Additive Combinatorics in Bordeaux

Monday, April 11, 2016 - Friday, April 15, 2016

Institut de Mathématiques de Bordeaux

Scientific Program

Confirmed talks.

Jorg Bruedern. *Differencing and expander estimates for cubes*

Harald Helfgott. *Soficity, short cycles and the Higman group*

Oriol Serra. *Doubling and Volume: A conjecture of Freiman* [slides]

Mokshay Madiman. *Entropy and the additive combinatorics of probability densities on locally compact abelian groups* [slides]

Van Vu. *Inverse Theorems in Probability* [slides]

Andrzej Zuk. *Marches aléatoires sur les groupes symétriques*

Eric Balandraud. *Applications of the combinatorial nullstellensatz to additive combinatorics* [slides]

Mohammad Bardestani. *Borel chromatic number of quadratic graphs*

Anne de Roton. *Small sumsets in* **R**

Georges Grekos. *Weighted exponential densities*

Gautier Hanna *On the method of Mauduit and Rivat*

Norbert Hegyvari. *Combinatorial approach of some ergodic and topological proofs* [slides]

François Hennecart. *Davenport and Gao constants for a weighted zero-sum problem with quadratic residues* [slides]

Sándor Kiss. *Partitions of the set of nonnegative integers with the same representation functions* [slides]

Jakub Konieczny. *Combinatorial properties of Nil-Bohr sets* [slides]

Patrizia Longobardi. *Dilates and Baumslag-Solitar groups* [slides]

Mercede Maj. *A Freiman theorem in torsion-free groups* [slides]

Mate Matolcsi. *Improved bounds for planar sets avoiding unit distances* [slides]

Rudi Mrazović. *Additive triples of bijections*

Péter Pál Pach. *On Multiplicative Bases and some Related Problems* [slides]

Sean Prendiville. *A Roth-type theorem in the squares*

Olivier Ramaré. *On the Brun-Titchmarsh inequality*

Misha Rudnev. *On discrete values of bilinear forms*

Wolfgang Schmid. *Weighted zero-sums and codes* [slides]

Ilya Shkredov. *A new bound for the size of weak Sidon sets*

Matthew Tointon. *Nilpotent approximate groups*

Salvatore Tringali. *Cauchy-Davenport type inequalities*

Lluis Vena. *Applications of the arithmetic removal lemma* [slides]

Aled Walker. *Generating $\mathbf{Z}/q\mathbf{Z}$ using primes*