Arctan problem: adaptive BS23 vs references

- exact
- explicit Euler (tau=0.1)
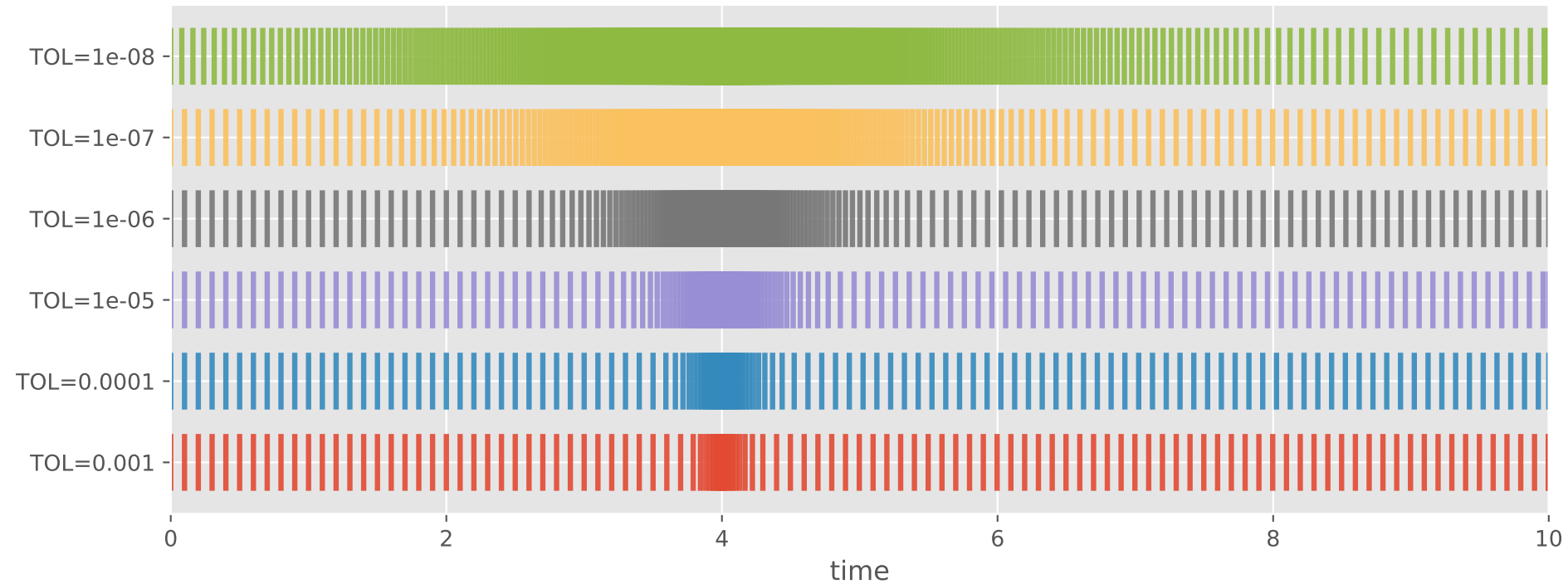