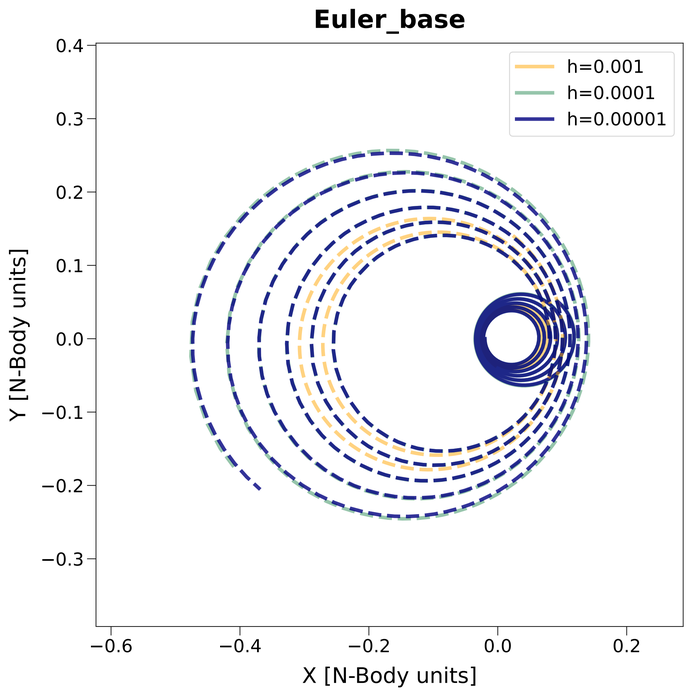
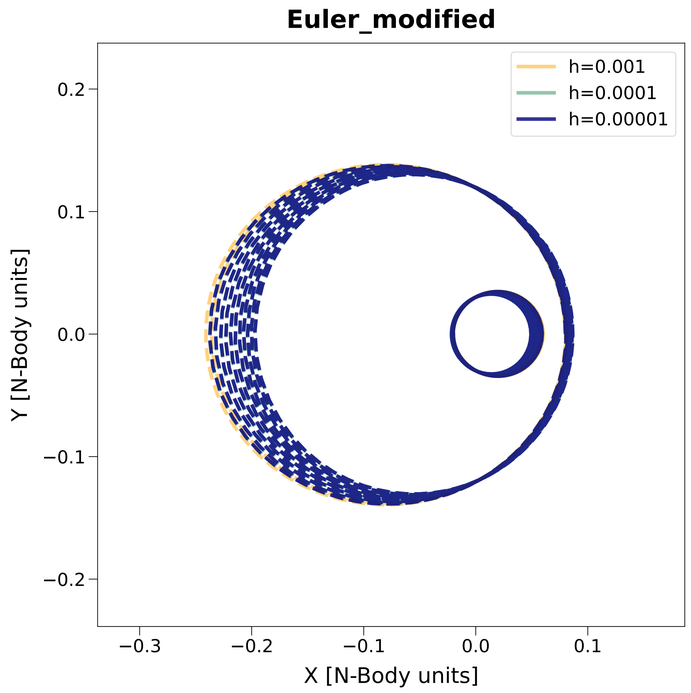
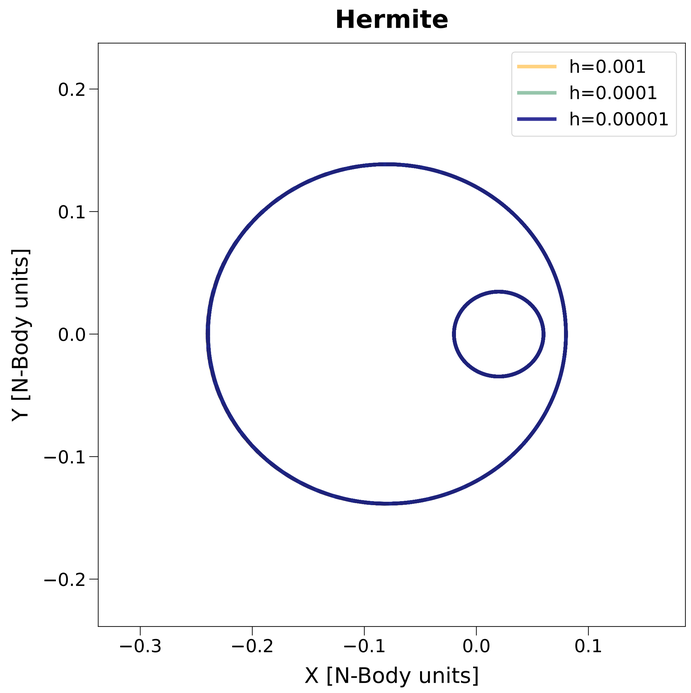
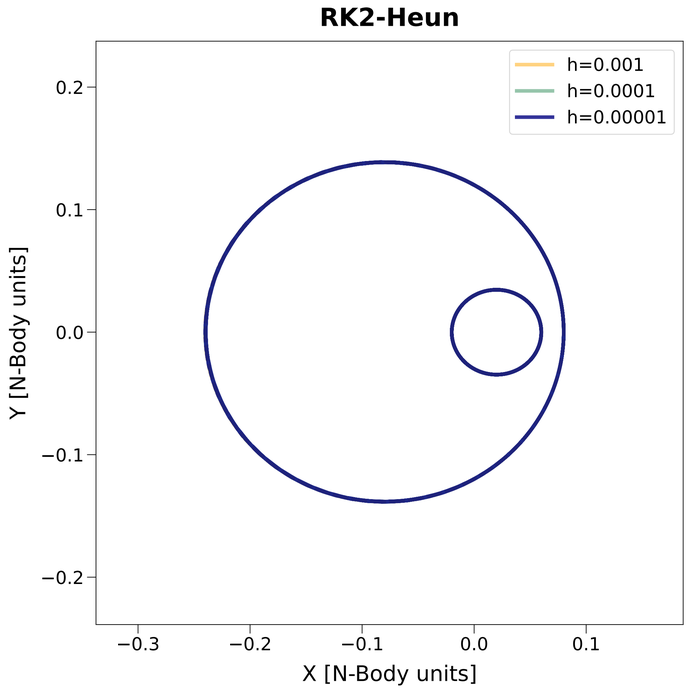
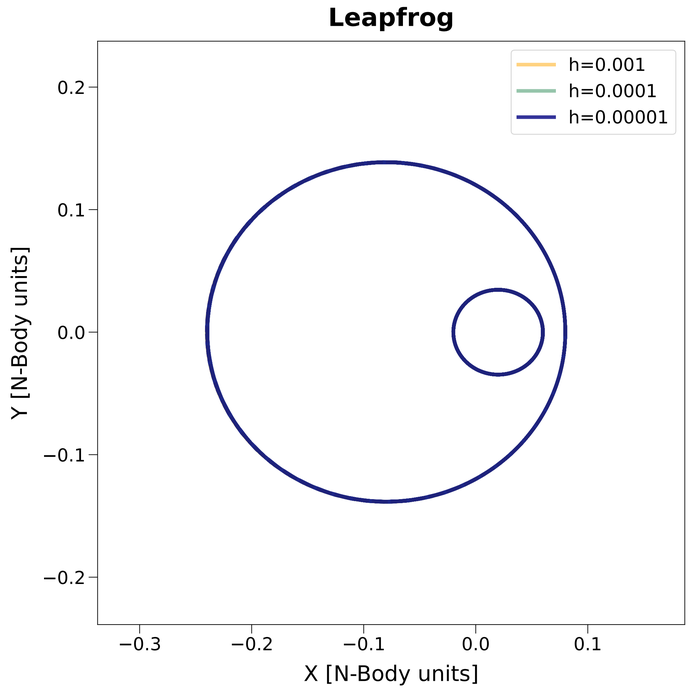
Position on X-Y Plane
(M1=8.0, M2=2.0, e=0.5, rp=0.10, T=0.18)

