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Subject: ESC2017 - Bertinoro (Italy) - 23-28 October 2017  
Posted by [Stefano Spataro](#) on Mon, 26 Jun 2017 12:11:43 GMT  
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The ninth edition of the INFN International School on "Architectures, tools and methodologies for developing efficient large scale scientific computing applications - ESC17" will be held in Bertinoro (Italy) from the 23rd to the 28th October 2017.

The school is mostly targeted to PhD students, post-docs and young researchers who are actively involved with the development of scientific applications and systems. Familiarity and experience with basic concepts of modern OO languages, in particular with C++ language, are desirable prerequisites to attend the school.

The program of this year is structured along two main tracks:

The basics of efficient programming:  
New processor architectures  
Efficient floating point computation  
Tools and methodologies for improving performance  
Efficient exploitation of the C++ language  
Managing memory usage  
Parallel programming for scientific applications:  
Introduction, OpenMP programming  
GPU architectures and heterogeneous programming  
Effective vectorization  
Introduction to OpenCL and CUDA  
Cluster computing

Lectures will be interspersed with tutorial and practical sessions, providing opportunities for direct applications of optimization tools and technologies as well as for interactions among students, lecturers and tutors.

Detailed agenda and further information to apply to ESC17 are available on the school web site

<https://web.infn.it/esc17/>

The deadline for application is: 15 September 2017.

Mauro Morandin  
On behalf of the International Scientific Committee

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