



سمینار هفتگی گروه ماده چگال نرم

An introduction to the MPI cluster (Mini cluster of physics department)

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Recently a mini-cluster has been established in Physics department of Sharif University. This cluster now consists of 8 computational nodes and in near future 8 other nodes will be added to it. A job manager (Torque) has been used to schedule the jobs and Message passing interfaces on the MPI cluster are lam and mpich. So far, some useful packages such as LAMMPS, Gromacs, ESPResSo and WEIN2K are installed on it.

Being familiar with the great features of clusters is necessary for those who are concerned with computational physics and will increase the efficiency of their works.

In this seminar, some useful aspects of this cluster and its characteristics will be introduced. The subjects which will be discussed is particularly advantageous for the users of the MPI cluster.

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