

Hands-On-Session –IV (13/2/12) Time 2-4pm

Demonstrate the lab assignments of sessions-I, II, III.

Make a new copy of your Force Calculation Program &
Name it “**loginid_4a.c**” (retain your older version!!)

1. Read the fcc (4x4x4) positions (x, y, z -*already generated*)
Keep (0, 0, 0) particle displaced at (-0.2, 0.3, 0.5).
2. Impose PBC & Minimum Image Convention (Rcut = 10A)
3. Use the forces to integrate the equations of motion using
“velocity Verlet” algorithm. Use time step, $dt = 1$ fs.
mass- that of argon. (**Workout the unit system!!!**)
Perform 100 MD steps.

Bring Your Notebooks/C/Fortran- books;

Do not use internet!