Ramsey Theory in Logic, Combinatorics and Complexity
RaTLoCC 2018 - Scientific Program

July 15-20 2018

Bertinoro International Center for Informatics

All talks are 50 minutes

Monday 16

Morning

- 9:00 Neil Hindman *Combining extensions of the Hales-Jewett Theorem with Ramsey Theory in other structures*
- 10:00 Lorenzo Luperi Baglini *Partition regularity of nonlinear Diophantine equations*
- 11:00 Coffee Break
- 11:30 Timothy Trujillo *Hypernatural numbers in ultra-Ramsey theory*
- 12:30 Natasha Dobrinen *Ramsey theory of the universal triangle-free graph*

Afternoon

- 15:00 Jozef Skokan *The k-colour Ramsey number of odd cycles via non-linear optimisation*
- 16:00 Pandelis Dodos *An inverse theorem for stochastic processes indexed by the discrete hypercube*
- 17:00 Coffee Break
- 17:30 Damir Dzhafarov *Calling a few good combinatorialists*

Tuesday 17

Morning

- 9:00 Slawomir Solecki *Ramsey theory in algebraic topological language*
- 10:00 Marcin Sabok *The Hrushovski property for hypertournaments and profinite topologies*
- 11:00 Coffee Break
- 11:30 Lionel Nguyen Van Thé *Revisiting the Erdős-Rado canonical partition theorem*
- 12:30 Vladimir Kanovei *Canonization on product and iterated perfect and large perfect sets*

Afternoon

- 15:00 Carl Jockusch *The strength and effective content of some restricted forms of Hindman's Theorem*
- 16:00 Richard Shore *Producing Elementary Proofs from Ultrafilter Proofs of Combinatorial Theorems: The View from Combinatorics*
- 17:00 Coffee Break
- 17:30 Jeff Hirst *Hindmans theorem and ultrafilters*

Wednesday 18

Morning

- 9:00 Peter Cholak *Encodable by thin sets*
- 10:00 Vasco Brattka *Ramsey's Theorem in the Weihrauch Lattice*
- 11:00 Coffee Break
- 11:30 Leszek A. Kołodziejczyk *Ramsey for pairs and proof size*

Thursday 19

Morning

- 9:00 Jaroslav Nešetřil *Ramsey classes and beyond*
- 10:00 Jan Hubicka *On existence of Ramsey expansions*
- 11:00 Coffee Break
- 11:30 David Conlon *Ramsey complete sequences*
- 12:30 Aaron Roberston *Ramsey objects and Delaporte*

Afternoon

- 15:00 Anush Tserunyan *Independent sets in finite and algebraic hypergraphs*
- 16:00 Henry Towsner *Generalizing VC dimension to higher arity*
- 17:00 Coffee Break
- 17:30 Gabriel Conant *VC-dimension in groups*

Friday 20

Morning

- 9:00 Ilario Bonacina *Clique Is Hard on Average for Regular Resolution*
- 10:00 Iddo Tzameret *Linear algebra in weak formal theories of arithmetic*
- 11:00 Coffee Break
- 11:30 Bill Gasarch *The First Ramseyian Theorem and its Application: The Hilbert Cube Lemma and Hilbert's Irreducibility theorem*
- 12:30 Douglas Ulrich *Distinct Volume Subsets: The Uncountable Case*