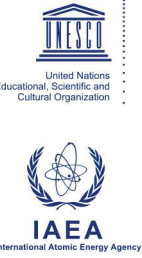




The Abdus Salam  
**International Centre  
for Theoretical Physics**

www.ictp.it



**Workshop on Advanced Techniques  
for Scientific Programming and Management  
of Open Source Software Packages  
(13 - 24 April 2015)**

followed by the

**MCnet School on Event Generators  
(27 - 30 April 2015)**

**Hosted in:  
ICTP-SAIFR - Sao Paulo, Brazil**

sponsored by:



The Hands-on Workshop on Advanced Techniques for Scientific Programming and Management of Open Source Software Packages (13 - 24 April) focuses on disseminating best practices and building fundamental skills in creating, extending and collaborating on modular and reusable software frameworks with a scripting language interface. The curriculum also covers using modern collaborative software management tools, testing frameworks, and embedding structured documentation into software packages.

The Monte Carlo School (27 - 30 April) provides a four day course of training in the physics and techniques used in modern Monte Carlo event generators via a series of lectures and practical sessions. The School is aimed at advanced doctoral students and young postdocs. The core sessions comprise: a series of introductory lectures on the physics of event generators; a series of hands-on tutorials using all of the MCnet event generators for LHC physics; and evening discussion sessions with Monte Carlo authors.

Both events will take place at the São Paulo Campus of the São Paulo State University (UNESP), in Brazil and will be sponsored by the Center for Scientific Computing (NCC/UNESP), International Centre for Theoretical Physics (ICTP, Trieste), ICTP South American Institute for Fundamental Research (ICTP-SAIFR), European Particle physics Latin American NETWORK (EPLANET), European Union Monte Carlo Network (MCnet), São Paulo Research and Analysis Center (SPRACE).

**PARTICIPATION**

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend. As it will be conducted in English, participants should have an adequate working knowledge of this language. **Other essential requirements are a strong knowledge of the Linux command line environment, as well as, a good knowledge of one of the following programming languages: FORTRAN, C or C++.**

Although the main purpose of the Centre is to help research workers from developing countries, through a programme of training activities within a framework of international cooperation, students and post-doctoral scientists from advanced countries are also welcome to attend. **For organizational reasons, there will be a "Limited Participation" for this event.**

As a rule, travel and subsistence expenses of the participants should be borne by the home institution. Every effort should be made by candidates to secure support for their fare (or at least half-fare). However, limited funds are available for some participants, selected by the Organizers, who are nationals of, and working in, a developing country, and who are not more than 45 years old. Such support is available only for those who attend the entire activity. There is no registration fee to be paid.

**HOW TO APPLY FOR PARTICIPATION:**

The application forms can be accessed at the activity website:

<http://indico.ictp.it/event/a14258/>

Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application forms.

**The application process also includes a brief questionnaire to be filled in and uploaded.  
Applications without the completed questionnaire will not be considered.**

**ICTP Trieste, Secretary: Ms. Doreen M. Sauleek (smr2763)**

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Trieste, November 2014

**International  
Advisory Committee:**

**Nathan Berkovits**  
(ICTP-SAIFR, Brazil)

**Ivan Girotto**  
(ICTP, Trieste, Italy)

**David Grellscheid**  
(IPPP, Durham University, UK)

**Axel Kohlmeyer**  
(Temple Univ, Philadelphia, USA)

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**Local  
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(NCC, Brazil)

**Rogério Iope**  
(NCC, Brazil)

**Beraldo Leal**  
(NCC, Brazil)

**Gabriel von Winckler**  
(NCC, Brazil)

**DEADLINE  
for requesting  
participation:  
15 January 2015**