

INITIALIZATION:
Particle positions, velocities
and charges

SCATTER:
Interpolate phase space
density at macro-particles
onto grid to obtain $f(\mathbf{v})$

SOLVE:
Compute fields $\mathbf{F}_d(\mathbf{v})$ and
 $\underline{\underline{D}}(\mathbf{v})$ from $f(\mathbf{v})$

GATHER:
Interpolate fields
from grid to particles

PUSH:
Update particle
position and velocity

