

HPC Applications to Turbulence and Complex Flows

Dept. of Physics Aula Grassano, University of Rome 'Tor Vergata'
Rome 10-14 October 2016

Monday 10, October

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|---------------|---|
| h 09.30:10.30 | Coffee + Registration + Welcome |
| h 10.30:11.25 | L. Biferale: Fundamentals of Turbulent Flows I |
| h 11.30:12.30 | L. Biferale: Fundamentals of Turbulent Flows II |
| h 12.30:14.00 | Lunch |
| h 14.00:14.55 | M. Cencini: Dynamical system approach to particle transport in fluid flows I |
| h 15.00:15.55 | F. Toschi: HPC applications for particles in fluid dynamics I |
| h 16.00:16.30 | Coffee |
| h 16.30:17.30 | F. Toschi: HPC applications for particles in fluid dynamics II |

Tuesday 11, October

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| h 09.30:10.30 | M. Cencini: Dynamical system approach to particle transport in fluid flows II |
| h 10.30:11.00 | Coffee |
| h 11.00:11.55 | M. Sbragaglia: Complex fluid dynamics from the lattice Boltzmann equation: fundamentals and applications I |
| h 12.00:12.55 | M. Sbragaglia: Complex fluid dynamics from the lattice Boltzmann equation: fundamentals and applications II |
| h 13.00:14.30 | Lunch |
| h 14.30:15.25 | M. Bernaschi: New platforms HW/SW for parallel computing in fluid dynamics and statistical mechanics I |
| h 15.30:16.00 | Coffee |
| h 16.00:17.00 | Short presentations from students (12+3 min each): Belardinelli, Xue, Busuioc, Milan |

Wednesday 12, October

- h 09.30:10.30 **J. Brasseur:** Fundamentals of Large-Eddy Simulation I
- h 10.30:11.00 **Coffee**
- h 11.00:11.55 **M. Bernaschi:** New platforms HW/SW for parallel computing in fluid dynamics and statistical mechanics II
- h 12.00:12.55 **G. Falcucci:** Lattice Boltzmann models for the study of Energy and Environmental Systems I
- h 13.00:14.30 **Lunch**
- h 14.30:15.25 **F. Bonaccorso:** Modern tools to manage multi-developers codes I
- h 15.30:16.00 **Coffee**
- h 16.00:17.15 **Short presentations from students (12+3 min each): Linkman, Iyer, Buzzicotti, Colabrese, Margazoglou**

Thursday 13, October

- h 09.30:10.30 **J. Brasseur:** Fundamentals of Large-Eddy Simulation II
- h 10.30:11.00 **Coffee**
- h 11.00:11.55 **J. Brasseur:** Fundamentals of Large-Eddy Simulation III
- h 12.00:12.55 **F. Bonaccorso:** Modern tools to manage multi-developers codes II
- h 13.00:14.30 **Lunch**
- h 14.30:15.25 **G. Falcucci:** Lattice Boltzmann models for the study of Energy and Environmental Systems II
- h 15.30:16.30 **Short presentations from students (12+3 min each): Tauzin, Gabbana, Blaga, Lulli**

Friday 14, October

h 09.30:12.55 **Free for discussions**
h 13.00:14.30 **Lunch**
h 14.30:15.00 **Closing**



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