**Position on X-Y Plane**
**(M1=8.0, M2=2.0, e=0.5, rp=0.01, T=0.01)**

**ΔE evolution**
**(M1=8.0, M2=2.0, e=0.5, rp=0.01, T=0.01)**
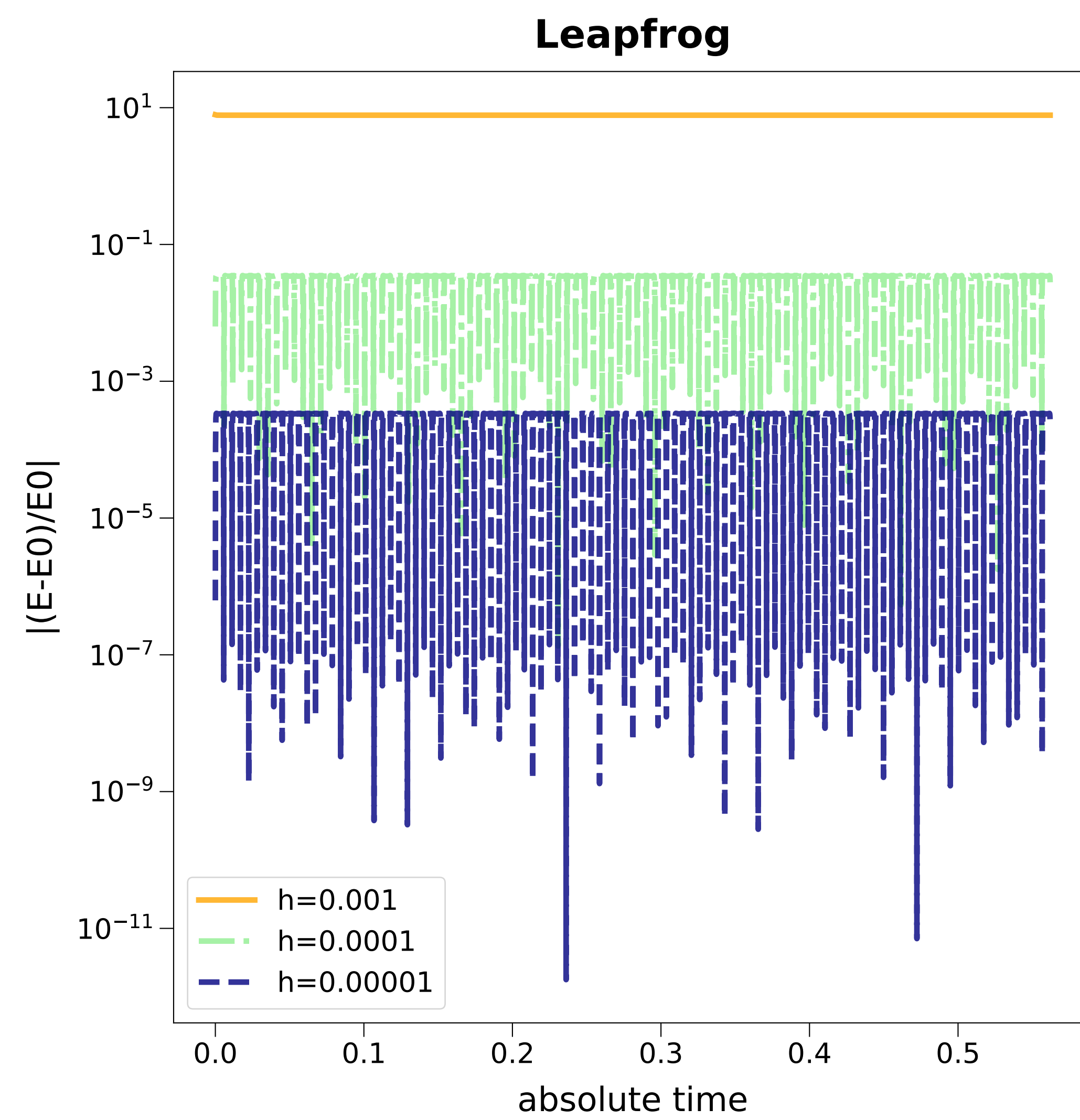