**Introduction of particles**

1. Location of the injection point to be determined.
2. Select type of particle distribution (Gaussian for now, point particles, need to fix the particle diameter).
3. Solve for particle equations of motion (continuity and momentum only) – total force acting by BBO equation (F) = F\_L + F\_D + F\_added + F\_grav (No Basset force required).

F\_L = Lift force – Model to be used – Saffman lift.

F\_D = Drag force – Model to be used to be decided, depends on particle Stokes number.

F\_added = Added mass effect.

1. Fix the Stokes number to decide particle characteristic time scale.
2. Monte-Carlo simulation for determining u’ (discrete eddy/Langevin model).
3. Specular reflection to be implemented.