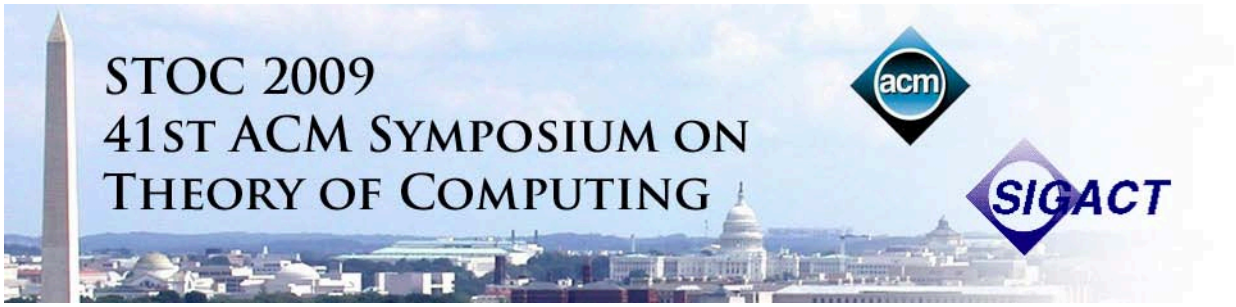

CONFERENCE INFORMATION

All events will take place in the **Hyatt Regency Bethesda**. The meeting rooms are located on the Ballroom Level of the Hotel (two levels below the main lobby). Coffee breaks and the continental breakfasts will be served in the **Ballroom Foyer**, on the Ballroom Level. The Cartier/Tiffany rooms will used as a breakout area.

REGISTRATION DESK

The registration desk will be in the **Haverford Foyer**, two levels below the main lobby. It will be open Saturday from 6:00pm-8:00pm and Sun-Tue from 7:30am-6:00pm.

INTERNET ACCESS

Wireless internet access will be available in the Cartier/Tiffany room, the Ballroom Foyer, and the Crystal Ballroom (all on the Ballroom Level). Information on accessing the wireless will be available at the registration desk.

LUNCHES

Due to space limitations, lunches will be split between two rooms. Attendees may go to either room.

- **Concours Terrace**, located one level above the main lobby in the center of the main atrium of the Hotel.
- **Diplomat/Ambassador rooms**, located on the Conference Level, one level above the ballroom.

CONFERENCE PROGRAM

Saturday, May 30	
9:00am-6:00pm	**Les Valiant 60th Birthday Celebration** (Embassy/Chesapeake Suites)
6:00pm-8:00pm	**— Registration and Welcome Reception —** (Registration: Haverford Foyer) (Reception: Concours Terrace)

Sunday, May 31		
7:30-8:30	**— Registration and Continental Breakfast —** (Ballroom Foyer)	
	Codes — Chair: Rocco Servedio (Haverford/Baccarat)	**Complexity I — Chair: Chris Umans** (Waterford/Lalique)
8:30-8:50	Message Passing Algorithms and Improved LP Decoding *Sanjeev Arora, Constantinos Daskalakis and David Steurer*	Exact Learning of Random DNF Formulas Under the Uniform Distribution **—** *Linda Sellie*
8:55-9:15	List Decoding Tensor Products and Interleaved codes *P. Gopalan, V. Guruswami and P. Raghavendra*	Polynomial-time Theory of Matrix Groups *László Babai, Robert M. Beals and Ákos Seress*
9:20-9:40	Artin Automorphisms, Cyclotomic Function Fields, and Folded List-decodable Codes **—** *Venkatesan Guruswami*	Affine Dispersers from Subspace Polynomials *Eli Ben-Sasson and Swastik Kopparty*
9:45-10:05	A Deterministic Reduction for the Gap Minimum Distance Problem *Qi Cheng and Daqing Wan*	On Oblivious PTAS for Nash Equilibrium *Constantinos Daskalakis and Christos H. Papadimitriou*
10:10-10:30	(Empty)	The Extended BG-Simulation and the Characterization of t-Resiliency *Eli Gafni*
10:30-11:00	**— Coffee break —**	
	Algorithms and Data Structures — Chair: Ravi Kumar (Haverford/Baccarat)	**Property Testing — Chair: Anup Rao** (Waterford/Lalique)
11:00-11:20	An Efficient Algorithm for Partial Order Production *J. Cardinal, S. Fiorini, G. Joret, R. M. Jungers and J. Ian Munro*	Direct Product Testing: Improved and Derandomized *Russell Impagliazzo, Valentine Kabanets and Avi Wigderson*
11:25-11:45	A Nearly Optimal Oracle for Avoiding Failed Vertices and Edges *Aaron Bernstein and David Karger*	On Proximity Oblivious Testing *Oded Goldreich and Dana Ron*
11:50-12:10	Distributed (Δ+1)-Coloring in Linear (in Δ) Time *Leonid Barenboim and Michael Elkin*	Testing Juntas Nearly Optimally *Eric Blais*
12:15-12:35	Near-Perfect Load Balancing by Randomized Rounding *Tobias Friedrich and Thomas Sauerwald*	Green's Conjecture and Testing Linear-Invariant Properties *Asaf Shapira*
12:40-2:10	**— Lunch —** (Concours Terrace and Diplomat/Ambassador)	
2:10-3:20	**Athena Lecture** **Shafi Goldwasser — Cryptography without (hardly any) Secrets?** Chair: Cynthia Dwork — (Haverford/Baccarat)	
3:20-3:50	**— Coffee break —**	
	Crypto I — Chair: Shafi Goldwasser (Haverford/Baccarat)	**Approximation Algorithms I — Chair: Nikhil Bansal** (Waterford/Lalique)
3:50-4:10	Fully Homomorphic Encryption Using Ideal Lattices *Craig Gentry*	Approximating Edit Distance in Near-Linear Time *Alexandr Andoni and Krzysztof Onak*
4:15-4:35	A Unified Framework for Concurrent Security: Universal Composability from Stand-alone Non-malleability *Huijia Lin, Rafael Pass and M. Venkitasubramaniam*	Numerical Linear Algebra in the Streaming Model *Kenneth L. Clarkson and David P. Woodruff*
4:40-5:00	Non-Malleability Amplification *Huijia Lin and Rafael Pass*	A Fast and Efficient Algorithm for Low-rank Approximation of a Matrix **—** *Nam H. Nguyen, Thong T. Do and Trac D. Tran*
5:05-5:25	3-Query Locally Decodable Codes of Subexponential Length *Klim Efremenko*	An Improved Constant-Time Approximation Algorithm for Maximum Matchings *Yuichi Yoshida, Masaki Yamamoto and Hiro Ito*
8:30-10:00	**— Business Meeting —** (Haverford/Baccarat)	