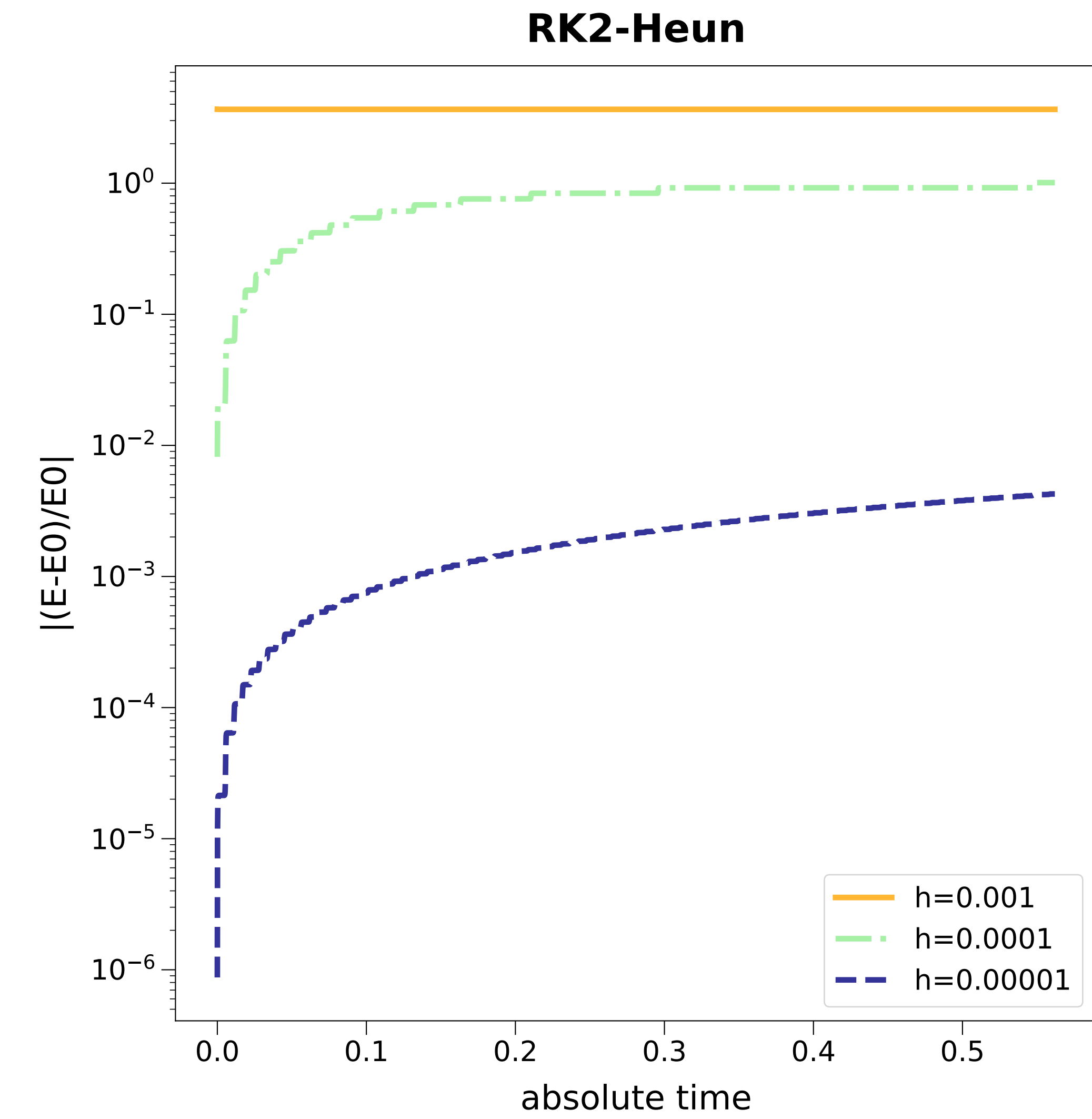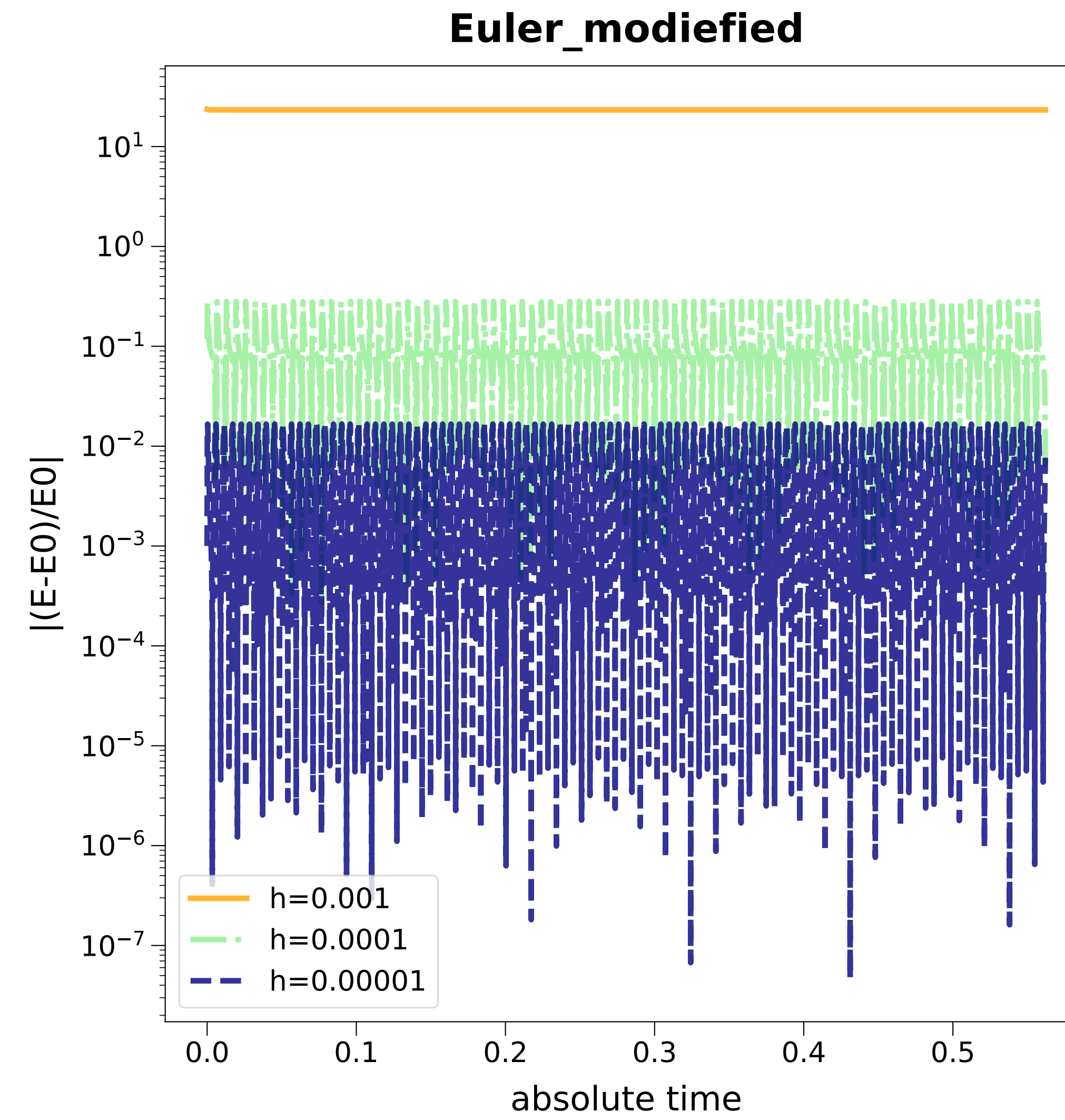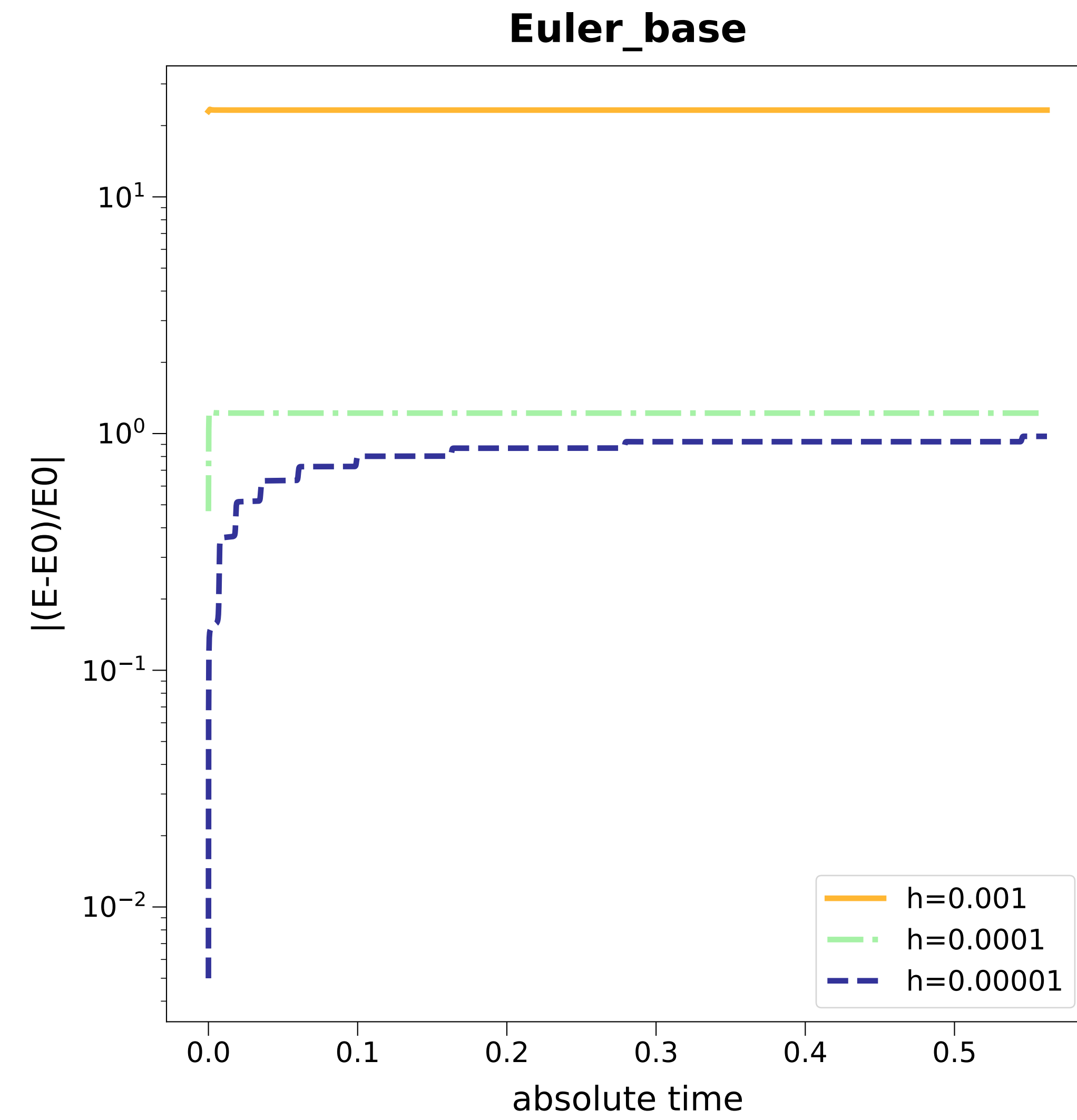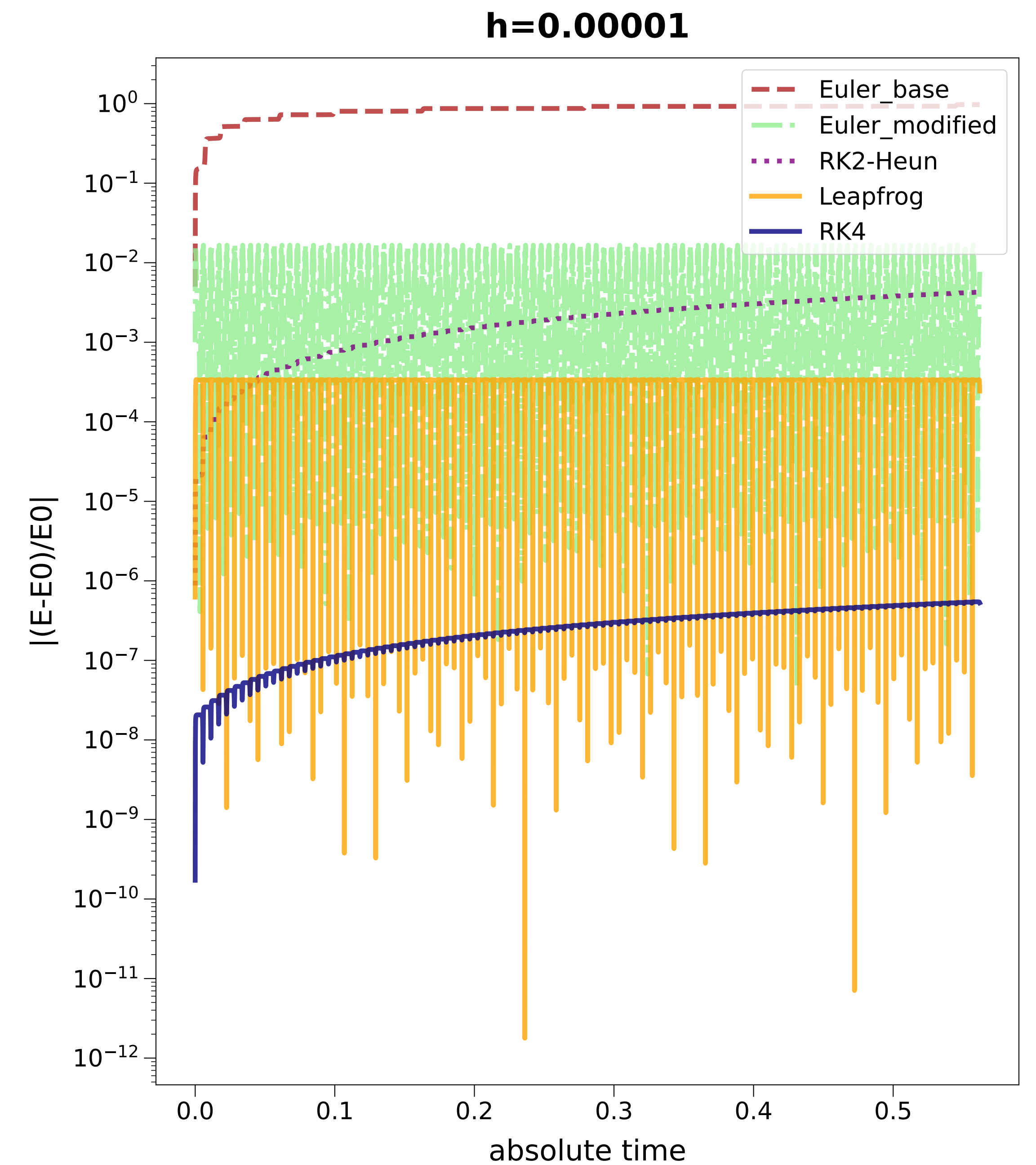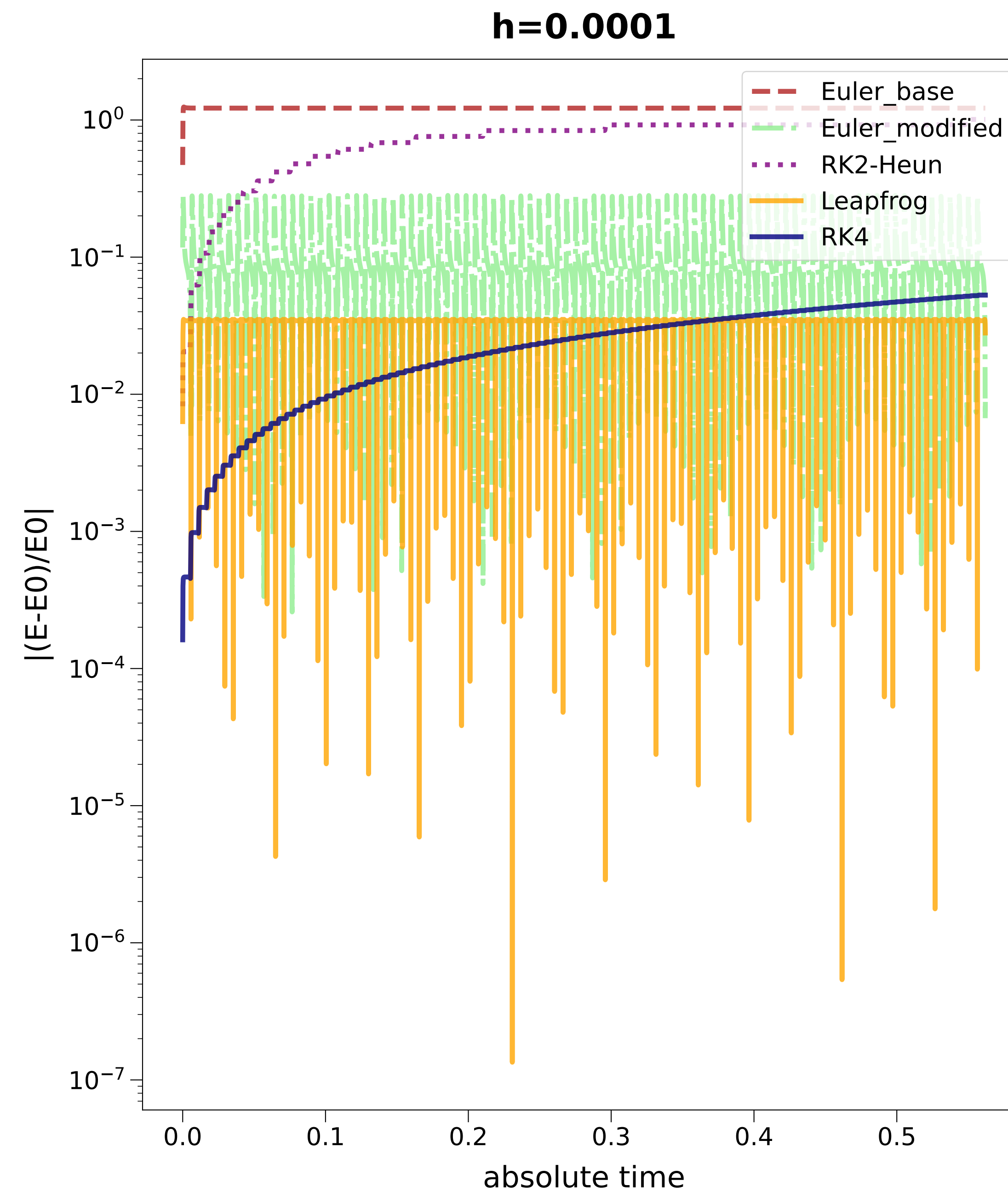