The Abdus Salam International Centre for Theoretical Physics

School and Workshop on Computational Algebra and Number Theory

Organizer(s): H. Cohen, G. Tornaria, W. Stein, F. Rodriguez Villegas; Local Organiser: R. Ramakrishnan
Trieste - Italy, 18 - 29 June 2012

Final programme

Monday 18 June 2012 (Room:Adriatico Guest House Kastler Lecture Hall)

18 June 2012

08:30 - 09:30	(Room: Adriatico Guest House - Kastler Lecture Hall Area (Lower Level 1)) --- Registration --- All Directors, Speakers and Participants are required to complete the online registration formalities.
09:30 - 10:45	**Frits Beukers** / *University of Utrecht, Netherlands* **Algebra, differential equations**
10:45 - 11:15	(Room: Adriatico Guest House (Terrace)) --- Coffee Break ---
11:15 - 12:30	**Tim Dokchitser** / *University of Bristol, UK* **L-functions**
12:30 - 13:30	--- Lunch ---
13:30 - 14:45	**John Cremona** / *University of Warwick, Coventry, UK* **Computational number theory**
14:45 - 15:15	(Room: Adriatico Guest House (Terrace)) --- Coffee Break ---
15:15 - 16:30	**Henri Cohen** / *Universite Bordeaux 1, Talence, France* **Computational number theory**

17:00 - 18:30 **Problem Session**

Tuesday 19 June 2012 (Room:Adriatico Guest House Kastler Lecture Hall)

19 June 2012

09:00 - 10:15 **Alicia Dickenstein** / *Universidad de Buenos Aires, Argentina*
Algebra, differential equations

10:15 - 10:45 (Room: Adriatico Guest House (Terrace))
--- Coffee Break ---

10:45 - 12:00 **David Farmer** / *American Institute of Mathematics, USA*
L-functions

12:00 - 13:30 --- Lunch ---

13:30 - 14:45 **John Cremona** / *University of Warwick, Coventry, UK*
Computational number theory

14:45 - 15:15 (Room: Adriatico Guest House (Terrace))
--- Coffee Break ---

15:15 - 16:30 **Henri Cohen** / *Universite Bordeaux 1, Talence, France*
Computational number theory

17:00 - 18:30 **Problem Session**

19:00 - 21:00 (Room: Leonardo da Vinci Building Cafeteria)
--- Welcome Reception ---

Wednesday 20 June 2012 (Room:Adriatico Guest House Kastler Lecture Hall)

20 June 2012

09:00 - 10:15 **Frits Beukers** / *University of Utrecht, Netherlands*
Algebra, differential equations

10:15 - 10:45 (Room: Adriatico Guest House (Terrace))
--- Coffee Break ---

10:45 - 12:00 **Tim Dokchitser** / *University of Bristol, UK*
L-functions

12:00 - 13:30 --- Lunch ---

13:30 - 14:45 **John Cremona** / *University of Warwick, Coventry, UK*
Computational number theory

14:45 - 15:15 (Room: Adriatico Guest House (Terrace))
--- Coffee Break ---

15:15 - 16:30 **Henri Cohen** / *Universite Bordeaux 1, Talence, France*
Computational number theory

17:00 - 18:30 **Problem Session**

Thursday 21 June 2012 (Room:Adriatico Guest House Kastler Lecture Hall)

21 June 2012

09:00 - 10:15 **Alicia Dickenstein** / *Universidad de Buenos Aires, Argentina*
Algebra, differential equations

10:15 - 10:45 (Room: Adriatico Guest House (Terrace))
--- Coffee Break ---

10:45 - 12:00 **David Farmer** / *American Institute of Mathematics, USA*
L-functions

12:00 - 13:30 --- Lunch ---

13:30 - 14:45 **John Cremona** / *University of Warwick, Coventry, UK*
Computational number theory

14:45 - 15:15 (Room: Adriatico Guest House (Terrace))
--- Coffee Break ---

15:15 - 16:30 **Henri Cohen** / *Universite Bordeaux 1, Talence, France*
Computational number theory

16:30 - 18:00 **Problem Session**

Friday 22 June 2012 (Room:Adriatico Guest House Kastler Lecture Hall)

22 June 2012

09:00 - 10:15 **Frits Beukers** / *University of Utrecht, Netherlands*
Algebra, differential equations

