

Density
Estimation
 $r(t)$ to densities



Obtain particle-
field forces
F H-hPF



Outer rRespa
update
F H-hPF to $v(t)$

DOMAIN DECOMPOSITION
COMMUNICATION LAYER
- particles to grid with CIC.
Particle number densities
smoothed by filter G.

Obtain bonded
forces
F bond



Inner rRespa
F bond to $v(t)$
and $r(t)$



If $i + 1 < n$:

False

True

SERIAL
MPI

