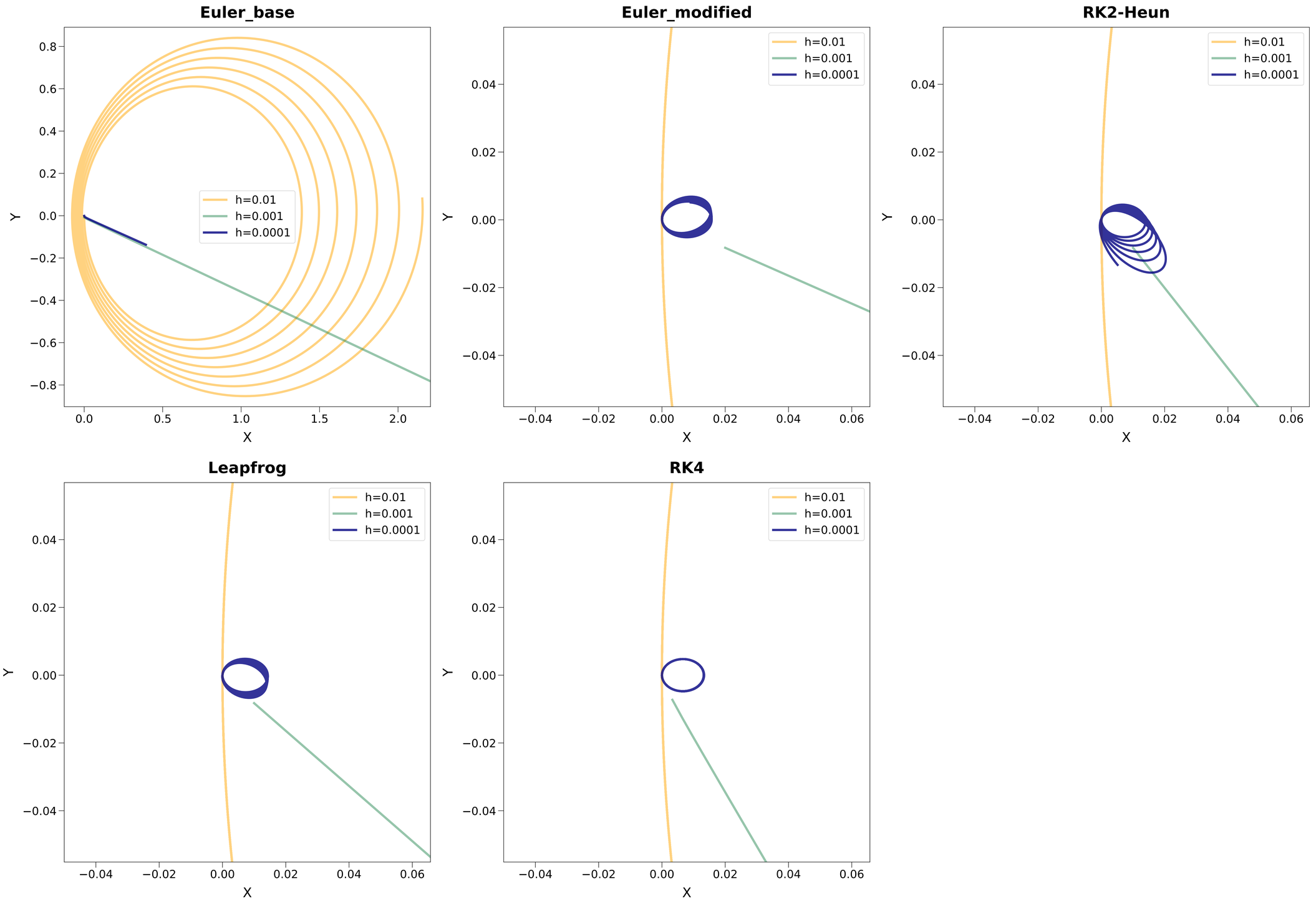
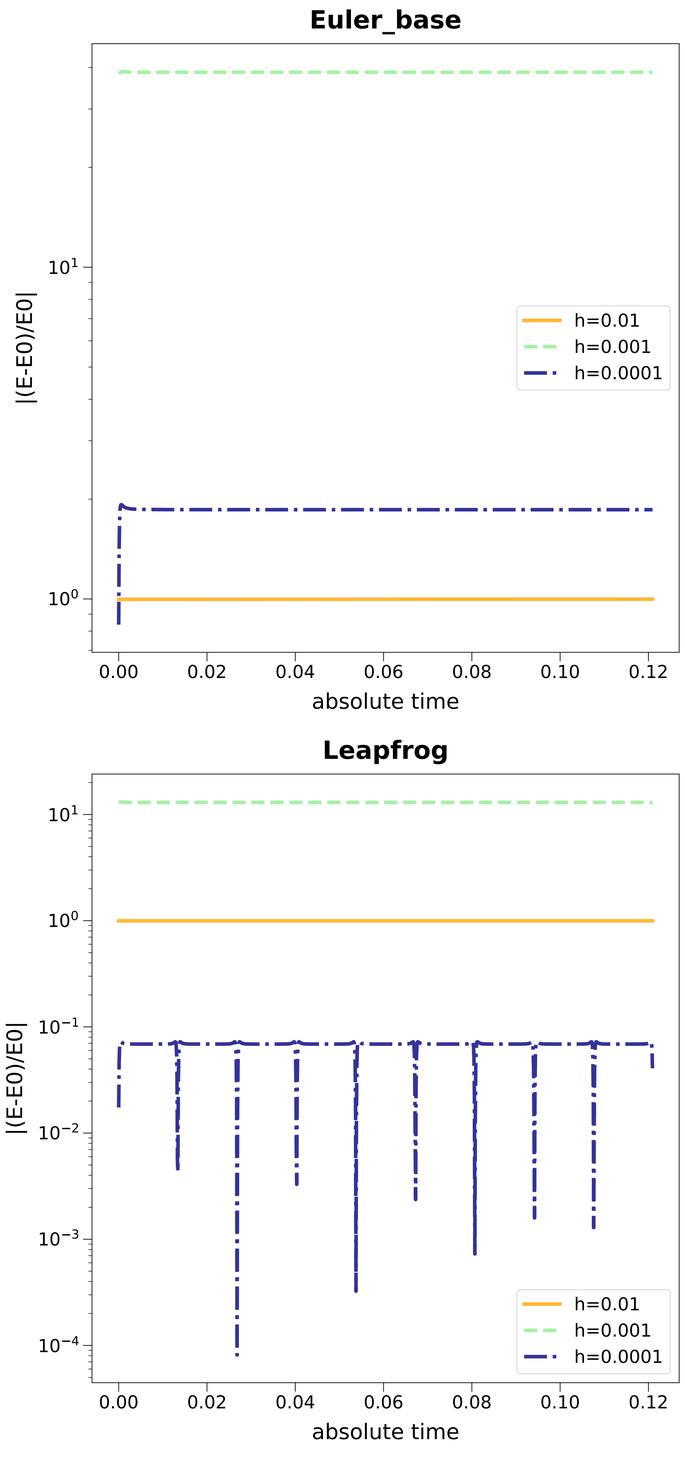