10:15 - 10:45 (Room: Adriatico Guest House (Terrace))
--- Coffee Break ---

10:45 - 12:00 **Tim Dokchitser** / *University of Bristol, UK*
L-functions

12:00 - 13:30 --- Lunch ---

13:30 - 14:45 **Alicia Dickenstein** / *Universidad de Buenos Aires, Argentina*
Algebra, differential equations

14:45 - 15:15 (Room: Adriatico Guest House (Terrace))
--- Coffee Break ---

15:15 - 16:30 **Dipendra Prasad** / *Tata Institute of Fundamental Research, India*
Automorphic forms

17:00 - 19:00 **Participants' expositions**

Monday 25 June 2012 (Room:Adriatico Guest House Giambiagi Lecture Hall)

25 June 2012

09:00 - 10:00	**Fernando Rodriguez Villegas** / *University of Texas at Austin, USA* **AIM Conference on Hypergeometric motives - Part I**
10:15 - 10:45	--- Coffee Break ---
11:00 - 12:00	**Henri Cohen** / *Université Bordeaux 1, France* **AIM Conference on Hypergeometric motives - Part II**
12:00 - 13:30	--- Lunch ---
13:30 - 14:45	**Kamal Khuri-Makdisi** / *American University of Beirut, Lebanon* **Some classical calculations with 2_F-1's**
14:45 - 15:15	--- Coffee Break ---
16:00 - 18:00	**Problem Session** Get-Together Drink 5.15pm - Adriatico Terrace (weather permitting) 30'

Tuesday, 26 June 2012 (Room:Adriatico Guest House Giambiagi Lecture Hall)

09:00 - 10:00	**Dipendra Prasad** / *Tata Institute of Fundamental Research, India* **AIM Conference on hypergeometric motives - Remarks on automorphic L-functions**
10:15 - 10:45	--- Coffee Break ---
11:00 - 12:00	**Tim Dokchitser** / *University of Bristol, UK* **AIM Conference on hypergeometric motives - Frobenius elements in Galois groups**
12:00 - 13:30	--- Lunch ---
13:30 - 14:45	**Eduardo Friedman** / *Universidad de Chile* **Escher tilings and fundamental domains for number fields**
14:45 - 15:15	--- Coffee Break ---
16:00 - 18:00	**Problem Session**

Wednesday 27 June 2012 (Room:Adriatico Guest House Giambiagi Lecture Hall)

27 June 2012

09:00 - 10:00	**Kiran Kedlaya** / *MIT, USA* **AIM Conference on hypergeometric motives: de Rham cohomology and p-adic cohomology**
10:15 - 10:45	--- Coffee Break ---
11:00 - 12:00	**David Roberts** / *University of Minnesota Morris, USA* **AIM Conference on hypergeometric motives: hypergeometric motives and their reduction modulo ℓ**

12:00 - 13:30	--- Lunch ---
13:30 - 14:45	**Ariel Pacetti** / *Universidad de Buenos Aires, Argentina* **Congruence properties of eigenvalues**
14:45 - 15:15	--- Coffee Break ---

Thursday, 28 June 2012 (Room:Adriatico Guest House Giambiagi Lecture Hall)

09:00 - 10:00	**David Farmer** / *American Institute of Mathematics* **AIM Conference on hypergeometric motives: Extended progress report**
10:15 - 10:45	--- Coffee Break ---
11:00 - 12:00	**AIM Conference on hypergeometric motives: Participants' progress reports**
12:00 - 13:30	--- Lunch ---
13:30 - 14:45	**David Roberts** / *University of Minnesota Morris, USA* **The inverse Galois problem**
14:45 - 15:15	--- Coffee Break ---
16:00 - 18:00	**Problem Session**
18:00 - 19:00	(Room: Adriatico Guest House (Terrace)) --- Get-Together Drink 6.00pm ---

Friday 29 June 2012 (Room:Adriatico Guest House Giambiagi Lecture Hall)

29 June 2012

09:00 - 10:00	**Mark Watkins** / *University of Sydney, Australia* **AIM Conference on hypergeometric motives: Extended progress report**
10:15 - 11:00	--- Coffee Break ---
11:00 - 12:00	**AIM Conference on hypergeometric motives: Participants' progress reports**
12:00 - 13:30	--- Lunch ---
13:30 - 14:45	**Fredrik Stroemberg** / *Technische Universitaet Darmstadt, Germany* **Computational and theoretical aspects of modular forms**
14:45 - 15:15	--- Coffee Break ---
16:00 - 18:00	**Problem Session**