

**Session Program**

20-26 Oct 2013

**Fifth INFN International School on:  
"Architectures, tools and methodologies for  
developing efficient large scale scientific  
computing applications" ESC13 - Bertinoro  
(Forlì-Cesena) Italy 20-26 October 2013**

***Session 4: Introduction to parallel computing***

Bertinoro

# Wednesday 23 October

14:00

## Session 4: Introduction to parallel computing

Session | Location: Bertinoro

14:00–14:45

### Motivation.... The power wall and the emergence of ubiquitous heterogeneous computing

**Speaker**

Dr Tim Mattson

14:45–15:30

### Parallel Computing: basic concepts and vocabulary

**Speaker**

Dr Tim Mattson

15:30–16:00

### Coffee break

16:00–16:45

### Parallel hardware: from SMP to GPU to clusters to massively parallel supercomputers

**Speaker**

Dr Tim Mattson

16:45–17:30

### Core design patterns of parallel algorithms

**Speaker**

Dr Tim Mattson

18:00