Monday, June 1		
7:30-8:45	**— Registration and Continental Breakfast —** (Ballroom Foyer)	
	Graph Cuts and Flows — Chair: Chris Umans (Haverford/Baccarat)	**Optimization — Chair: Rocco Servedio** (Waterford/Lalique)
8:45-9:05	Finding Sparse Cuts Locally Using Evolving Sets *Reid Andersen and Yuval Peres*	Integrality Gaps for Sherali-Adams Relaxations *Moses Charikar, Konstantin Makarychev and Yury Makarychev*
9:10-9:30	On the Geometry of Graphs with a Forbidden Minor *James R. Lee and Anastasios Sidiropoulos*	Sherali-Adams Relaxations of the Matching Polytope *Claire Mathieu and Alistair Sinclair*
9:35-9:55	Twice-Ramanujan Sparsifiers *Joshua D. Batson, Daniel A. Spielman and Nikhil Srivastava*	CSP Gaps and Reductions in the Lasserre Hierarchy *Madhur Tulsiani*
10:00-10:20	Max Cut and the Smallest Eigenvalue *Luca Trevisan*	Linear Time Approximation Schemes for the Gale-Berlekamp Game and Related Minimization Problems *Marek Karpinski and Warren Schudy*
10:25-10:45	Homology Flows, Cohomology Cuts *Erin W. Chambers, Jeff Erickson and Amir Nayyeri*	Non-monotone Submodular Maximization under Matroid and Knapsack Constraints — *Jon Lee, Vahab S. Mirrokni, Viswanath Nagarajan and Maxim Sviridenko*
10:45-11:15	**— Coffee break —**	
	Award Papers — Chair: Michael Mitzenmacher (Haverford/Baccarat)	
11:15-11:40	Public-Key Cryptosystems from the Worst-Case Shortest Vector Problem — *Chris Peikert*	
11:40-12:05	A Constructive Proof of the Lovász Local Lemma — *Robin A. Moser*	
12:05-1:30	**— Lunch —** (Concours Terrace and Diplomat/Ambassador)	
	Privacy — Chair: Ravi Kumar (Haverford/Baccarat)	**Quantum— Chair: Anup Rao** (Waterford/Lalique)
1:30-1:50	Universally Utility-Maximizing Privacy Mechanisms *Arpita Ghosh, Tim Roughgarden and Mukund Sundararajan*	Quantum Algorithms Using the Curvelet Transform *Yi-Kai Liu*
1:55-2:15	Private Coresets *Dan Feldman, Amos Fiat, Haim Kaplan and Kobbi Nissim*	Short Seed Extractors against Quantum Storage *Amnon Ta-Shma*
2:20-2:40	Differential Privacy and Robust Statistics *Cynthia Dwork and Jing Lei*	Efficient Discrete-time Simulations of Continuous-time Quantum Query Algorithms —*Richard Cleve, Daniel Gottesman, Michele Mosca, Rolando Somma and David Yonge-Mallo*
2:45-3:05	On the Complexity of Differentially Private Data Release *Cynthia Dwork, Moni Naor, Omer Reingold, Guy Rothblum and Salil Vadhan*	The Detectability Lemma and Quantum Gap Amplification *Dorit Aharonov, Itai Arad, Zeph Landau and Umesh Vazirani*
3:05-3:35	**— Coffee break —**	
	Graphs — Chair: Rasmus Pagh (Haverford/Baccarat)	**Complexity II — Chair: Jonathan Katz** (Waterford/Lalique)
3:35-3:55	Affiliation Networks *Silvio Lattanzi and D. Sivakumar*	On the Complexity of Communication Complexity *Eyal Kushilevitz and Enav Weinreb*
4:00-4:20	Fault-Tolerant Spanners for General Graphs *S. Chechik, M. Langberg, D. Peleg and L. Roditty*	Bit-Probe Lower Bounds for Succinct Data Structures *Emanuele Viola*
4:25-4:45	Hadwiger's Conjecture is Decidable *Ken-ichi Kawarabayashi and Bruce Reed*	Randomly Supported Independence and Resistance *Per Austrin and Johan Håstad*
4:50-5:10	Finding, Minimizing, and Counting Weighted Subgraphs *Virginia Vassilevska and Ryan Williams*	Conditional Hardness for Satisfiable-3CSPs *Ryan O'Donnell and Yi Wu*

