Schedule

Thursday, October 1, 2009

8-8:30	Registration
8:30-8:45	Welcoming remarks
8:45-10:00	Sam Lomonaco, University of Maryland *An Intuitive Overview of the Theory of Quantum Knots*
10:00-10:15	Coffee Break
10:15-11:30	Howard Brandt, Army Research Laboratory *Quantum Computational Curvature and Jacobi Fields*
11:30-1:00	Lunch
1:00-2:15	Paul Benioff, Argonne National Laboratory *A Possible Approach to Inclusion of Space and Time in Frame Fields of Quantum Representations of Real and Complex Numbers*
2:15-2:30	Break
2:30-3:45	David Radford University of Illinois, Chicago *Invariants of Knots and Links Arising from Finite-Dimensional Algebras*

Friday, October 2, 2009

9:00-10:15	Samson Abramsky, Oxford University Computing Laboratory *Representing Physical Systems as Chu Spaces*
10:15-10:30	Coffee Break
10:30-11:45	Yong Shi Wu, University of Utah *Entangling Power of Braiding Quantum Gates*
11:45-1:15	Lunch
1:15-2:30	Bob Coecke, Oxford University Computing Laboratory *Depicting non-locality*
2:30-2:45	Break
2:45-4:00	John Myer, Harvard University *Adventures in Entanglement*

Saturday, October 3, 2009

9:00-10:15	Robert Bonneau, Air Force Office of Scientific Research *Adaptive Coherence Conditioning*
10:15-10:30	Coffee Break
10:30-11:45	Sergey Bravyi, IBM *Perturbative expansions based on the Schrieffer-Wolff transformation*
11:45-1:15	Lunch
1:15-2:30	Denis Ilyutko, Moscow State University *Free Knots: Parity and Cobordisms*
2:30-2:45	Break
2:45-4:00	Vladimir Korepin, Stony Brook University *Spectrum of the density matrix*
4:00-4:15	Break
4:15-5:30	Louis Kauffman, University of Illinois, Chicago *Topological Quantum Information Theory*

Sunday, October 4, 2009

8:00-9:15	Goong Chen, Texas A&M University *A Unified Treatment for the Universality of Quantum Gates for Various Quantum Computing Gates*
9:15-9:30	Coffee Break
9:30-10:45	Eric Rowell, Texas A&M University *Classifying Modular Categories*
11:00 -??	Lunch