



The Abdus Salam  
**International Centre  
for Theoretical Physics**  
50th Anniversary 1964–2014



# Advanced School and Workshop on L-functions and Modular Forms

**1 - 12 September 2014**

**Miramare, Trieste, Italy**

The Abdus Salam International Centre for Theoretical Physics (ICTP) is organizing an **Advanced School and Workshop on L-functions and Modular Forms**, which will be held at ICTP, Trieste, Italy, from **1 to 12 September 2014**.

This two-week activity consists of a school on aspects of computational algebra and number theory with an emphasis on modular forms and L-functions in the first week and a more focused workshop on the same theme in the second week. The school is intended for advanced graduate students and young researchers. During the school there will be lectures on both theoretical and computational aspects of algebra and number theory, including a general introduction to scientific computing. The afternoons will be devoted to concrete hands-on computational projects.

The workshop on the second week will also have a computational bent, being part of the research project LMF: L-functions and Modular Forms (a six year Programme Grant from EPSRC, grant reference EP/K034383/1). The High Performance Computing staff at ICTP will take part of the workshop with the goal of helping the interested participants make the jump from desktops to bigger machines.

## **PARTICIPATION**

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the School. As it will be conducted in English, participants should have an adequate working knowledge of that language. 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, a limited number of students and post-doctoral scientists from developed countries are also welcome to attend.

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. Priority for funding will be given to candidates who are nationals of, and working in, a developing country. There is no registration fee.

## **HOW TO APPLY FOR PARTICIPATION**

The application form can be accessed at the activity website <http://agenda.ictp.it/smr.php?2602>. Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form.

### **Activity Secretariat:**

*Petra Krizmancic*

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*Trieste, April 2014*

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### **DIRECTORS**

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### **LECTURERS**

**G. Tornaria** (Univ. Nac. del Uruguay)  
**V. Dokchister** (Univ. of Warwick)  
**A. Kohlmeyer** (ICTP)  
**M. Vlasenko** (Univ. College Dublin)  
**A. Mellit** (ICTP)

### **INVITED SPEAKERS**

**D. Roberts** (Univ. Minnesota, Morris)  
**H. Cohen** (Univ. De Bordeaux I)  
**J. Cremona** (Univ. of Warwick)  
**P. Molin** (Univ Paris, Diderot)  
**B. Allombert** (Univ. of Bordeaux I)  
**K. Kedlaya** (Univ. California, San Diego)  
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**D. Farmer** (Amer. Inst. of Math.)  
**M. H. Sengun** (Univ. of Warwick)  
**L. Dembele** (Univ. of Warwick)  
**A. El-Guindy** (Texas AM Qatar)  
**V. Golyshev** (IITP, Moscow)  
**S. Reiter** (Univ. of Bayreuth)

**DEADLINE**  
for requesting participation

**31 May 2014**