

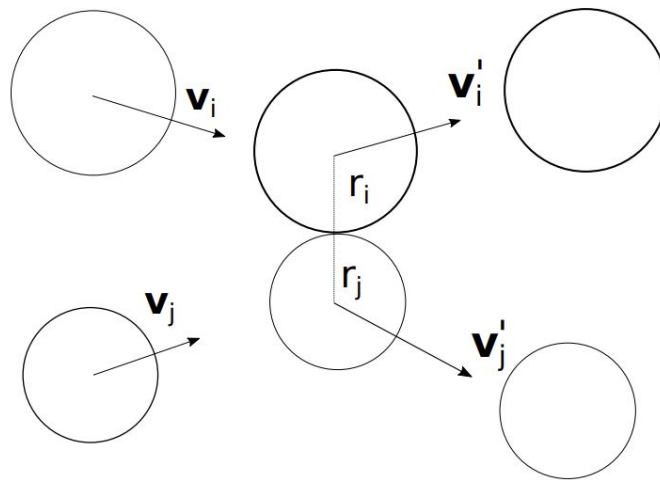
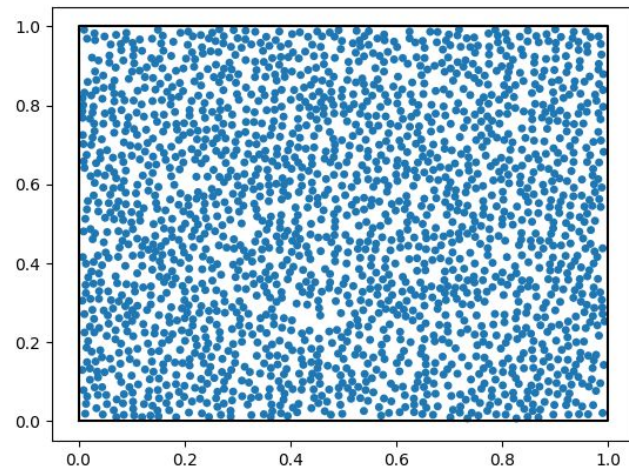
Studies of flocculation by granular gas dynamics modelling

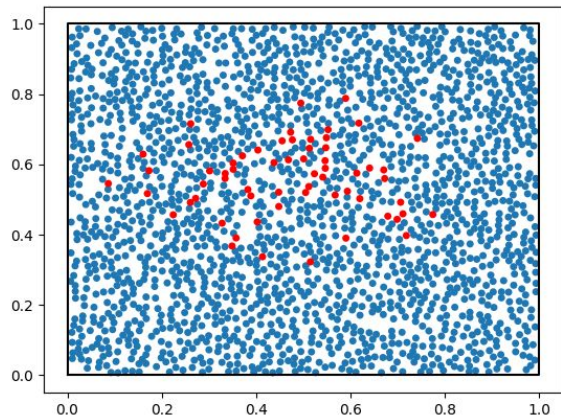
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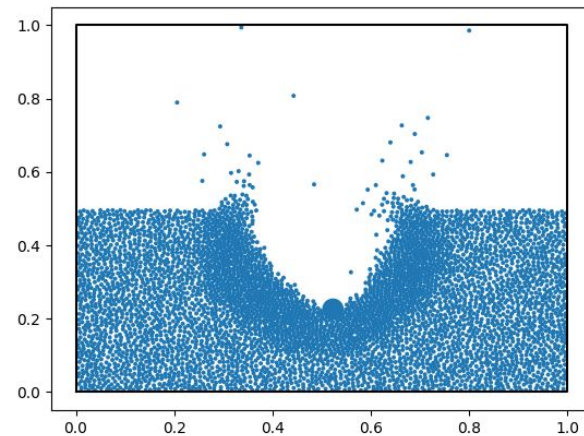
Project description

- Numerical project in Python
- 2D system of N particles
- Restitution coefficient
- Force-free description of collisions
- Event driven simulation
- Molecular dynamics
- Granular gases
- Flocculation

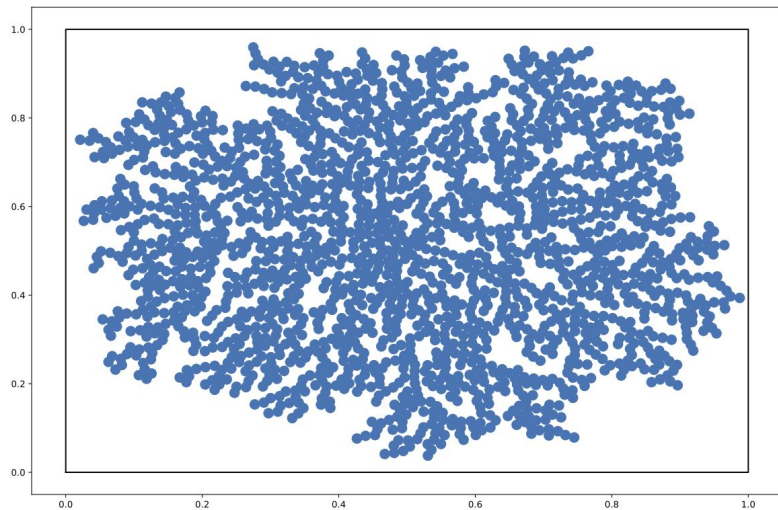




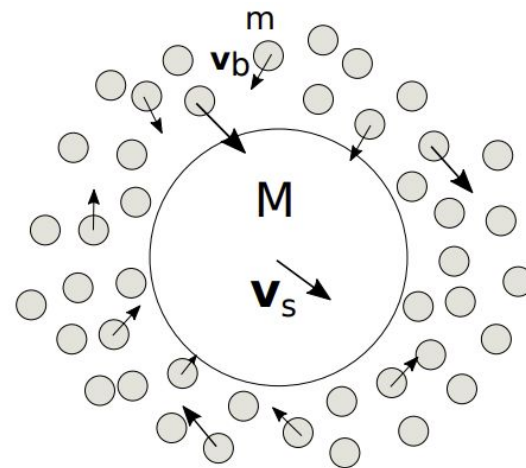
a) Diffusion properties



b) parameter study of projectile



c) Sticky particles



d) Brownian particle

Further work

- Study granular gases and flocculation
- Parallelization -> Use Idun
- Study how different particles mix, e.g water and oil
- Use the developed framework to study different problems

