

# Introduction to HPC Scientific Programming: tools and techniques

## Agenda

### Day 1 (3 November) [F. Affinito]

9.30 - 9.45 *Registration*

9.45 - 11.30 *Computer architectures*

11.30 – 13.00 *Cache and Memory systems*

14.00 - 17.30 *Pipelining and profilers*

### Day 2 (4th November) [A. Emerson, Massimiliano Guarrasi]

9.30 - 13.00 *Compilers*

14.00 - 15.30 *Libraries for HPC*

15.30 - 17.00 *Program debugging*

### Day 3 (5th November) [F. Affinito, A. Emerson]

*Hands-on workshop (practical session)*

*In the final day of the course students will apply the lessons of the previous days with real-world examples. Students are invited to bring their own application codes, otherwise example applications will be provided.*