- Bogacki–Shampine low (tau=0.1)
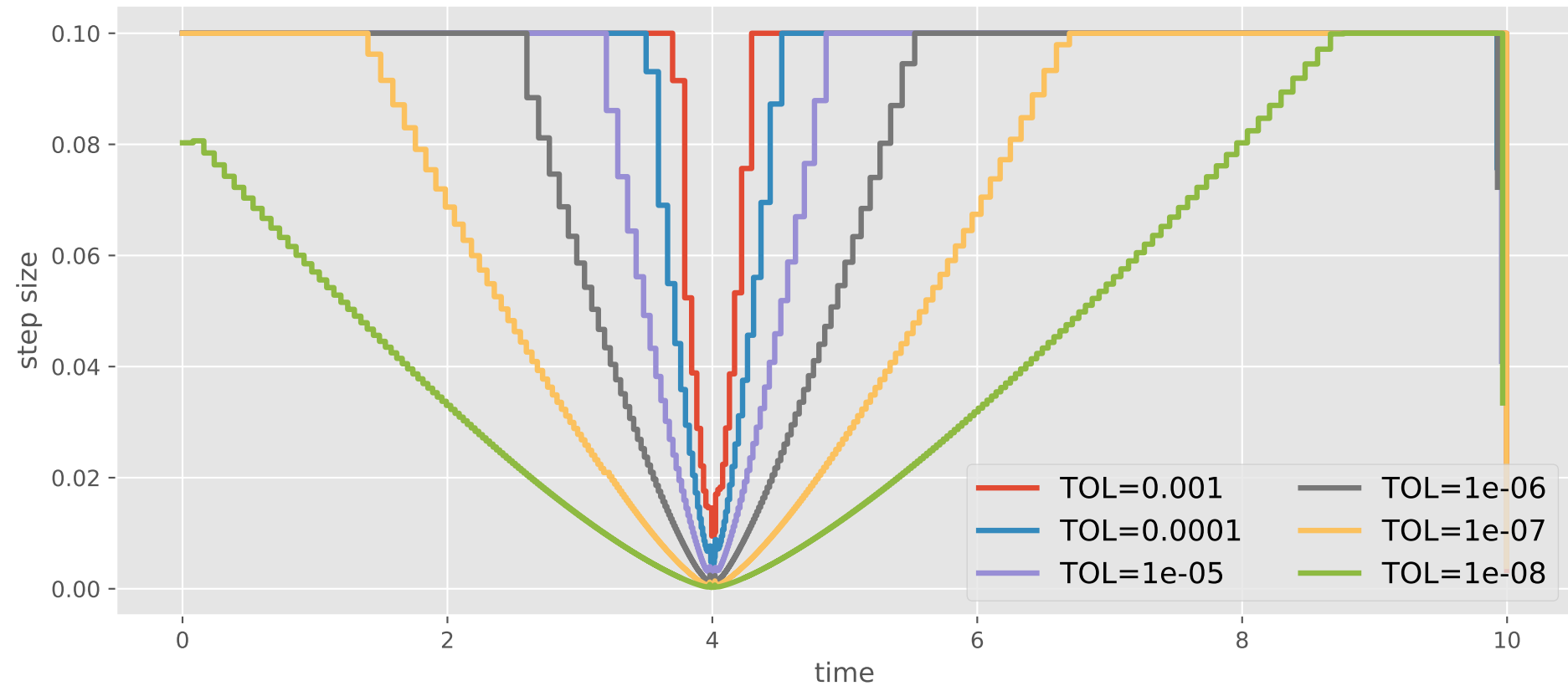- adaptive embedded RK

Adaptive discretization