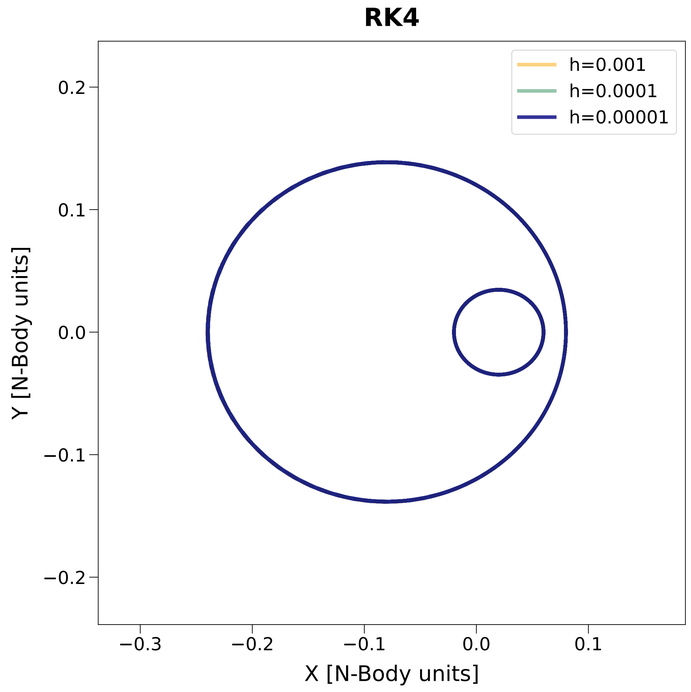


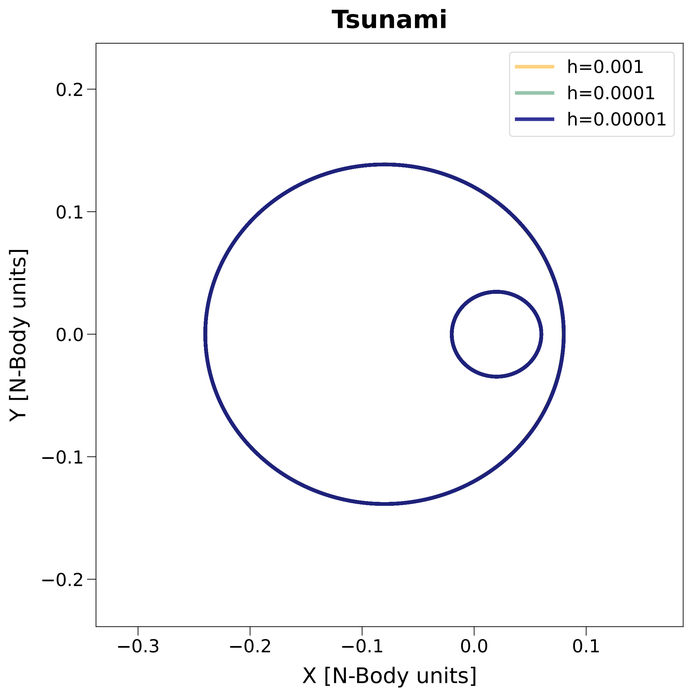




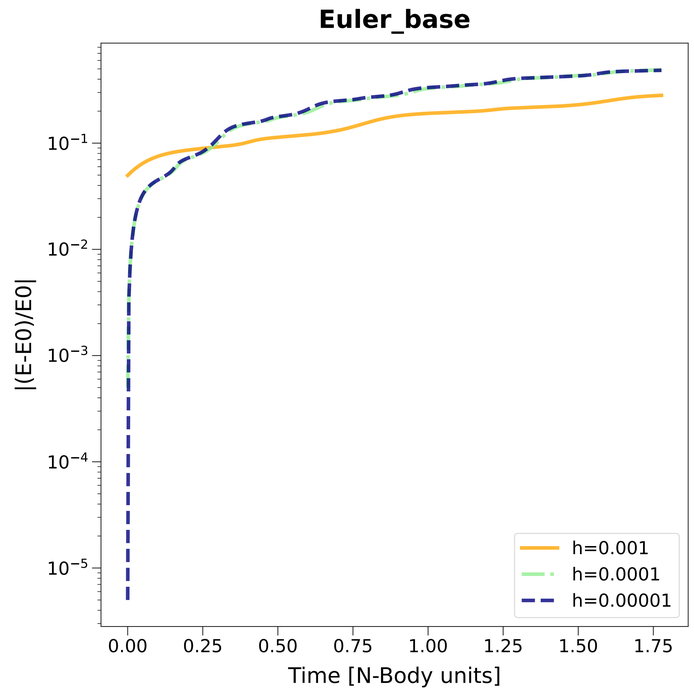


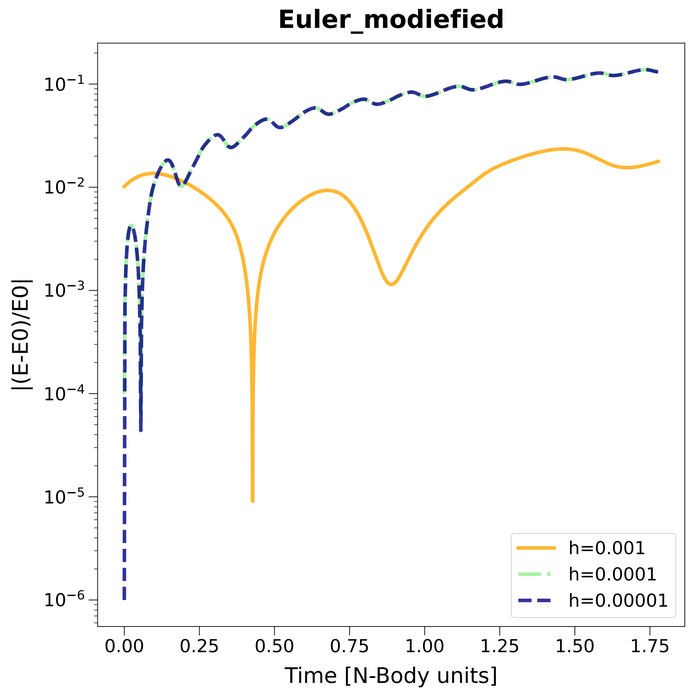


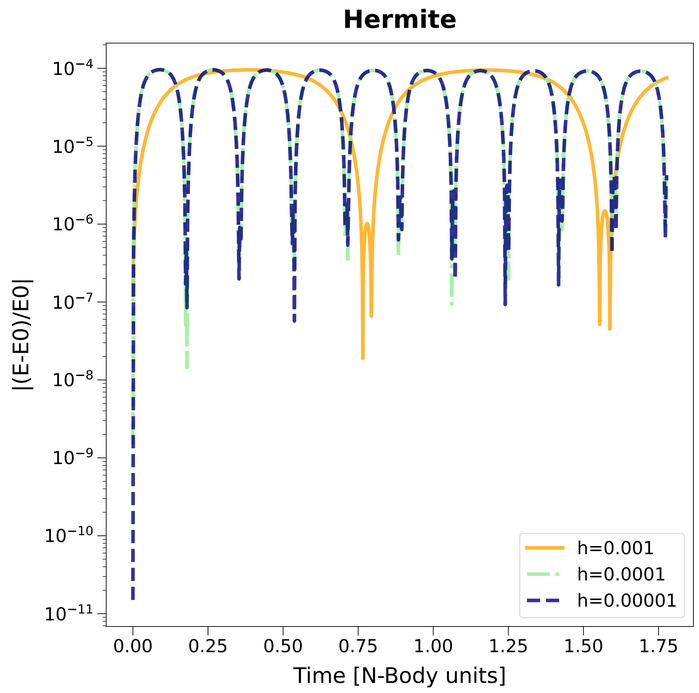


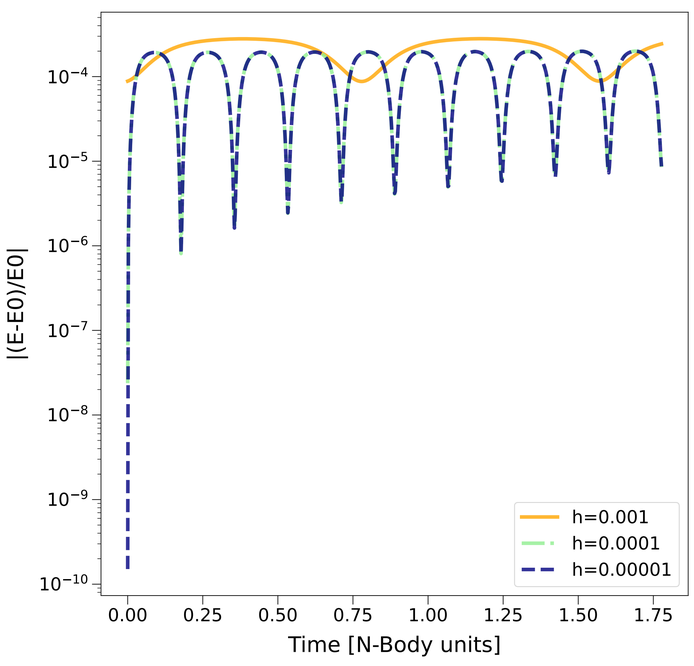


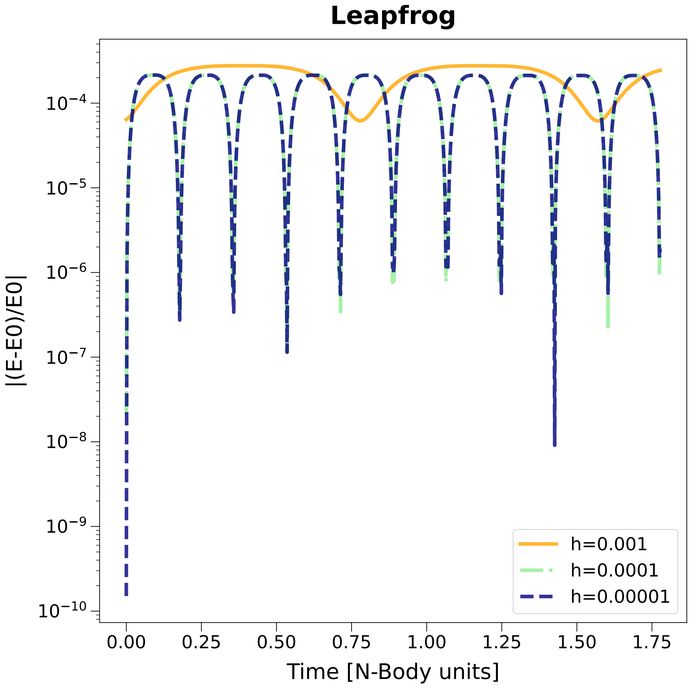
|ΔE/E| Evolution
(M1=8.0, M2=2.0, e=0.5, rp=0.10, T=0.18)

