

Combinatorics and Arithmetic for Physics: special days

Amphithéâtre Léon Motchane

Mercredi 24 octobre 2018

- 9h30-10h00 *Café d'accueil*
- 10h00-10h50 **Richard KERNER** (LPTMC)
Quarks as a combinatorial puzzle: a new approach to quantum chromodynamics
- 10h50-11h10 *Café*
- 11h10-12h00 **Dmitry GUREVICH** (Université de Valenciennes)
Symmetric polynomials in quantum algebras
- 12h00-12h50 **Alin BOSTAN** (INRIA Saclay)
Transcendence in the enumeration of lattice walks
- 12h50-14h30 *Déjeuner Buffet – Temps libre*
- 14h30-15h20 **Marek BOZEJKO** (University of Wrocław)
Positive definite functions on permutations (Coxeter) groups with applications to generalized CCR-relations and operator spaces
- 15h20-15h40 *Café*
- 15h40-16h30 **Karol PENSON** (LPTMC & Paris 6)
Integer ratios of factorials as Hausdorff moments versus algebraicity
- 16h30-17h20 **Nicolas BEHR** (IRIF Université Paris Diderot)
Operational methods in the study of Sobolev-Jacobi polynomials

Jeudi 25 octobre 2018

- 9h30-10h00 *Café d'accueil*
- 10h00-10h50 **Gleb KOSHEVOY** (Poncelet Lab., Moscow)
Geometric Kashiwara star duality and DT transformations
- 10h50-11h10 *Café*
- 11h10-12h00 **Gérard DUCHAMP** (IHP & Paris 13)
Combinatorics of characters, Schützenberger's calculus and continuation of Li
- 12h00-12h50 **Hoang Ngoc MINH** (Lille 2 & LIPN)
A family of Eulerian functions involved in regularization of divergent polyzetas
- 12h50-14h00 *Déjeuner Buffet – Temps libre*
- 14h00-14h50 **Pierre VANHOVE** (CEA/Saclay)
Mirror symmetry and Feynman integrals
- 14h50-15h40 **Dimitri GRIGORYEV** (CNRS-Lille 1)
Tropical combinatorial Nullstellensatz and fewnomials
- 15h40-16h00 *Café*
- 16h00-16h50 **Natalia IYUDU** (University of Edinburgh & IHES)
Sklyanin algebras via Groebner bases and finiteness conditions for potential algebras
- 16h50-17h40 **Pierre CARTIER** (IHES)
TBA

LE BOIS-MARIE, 35, ROUTE DE CHARTRES, F-91440 BURES-SUR-YVETTE, FRANCE
téléphone : 01 60 92 66 00 • cour. élect. : cecile@ihes.fr • site internet : www.ihes.fr

RER ligne B, direction Saint-Rémy-lès-Chevreuse, arrêt Bures-sur-Yvette