points (BS23)
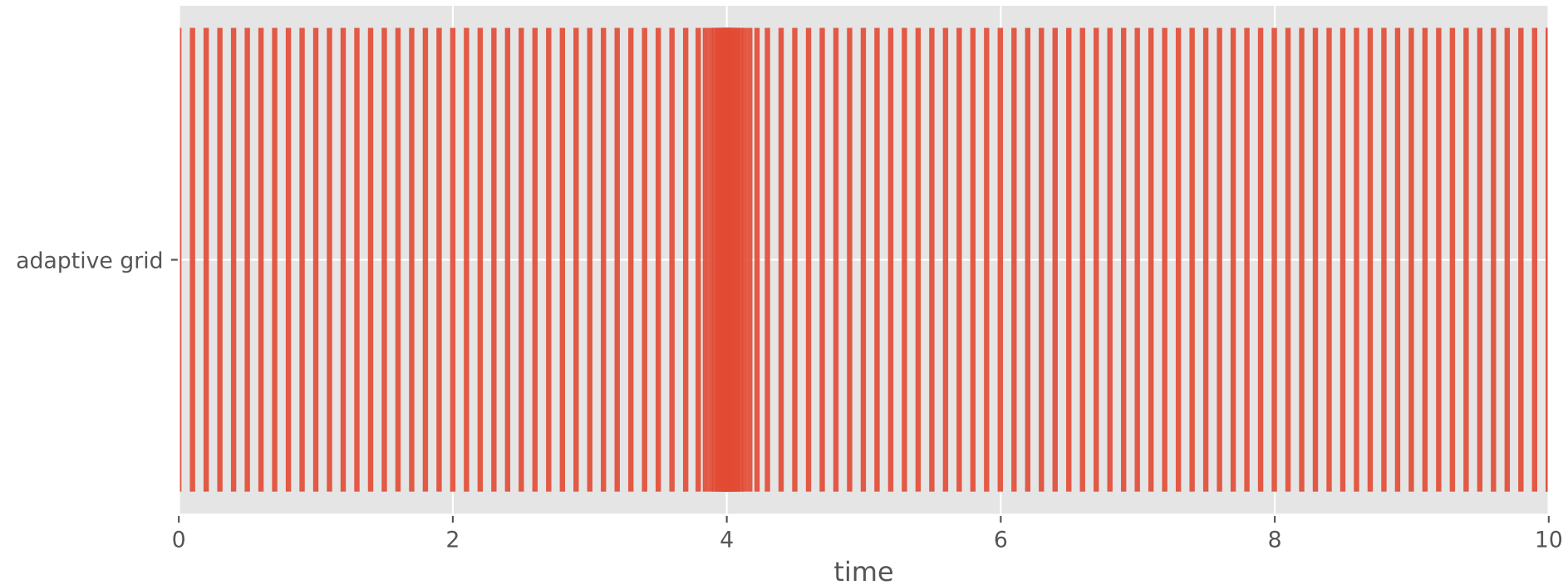
Approximations for various TOL
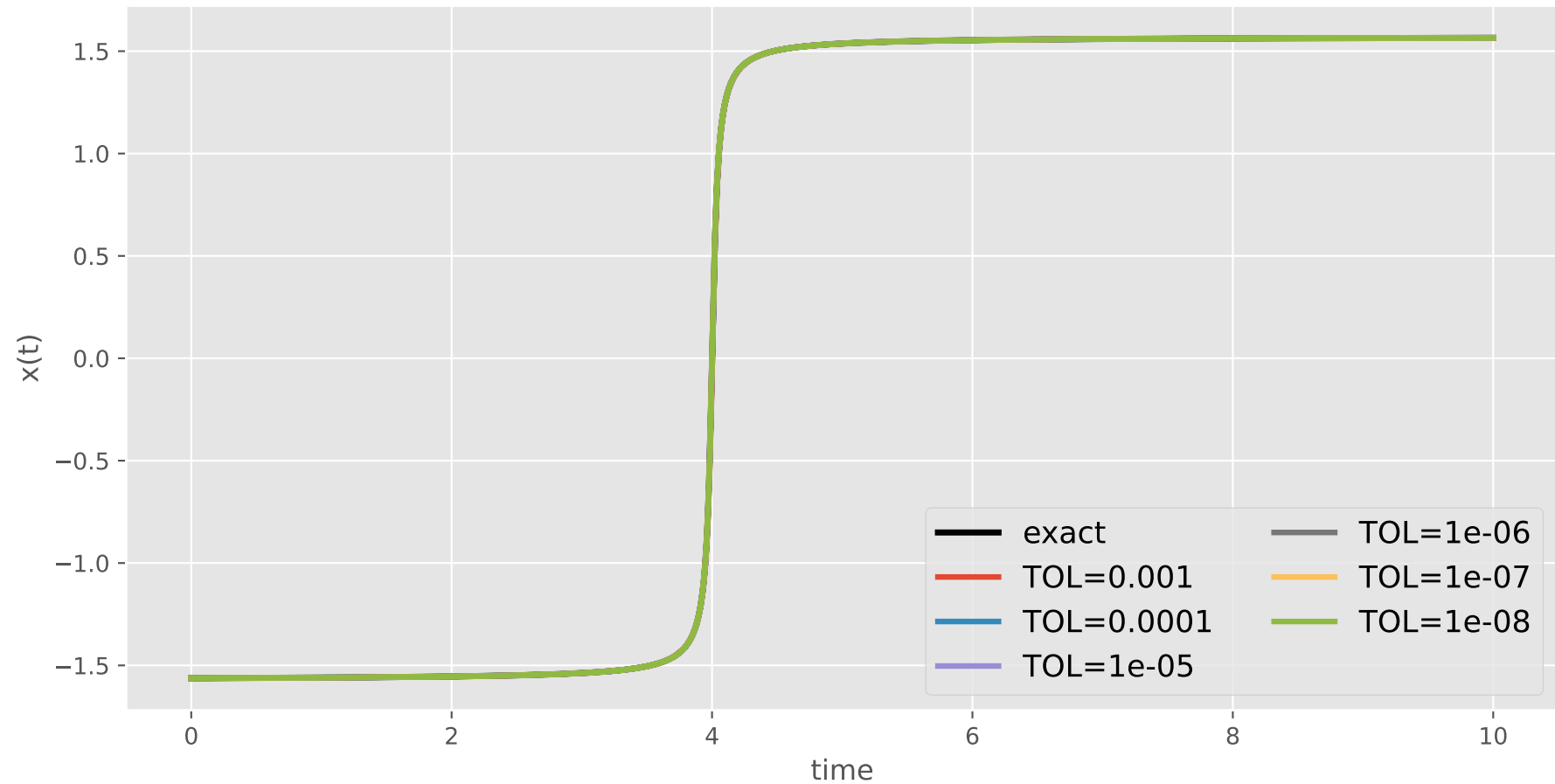