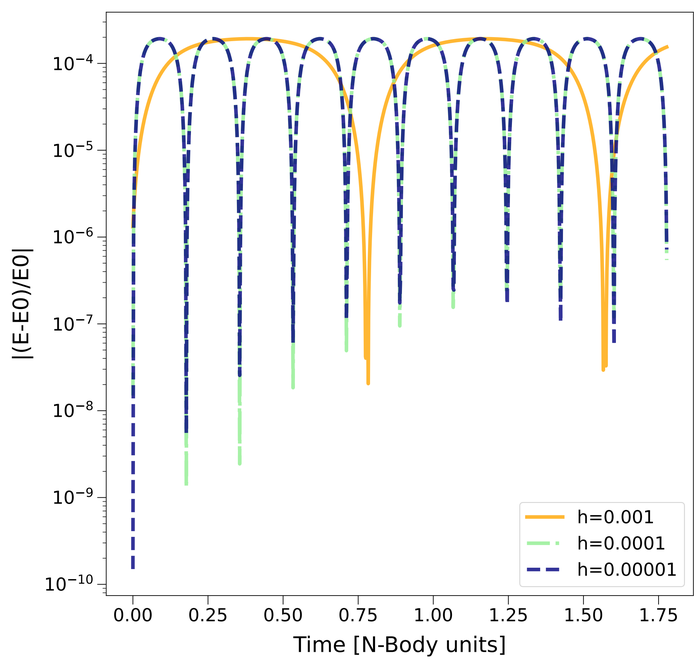


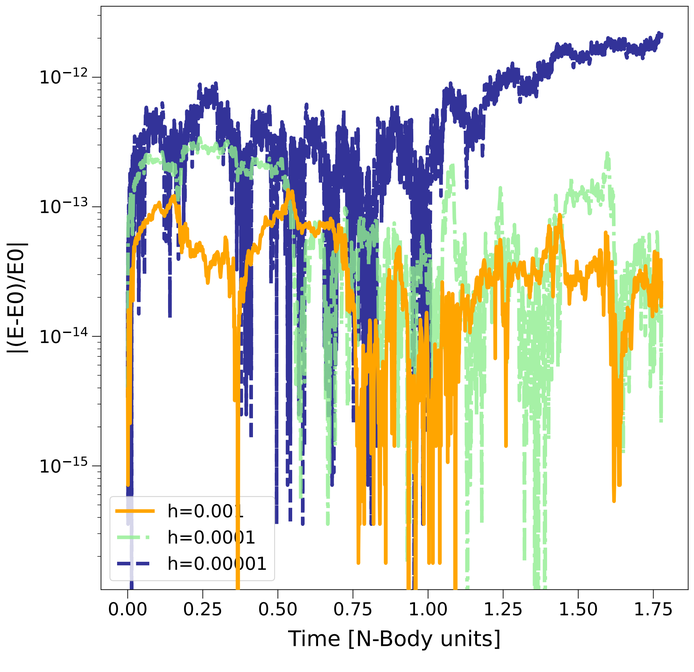




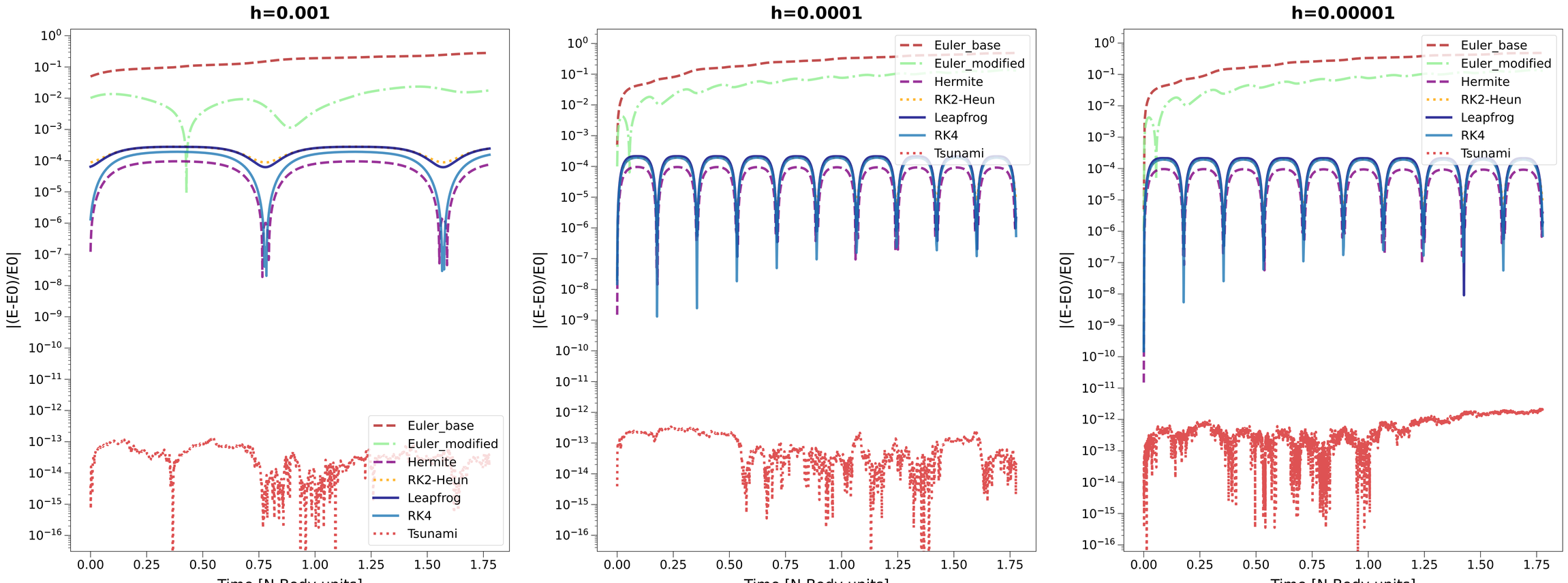




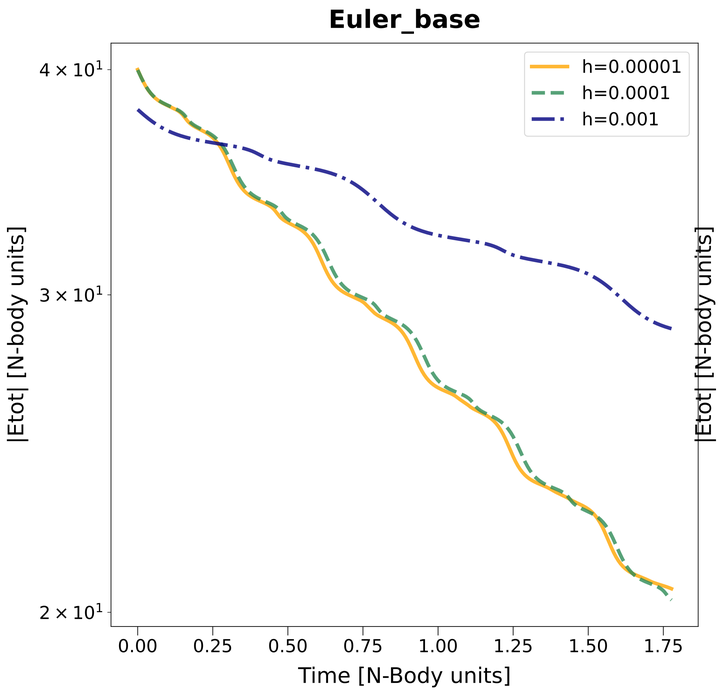


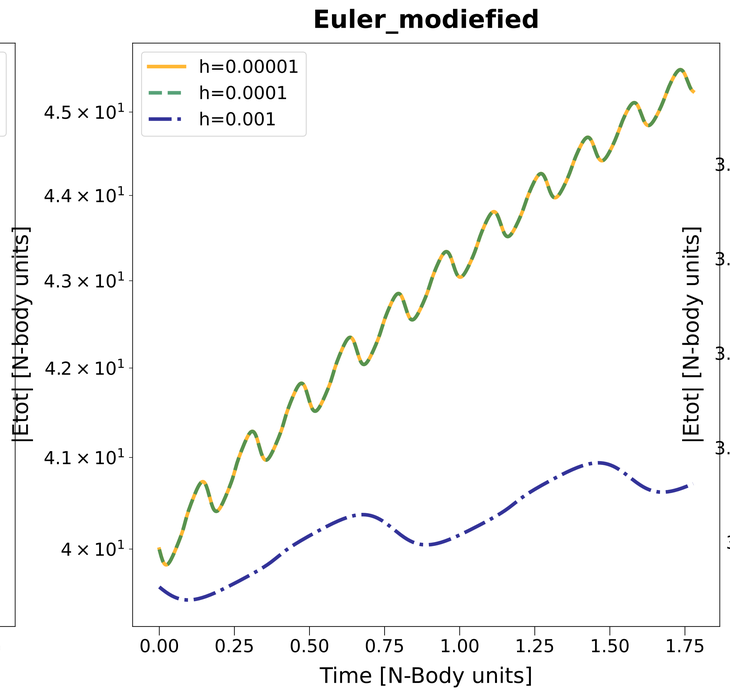


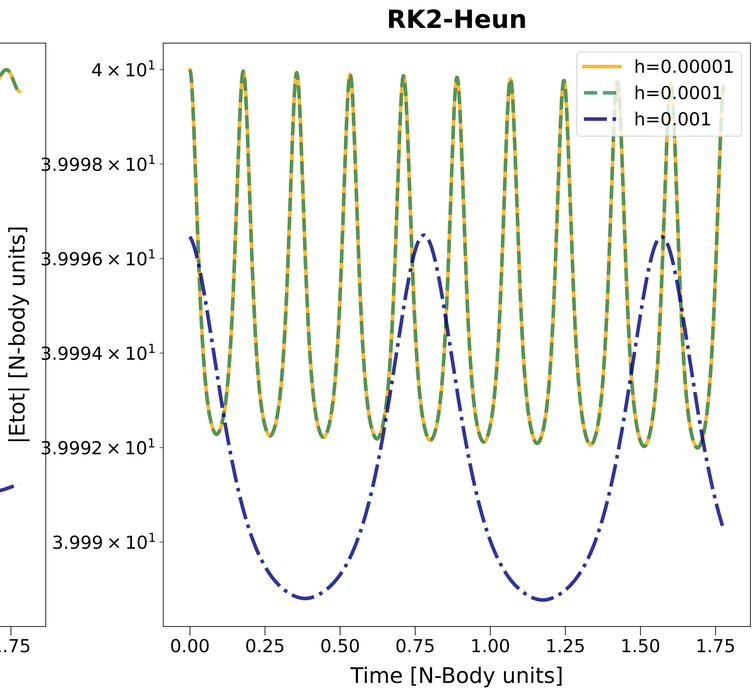
|ΔE/E| Evolution
(M1=8.0, M2=2.0, e=0.5, rp=0.10, T=0.18)

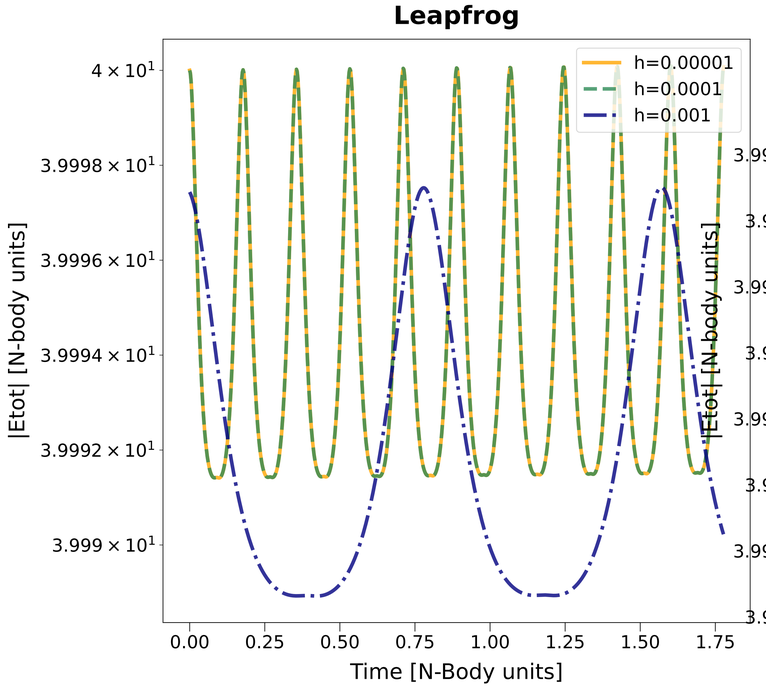


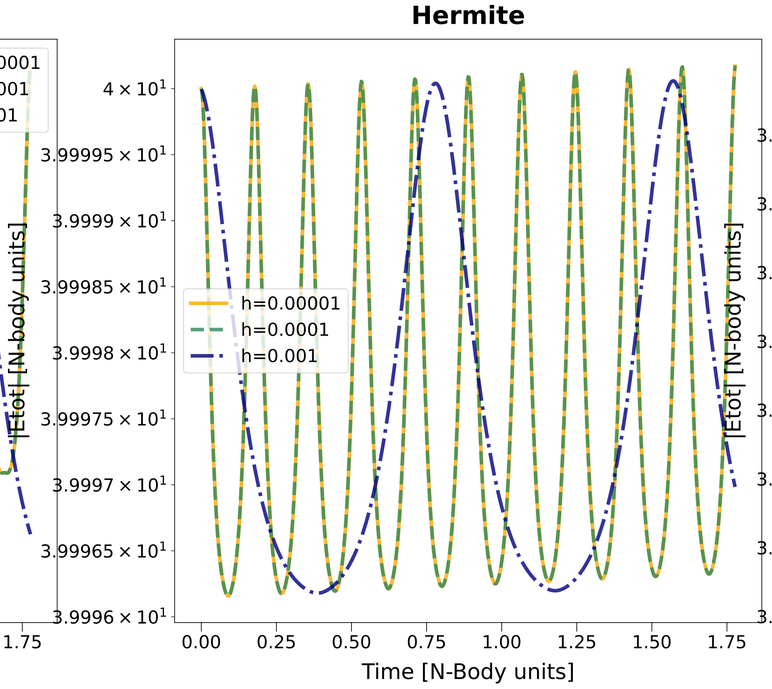
Total Energy Evolution
(M1=8.0, M2=2.0, e=0.5, rp=0.10, T=0.18)

