

Particle Methods

- ▶ **Molecular Dynamics** – Shake and Rattle
- ▶ **Lattice Gas** – MD on a grid, noisy
- ▶ **Lattice Boltzmann** – smooth, but too many variables
- ▶ **Stokesian dynamics** - for low Reynolds numbers
- ▶ **Brownian Fields**
- ▶ **Dissipative Particle Hydrodynamics** – misconceived
- ▶ **Force Couple Method** – squashy particles
- ▶ **Granular media simulations** – like MD
- ▶ **Soft Particle Hydrodynamics** – grid-less, good on inertia, not other