

Leapfrog: Eccentricity = 0.5, T = 50, h = 0.01



Proposed timestep  $h^* = |r_2 - r_1|/|v_2 - v_1|$

Distance between masses

0

10

20

Time

30

40

50

3.00

2.75

2.50

2.25

2.00

1.75

1.50

1.25