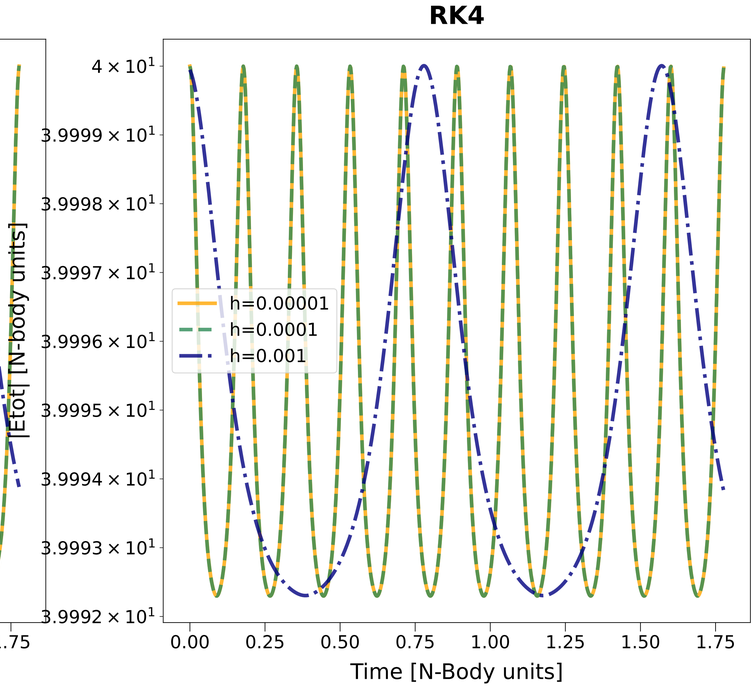


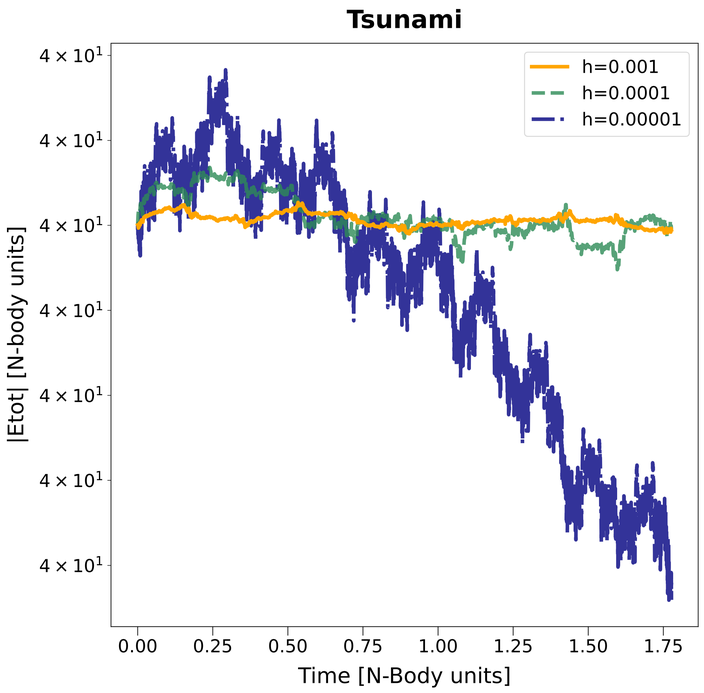




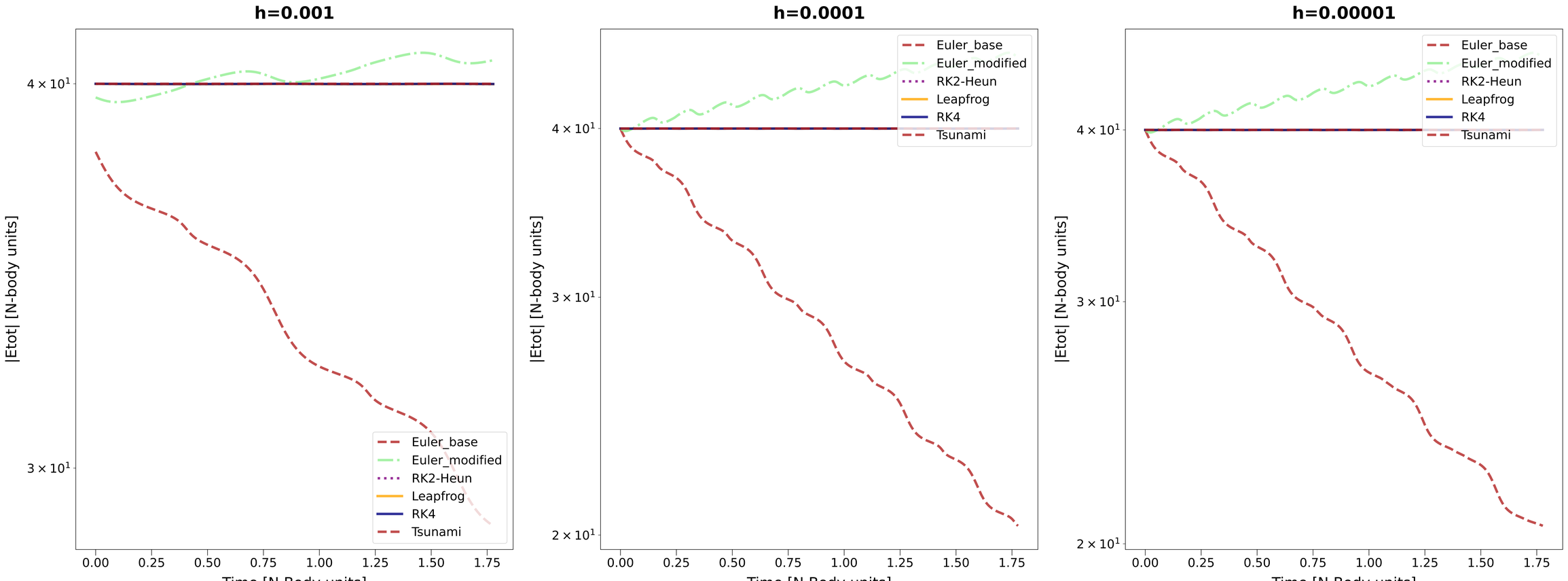




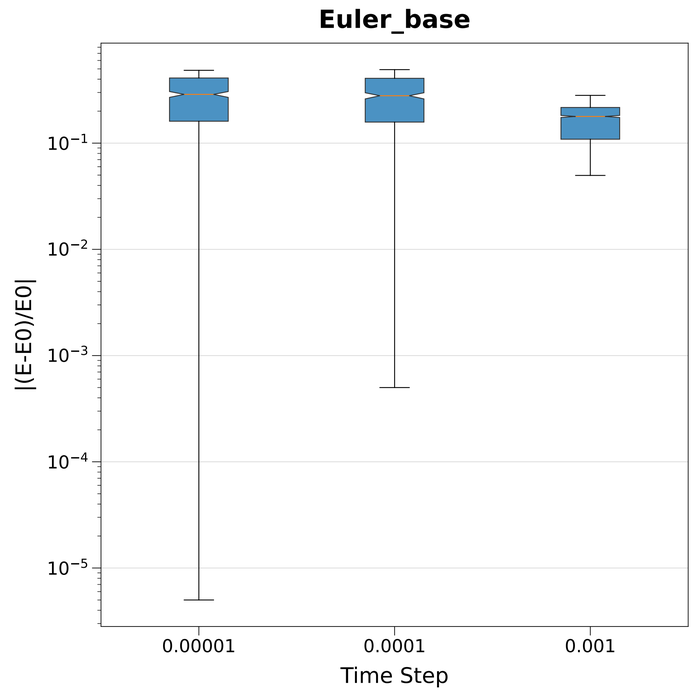


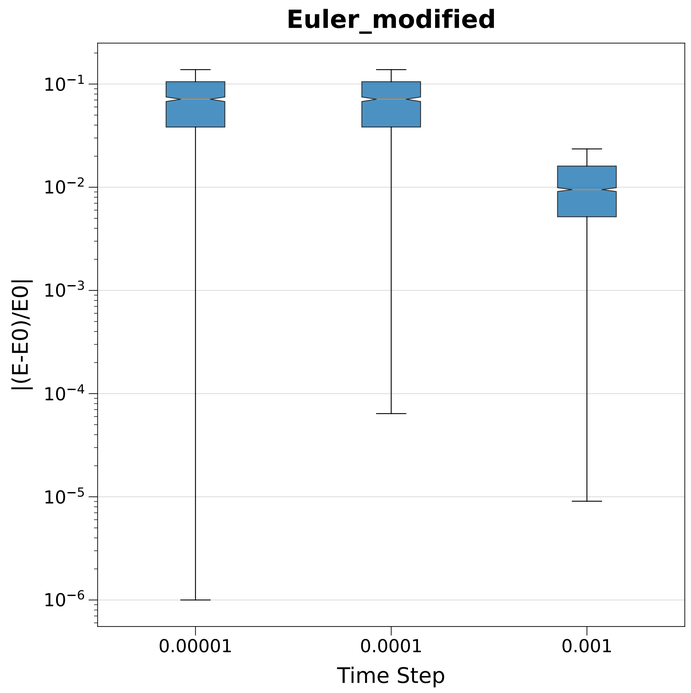


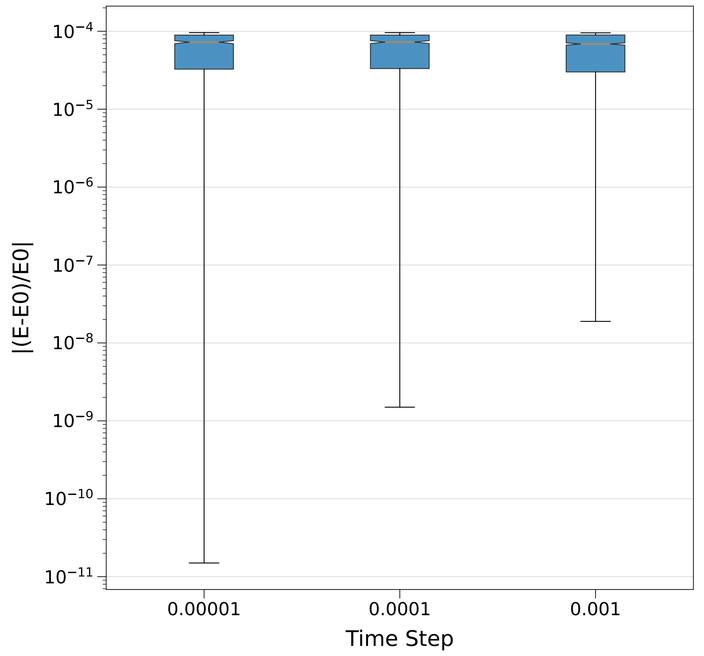
Total Energy Evolution
(M1=8.0, M2=2.0, e=0.5, rp=0.10, T=0.18)

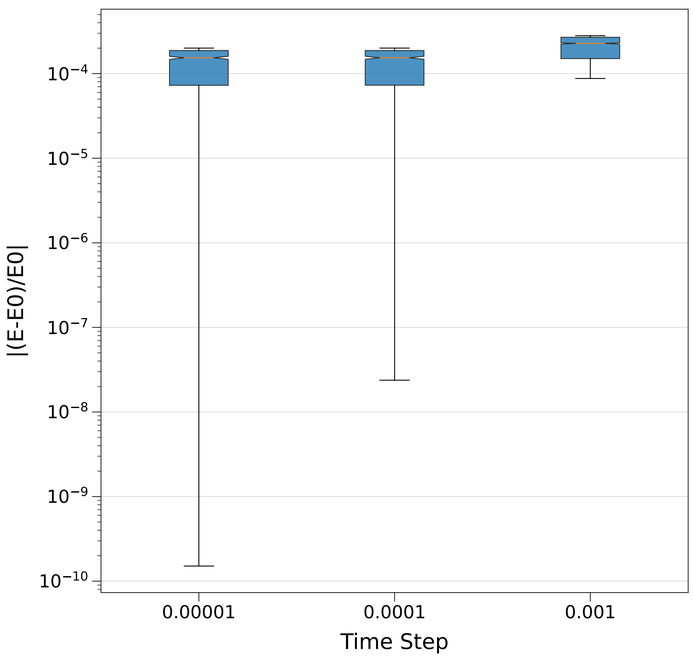


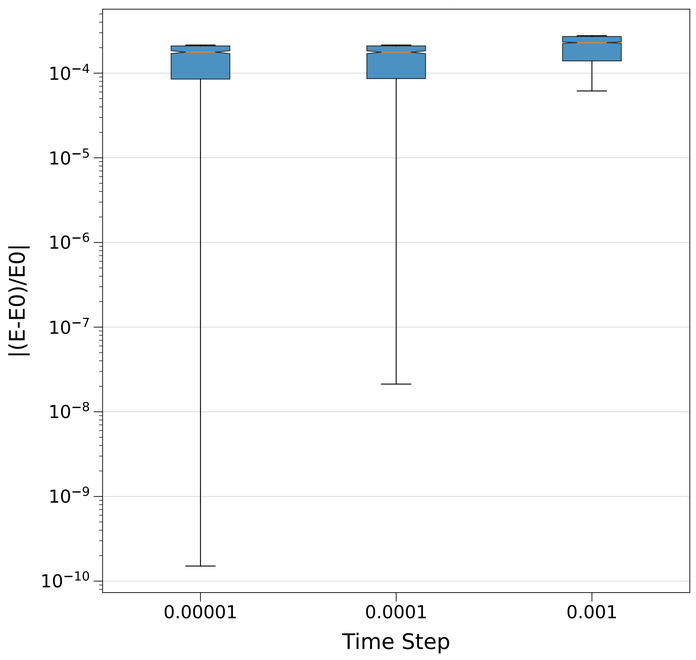
Relative Energy Errors
(M1=8.0, M2=2.0, e=0.5, rp=0.10, T=0.18)