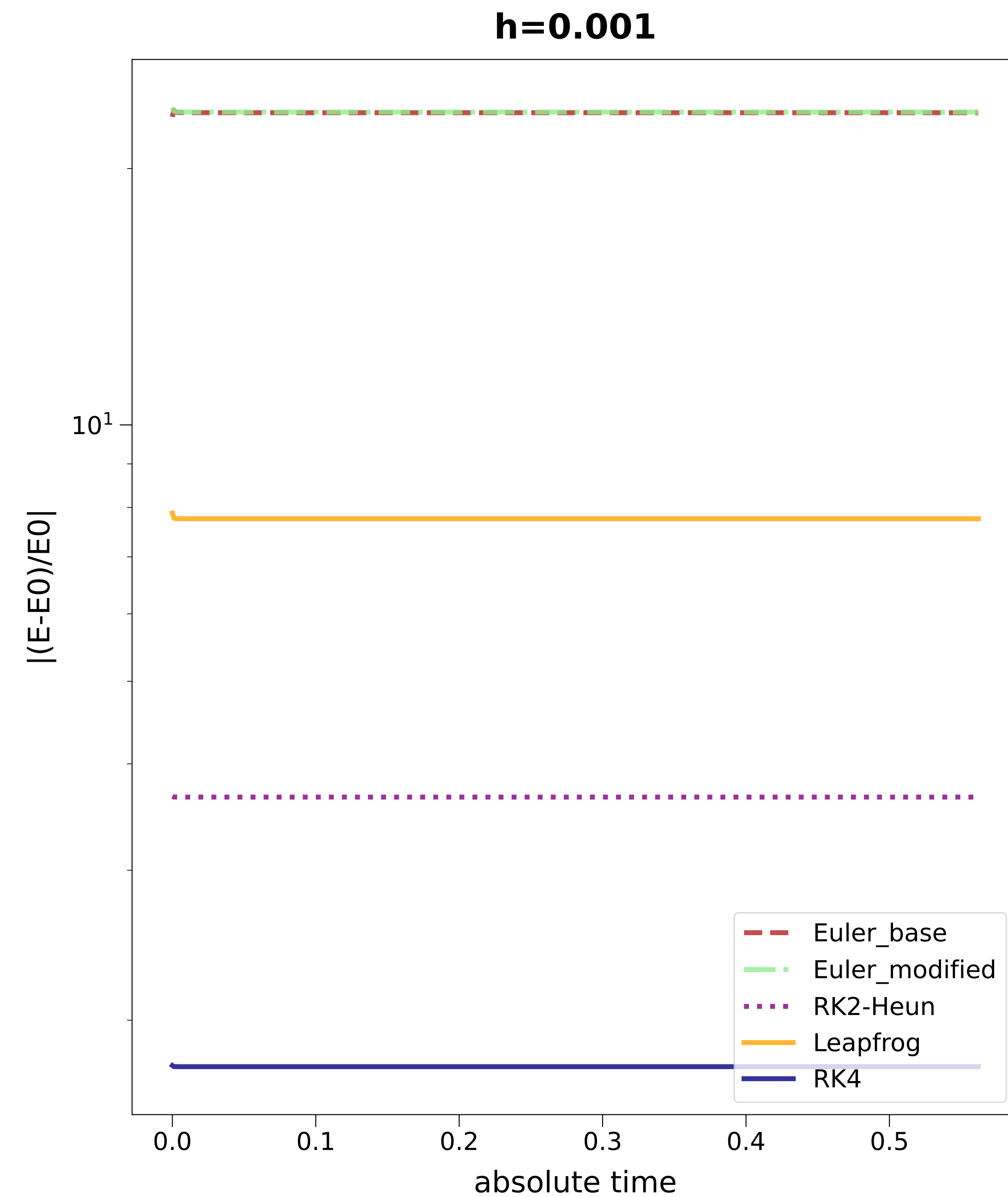
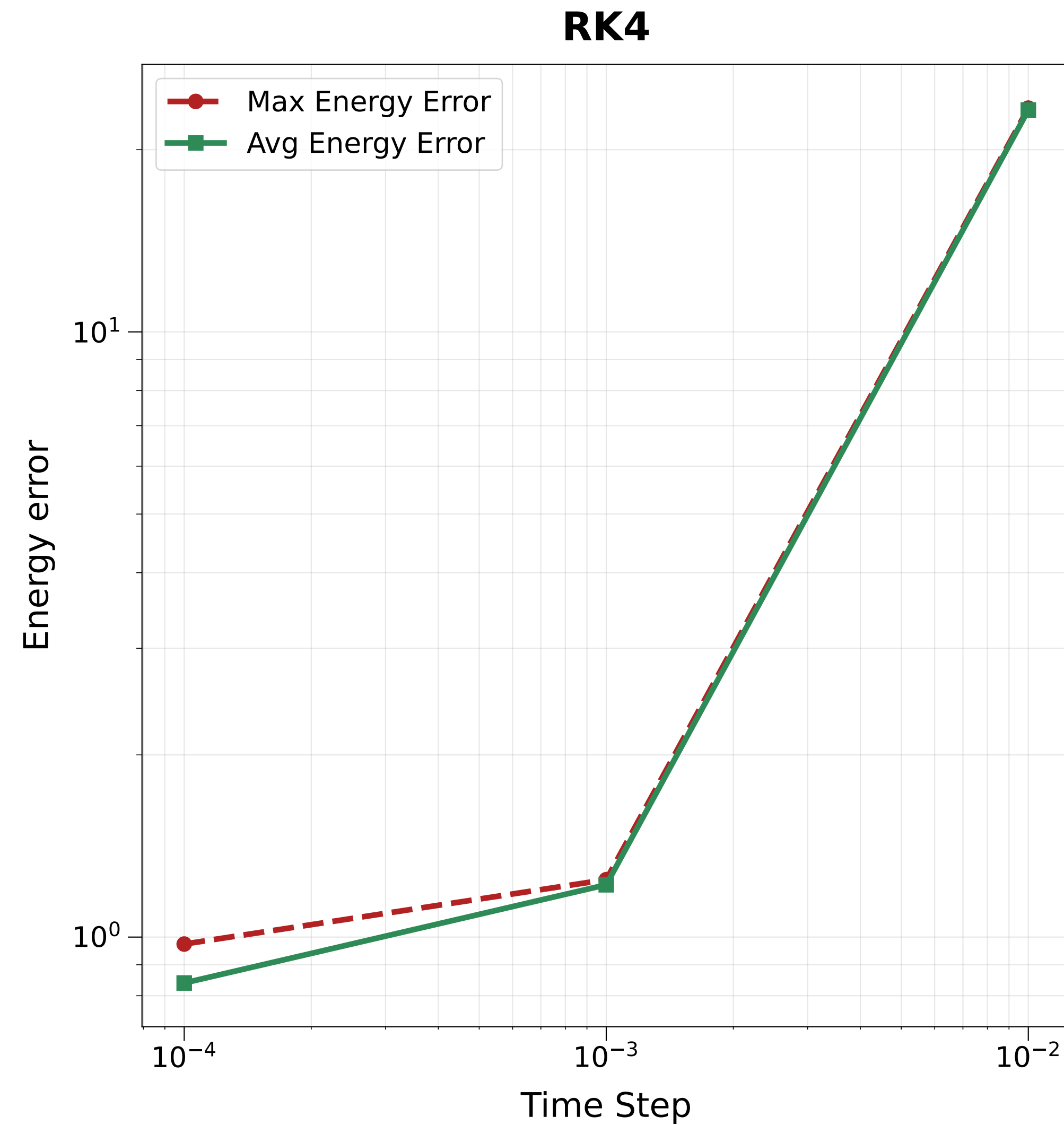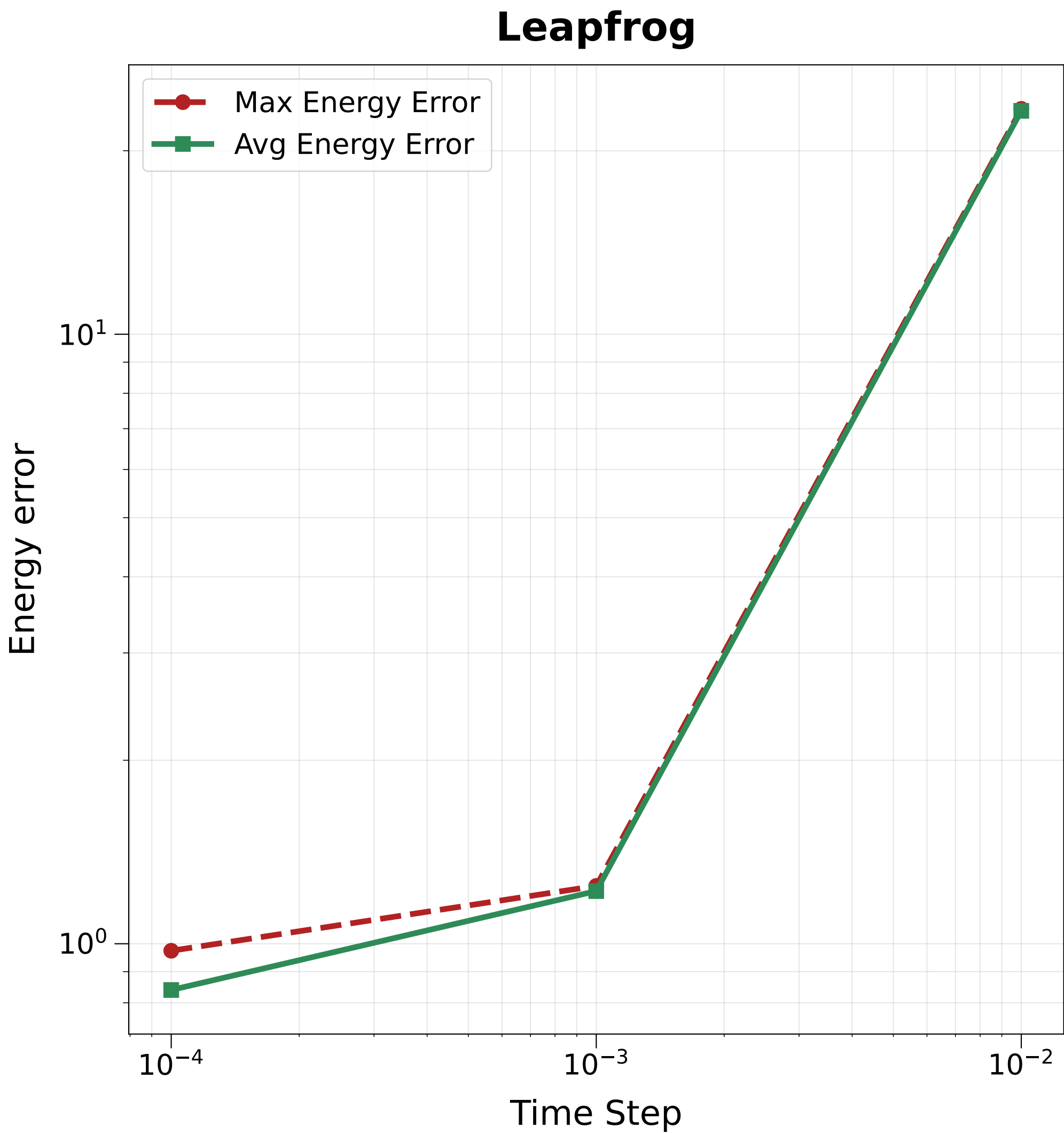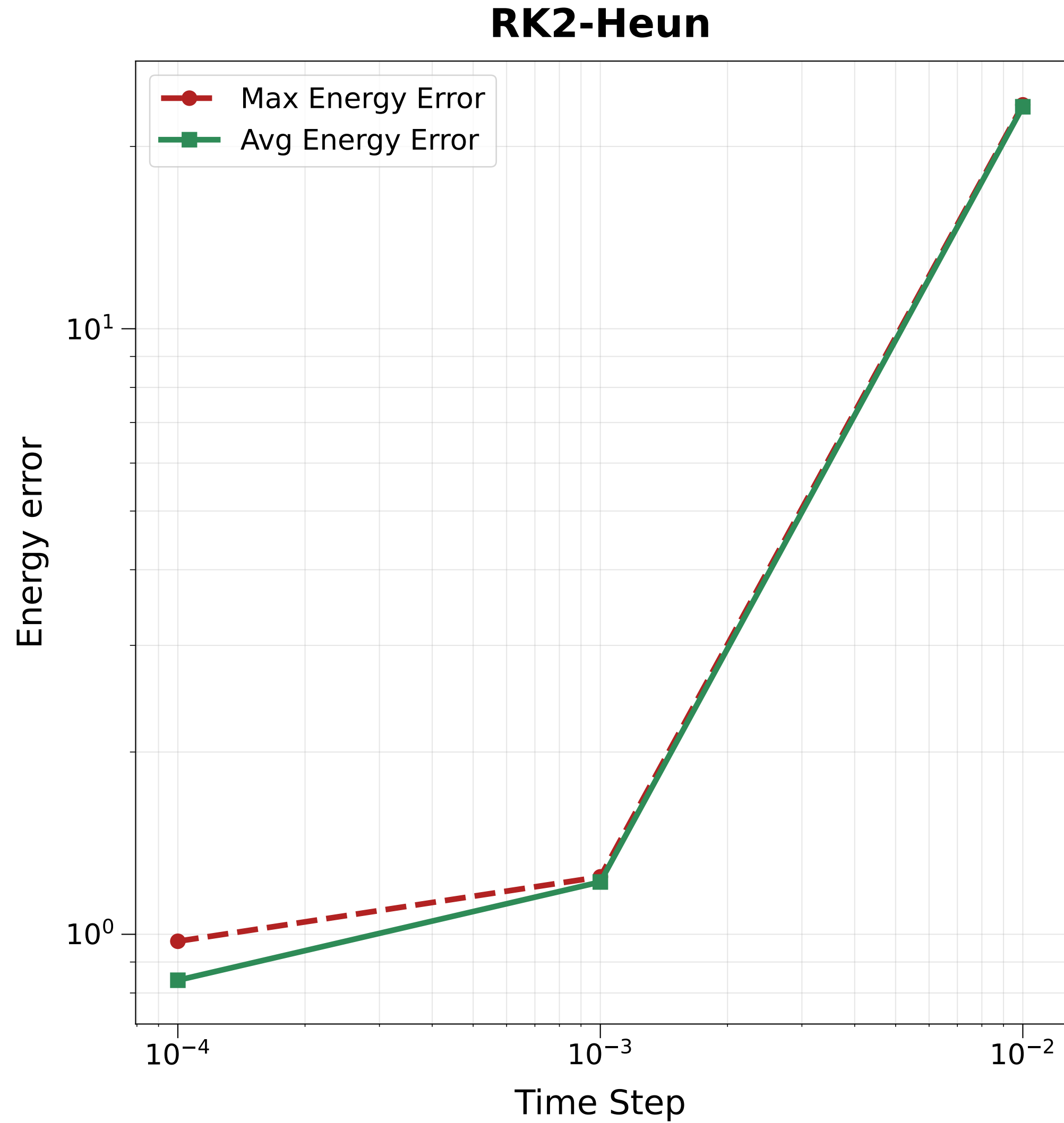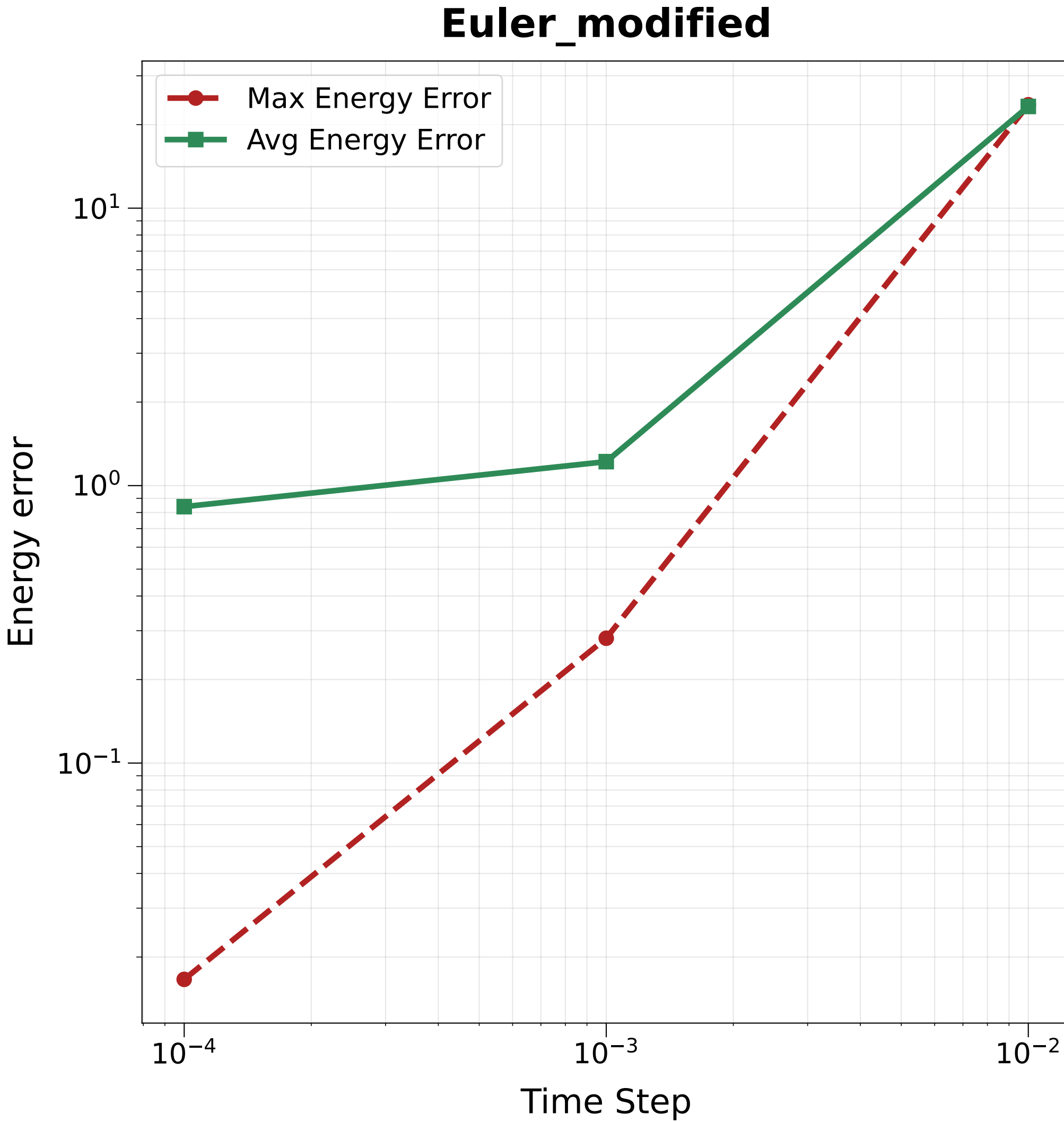