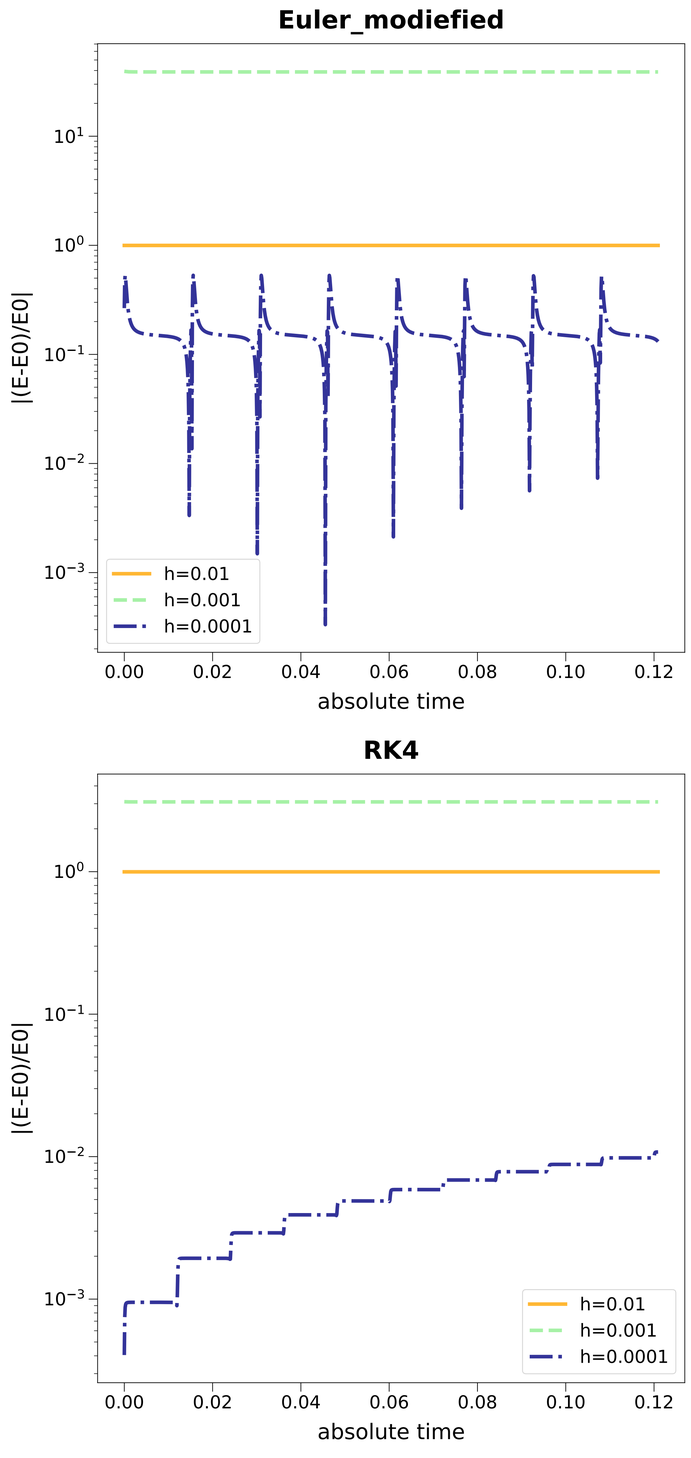
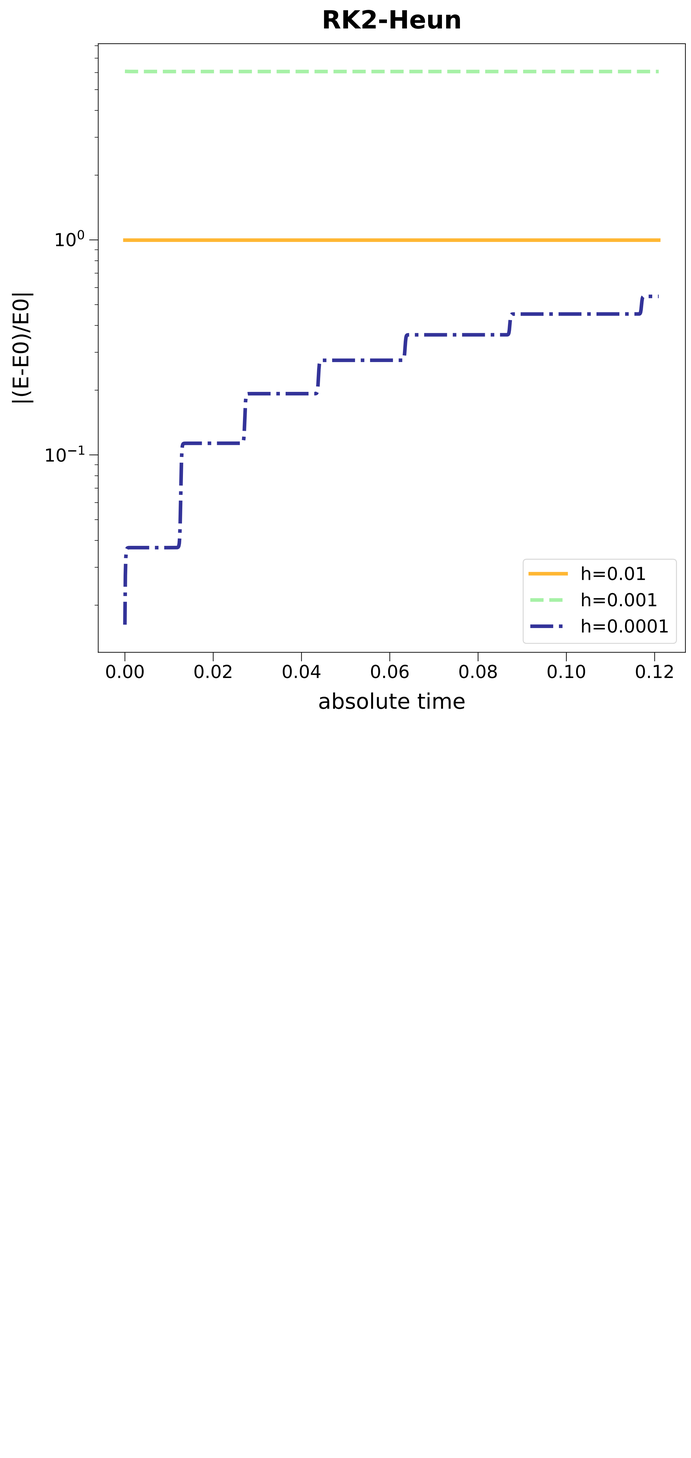
# Position on X-Y Plane
# (M18.0, M22.0, e=0.7, rp=0.0)