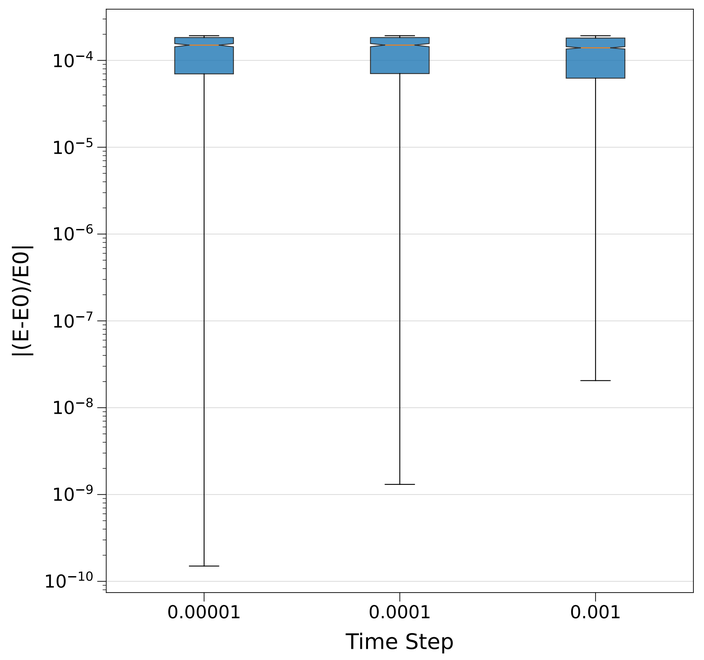


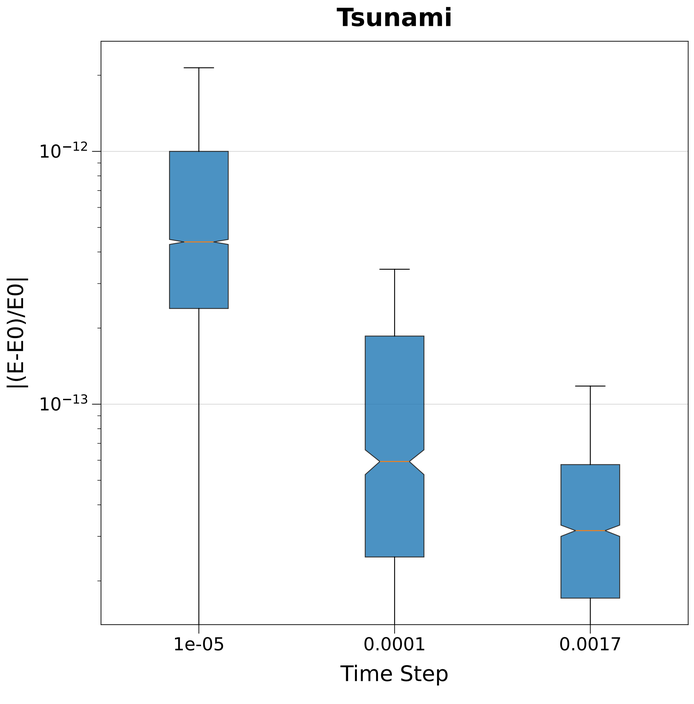




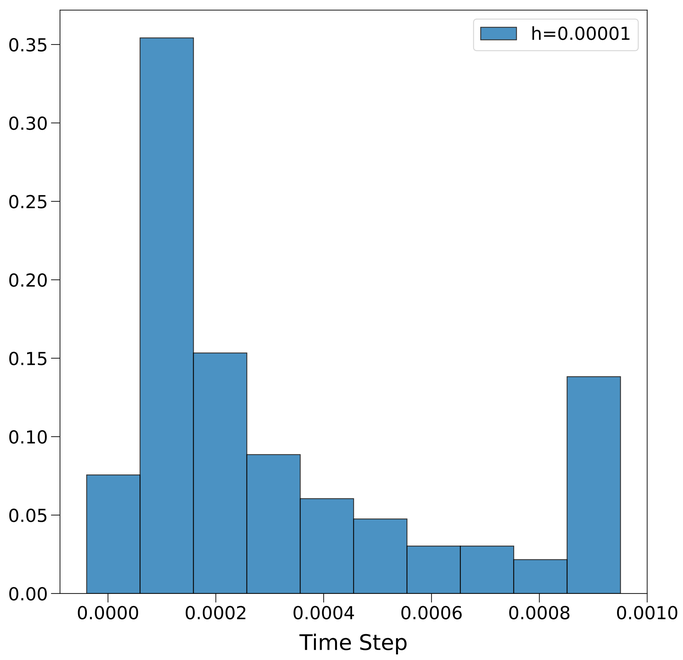




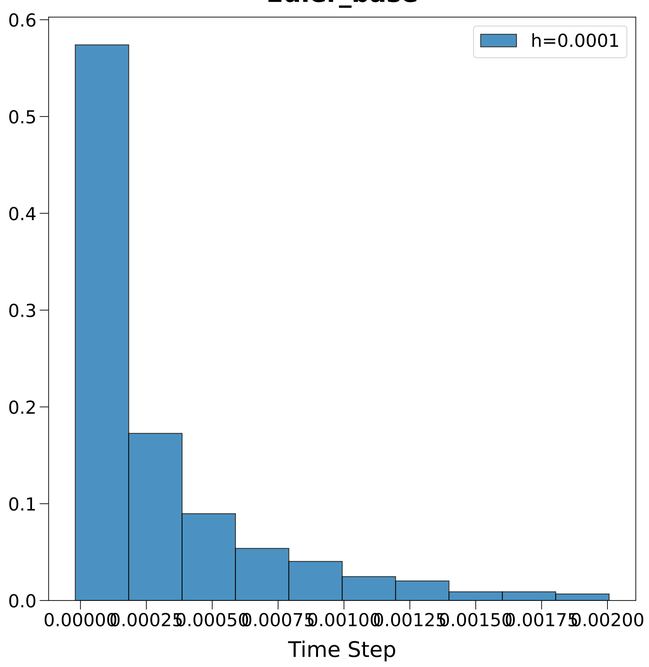


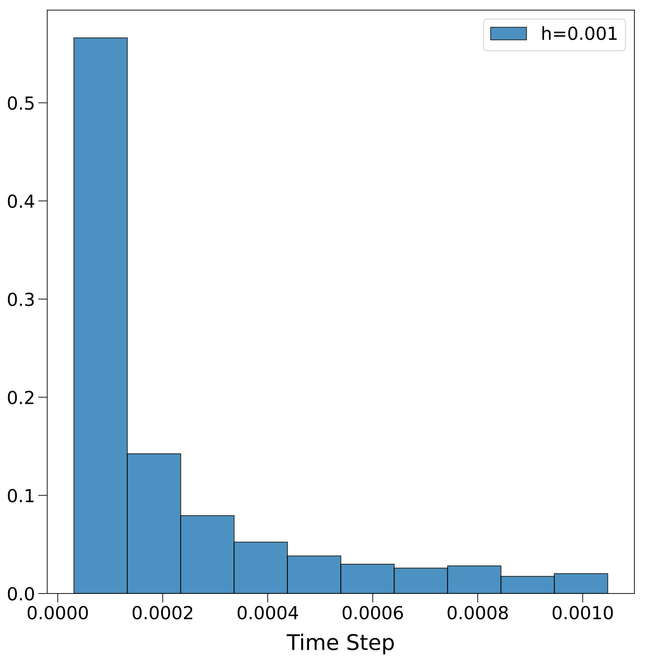


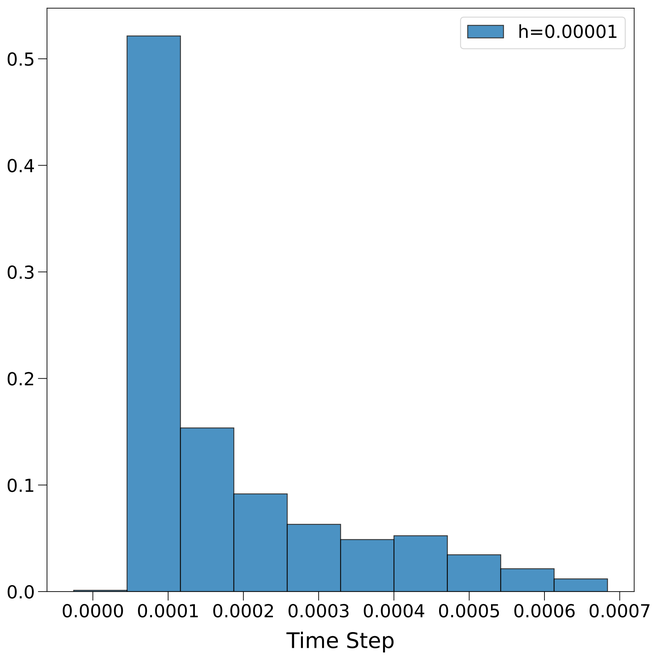
Adaptive Timesteps Distribution
(M1=8.0, M2=2.0, e=0.5, rp=0.10, T=0.18)



