## Density profiles at final time for different drift velocities $u_d = 0.0$ 0.210 $--- u_d = 0.5$ $u_d = 1.0$ 0.208 $u_d = 2.0$ $u_d = 3.0$ 0.206 $u_d = 4.0$ --- $u_d = 5.0$ (x, t<sub>final</sub>) 0.202 - $--- u_d = 6.0$ $u_d = 7.0$ 0.200 0.198 0.196 -2 10 8 0 6 Χ