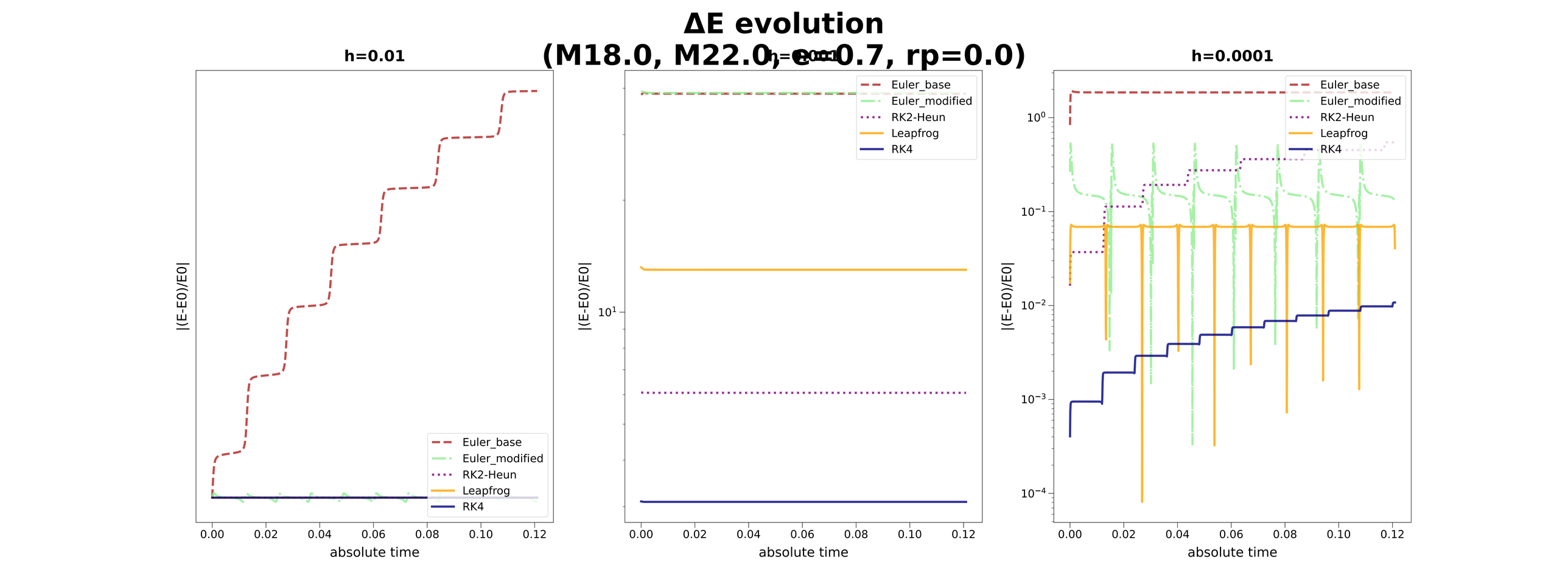


# ΔE evolution
# (M18.0, M22.0, e=0.7, rp=0.0)

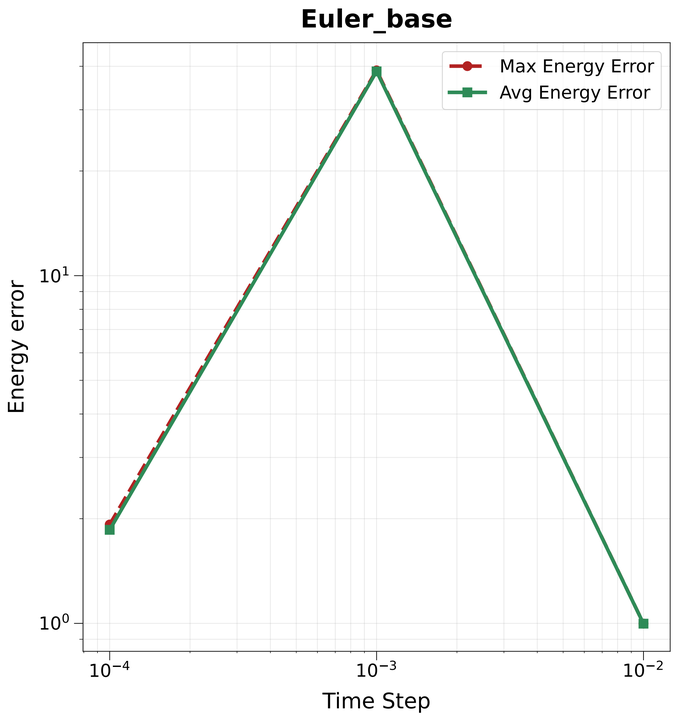


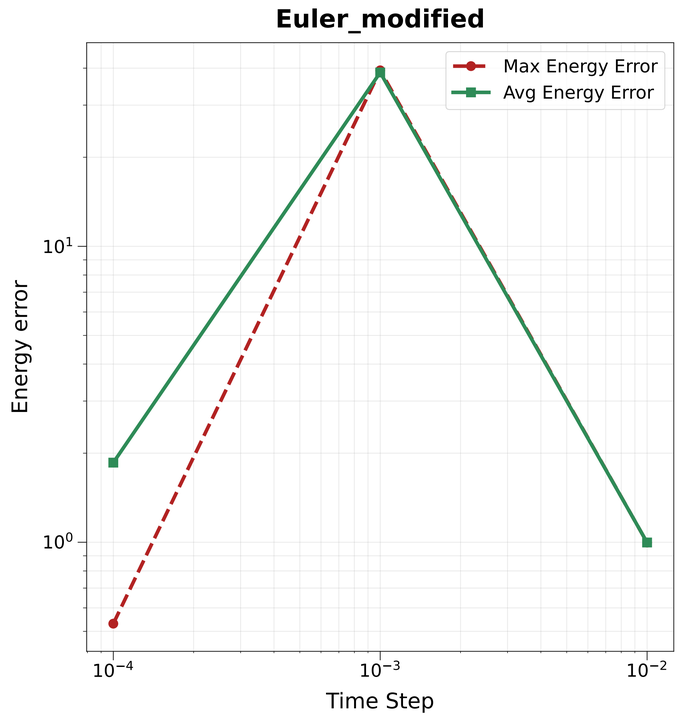



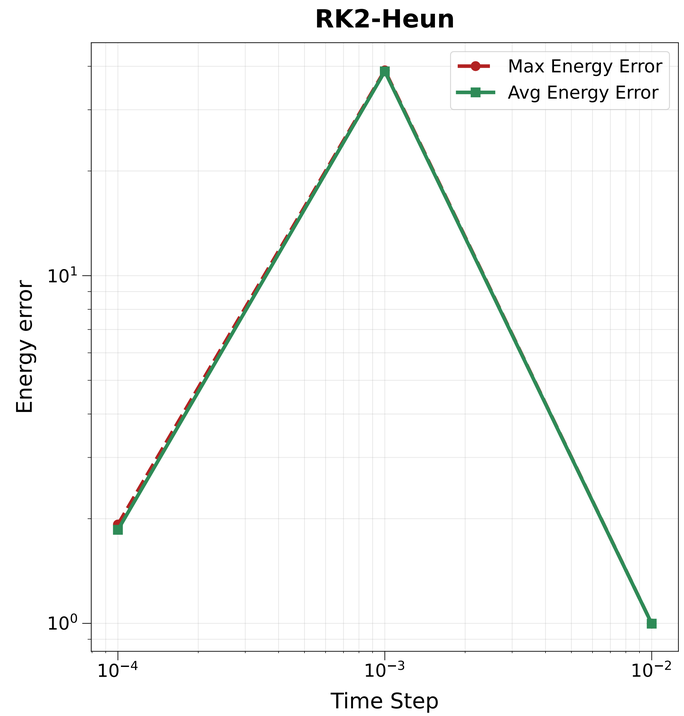



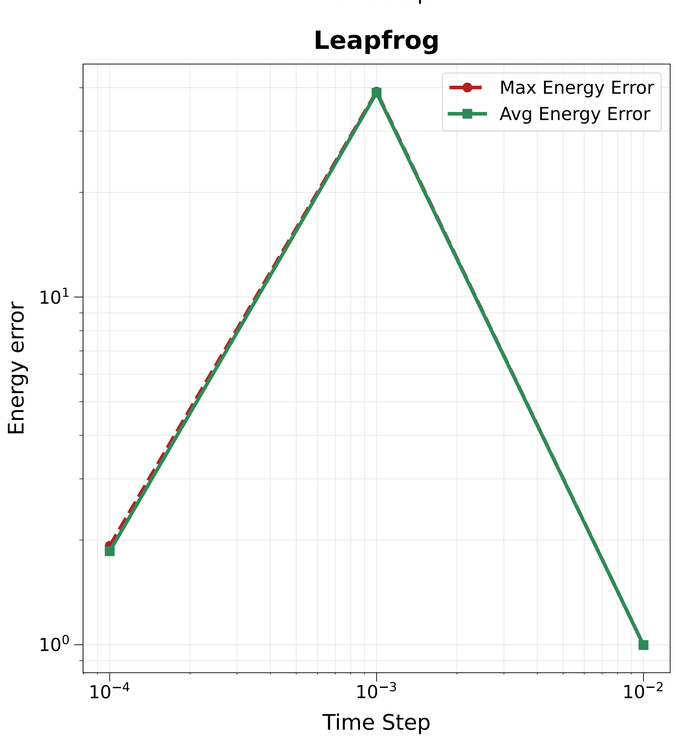

ΔE evolution
(M18.0, M22.0, e=0.7, rp=0.0)
h=0.01
h=0.001
h=0.0001
|(E-E0)/E0|
absolute time
Euler_base
Euler_modified
RK2-Heun
Leapfrog
RK4
0.00
0.02
0.04
0.06
0.08
0.10
0.12
$10^{1}$
$10^{0}$
$10^{-1}$
$10^{-2}$
$10^{-3}$
$10^{-4}$