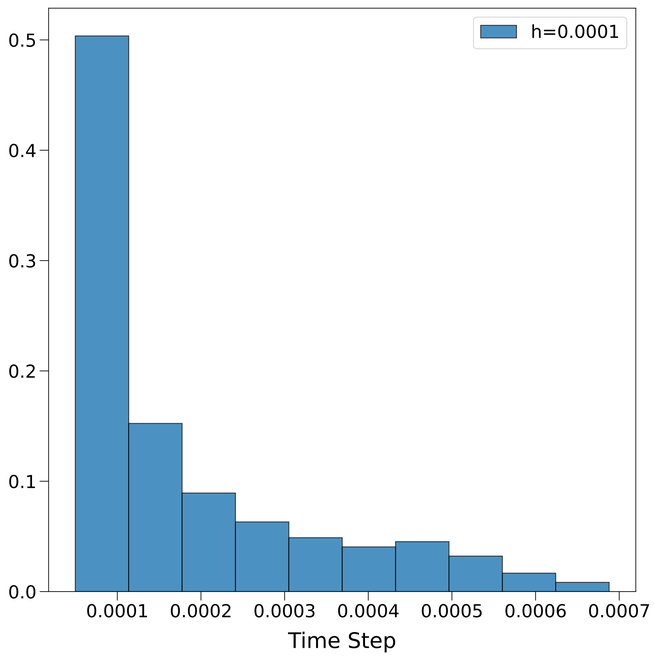
Euler_base

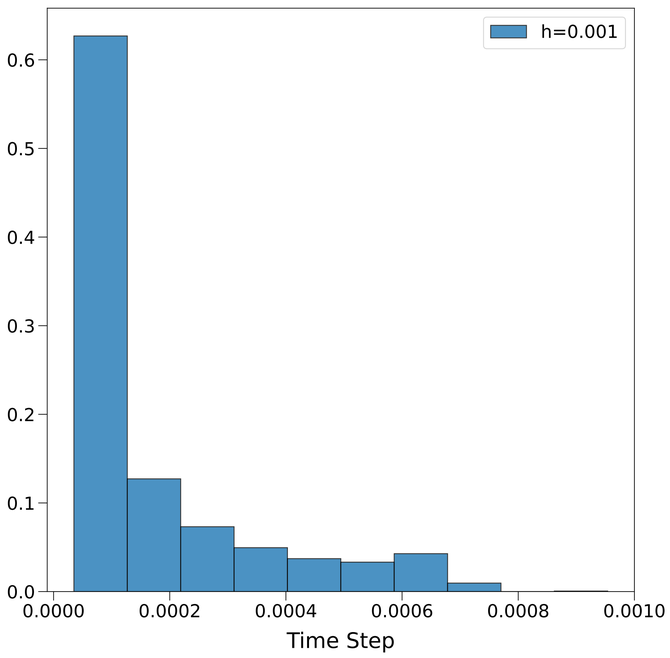




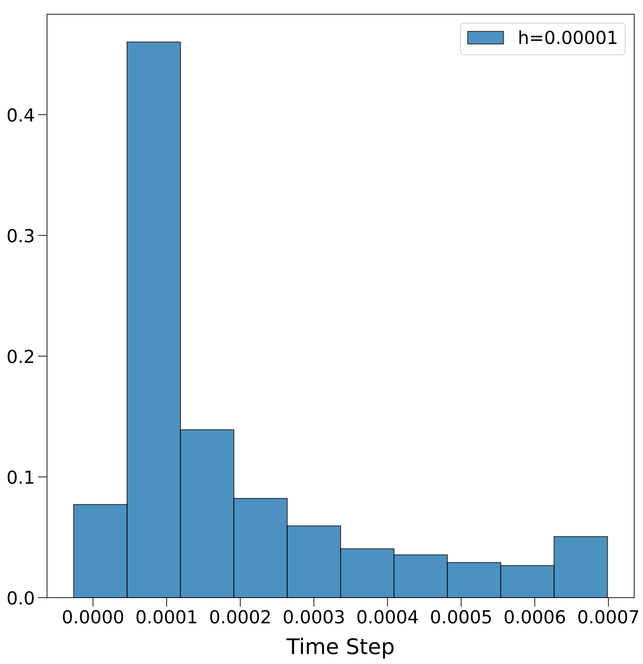


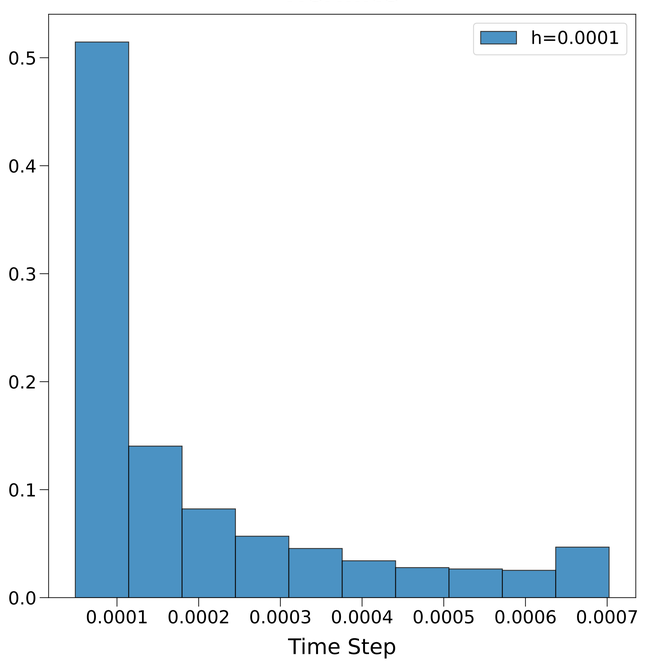
Euler_modified

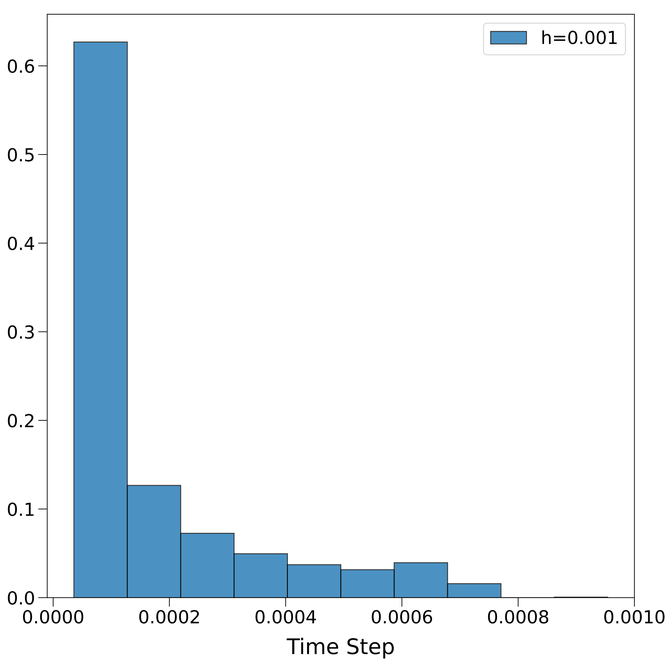




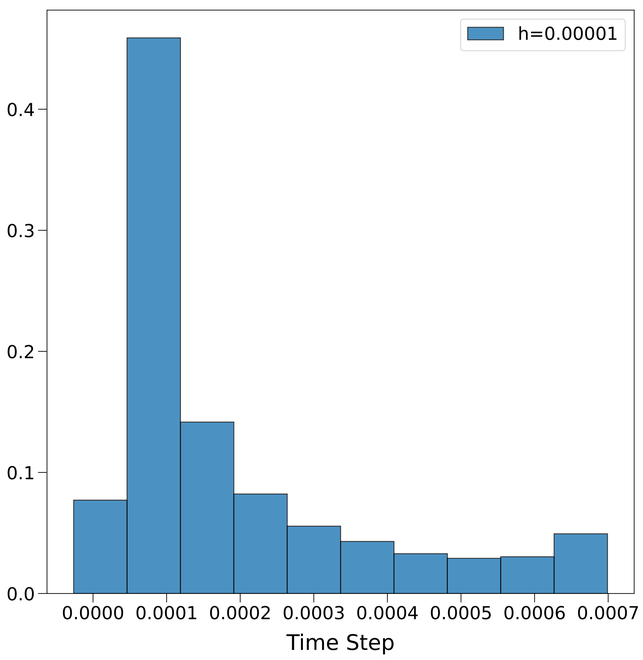
Hermite

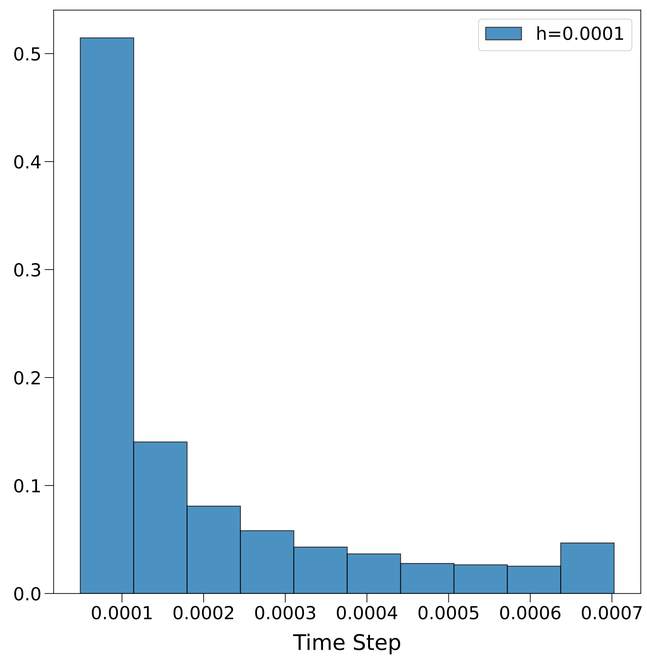


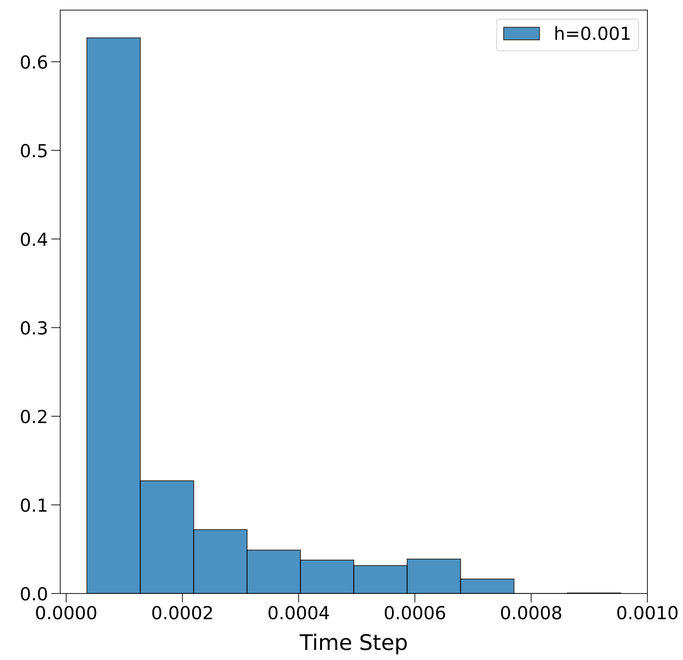




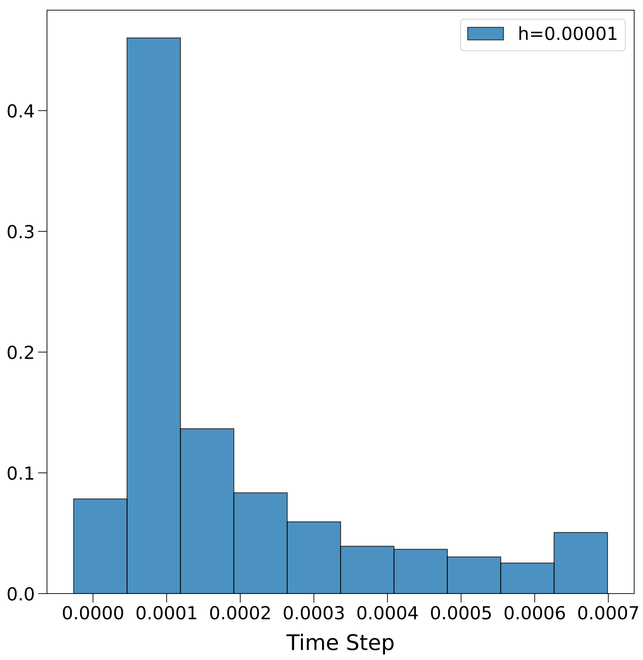
RK2-Heun

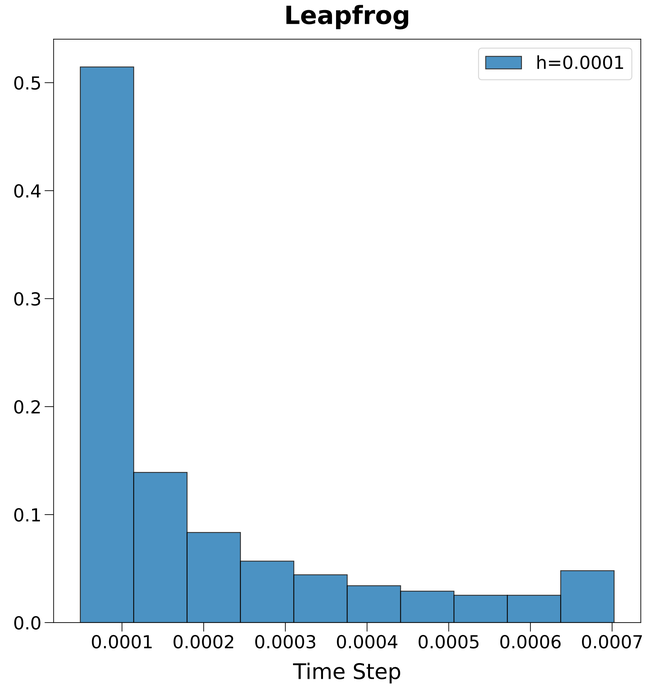


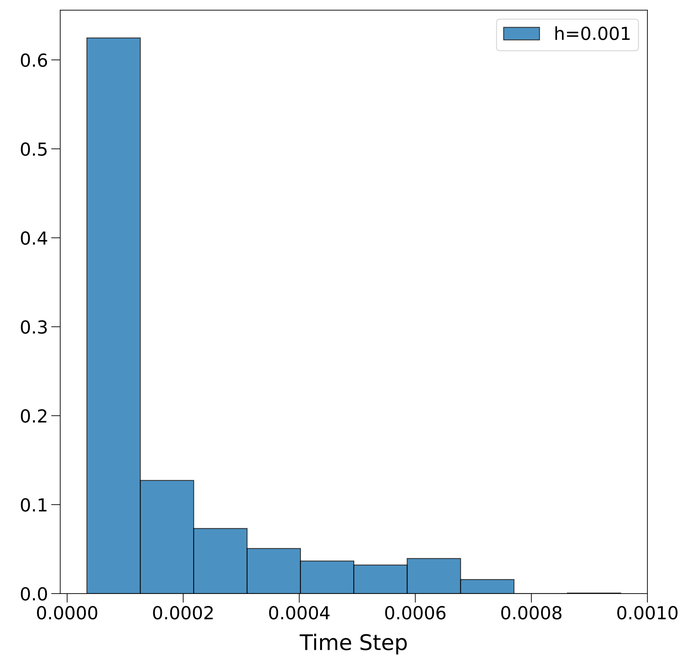




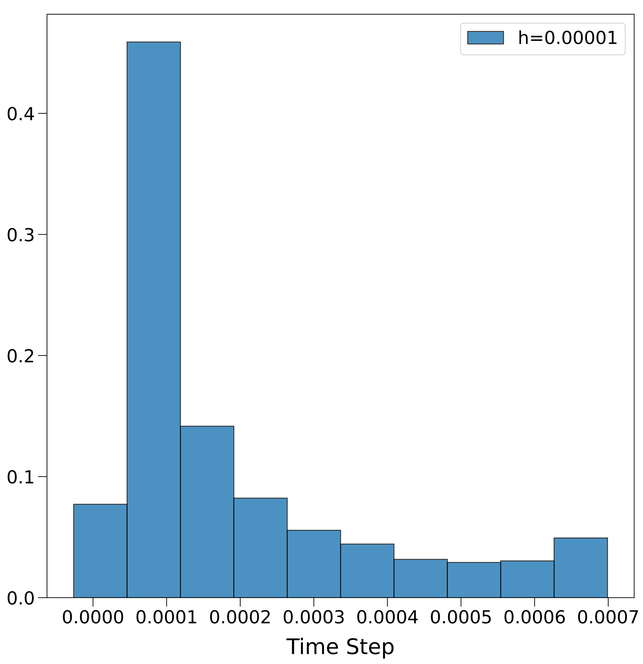
Leapfrog

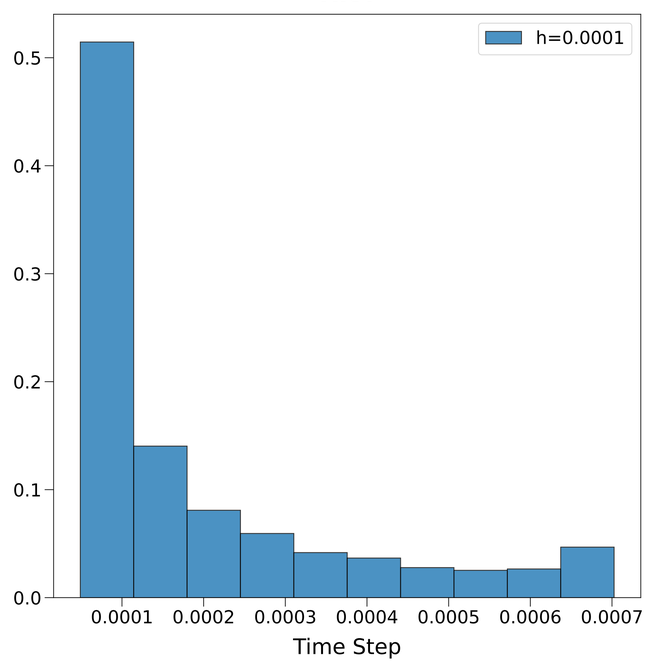


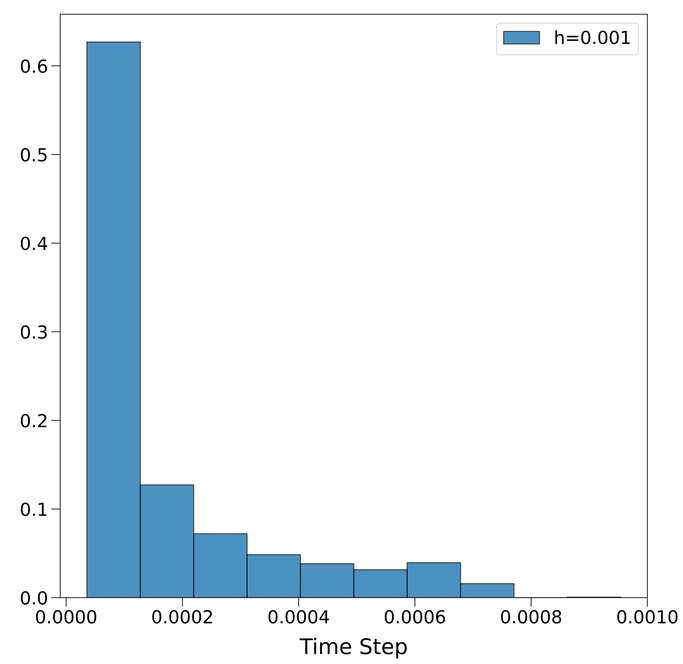


