced Lorenz trajectories

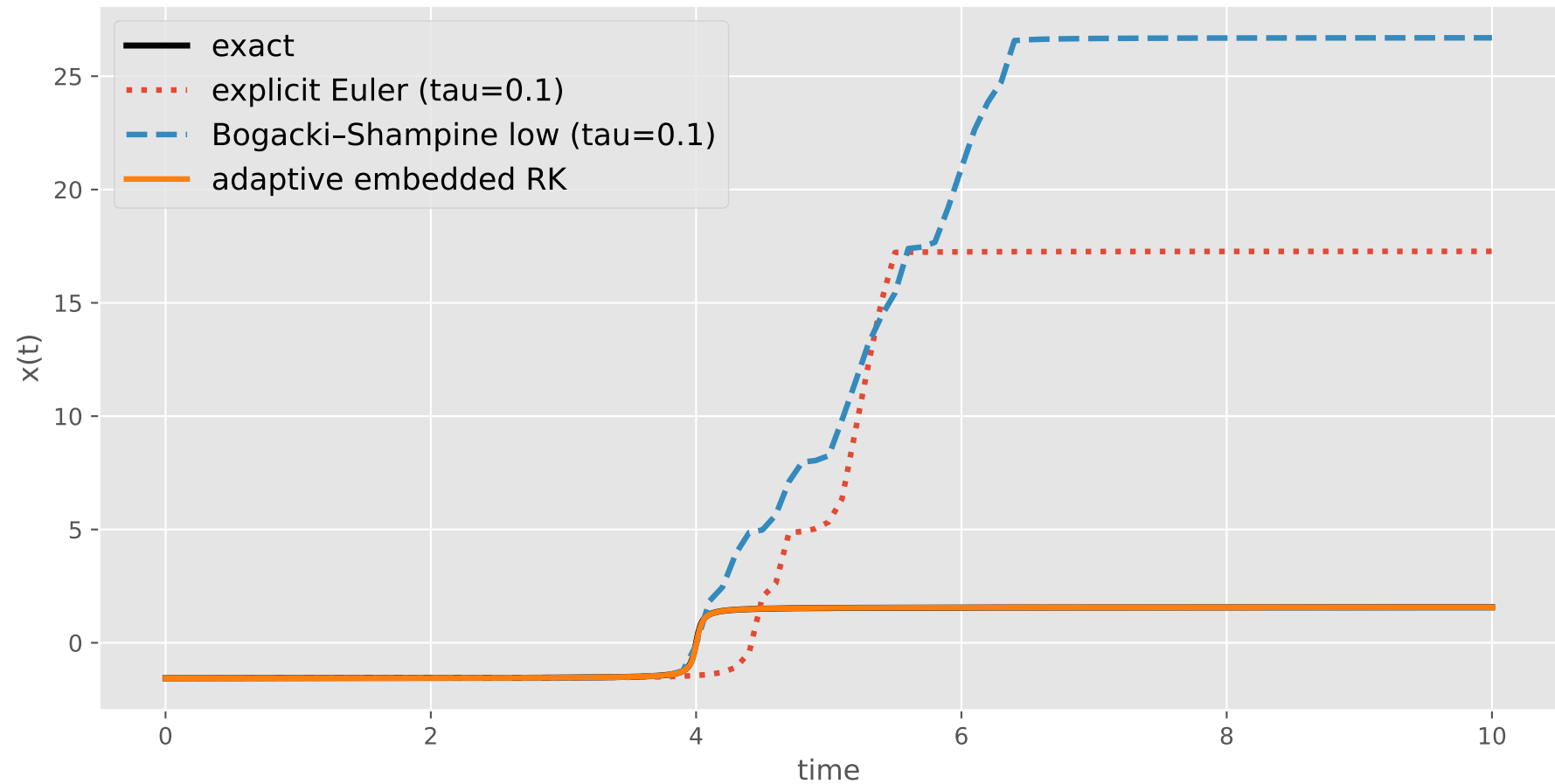


midpoint RK explicit Euler