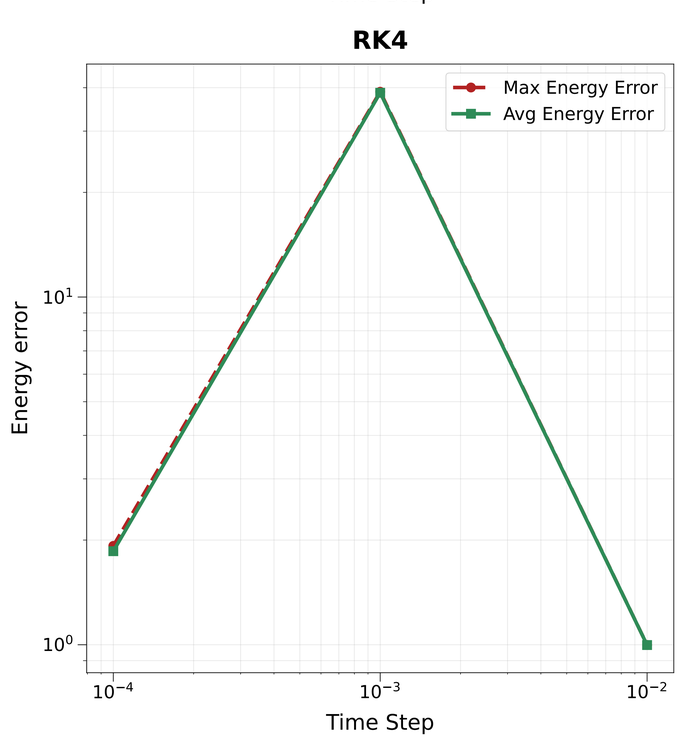
# Energy Error vs. Time Step
# (M18.0, M22.0, e=0.7, rp=0.0)