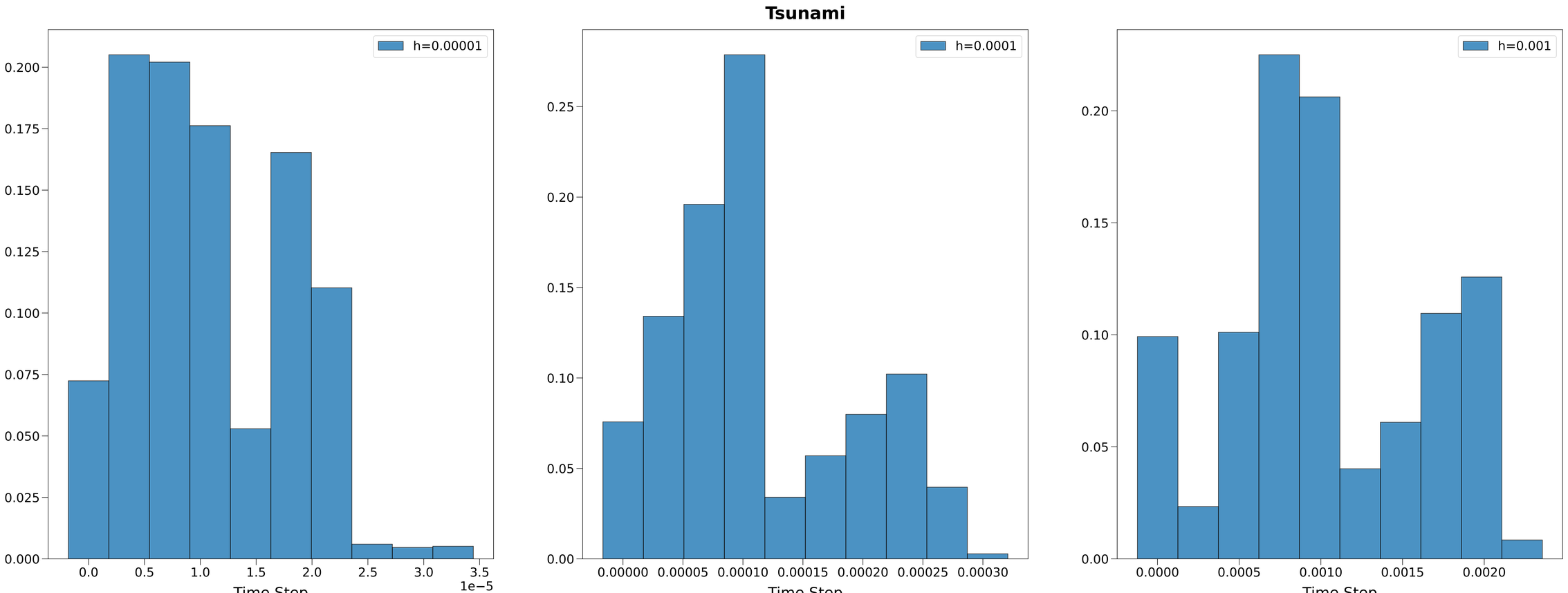


RK4

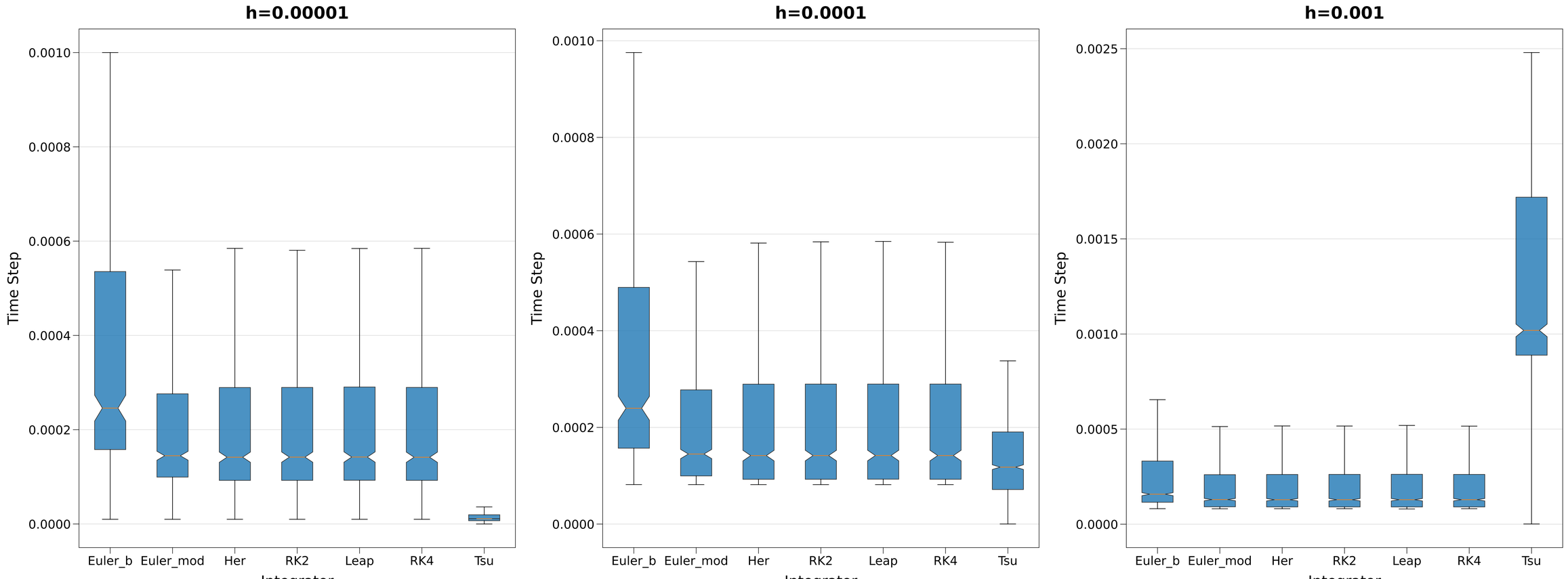




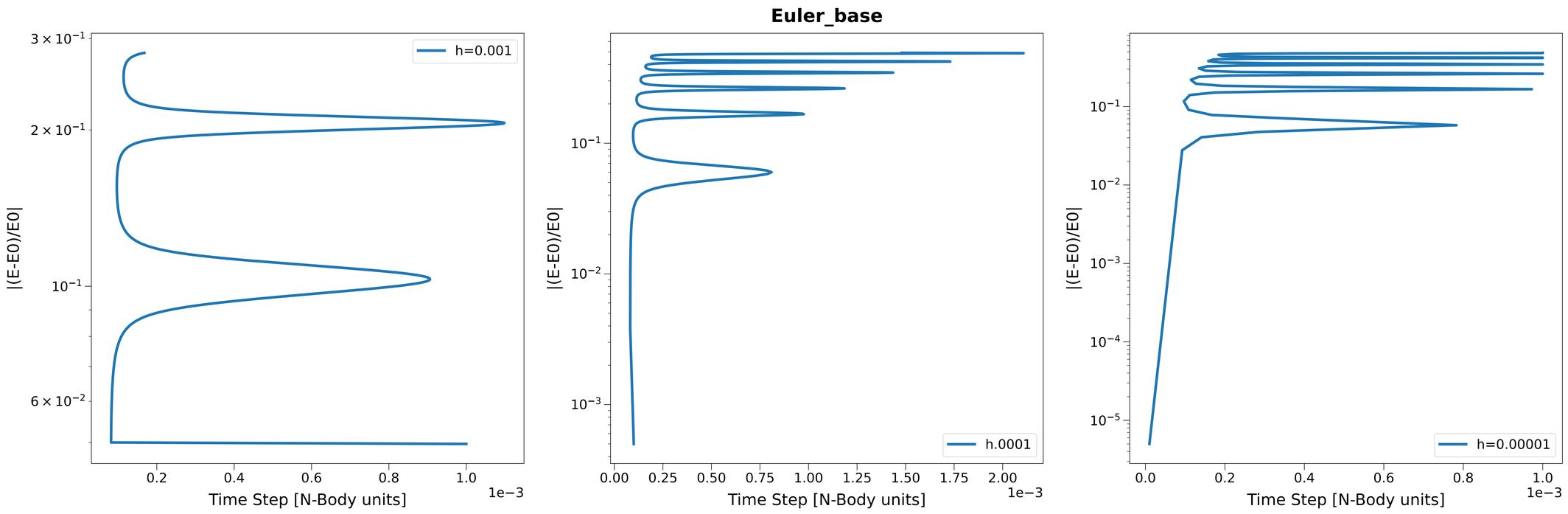


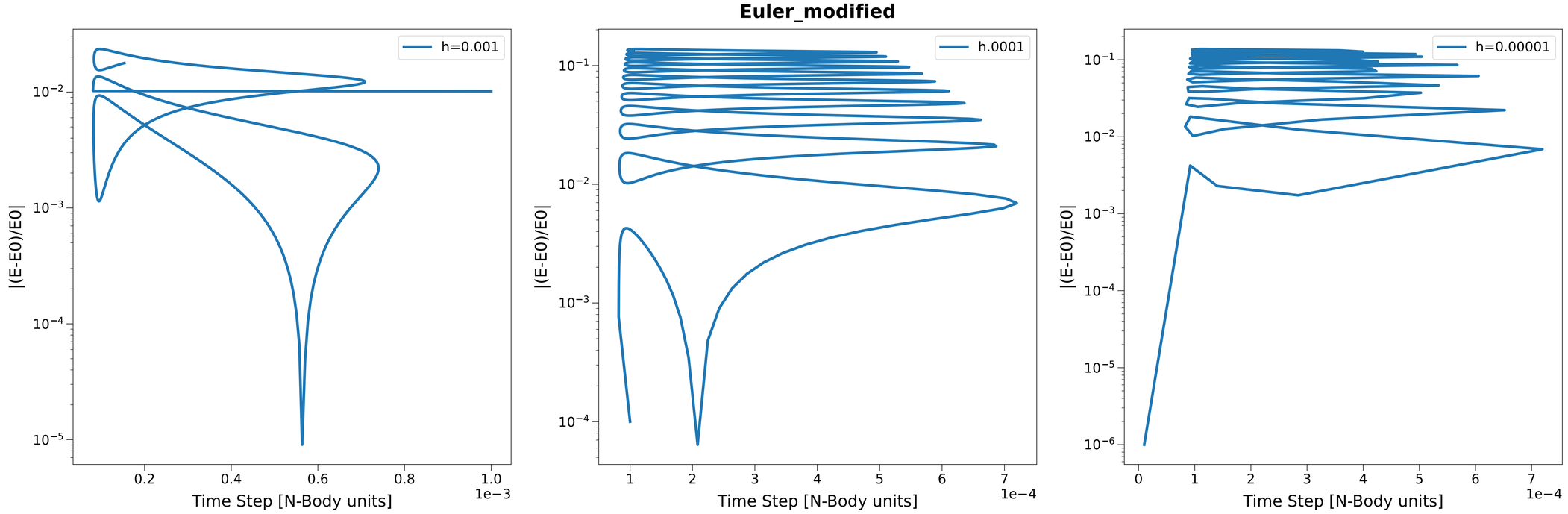

Tsunami
h=0.00001
0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
1e−5
Time Step
h=0.0001
0.25
0.20
0.15
0.10
0.05
0.00
0.00000
0.00005
0.00010
0.00015
0.00020
0.00025
0.00030
Time Step
h=0.001
0.20
0.15
0.10
0.05
0.00
0.0000
0.0005
0.0010
0.0015
0.0020
Time Step

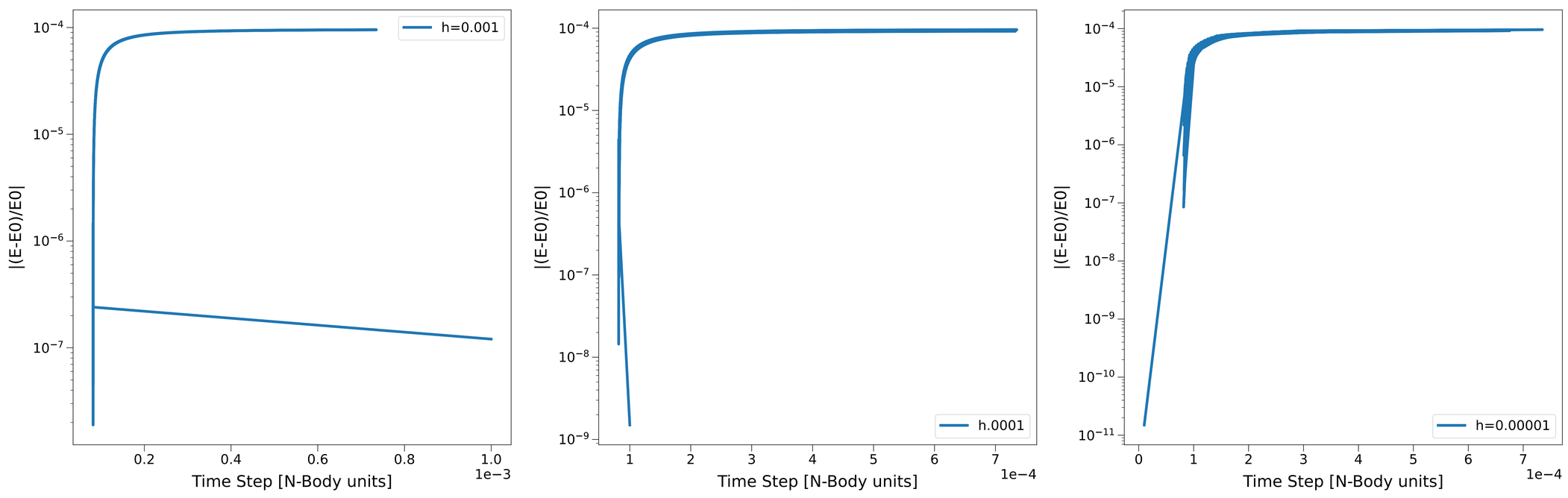
Adaptive Timesteps
(M1=8.0, M2=2.0, e=0.5, rp=0.10, T=0.18)



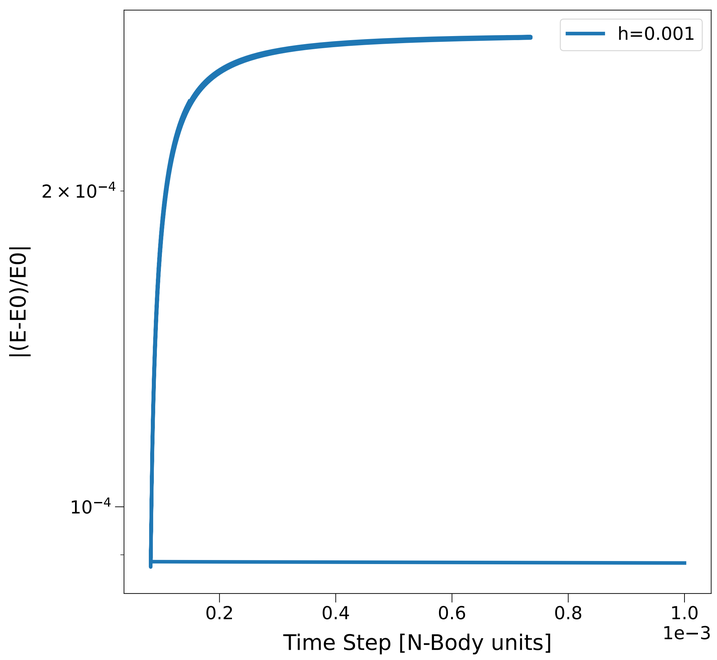
tstep vs |ΔE/E|
(M1=8.0, M2=2.0, e=0.5, rp=0.10, T=0.18)

