Phase space plots for the particles 1 and 2 (x, v_x , t) No interaction between particles With interaction between particles Particle 1 Particle 1 Particle 2 Particle 2 50 50 40 40 c (μs) 0ε t (μs) 20 20 10 10 40 40 20 20

-60 -40 -20 0

x (um)

40

60

-40

-60 -40 -20

X (um)

40

60

80