

Tentative talk schedule  
=====

The regular sessions are from 09.00 till 12.00 and from 15.15 till 18.00. There is a cake at 15:00. Wednesday afternoon is reserved for a hike. The program ends Friday at noon.

Monday morning:

- 09.00: Welcome and introductions
- 09.45: Shubhangi Saraf  
Recent developments in arithmetic circuits
- 10.45: coffee break
- 11.15: Anup Rao  
Circuits with medium fan-in

Monday afternoon:

- 15.15: Oded Goldreich  
Boolean circuits of depth three and arithmetic circuits with  
Arbitrary gates
- 15.55: Swastik Kopparty  
Indexing irreducible polynomials over finite fields
- 16.35: break
- 16.50: Eric Allender  
Small circuits and big numbers; better bounds on computing the  
bits of arithmetic circuits
- 17.25: Kristoffer Arnsfelt Hansen  
Circuit complexity of properties of graphs with constant planar  
cutwidth

Tuesday morning:

- 09.00: Subhash Khot  
On the Unique Games Conjecture and the Approximation Resistance of Predicates
- 10.00: Prahladh Harsha  
Improved Inapproximability results for Hypergraph Coloring
- 10.40: coffee break
- 10.55: Johan Hastad  
( $2+\epsilon$ )-Sat is NP-hard
- 11.30: Valentine Kabanets  
Small de Morgan formulas make low-frequency sound: Fourier concentration from shrinkage

Tuesday afternoon:

- 15.15: Irit Dinur  
Direct product testing
- 15.50: Eli Ben-Sasson  
Constant rate PCPs with sublinear query complexity
- 16.15: break
- 16.25: Mike Saks  
Multiparty Number-On-Forehead protocols for composed functions
- 16.55: Thomas Thierauf  
Counting the Number of Perfect Matchings in  $K_5$ -free Graphs
- 17.25: Jaikumar Radhakrishnan  
Set membership with two bit probes

Wednesday morning:

- 09.00: Mark Braverman  
Recent progress on interactive error correction: an overview
- 10.00: Omri Weinstein  
An Interactive Information Odometer and Applications
- 10.40: coffee break
- 10.55: Pavel Pudlak  
Tree codes and triangular totally nonsingular matrices
- 11.25: Hartmut Klauck  
Two Results about Quantum Messages

Wednesday evening: 19.30: Rump session

Thursday morning:

- 09.00: Ankur Moitra  
Extended Formulations and Information Complexity
- 10.00: Amit Chakrabarti  
Arthur, Merlin, and Data Stream Computation
- 10.40: coffee break
- 10.50: David P. Woodruff  
Turnstile Streaming Algorithms Might as Well Be Linear Sketches
- 11.30: Amnon Ta-Shma  
A simple approach for construction of hitting set generators  
for low-degree multivariate polynomials based on AG codes

Thursday afternoon:

- 15.15: Ronen Shaltiel  
Pseudorandom generators with optimal seed length for non-boolean  
poly-size circuits
- 15.55: Amir Shpilka  
Testing Equivalence of Polynomials under Shifts
- 16.30: break
- 16.45: Amir Yehudayoff  
Growth rates of elementary symmetric polynomials
- 17.25: Matthias Krause  
On Ultralightweight Authentication

Friday morning:

- 09.00: Chris Umans  
Approaches to bounding the exponent of matrix multiplication
- 09.50: Till Tantau  
Fixed Parameter Parallelism
- 10.30: coffee break
- 10.45: Meena Mahajan  
Testing read-restricted formulas
- 11.15: Harry Buhrman  
Catalytic computation: Computing with full memory