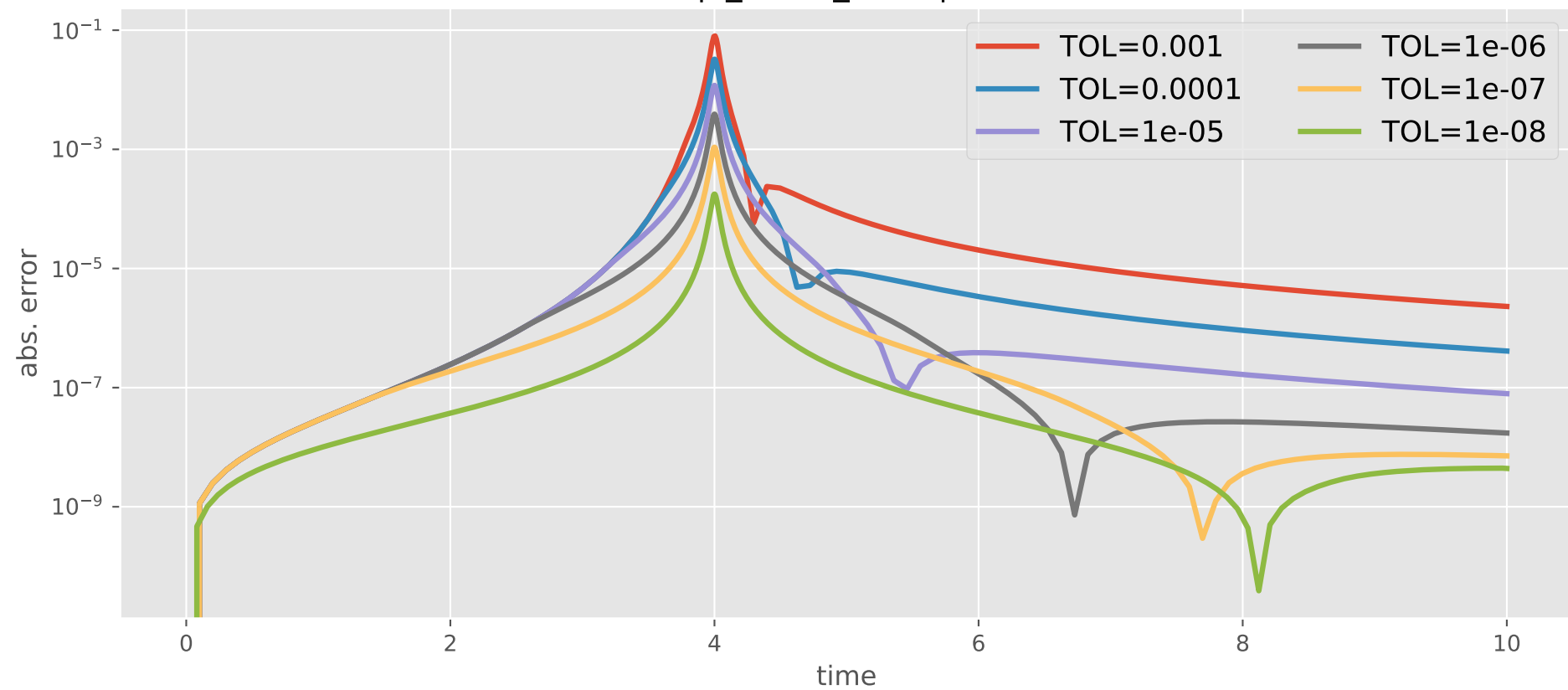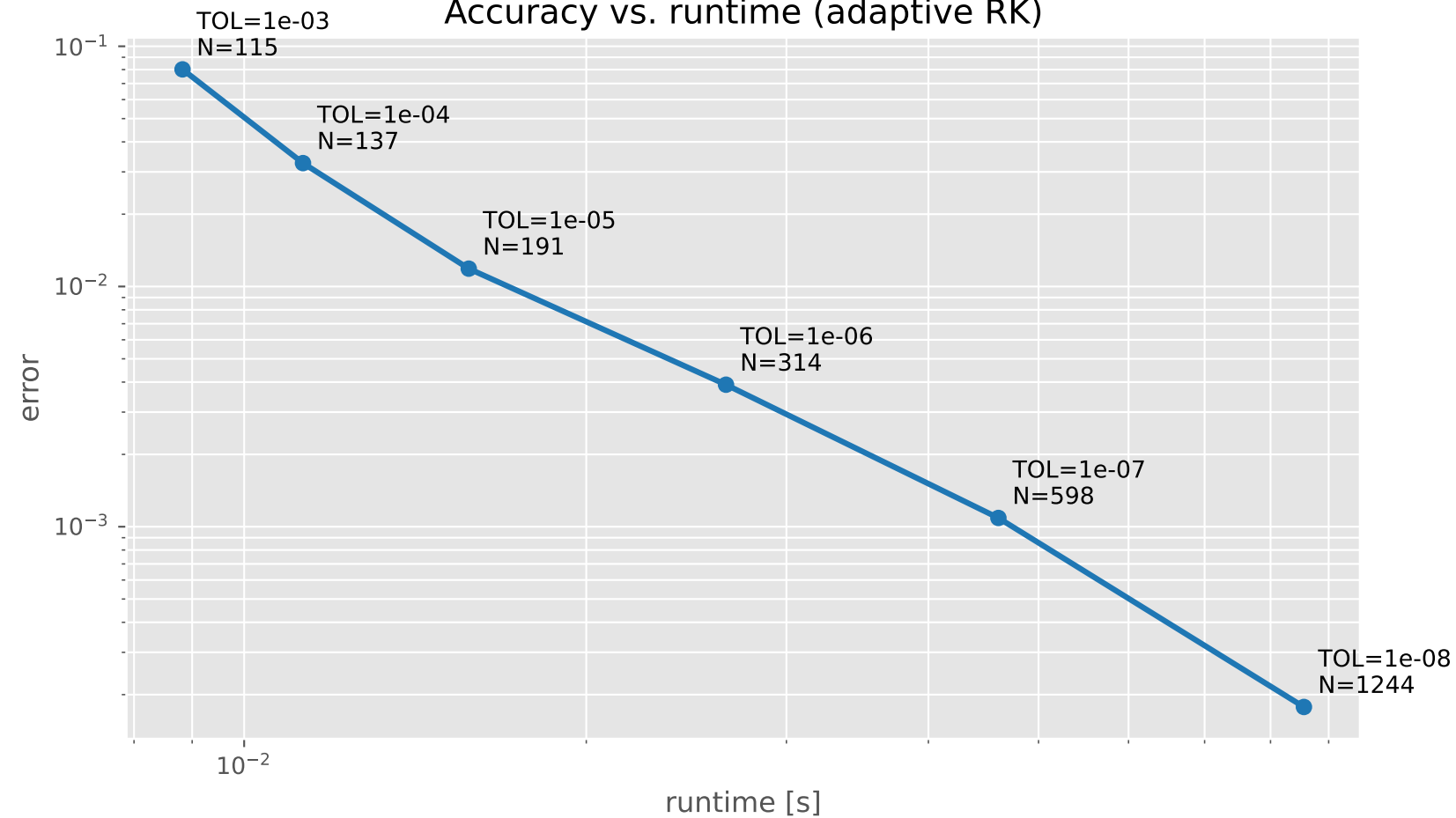
Adaptive grids for different tolerances