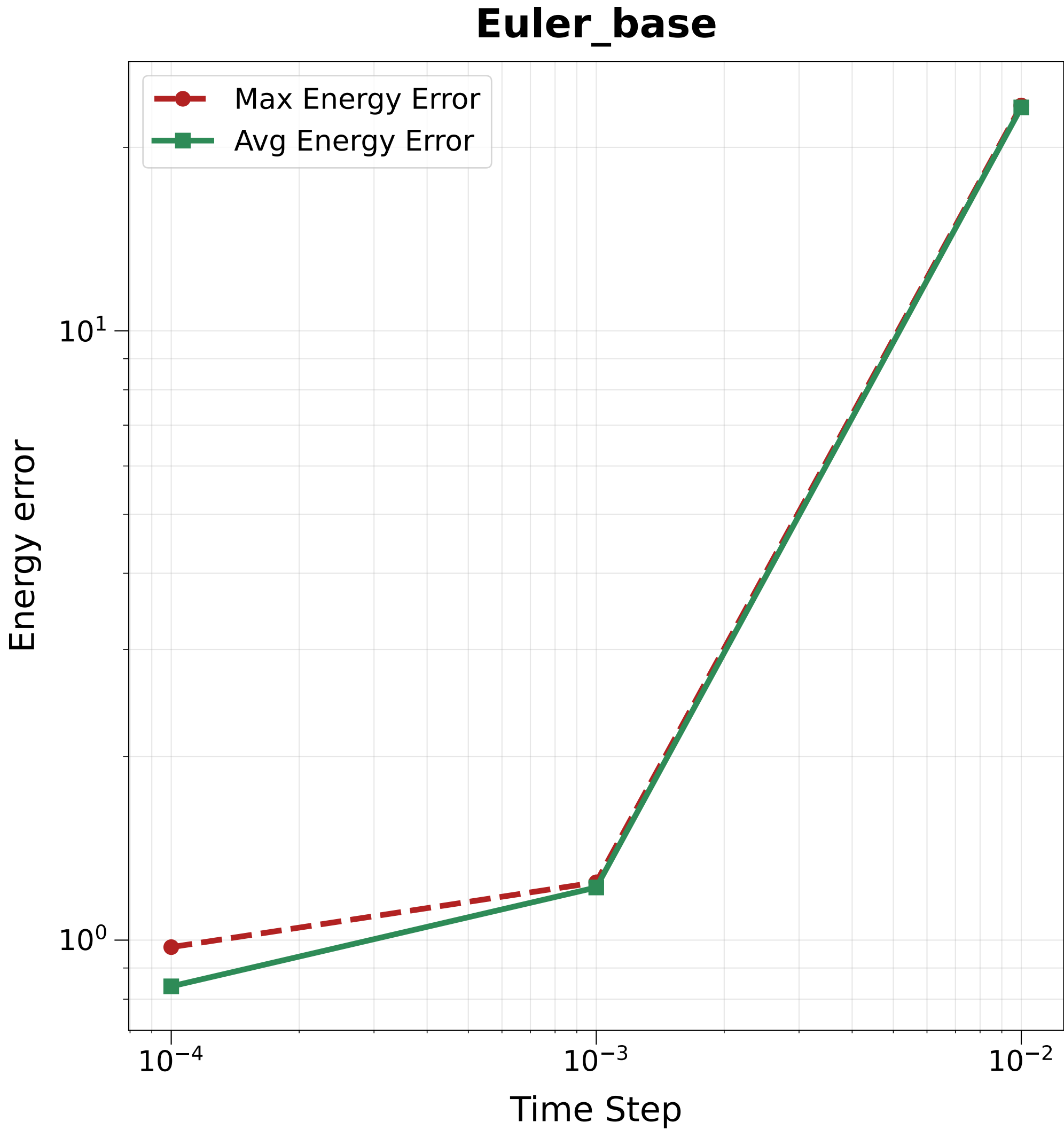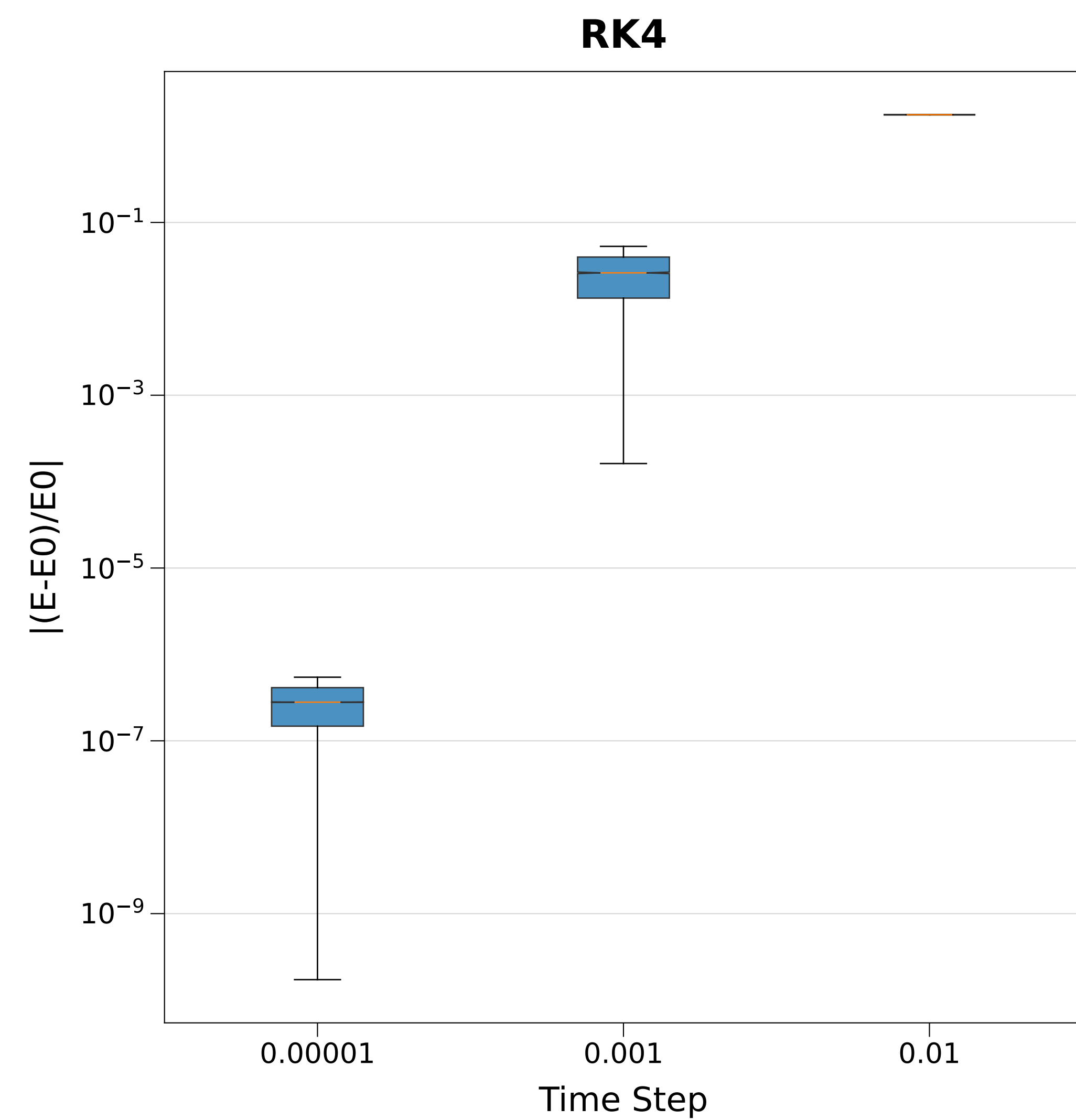ΔE evolution
(M1=8.0, M2=2.0, e=0.5, rp=0.01, T=0.01)

**h=0.001**

**h=0.0001**

**h=0.00001**

Legend:
- Euler_base
- Euler_modified
- RK2-Heun
- Leapfrog
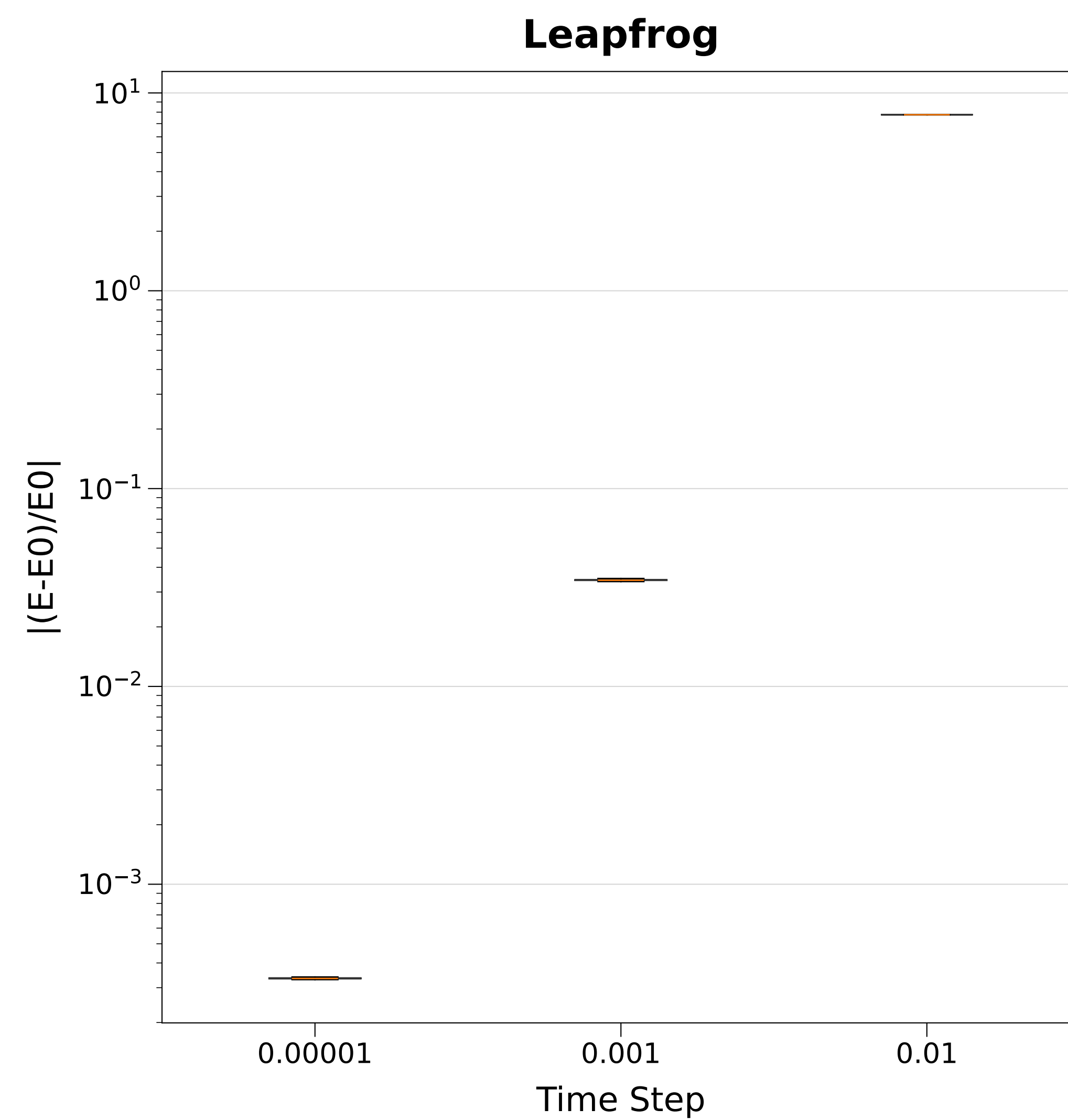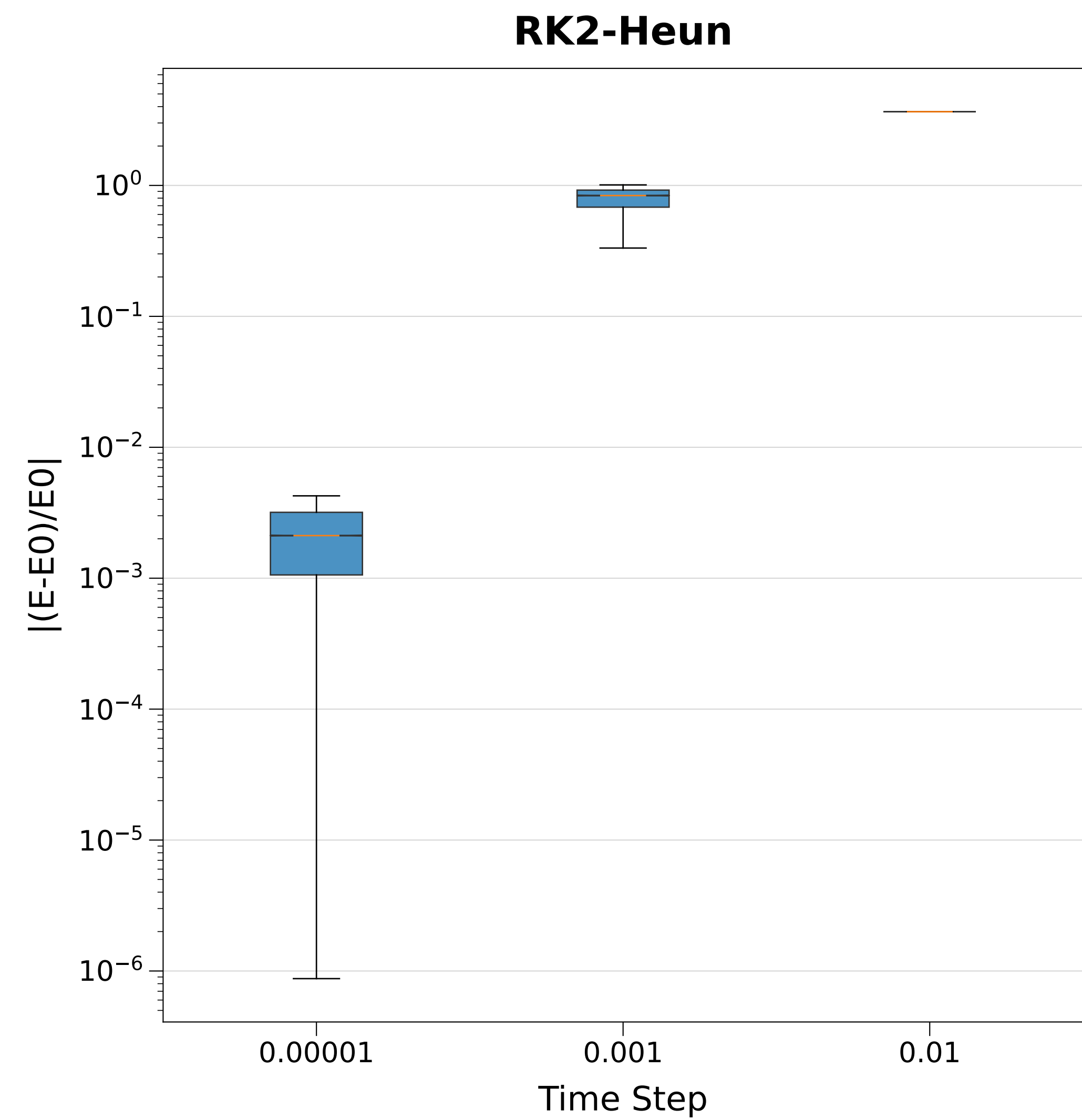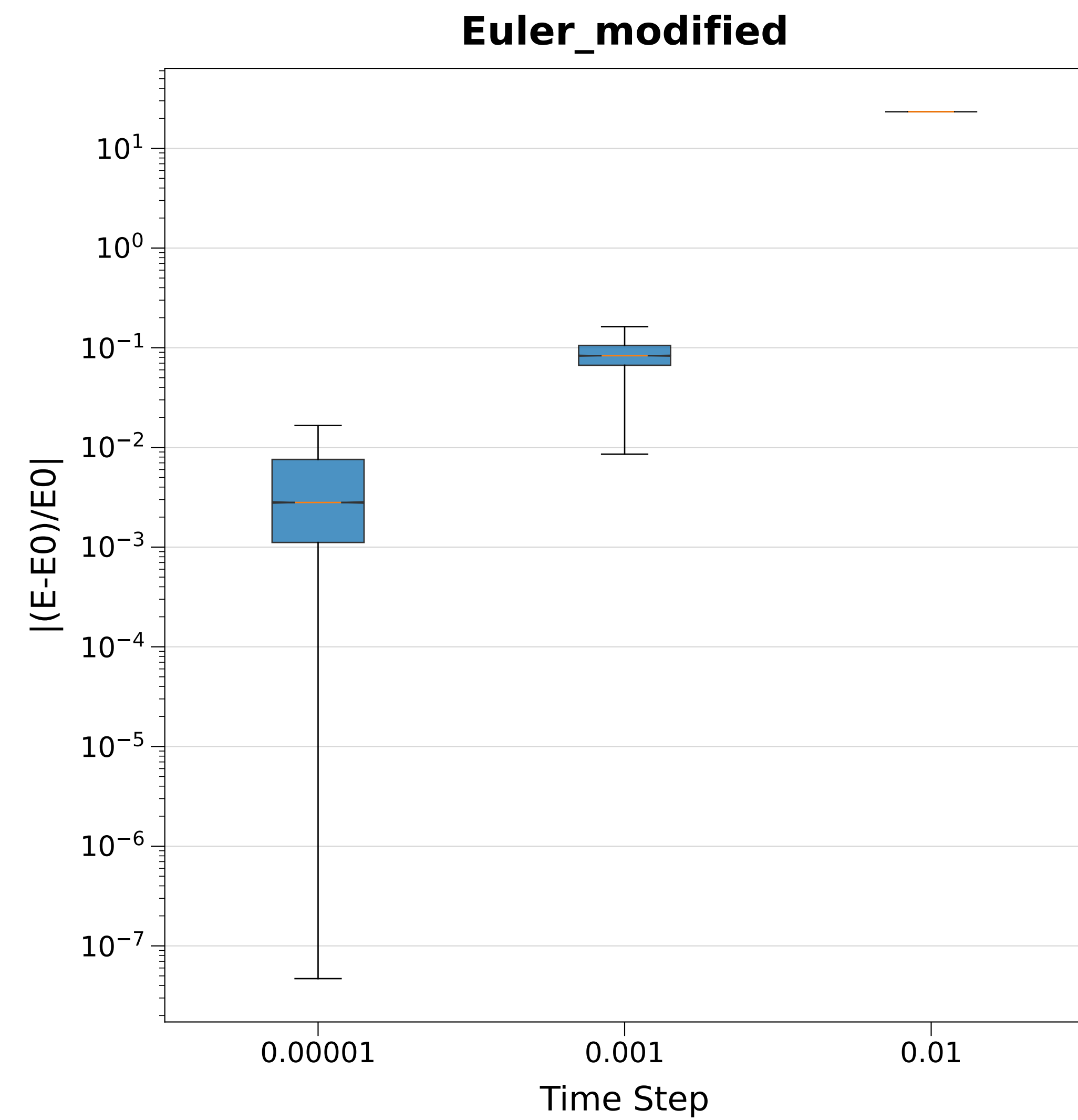