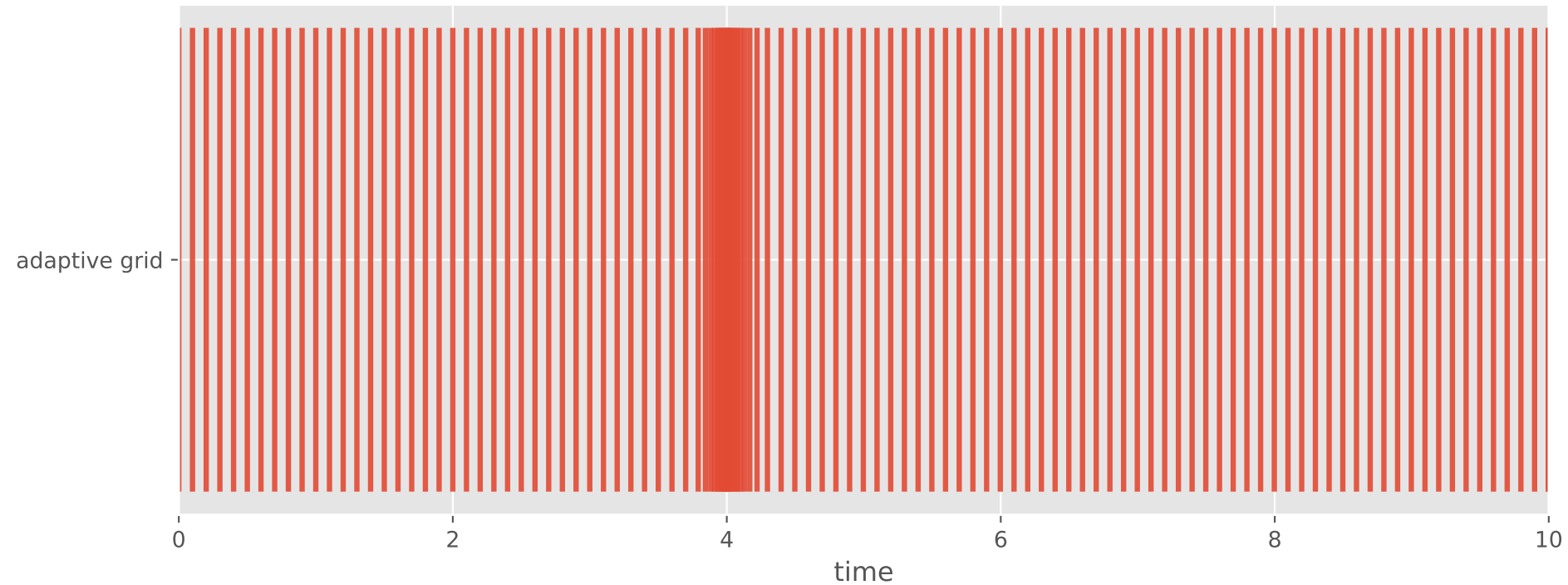
Difference between midpoint RK and explicit Euler (forced Lorenz)



