Neighbor search Density **p** Pressure p step Forces F p,v,ext simulatioh Velocity v Position x

Neighbor search Forces F v,ext Init pressure p = 0Init $F^p = 0$ while $(\rho^* err > \eta)$ **Predict velocity Predict position** Predict density Density variation **ρ***err Pressure $p += f(\mathbf{p}^* err)$ Force F p Velocity v Position x

*iterative*prediction-correction
scheme