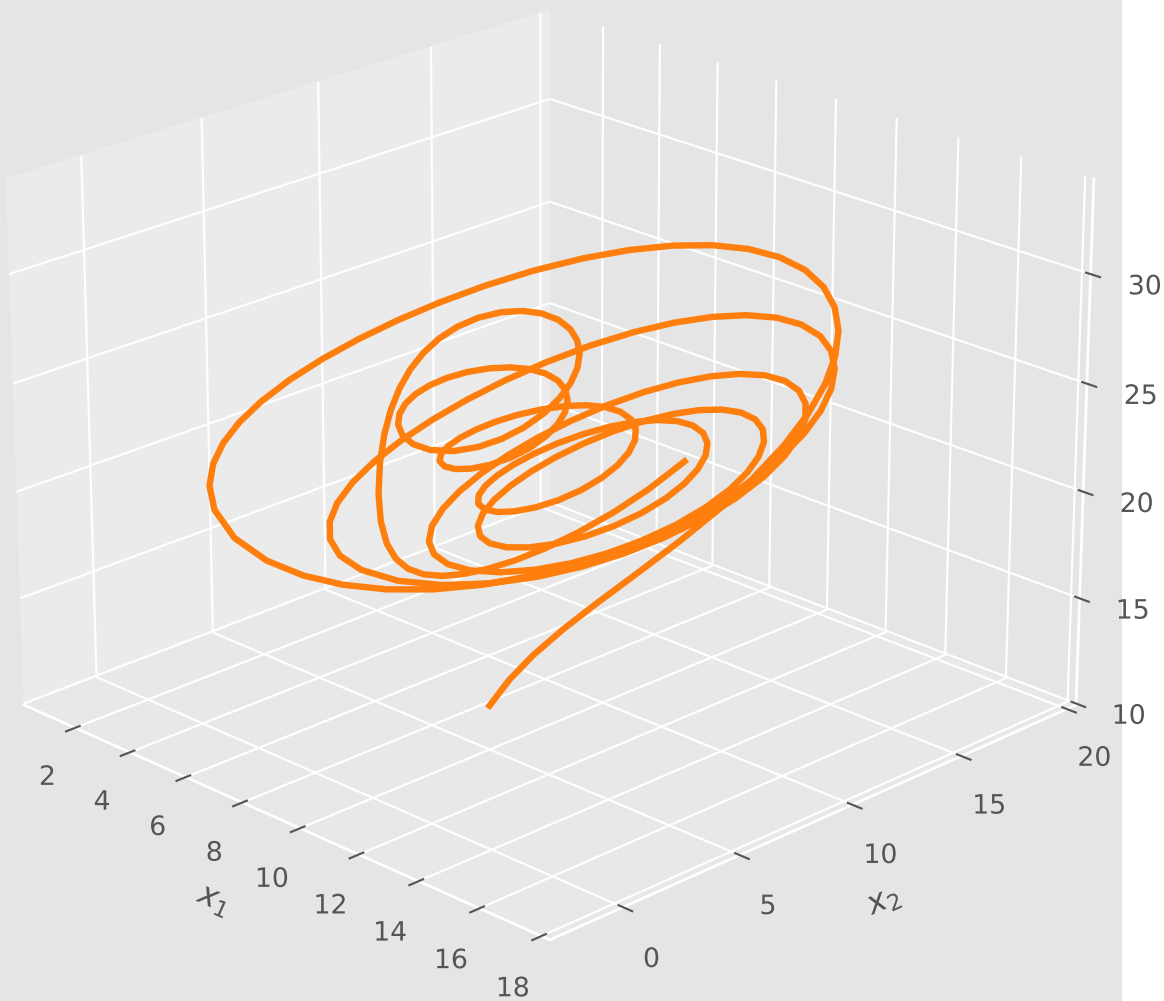
Step sizes over time for different TOL

Grid error |x_ad - x_exact| for each TOL

Accuracy vs. runtime (adaptive RK)

Forced Lorenz (adaptive BS23)

Adaptive step sizes (Lorenz)