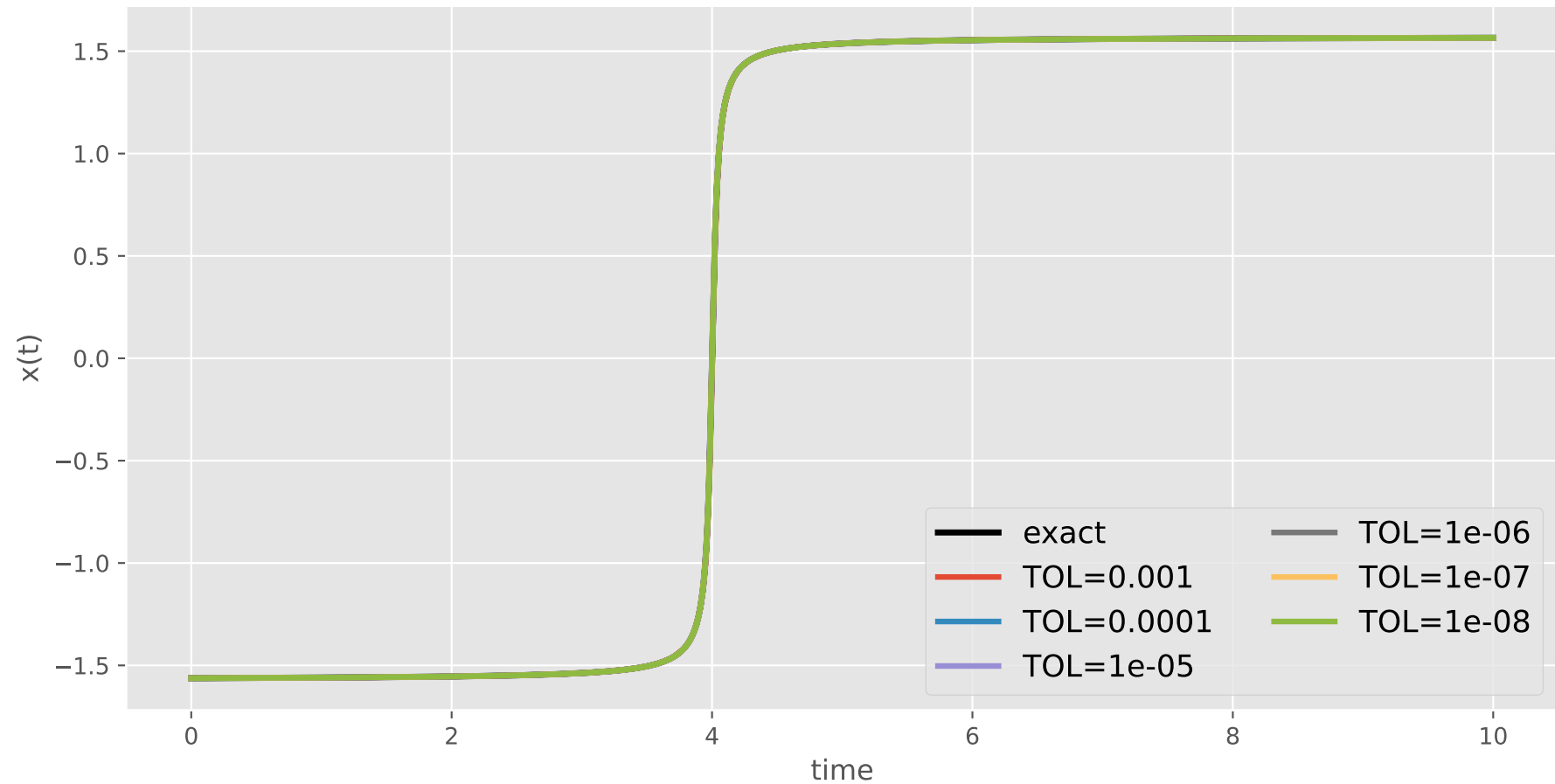
Arctan problem: adaptive BS23 vs references



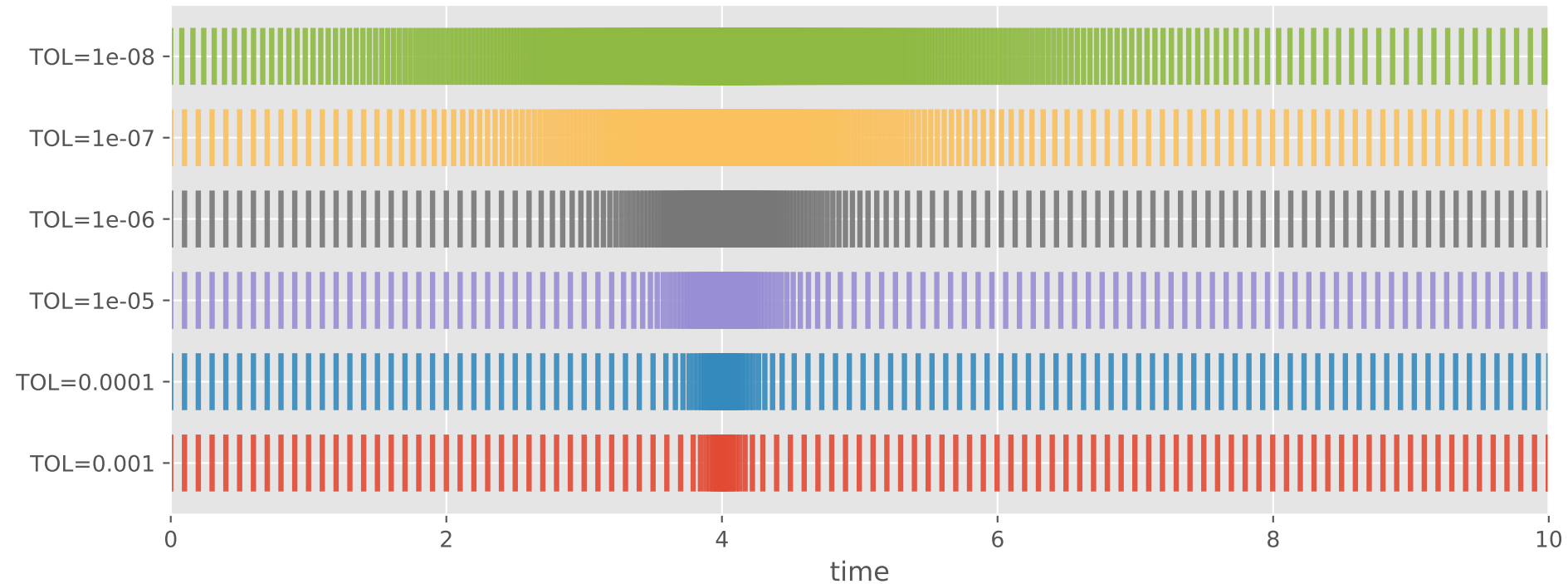
Adaptive discretization points (BS23)



