

**TQC 2012 -Conference Program-**  
Koshiba Hall, The University of Tokyo, Tokyo, Japan

Thursday, May 17th

- 8:00 Registration  
9:00 **John Watrous** (Invited)  
*"Quantum interactive proofs and semidefinite programming"*  
9:50 Coffee Break  
10:20 **Jèrôme Javelle, Mehdi Mhalla and Simon Perdrix**  
*"New Protocols and Lower Bound for Quantum Secret Sharing with Graph States"*  
10:45 **Christopher Portmann**  
*"Key recycling in authentication"*  
11:10 **Iordanis Kerenidis and Shengyu Zhang**  
*"A quantum protocol for sampling correlated equilibria unconditionally and without a mediator"*  
11:35 **Niek Bouman, Serge Fehr, Carlos Gonzalez-Guillen and Christian Schaffner**  
*"An All-But-One Entropic Uncertainty Relation, and Application to Password-based Identification"*  
12:00 **Abel Molina, Thomas Vidick and John Watrous**  
*"Optimal counterfeiting attacks and generalizations for Wiesner's quantum money"*  
12:25 Lunch Break  
14:00 **Andris Ambainis** (Invited)  
*"Quantum lower bounds and group representation theory"*  
14:50 **Sergey Bravyi** (Invited)  
*"Ground state entanglement in frustration-free spin chains"*  
15:40 Coffee Break  
16:10 **Gilles Brassard and Marc Kaplan**  
*"Simulating equatorial measurements on GHZ states with finite expected communication cost"*  
16:35 **Bill Rosgen**  
*"Testing quantum circuits and detecting insecure encryption"*  
17:00 **Andris Ambainis, Nikolajs Nahimovs, Alexander Rivoosh and Arturs Backurs**  
*"Search by quantum walks on two-dimensional grid without amplitude amplification"*

Friday, May 18th

- 9:00 **Fernando Brandao** (Invited)  
*"Exponential Decay of Correlations Implies Area Law"*  
9:50 Coffee Break  
10:20 **Dax Koh, Michael Hall, Setiawan, James Pope, Artur Ekert, Alastair Kay and Valerio Scarani**  
*"The effects of free will on randomness expansion"*  
10:45 **Andre Chailloux, Eleni Diamanti, Iordanis Kerenidis, Anna Pappa and Stephanie Wehner**  
*"Verifying multipartite entanglement in the presence of dishonest parties"*  
11:10 **Jonathan Silman, Stefano Pironio and Serge Massar**  
*"Device-Independent Information Processing in the presence of Weak Cross-Talk"*  
11:35 **Erik Woodhead, Charles Ci Wen Lim and Stefano Pironio**  
*"Semi-device-independent QKD based on BB84 and a CHSH-type estimation"*  
12:00 **Smarajit Das, Naresh Sharma and Siddharth Muthukrishnan**  
*"On some special cases of the Entropy Photon-Number Inequality"*  
12:25 Group Photo, Lunch Break  
14:00 **Msanao Ozawa** (Invited)  
*"Universally valid reformulation of the uncertainty principle"*  
14:50 **Yuji Hasegawa** (Invited)  
*"Uncertain relation studied in neutron's successive spin-measurements"*  
15:40 Coffee Break, Rump Session, Poster Session  
18:30 Banquet

Saturday, May 19th

- 9:00 **Masato Hayashi** (Invited)  
*"Quantum security analysis via smoothing of Renyi entropy of order 2"*  
9:50 **Michael Wolf** (Invited)  
*"Partial quantum information"*  
10:40 Coffee Break  
10:20 **Giulio Chiribella**  
*"Parallelization and factorization theorems in Quantum Metrology"*  
10:45 **Robin Blume-Kohout, Sarah Croke and Michael Zwolak**  
*"Ideal state discrimination with an  $O(1)$ -qubit quantum computer"*  
11:10 **Iman Marvian and Robert Spekkens**  
*"Applying a generalization of Schur-Weyl duality to problems in quantum information and estimation"*  
11:35 Closing