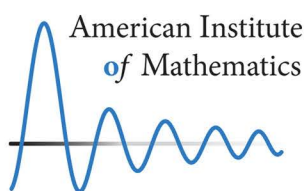




# The Abdus Salam International Centre for Theoretical Physics



## School and Workshop on Computational Algebra and Number Theory

**18 - 29 June 2012**

(Miramare - Trieste, Italy)

### TOPIC

The aim of the School and Workshop is to introduce the problems and methods of computational algebra and number theory. Recently, enormous progress has been made in this area, both as a consequence of the increased computing capabilities and the development of powerful algorithms and their associated mathematics. The workshop will focus on the interplay between high level theoretical mathematics and the challenges and successes of its computational counterpart.

During the second week of this activity, an AIM workshop, co-sponsored by the NSF and ICTP, will be held from June 25 - 29, 2012. This workshop entitled *Hypergeometric Motives* will be an intense and focused research activity centered around the L-functions that arise from hypergeometric data. The goal is to deepen the theoretical and computational understanding of these L-functions. More information can be found at:

<http://www.aimath.org/ARCC/workshops/hypermotives.html>

At the end of the first week, the organizers will invite some of the school participants to join the more focused AIM workshop. The school will continue into the second week, which may be more in the style of a conference.

### PARTICIPATION

Scientists from all countries that are members of the United Nations, UNESCO or IAEA may attend the Workshop. As the activity will be conducted in English, participants should have an adequate working knowledge of this language. There is no registration fee. Travel and subsistence expenses of participants should be borne by their home institutions. Limited funds are available for some participants who are nationals of, and working in, a developing country, to be selected by the Organizers. However, every effort should be made by candidates to secure at least partial support for their travel expenses.

### HOW TO APPLY

The online application form can be accessed on the activity's website:

[http://cdsagenda5.ictp.it/full\\_display.php?agenda\\_id=3604](http://cdsagenda5.ictp.it/full_display.php?agenda_id=3604)

Once in the website, comprehensive instructions will guide you step-by-step on how to fill out and submit the application form before the deadline of 28 February 2012.

### SECRETARIAT

E-mail: [smr2346@ictp.it](mailto:smr2346@ictp.it) Telephone: +39-040-2240555 Telefax: +39-040-224163

ICTP Home Page: <http://www.ictp.it>

### Directors

**Henri Cohen**

Université de Bordeaux I, France

**Fernando Rodriguez Villegas**

University of Texas at Austin, USA

**William Stein**

University of Washington, USA

**Gonzalo Tornaria**

Centro de Matemáticas, Universidad de la República, Uruguay

### Local Organizer

**Ramadas Ramakrishnan**

ICTP, Trieste, Italy

### Lecturers

*To be confirmed*

**Bill Allombert**

Université de Bordeaux I, France

**Karim Belabas**

Université de Bordeaux I, France

**Frits Beukers**

University of Utrecht, The Netherlands

**Philip Candelas**

University of Oxford, UK

**John Cremona**

University of Warwick, UK

**Xenia de la Ossa**

University of Oxford, UK

**Alicia Dickenstein**

Universidad de Buenos Aires, Argentina

**Tim Dokchister**

University of Bristol, UK

**Noam Elkies**

Harvard University, USA

**David Farmer**

American Institute of Mathematics

**Eduardo Friedman**

Departamento de Matemáticas, Universidad de Chile, Santiago, Chile

**Dick Gross**

University of Harvard, USA

**Maria Ines Icaza**

Universidad de Talca (UTAL), Talca, Chile

**Oslem Imamoglu**

ETH, Zurich, Switzerland

**Nick Katz**

Princeton University, USA

**Pascal Molin**

Université de Bordeaux I, France

**Ariel Pacetti**

Universidad de Buenos Aires, Argentina

**Diprenda Prasad**

Tata Institute, India

**Sujatha Ramdurai**

Tata Institute, India

**David Roberts**

University of Minnesota, Morris, USA

**Mike Rubinstein**

University of Waterloo, Canada

**Adriana Salerno**

Bates College, Maine, USA

**Mark Watkins**

University of Sydney, Australia

**Don Zagier**

MPI/Collège de France, Paris, France

### Deadline for applications

**28 February 2012**