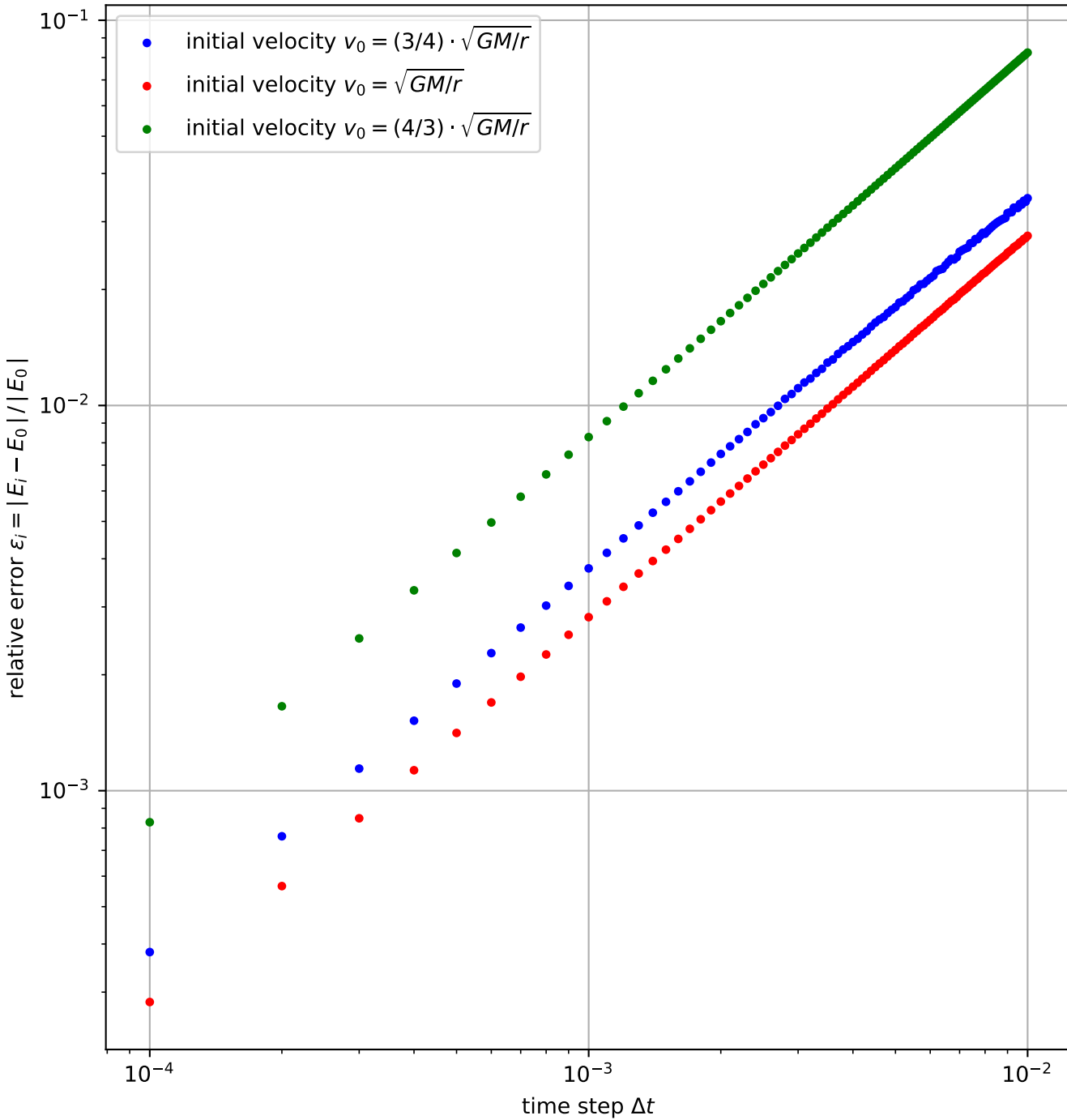


Numerical Simulation of the Two-Body Problem: Error Analysis of the Integration Schemes
 relative error $\varepsilon_i = |E_i - E_0| / |E_0|$ in the energy at the end of the second orbit as a function of the time step Δt

Error Analysis of the Euler Method



Error Analysis of the Leapfrog Method