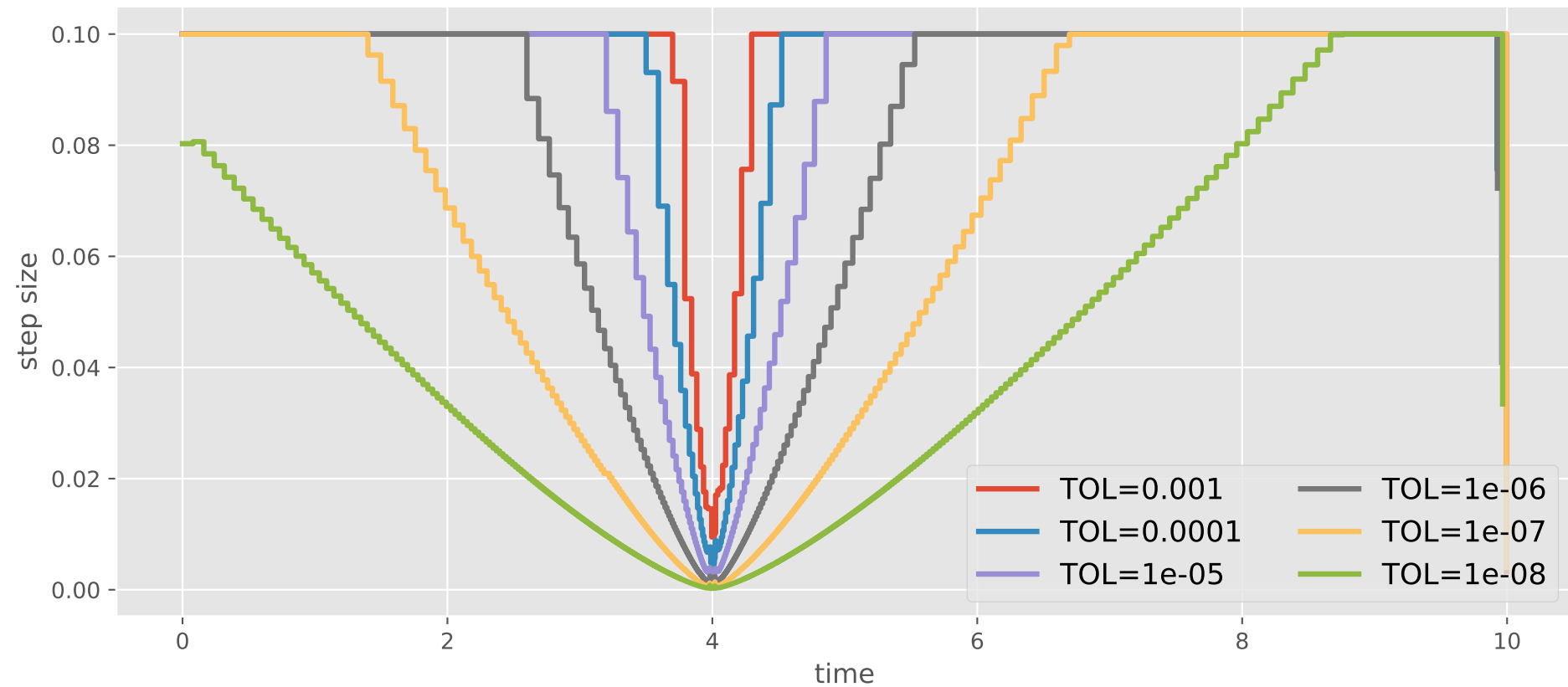
Approximations for various TOL



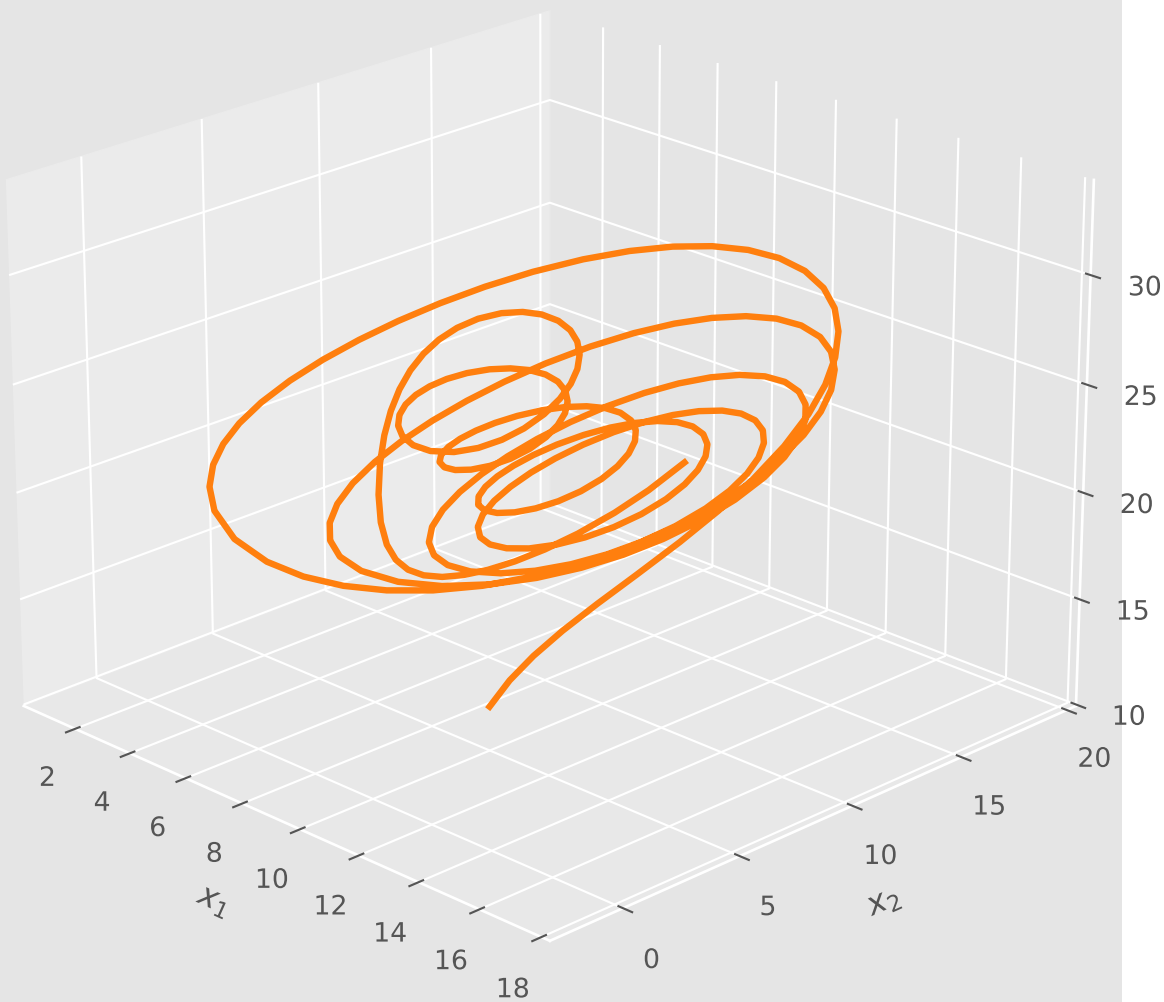
Adaptive grids for different tolerances



Step sizes over time for different TOL



Forced Lorenz (adaptive BS23)



Adaptive step sizes (Lorenz)

