Density profiles at final time for different drift velocities $u_d = 0.0$ $-u_d = 0.1$ 0.30 $-u_d = 0.2$ $u_d = 0.5$ $u_d = 1.0$ 0.28 -0.26 n(x, t_{final}) 0.22 0.20 0.18 -0.16 -0 10 6 8 Χ