

Monday, July 17

9:30-10:30 *Gödel and Computations*, Pavel Pudlak

10:30-11:00 Coffee

11:00-11:30 *Polynomial Identity Testing for Depth 3 Circuits*, Neeraj Kayal, Nitin Saxena

11:30-12:00 *Every Linear Threshold Function has a Low-Weight Approximator*, Rocco A. Servedio

12:00-14:00 Lunch

14:00-14:30 *Construction of Low-Degree and Error-Correcting ϵ -Biased Sets*, Amir Shpilka

14:30-15:00 *How to get more mileage from randomness extractors*, Ronen Shaltiel

15:00-15:30 *Exposure-Resilient Extractors*, Marius Zimand

15:30-16:00 Coffee

16:00-16:30 *Making Hard Problems Harder*, Joshua Buresh-Oppenheim, Rahul Santhanam

16:30-17:00 *Non-uniform Hardness for NP against Black-Box Samplers*, Albert Atserias

17:00-17:30 *On Arthur-Merlin Games and the Possibility of Basing Cryptography on NP-Hardness*, Rafael Pass

Tuesday, July 18

9:30-10:30 *Applications of the sum-product theorem in finite fields*, Avi Wigderson

10:30-11:00 Coffee

11:00-11:30 *Constructing Ramsey Graphs from Boolean Function Representations*, Parikshit Gopalan

- 11:30-12:00** *A Generic Time Hierarchy for Semantic Models with One Bit of Advice*, Dieter van Melkebeek, Konstantin Pervyshev
- 12:00-14:00** Lunch
- 14:00-14:30** *Hardness of the Covering Radius Problem on Lattices*, Ishay Haviv, Oded Regev
- 14:30-15:00** *A 3-Query Non-Adaptive PCP with Perfect Completeness*, Subhash Khot, Rishi Saket
- 15:00-15:30** *New lower bounds for Vertex Cover in the Lovasz-Schrijver hierarchy*, Iannis Tourlakis
- 15:30-16:00** Coffee
- 16:00-16:30** *FO[<]-Uniformity*, C. Behle, K.-J. Lange
- 16:30-17:00** *Circuit lower bounds via Ehrenfeucht-Fraïssé games*, Michal Koucky, Clemens Lautemann, Sebastian Poloczek, Denis Therien
- 17:00-17:30** *On Modular Counting with Polynomials*, Kristoffer Arnsfelt Hansen

Wednesday, July 19

- 9:30-10:00** *Learning Monotone Decision Trees in Polynomial Time*, Ryan O'Donnell, Rocco Servedio
- 10:00-10:30** *Optimal Hardness Results for Maximizing Agreements with Monomials*, Vitaly Feldman
- 10:30-11:00** Coffee
- 11:00-11:30** *Minimizing DNF formulas and AC_d^0 circuits given a truth table*, Eric Allender, Lisa Hellerstein, Paul McCabe, Toni Pitassi, Michael Saks
- 11:30-12:00** *A Duality Between Clause Width and Clause Density for SAT*, Chris Calabro, Russell Impagliazzo, Ramamohan Paturi
- 12:00-14:00** Lunch

14:00-14:30 *QMA/qpoly Is Contained In PSPACE/poly: De-Merlinizing Quantum Protocols*, Scott Aaronson

14:30-15:00 *Random Measurement Bases, Quantum State Distinction and Applications to the Hidden Subgroup Problem*, Pranab Sen

15:00-15:30 *Strengths and Weaknesses of Quantum Fingerprinting*, Dmitry Gavinsky, Julia Kempe, Ronald de Wolf

15:30-16:00 Coffee

16:00 onwards Excursion

Thursday, July 20

09:30-10:00 *Grid Graph Reachability Problems*, Eric Allender, David A. Mix Barrington, Tanmoy Chakraborty, Samir Datta, Sambuddha Roy

10:00-10:30 *An Isomorphism between Subexponential and Parameterized Complexity Theory*, Yijia Chen, Martin Grohe

10:30-11:00 Coffee

11:00-11:30 *On the Complexity of Numerical Analysis*, Eric Allender, Peter Brgisser, Johan Kjeldgaard-Pedersen, Peter Bro Miltersen

11:30-12:00 *Oracles Are Subtle But Not Malicious*, Scott Aaronson

12:00-12:30 *Derandomization of Probabilistic Auxiliary Pushdown Automata Classes*, H. Venkateswaran