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Subject: Re: International school on scientific computing, Bertinoro (Italy), 19-25 October 2014

Posted by [Stefano Spataro](#) on Wed, 03 Sep 2014 15:17:19 GMT

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The sixth edition of the INFN International School on "Architectures, tools and methodologies for developing efficient large scale scientific computing applications - ESC14" will be held in Bertinoro (Italy) from the 19th to the 25th of October 2014.

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 ESC14 are available on the school web site <https://web2.infn.it/esc14/> The deadline for application is: \*15 September 2014\*.

Mauro Morandin  
On behalf of the International Scientific Committee

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