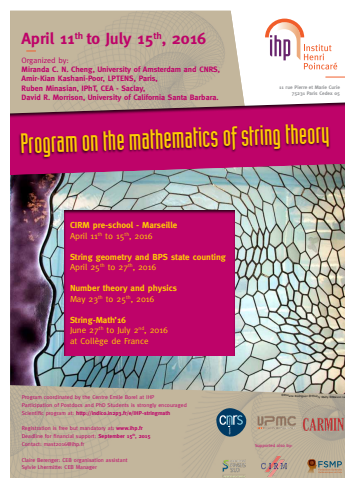


« Program on the mathematics of string theory »
Paris, April 11th – July 15th, 2016

Number Theory and Physics
Paris, May 23rd – May 25th, 2016

Amphitheater Hermite



Organizers :

Miranda Chih-Ning Cheng (Amsterdam University)
Amir-Kian Kashani-Poor (LPTENS)
Ruben Minasian (IPhT CEA-Saclay)
David Robert Morrison (UC Santa Barbara)

Speakers :

Sergei Alexandrov (Université de Montpellier)
Kathrin Bringmann (University of Cologne)
Thomas Creutzig (University of Alberta)
John Duncan (Emory University)
Terry Gannon (University of Alberta)
Valery Gritsenko (Université Lille and HSE)
Kazuhiro Hikami (Kyushu University)

Shamit Kachru (Stanford University)
Jan Manschot (Trinity College Dublin)
Sameer Murthy (King's College)
Daniel Persson (Chalmers Technological University)
Vasily Pestun (IHES)
Boris Pioline (Université Paris 6 and CERN)

Oliver Schlotterer (Max Planck Institute for Gravitational Physics)
Pierre Vanhove (CEA Saclay)
Martin Westerholt-Raum (Chalmers Technological University)
Don Zagier (Max Planck Institute Bonn and ICTP)

PROGRAM

Monday May 23rd

09.00 am – 09.30 am	Registration	IHP ground floor
09.30 am – 10.30 am	Terry Gannon	Modular forms and the search for exotic CFTs.
10.30 am – 11.00 am	Coffee break	IHP ground floor
11.00 am – 12.00 pm	Don Zagier	Knot invariants, Nahm sums, and units coming from algebraic K-theory.
12.00 pm – 01.30 pm	Lunch break	
01.30 pm – 02.30 pm	John Duncan	Optimal Mock Jacobi Forms.
02.30 pm – 03.30 pm	Daniel Persson	BPS-states and automorphic representations of exceptional groups.
03.30 pm – 04.00 pm	Coffee break	IHP ground floor
04.00 pm – 05.00 pm	Kazuhiro Hikami	Quantum modular form from knots and 3-manifolds.
05.00 pm – 06.00 pm	Thomas Creutzig	Modularity in Logarithmic conformal field theory.
06.30 pm – 09.00 pm	Cocktail Dinner Party	Pierre and Marie Curie University Zamansky Tower – 24th floor 4 place Jussieu – 75005 Paris Subway line 7 – Station : Jussieu Note : bring your ID card or Passport

Tuesday May 24th

09.30 am – 10.30 am	Boris Pioline	BPS amplitudes, theta lifts and the Kawazumi-Zhang invariant.
10.30 am – 11.00 am	Coffee break	IHP ground floor
11.00 am – 12.00 Pm	Valery Gritsenko	Kac-Moody algebras, Borcherds products and L-functions.
12.00 pm – 01.30 pm	Lunch break	
01.30 pm – 02.30 pm	Jan Manschot	Gauge theory and generalized Appell functions.
02.30 pm – 03.30 pm	Kathrin Bringmann	Regularized Petersson inner products.
03.30 pm – 04.00 pm	Coffee break	IHP ground floor
04.00 pm – 05.00 pm	Sergei Alexandrov	D-instantons, mock modular forms and BPS partition functions.
05.00 pm – 06.00 pm	Vasily Pestun	Quiver W-algebras.

Wednesday May 25th

09.30 am – 10.30 am	Martin Westerholt-Raum	Harmonic weak Siegel Maass forms.
10.30 am – 11.00 am	Coffee break	IHP ground floor
11.00 am – 12.00 am	Pierre Vanhove	Single Valued Elliptic Multizetas and String theory.
12.00 pm – 01.30 pm	Lunch break	
01.30 pm – 02.30 pm	Sameer Murthy	Single-centered black hole degeneracies from brane-instantons.
02.30 pm – 03.30 pm	Oliver Schlotterer	Elliptic multiple zeta values and superstring one-loop amplitudes.
03.30 pm – 04.00 pm	Coffee break	IHP ground floor
04.00 pm – 05.00 pm	Shamit Kachru	Arithmetic geometry of BPS states.

Abstracts are available on the website of the trimester « **Program on the mathematics of string theory** »: <https://indico.in2p3.fr/event/11584/page/3>



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