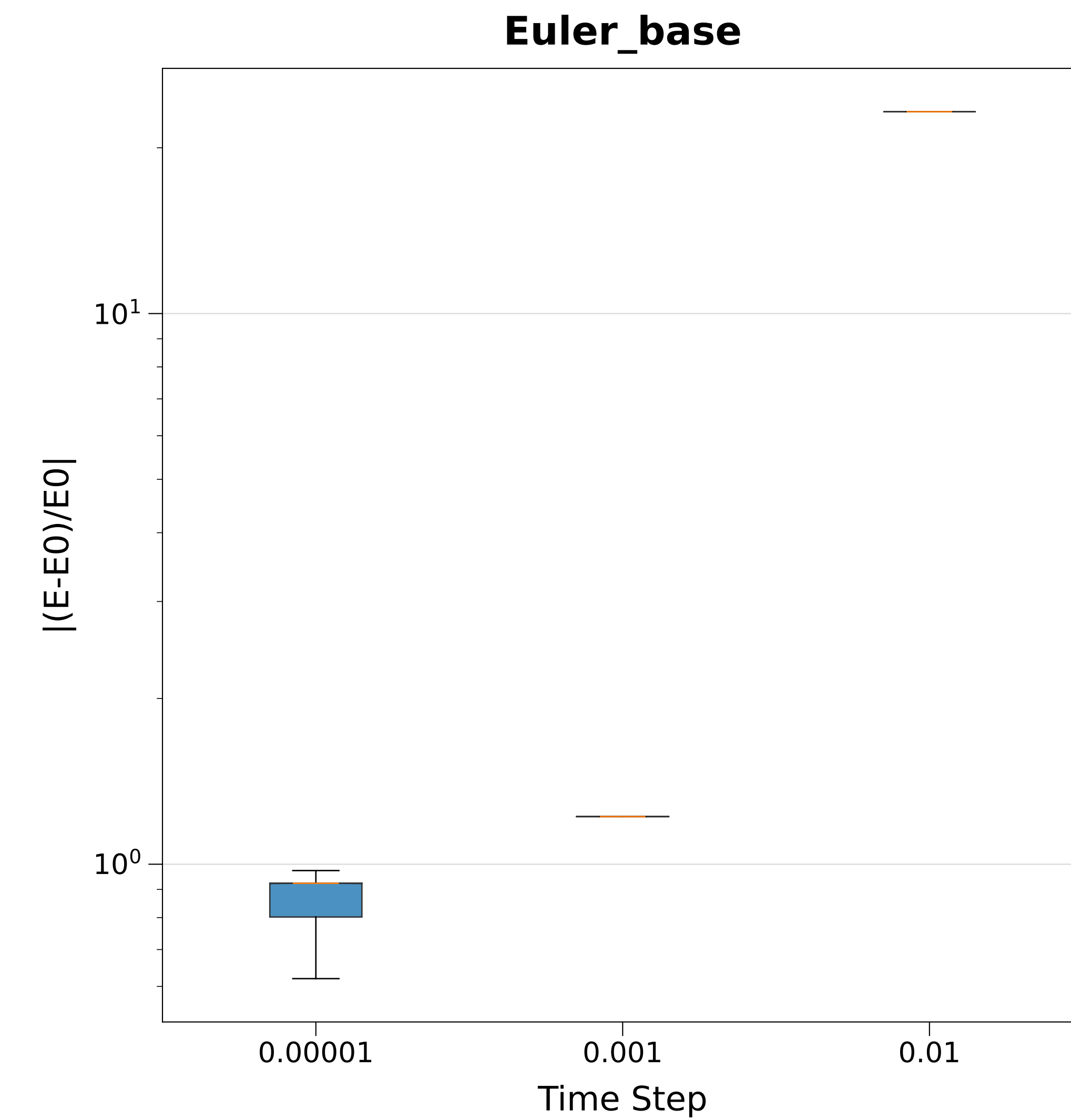- RK4

x-axis: absolute time

y-axis: $|(E-E0)/E0|$
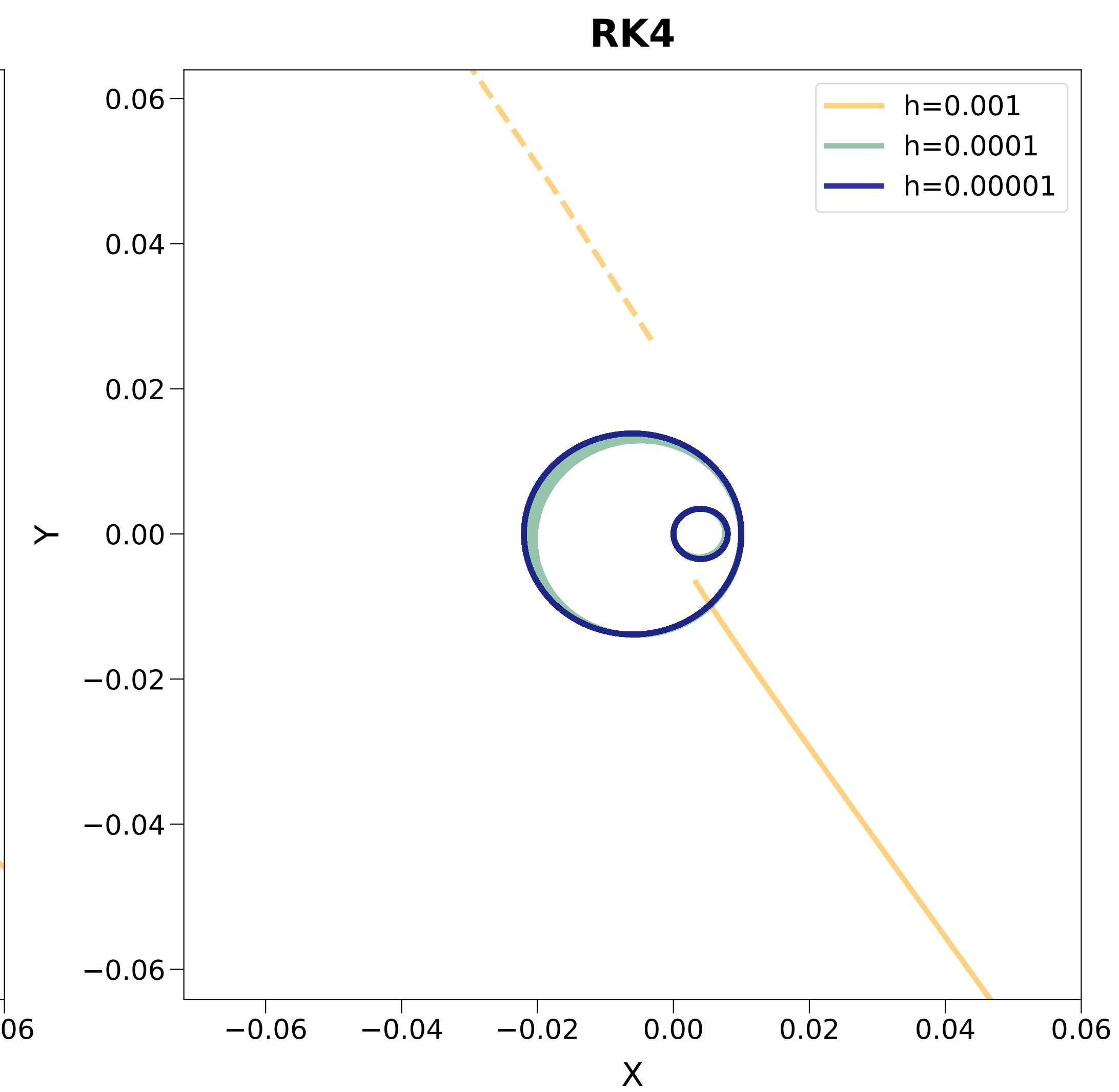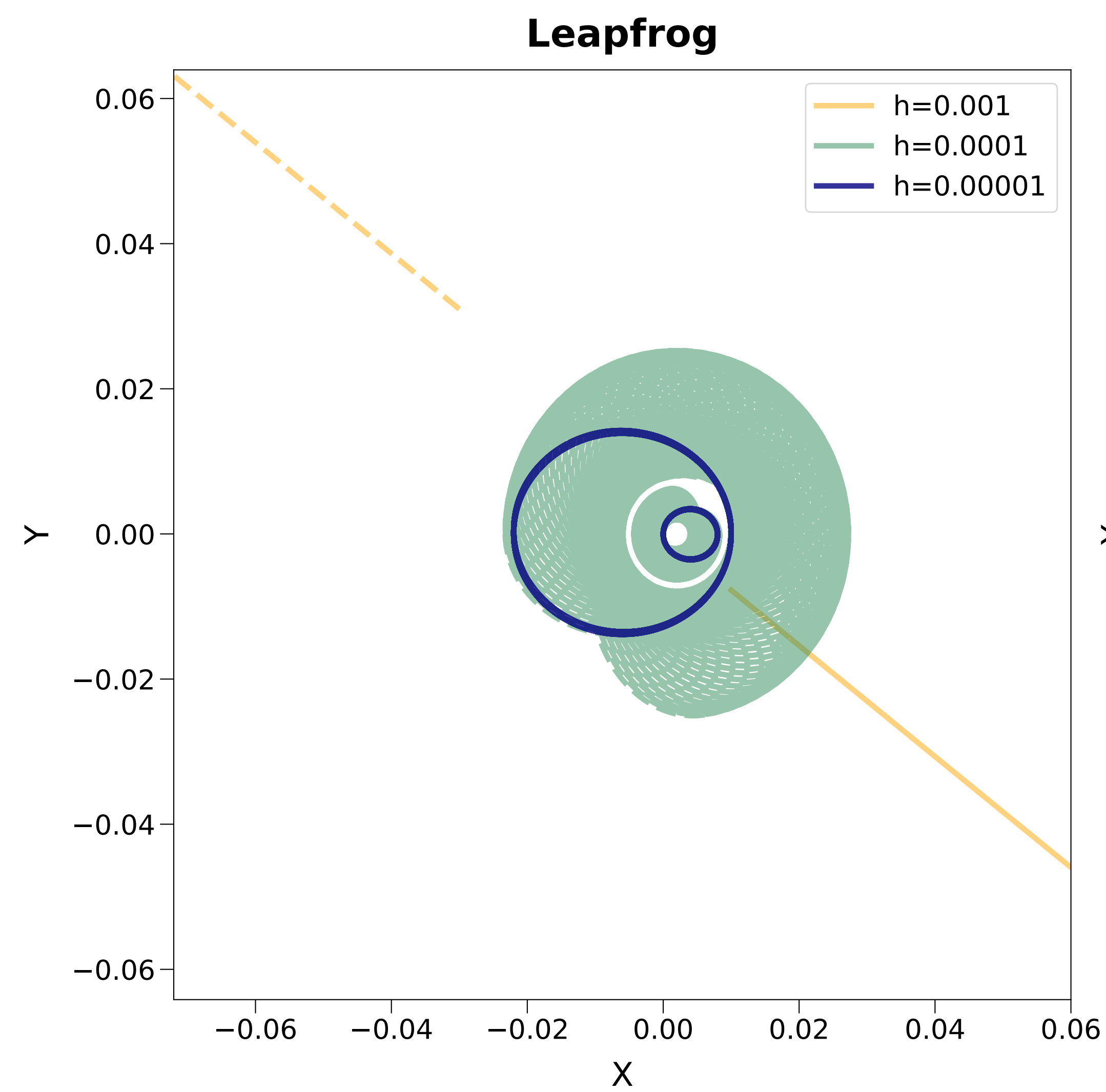