Introduction to MATLAB on HPC systems at CINECA

Agenda

9:30 – 10:00 CINECA clusters and how to get resources [Diego Molinari, Cineca]

10:00 – 11:00 Parallel Computing with MATLAB (part I) [Raymond Norris, MathWorks]

11:00- 11:15 Coffee break

11:00 – 13:00 Parallel Computing with MATLAB (part II), [Raymond Norris, MathWorks]

13:00 – 14:00 Lunch

14:00 – 17:00 Hands-on MATLAB on the HPC computing environment at CINECA, [Raymond Norris, MathWorks]

At the end of this event the participant will be familiar with:

· Optimizing MATLAB code by utilizing multiple cores

· Scaling up your computations: GPU and Cluster computing

· Working with big data in MATLAB

· Accessing MATLAB on CINECA Leonardo HPC Cluster

· Moving/submitting jobs from your local machine to the CINECA Leonardo HPC Cluster

· Parallel Cluster configuration via local MATLAB GUI

· Remote access to HPC systems and job submission via local MATLAB GUI