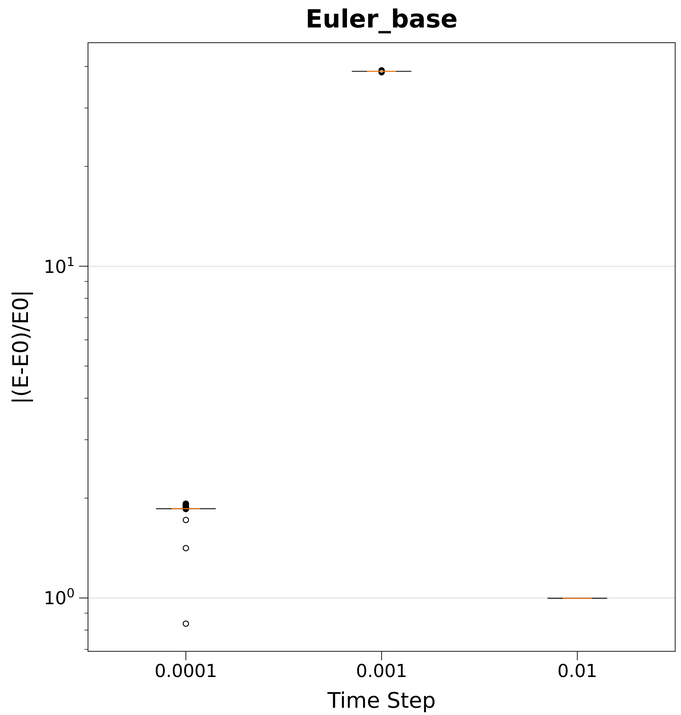



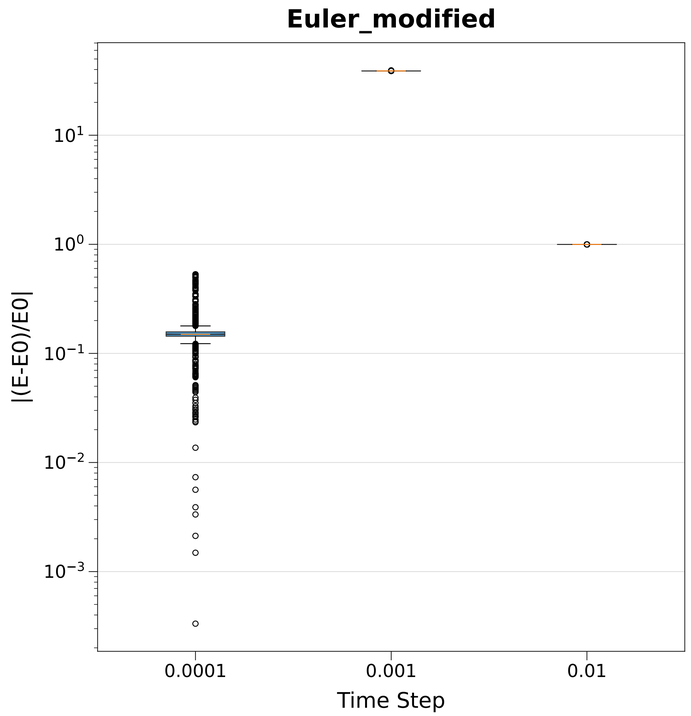



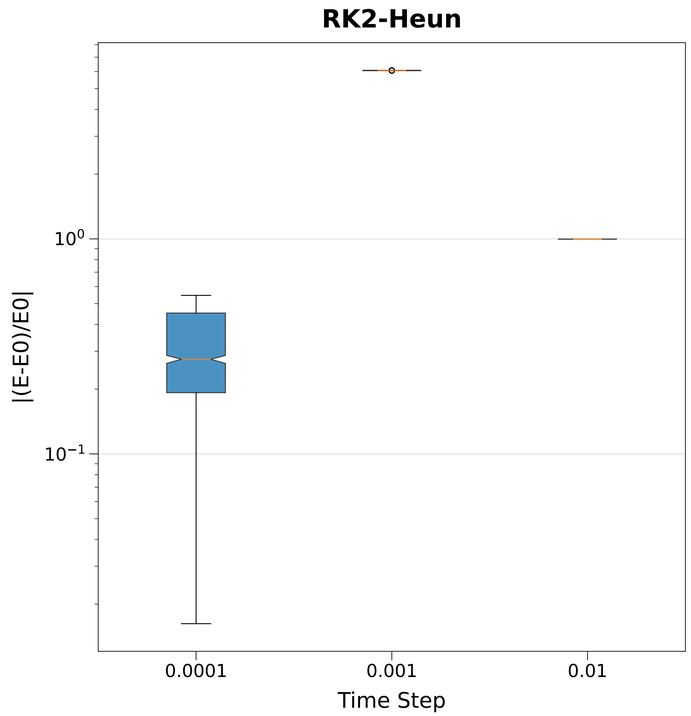



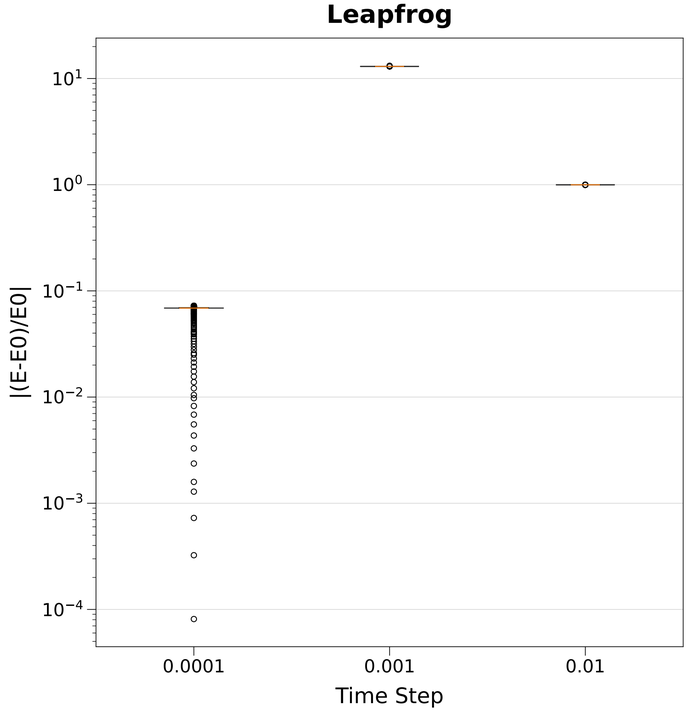



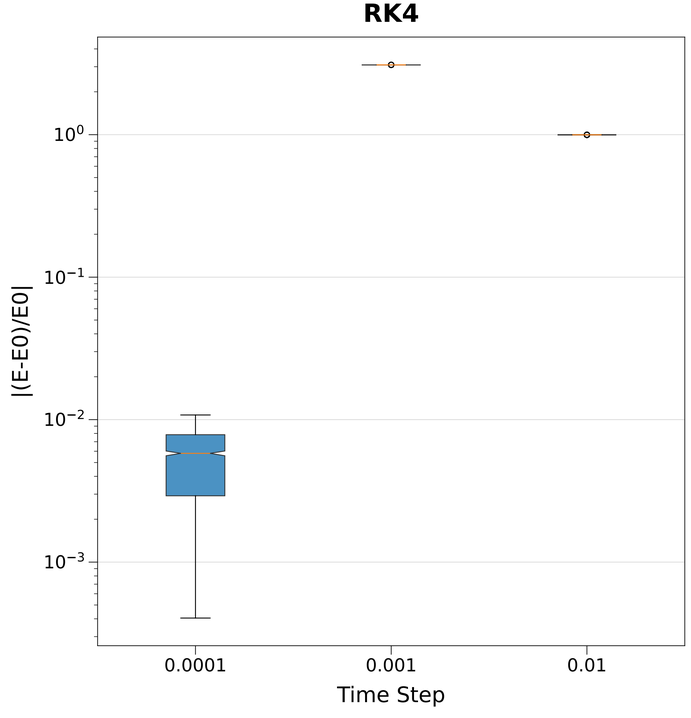
