SCHEDULE for Knots in Washington XXXV Friday, December 7, 2012

Talks take place in the basement (room **B156**) of the **Phillips Hall**, 801 22st St. (corner with I St.) NW, Washington, DC

1:00 – 1:05	**Opening remarks**	
1:05 – 1:55	**Colloquium Talk by Paul Melvin** (Bryn Mawr College), **A Knotty Bucket List**	
1:55 – 2:10	**Coffee break**	
2:10 – 2:35	Eugene Gorsky	On stable Khovanov homology of torus knots
2:45 – 3:10	Carmen Caprau	Foams and $sl(n)$ tangle cohomology
3:20 – 3:45	Dionne Ibarra	A state model for the $SO(2n)$ Kauffman polynomial
3:45 – 4:05	**Coffee break**	
4:05 – 4:30	Stephan Wehrli	A symmetric group action on the Khovanov homology of cables
4:40 – 5:05	Cotton Seed	A New Spectral Sequence in Khovanov Homology
5:15 – 5:40	Thomas Jaeger	The characteristic-2 Rasmussen invariant and mutation
5:40 – 5:55	**Coffee break**	
5:55 – 6:45	**Victoria Lebed** (Université Paris 7, IMJ), **Chevalley-Eilenberg and quandle homologies are braided homologies**	
6:50 – 7:15	Alexander Zupan	The (g, b)-decompositions of iterated torus knots

SCHEDULE for Knots in Washington XXXV Saturday, December 8, 2012

Talks take place on the 3rd floor of the **Media & Public Affairs Building**, 805 21st St. (corner with H St.) NW, Washington, DC

9:30 – 10:00	**Breakfast**			
	Session 1 (room 310)		**Session 2 (room 309)**	
10:00 – 10:25	Shane D'Mello	Classification of Rational Knots of Low Degree in the 3-Sphere	Witold Rosicki	Quandle Cocycle Invariant for Knotted 3-Manifolds in 5-Space
10:35 – 11:00	Mark Hughes	Alexander and Markov type theorems for link cobordisms	Sam Nelson	Quantum Enhancements
11:10 – 11:35	Eleanor Abernthy	Milnor Invariants and Gauss Diagram Formulas	Mietek Dabkowski	Invariants of 4-move
11:45 – 12:35	**Robert Todd** (Univ. of Nebraska at Omaha), **4-moves and the Dabkowski-Sahi invariant of knots (room 310)**			
12:35 – 2:00	**Pizza Lunch, to be provided by the organizers**			
2:00 – 2:25	**Jessica Purcell** (Brigham Young University) **State surfaces in knot complements**		Kai Maeda	Non-associative structures and their computability theoretic complexity
2:30 – 2:55			Rumen Dimitrov	Algorithmic Content and Structure in Effective Vector Spaces
3:05 – 3:30	Effie Kalfagianni	The geometry of state surfaces and the colored Jones polynomials	Sebastian Wyman	Symbolic dynamics in the arithmetic hierarchy
3:30 – 3:50	**Coffee break**			
3:50 – 4:15	Anastasiia Tsvietkova	Exact volume of hyperbolic 2-bridge links	Masahico Saito	Genus ranges of 4-regular rigid vertex graphs
4:25 – 4:50	Christian Millichap	How many hyperbolic 3-manifolds can have the same volume?	Shin Satoh	The pallet graph of a Fox coloring
5:00 – 5:25	Cheryl Balm	Generalized crossing changes in satellite knots	Ayumu Inoue	Quasi-triviality of quandles for link-homotopy
5:25 – 5:45	**Coffee break**			
5:45 – 6:10	Jessica Banks	The Kakimizu complex of a link	Yuka Kotorii	On cyclic equivalence classes of nanowords and finite type invariants
6:20 – 6:45	Ryan Blair	Exceptional Surgery and Bridge Distance	Michal Jablonowski	On a monoid associated to knotted surfaces in special form
8:00	**Small party at Jozef's house**			

SCHEDULE for Knots in Washington XXXV Sunday, December 9, 2012

Talks take place on the 3rd floor of the **Media & Public Affairs Building**, 805 21st St. (corner with H St.) NW, Washington, DC

9:30 – 10:00	**Breakfast**			
	Session 1 (room 310)		**Session 2 (room 309)**	
10:00 – 10:50	**Seiichi Kamada** (Hiroshima University) **Branched coverings and braided manifolds of low dimensions**		**Chi-Kwong Li** (College of William and Mary) **Maps on quantum states**	
11:00 – 11:25	J. Scott Carter	Reidemeister/Roseman-type Moves to Embedded Foams in 4-dimensional Space	Viswanath Ramakrishna	Quantum Dots, Squids, Cavity QED — A unified approach vie Lie theory
11:35 – 12:00	Seung Yeop Yang	Is a 1-twist spin of a knotted trivalent graph unknotted?	Matthew Titsworth	String-Net Condensation and its Application to Quantum Computing
12:10 – 12:35	M. Niebrzydowski	Knots, categories, and dynamics	Noboru Ito	Khovanov homology and Kirby moves
12:40 – 1:05	Tatsuya Tsukamoto	Simple ribbon fusions and genera of links	Jenny George	TQFTs from Quasi-Hopf Algebras and Group Cocycles
1:05 – 2:00	**Pizza Lunch, to be provided by the organizers**			
2:00 – 2:50	**Crystal Senko** (Joint Quantum Institute, University of Maryland) **Quantum Computation and Quantum Simulation Experiments with Trapped Ions (room 310)** (Joint talk with the **Quantum Computing Seminar**)			
2:50 – 3:10	**Coffee break**			
	Session 1 (room 310)		**Session 2 (room 309)**	
3:10 – 3:40	Tobias Hagge	Projective Geometry and Quantum Logic		
3:50 – 4:40	A. Nait Abdallah	Single photon self-interference as additive Curry-Howard correspondence		