Tuesday, June 2		
7:30-8:45	**— Registration and Continental Breakfast —** (Ballroom Foyer)	
	Economics — Chair: Nicole Immorlica (Haverford/Baccarat)	**Markov Chains — Chair: Michael Mitzenmacher** (Waterford/Lalique)
8:45-9:05	A New Approach to Auctions and Resilient Mechanism Design *Jing Chen and Silvio Micali*	How Long Does it Take to Catch a Wild Kangaroo? *Ravi Montenegro and Prasad Tetali*
9:10-9:30	Intrinsic Robustness of the Price of Anarchy *Tim Roughgarden*	Random Walks on Polytopes and an Affine Interior Point Method for Linear Programming *Ravi Kannan and Hariharan Narayanan*
9:35-9:55	On the Convergence of Regret Minimization Dynamics in Concave Games *Eyal Even-Dar, Yishay Mansour and Uri Nadav*	Mixing Time for the Solid-on-Solid Model *Fabio Martinelli and Alistair Sinclair*
10:00-10:20	Multiplicative Updates Outperform Generic No-regret Learning in Congestion Games *Robert Kleinberg, Georgios Piliouras and Eva Tardos*	Reconstruction for the Potts Model *Allan Sly*
10:25-10:45	MaxMin Allocation via Degree Lower-bounded Arborescences *MohammadHossein Bateni, Moses Charikar and Venkatesan Guruswami*	Tight Lower Bounds for Greedy Routing in Uniform Small World Rings *Martin Dietzfelbinger and Philipp Woelfel*
10:45-11:15	**— Coffee break —**	
	Crypto II — Chair: Jonathan Katz (Haverford/Baccarat)	**Geometry — Chair: Rasmus Pagh** (Waterford/Lalique)
11:15-11:35	Non-Malleable Extractors and Symmetric Key Cryptography from Weak Secrets *Yevgeniy Dodis and Daniel Wichs*	Every Planar Graph is the Intersection Graph of Segments in the Plane *Jeremie Chalopin and Daniel Goncalves*
11:40-12:00	Inaccessible Entropy *Iftach Haitner, Omer Reingold, Salil Vadhan and Hoeteck Wee*	Small-size ε-nets for Axis-Parallel Rectangles and Boxes *Boris Aronov, Esther Ezra and Micha Sharir*
12:05-12:25	On Cryptography with Auxiliary Input *Yevgeniy Dodis, Yael Tauman Kalai and Shachar Lovett*	Explicit Construction of a Small ε-net for Linear Threshold Functions *Yuval Rabani and Amir Shpilka*
12:30-2:00	**— Lunch —** (Concours Terrace and Diplomat/Ambassador)	
	Approximation Algorithms II — Chair: Michael Mitzenmacher (Haverford/Baccarat)	**Complexity III — Chair: Jonathan Kelner** (Waterford/Lalique)
2:00-2:20	A Constant-Factor Approximation for Stochastic Steiner Forest *Anupam Gupta and Amit Kumar*	An Axiomatic Approach to Algebrization *Russell Impagliazzo, Valentine Kabanets and Antonina Kolokolova*
2:25-2:45	Multiple Intents Re-Ranking *Yossi Azar, Iftah Gamzu and Xiaoxin Yin*	Random Graphs and the Parity Quantifier *Phokion Kolaitis, Swastik Kopparty*
2:50-3:10	A Competitive Algorithm for Minimizing Weighted Flow Time on Unrelated Machines with Speed Augmentation *Jivitej S. Chadha, Naveen Garg, Amit Kumar and V. N. Muralidhara*	Holant Problems and Counting CSP *Jin-Yi Cai, Pinyan Lu and Mingji Xia*
3:15-3:35	Online and Stochastic Survivable Network Design *Anupam Gupta, Ravishankar Krishnaswamy and R. Ravi*	A New Line of Attack on the Dichotomy Conjecture *Gabor Kun and Mario Szegedy*
3:35	**— Conference Ends —**	