

Minutes of Second Meeting

Date : 10/1/2015

Time : 11:00am

Topic : Demonstration of Software by User.

Points Discussed :

- 1) User demonstrated software to the team.

2) Description of software is as follows:

- a) **Name** : micrOMEGAs
- b) **Version** : 4.1.5
- c) **Source** : <http://lapth.cnrs.fr/micromegas/>
- d) **Supported OS** : Linux
- e) **Functionality** : micrOMEGAs is a code to calculate properties of Cold Dark Matter (CDM) in a generic model of particle physics. The package contains different codes for different models of particle physics e.g. LHM, IDM, MSSM etc. Each code can be compiled and run to get desired output. Input data is fed to program in a specific format in as *.par archives.

Conclusion :

- 1) We decided to understand the working of the code first.
- 2) We decided to go for Domain as well as Task Decomposition Technique in order to parallelize code.
- 3) We decided to try option of OpenMP.