# Relative Energy errors
# (M18.0, M22.0, e=0.7, rp=0.0)

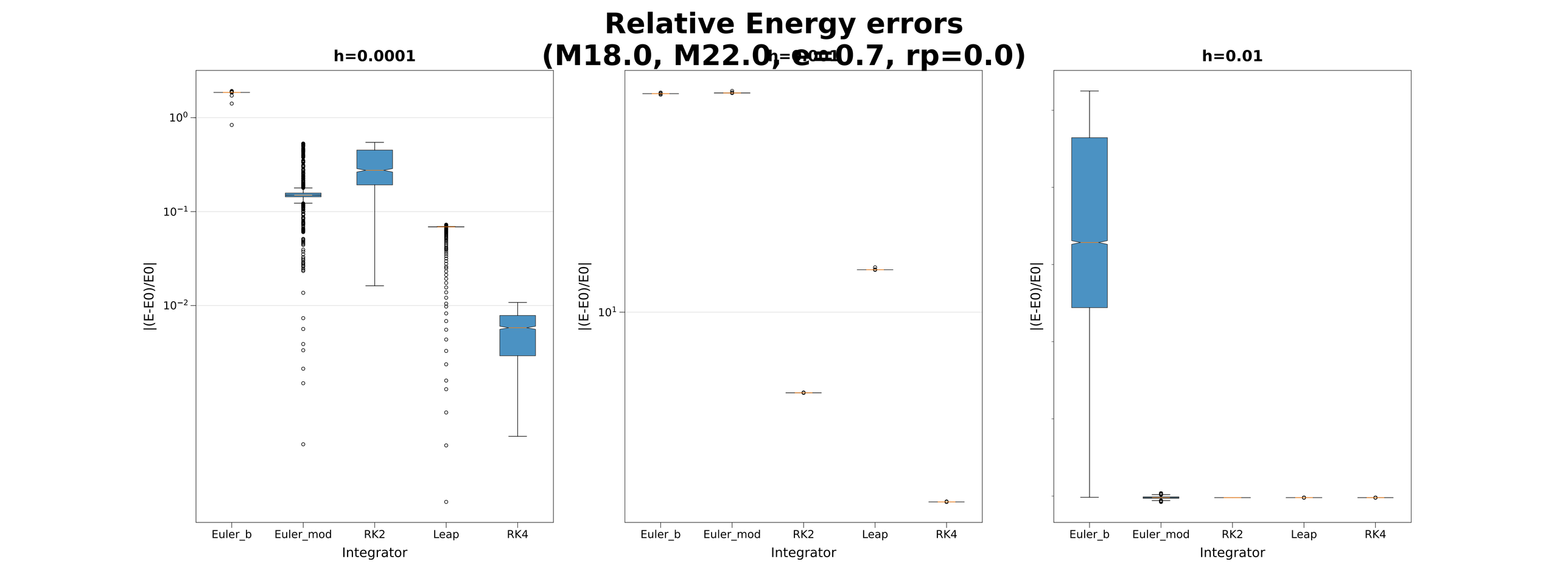



Relative Energy errors
(M18.0, M22.0, e=0.7, rp=0.0)
h=0.0001
h=0.001
h=0.01
|(E-E0)/E0|
$10^{0}$
$10^{-1}$
$10^{-2}$
$10^{1}$
Euler_b
Euler_mod
RK2
Leap
RK4
Integrator