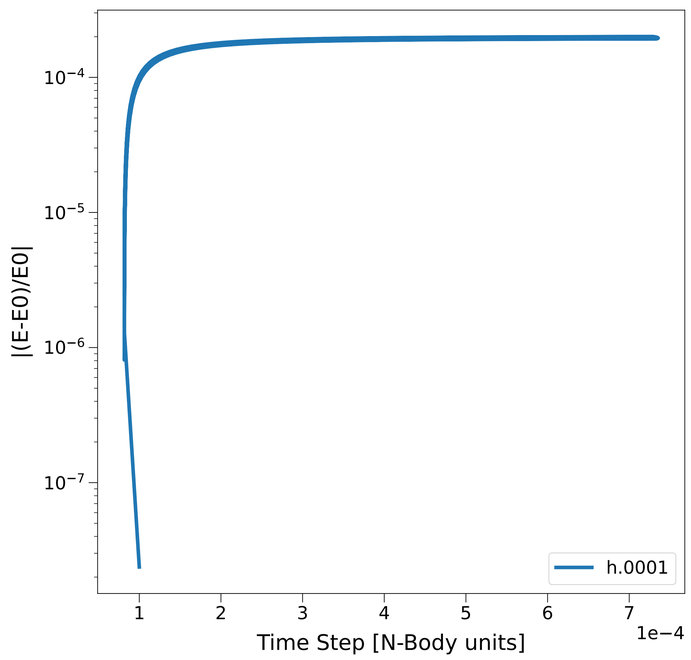


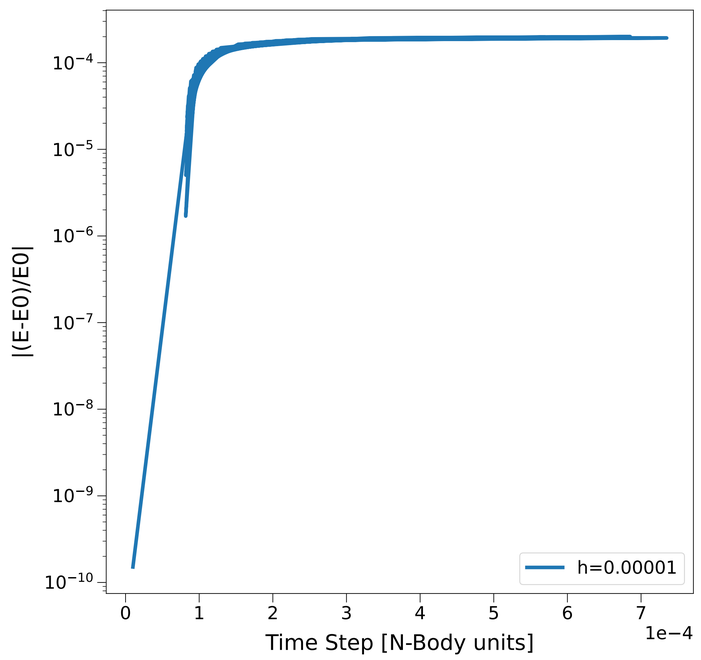




RK2-Heun







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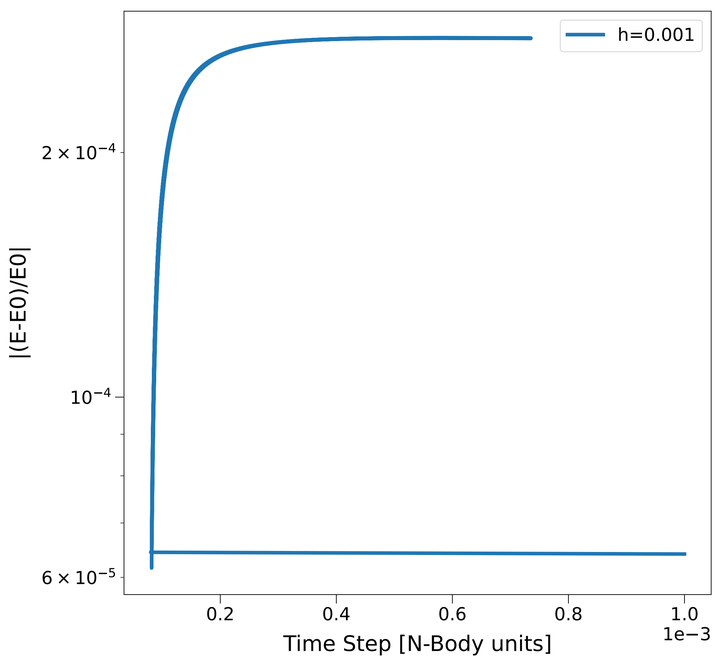
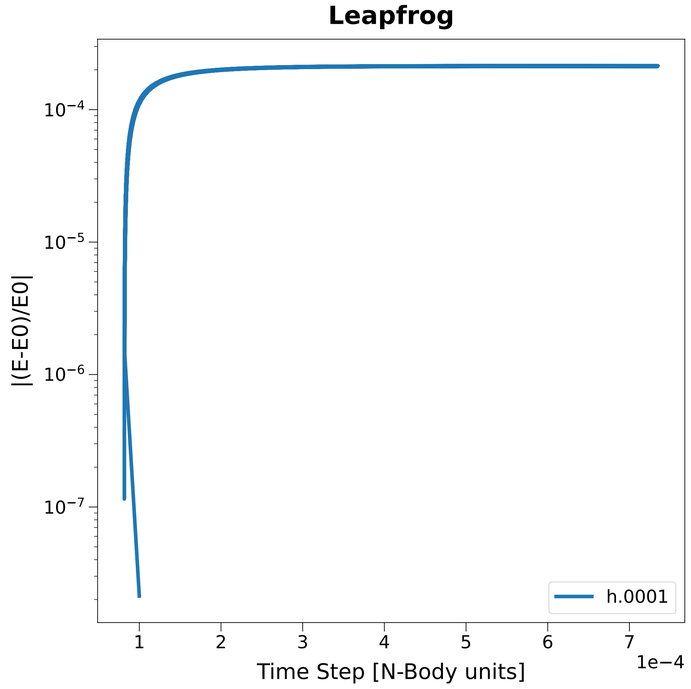
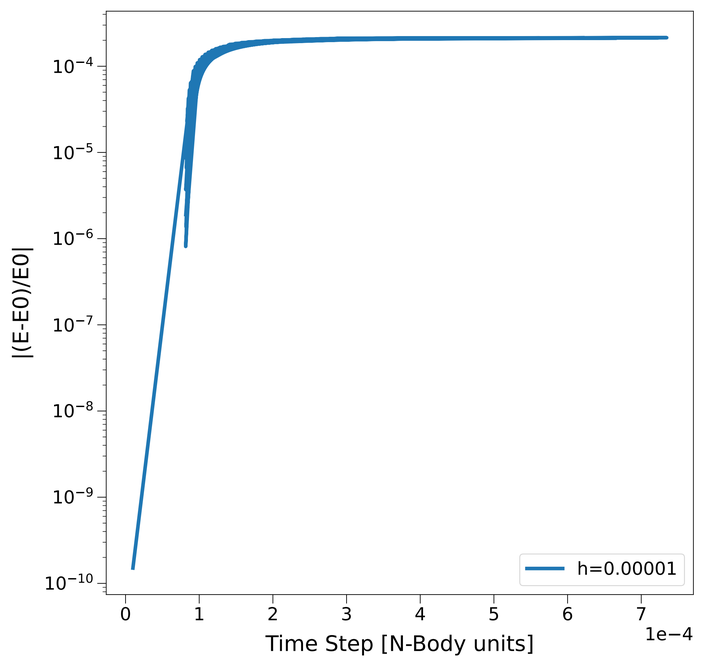
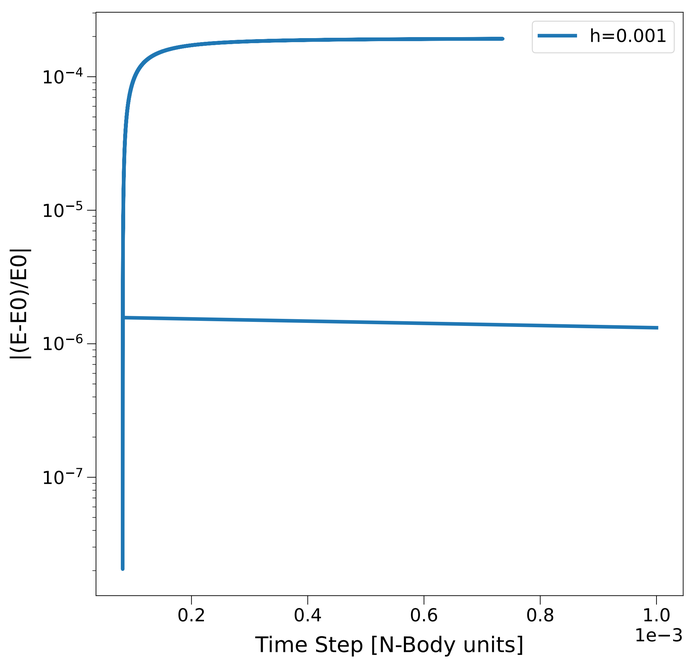
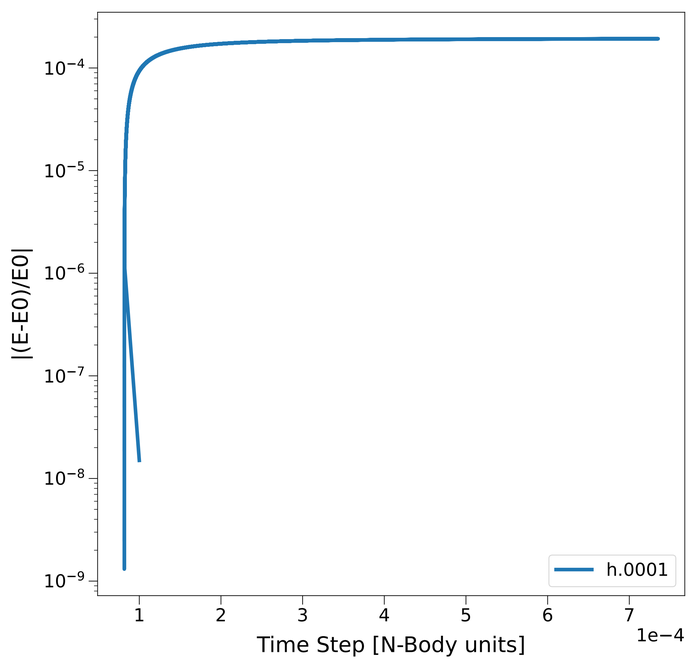


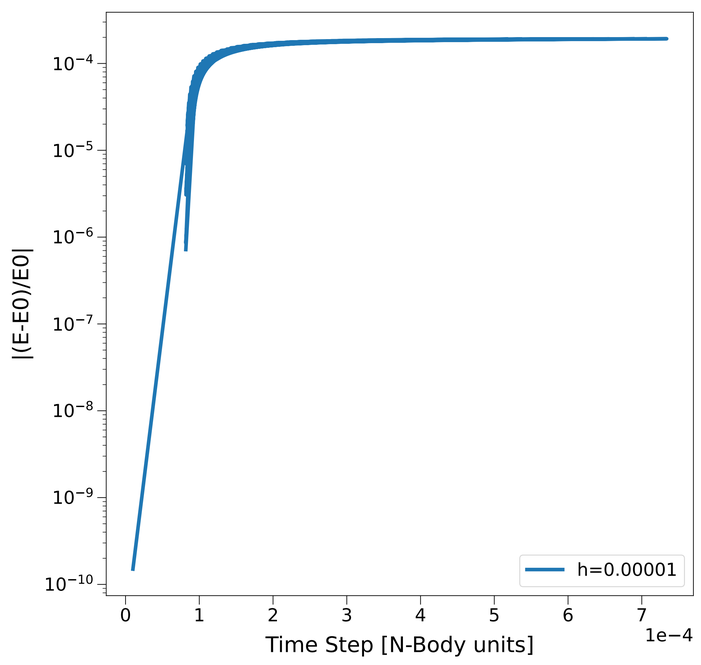


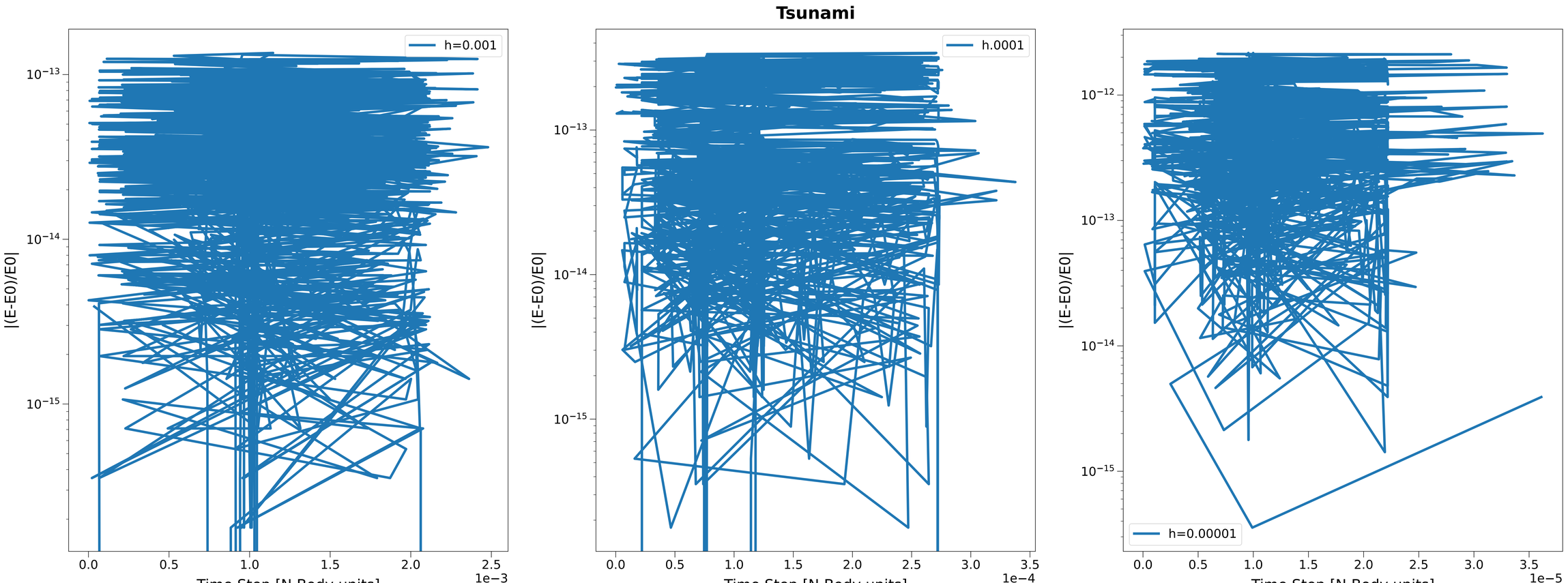


RK4








Tsunami
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Time Step [N-Body units]
1e−3
1e−4
1e−5