



Eleventh
International School on

**"Architectures, tools and methodologies
for developing efficient large scale scientific
computing applications"**

EFFICIENT SCIENTIFIC COMPUTING
Ce.U.B Bertinoro (Italy) 21 - 26 October 2019



<https://web.infn.it/esc>

Application deadline: **16th September 2019**

Program

- The basics of efficient programming
 - Modern processor architectures
 - Efficient floating-point computation
 - Tools and methodologies for improved performance
 - Efficient exploitation of modern C++
 - Managing memory usage
- Parallel programming for scientific applications:
 - Heterogeneous architectures
 - Programming with Threading Building Blocks
 - Effective vectorization
 - GP-GPU programming with CUDA
 - Cluster computing with MPI