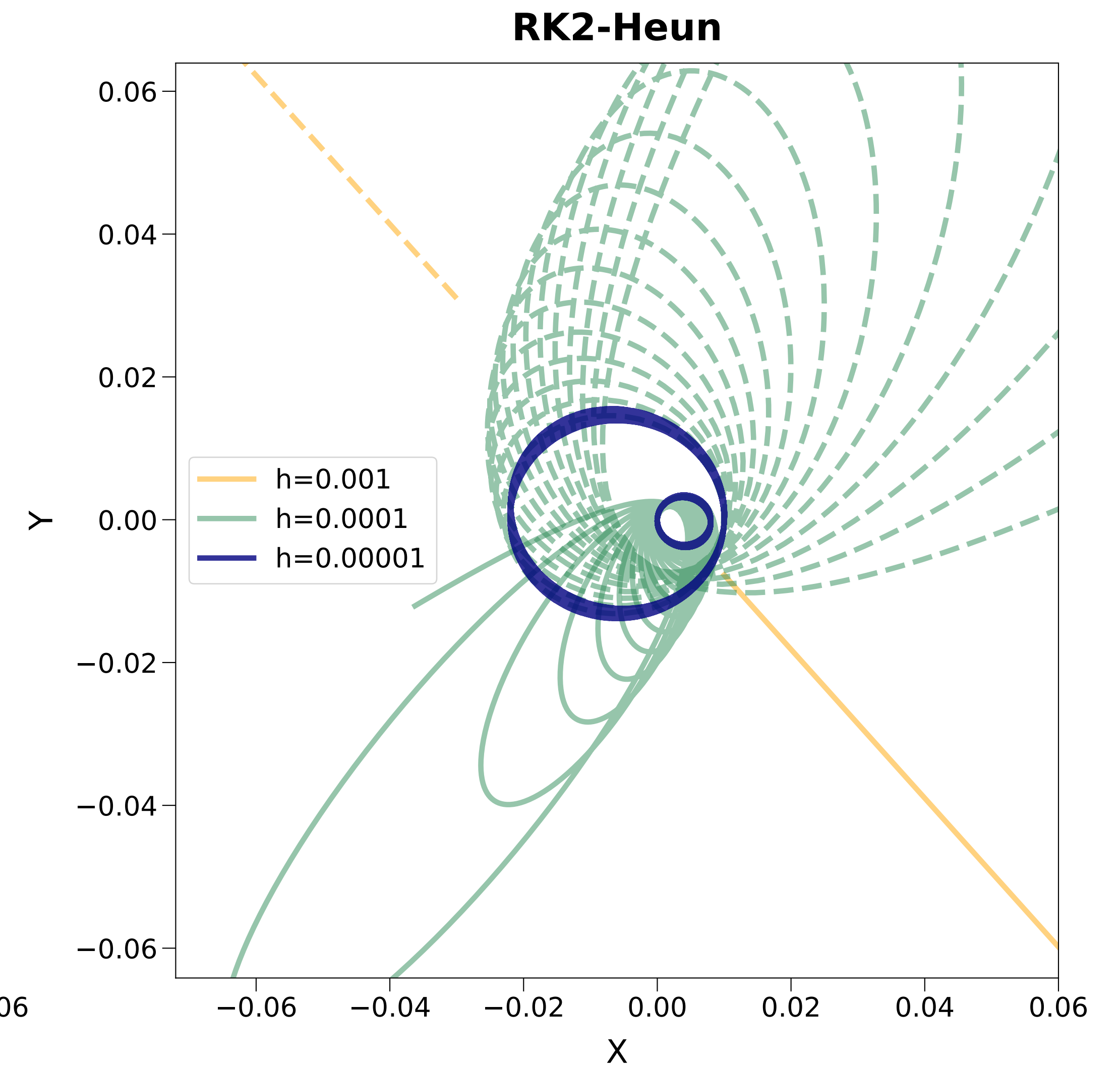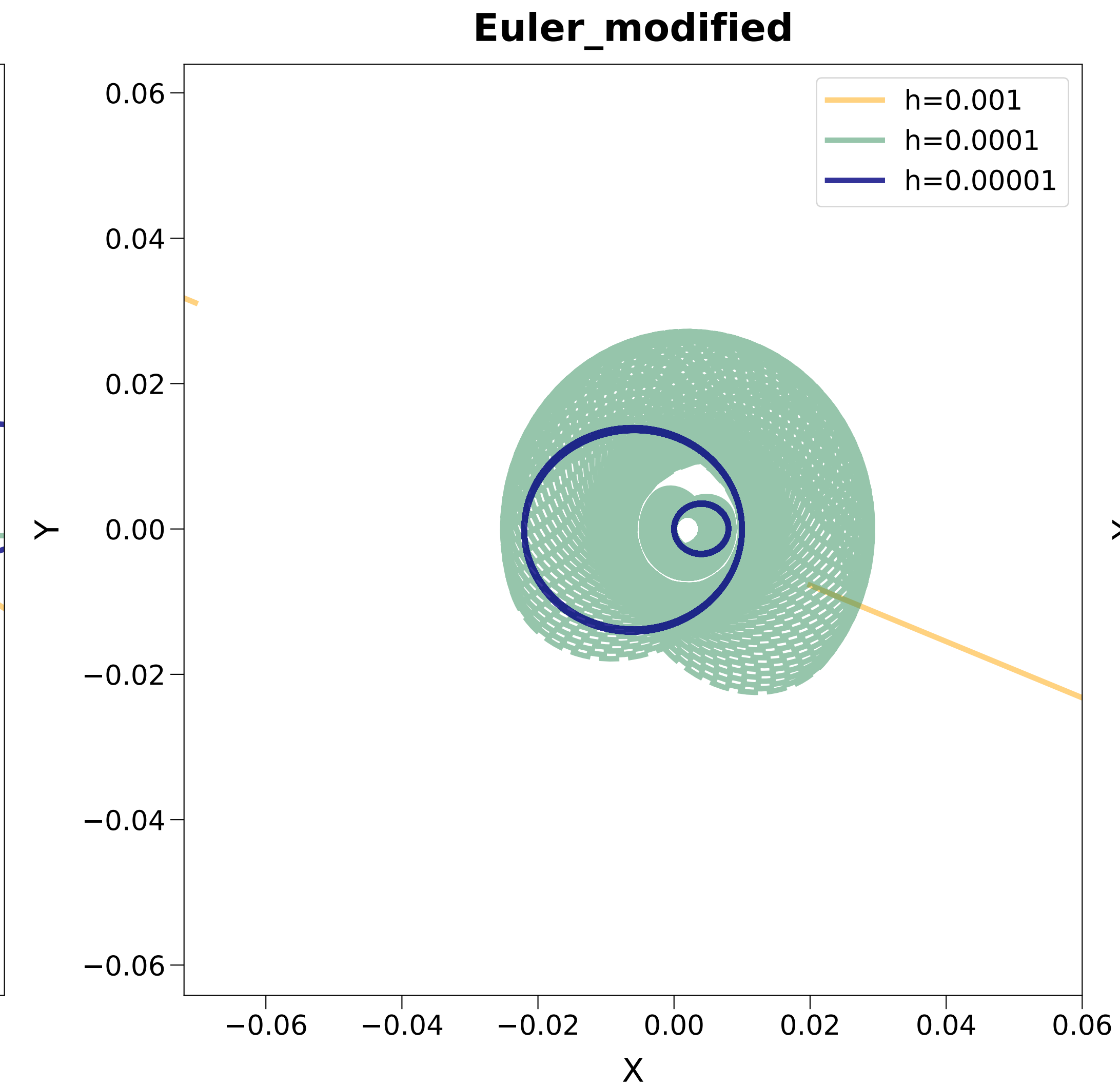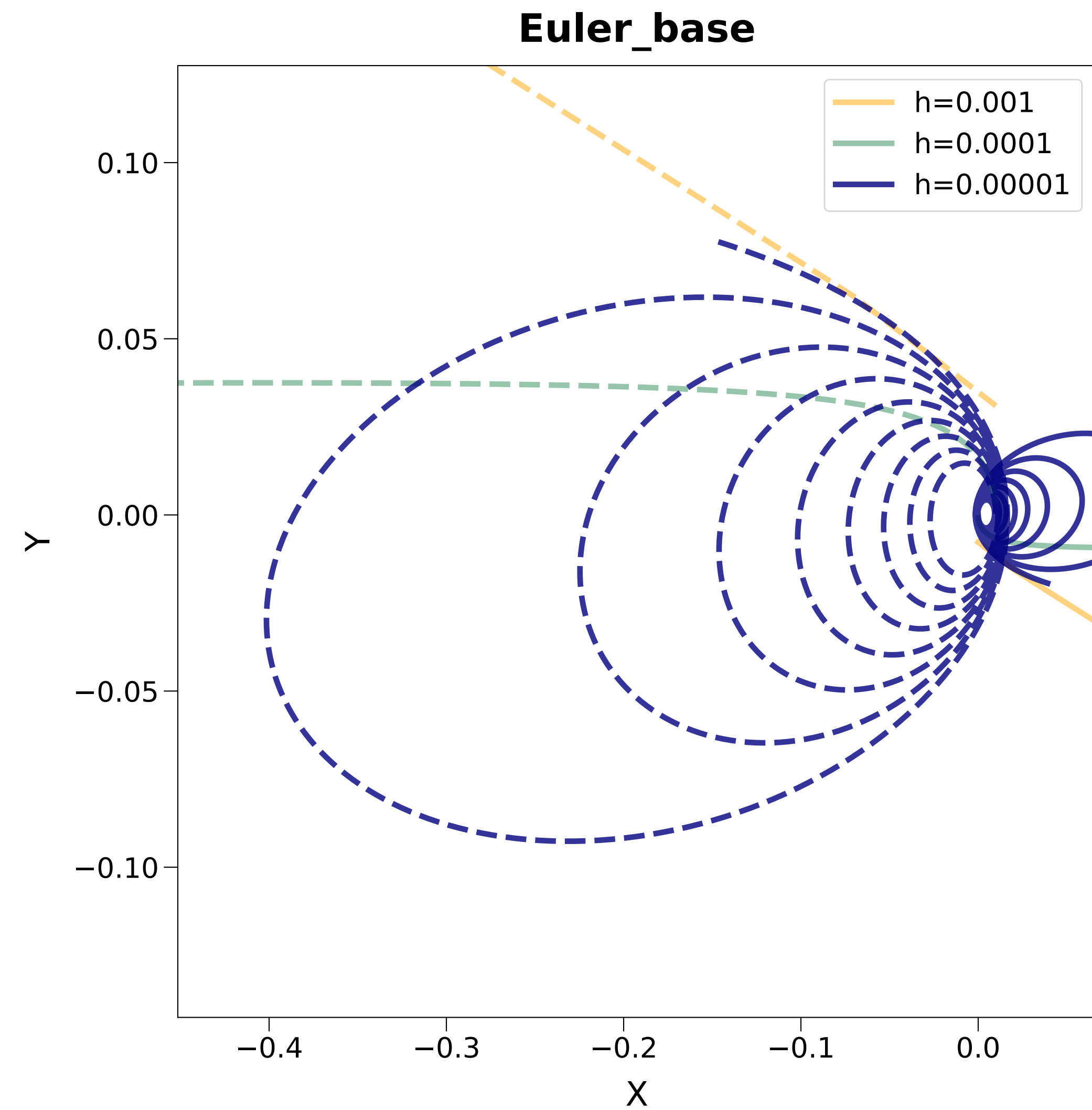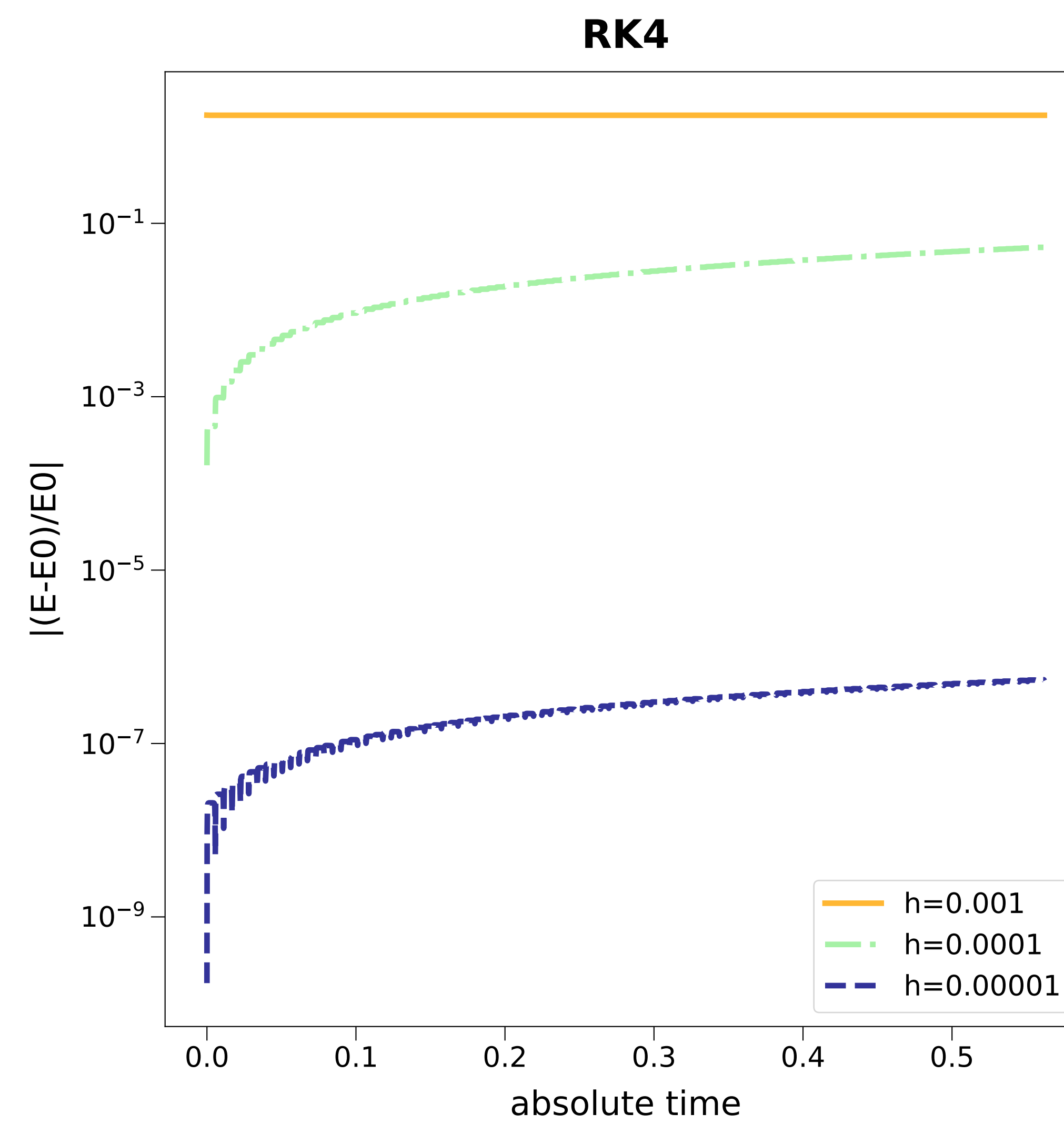
**Energy Error vs. Time Step**
**(M1=8.0, M2=2.0, e=0.5, rp=0.01, T=0.01)**

**Relative Energy errors**
**(M1=8.0, M2=2.0, e=0.5, rp=0.01, T=0.01)**

**Relative Energy errors**
**(M1=8.0, M2=2.0, e=0.5, rp=0.01, T=0.01)**