Mathematical oscillator, x'' + sin(x) = 0, Verlet DE solution Phase space Oscillation time - 2.0 0*x/x* t_0 Numerical solution 1.00 -16 -1.5 -Eliptic integral 0.75 -- 1.8 1.0 -14 0.50 -0.5 -0.25 -- 1.6 12 ×° 0.00 -0.0 -- 1.4 -0.25 --0.510 --0.50-1.0 - 1.2 8 --0.75 --1.5 --1.00 -1.0 1.0 2.0 10 0.5 1.5 2.5 3.0 8 -1.0-0.50.0 1.0 x/x_0 x_0