

MHPC Workshop on High Performance Computing

Friday, February 26, 2016

HPC in science: Condensed Matter - Room 128 (8:45 AM - 10:15 AM)

-Conveners: Ivan Girotto

| time | [id] title | presenter |
|----------|--|---------------------|
| 8:45 AM | [15] Here and now: the intersection of computational science and computer science | MARZARI, Nicola |
| 9:25 AM | [16] High Performance Computing and Materials Science: How atomistic simulations can pave the way for clean and sustainable energy | GEBAUER, Ralph |
| 9:45 AM | [40] MHPC thesis: High-performance implementation of the Density Peak clustering algorithm | BORELLI, Marco |
| 10:00 AM | [25] Improving Performance of Basis-set-free Hartree-Fock Calculations Through Grid-based Massively Parallel Techniques | Mr POSADA, Fernando |

HPC in science: Astrophysics and Earth Science - Room 128 (10:45 AM - 1:00 PM)

-Conveners: Giuliano Taffoni

| time | [id] title | presenter |
|----------|--|-------------------|
| 10:45 AM | [18] Simulating Cosmic Structure Formation | SPRINGEL, Volker |
| 11:15 AM | [19] Numerical simulations of galaxies and galaxy clusters at the Trieste Observatory | MURANTE, Giuseppe |
| 11:35 AM | [20] HPC for Earth Sciences: training opportunities and research challenges | SALON, Stefano |
| 11:55 AM | [21] MHPC Thesis: Shyfer Parallelization: An innovative task approach for coastal environment FEM software | PASCOLO, Eric |
| 12:15 PM | [0] HPC in Europe Prace | BASSINI, Sanzio |

HPC in science: High Energy Physics - Room 128 (2:15 PM - 4:15 PM)

-Conveners: Andrea Bressan

| time | [id] title | presenter |
|---------|--|---------------------|
| 2:15 PM | [22] The path toward High Performance Computing in High Energy Physics | CARMINATI, Federico |
| 2:55 PM | [23] Studies of Flavor and Hadron Physics using Lattice QCD simulations with modern HPC hardware | SIMULA, Silvano |
| 3:15 PM | [24] High Performance Computing in the ALICE experiment | MASERA, Massimo |
| 3:35 PM | [17] MHPC Thesis: Analysis of Hybrid Parallelization strategies: Simulation of Anderson Localization | AGUILAR MENA, Jimmy |