

KNOTS IN WASHINGTON XXXIII
PRELIMINARY SCHEDULE

Friday December 2, 2011

**Rome Hall Room 352
801 22nd Street**

12:45 – 1:00	Coffee and refreshments	
1:00 – 1:50	Adam Levine (Brandeis)	GW Colloquium Combinatorial Spanning Tree Models for Knot Homologies
2:00 – 2:25	Andrew Manion (Princeton)	Signs in totally twisted Khovanov homology
2:25 – 2:50	Coffee break	
2:50 – 3:40	Stephan Wehrli (Syracuse)	Khovanov's diagram algebras and bordered Floer homology
3:40 – 4:00	Coffee break	
4:00 – 4:25	Andrew Lobb (Durham)	2-strand twisting in Khovanov-Rozansky homology
4:35 – 5:00	Hao Wu (GWU)	The $sl(N)$ Rasmussen invariants of $(2, 2k+1)$ cable knots
5:15 – 5:35	Coffee break	
5:35 – 6:00	Cotton Seed (Princeton)	Computations of Szabo's geometric spectral sequence in Khovanov homology
6:10 – 6:35	Matthew Graham (Brandeis)	Grid Movie Moves and Combinatorial Knot Floer Homology
6:45 – 7:10	Asa Levi (Dartmouth C)	Vassiliev Invariants of Virtual Framed and Virtual Legendrian Knots

Saturday December 3, 2011 Rome Hall Room 459

9:30 – 10:00	Coffee and refreshments	
10:00 – 10:50	Vladimir Baranovsky (UC Irvine)	Graph homology and configuration spaces
10:50 – 11:05	Coffee break	
11:05 – 11:30	Cheryl Balm (MSU)	Cosmetic crossings and genus-one knots
11:40 – 12:05	Akira Yasuhara (Tokyo Gakugei U.)	Milnor invariants and the HOMFLYPT polynomial
12:15–12:40	Masahico Saito	DNA Recombination Model via Spatial Graphs with 4-Rigid Vertices
12:40 – 2:00	Pizza provided by organizers	
2:00 – 2:40	Alissa Crans (Loyola Marymount U.)	A Survey of Quandle Theory
2:50 – 3:15	Scott Carter (U. of South Alabama)	Introducing knotted n -foams and how to construct invariants thereof
3:15 – 3:40	Coffee break	
3:40 – 4:05	Sam Nelson (CMC)	Virtual Shadow Modules and their Link Invariants
4:15–4:40	Mohamed Elhamdadi (USF)	Galkin quandles and colorings of knots
4:50–5:15	Krzysztof Putyra (Columbia U.)	Mayer-Vietoris sequence for multispindles
5:15 – 5:35	Coffee break	
5:35–6:00	Cody Armond (LSU)	The Head and Tail of the Colored Jones Polynomial
6:10 – 6:35	Michael Brandenbursky (Vanderbilt U.)	3-variable Laurent polynomial invariant of braids
6:45 – 7:10	Patricia Cahn (Dartmouth C.)	The Andersen-Mattes-Reshetikhin Bracket Counts Intersections
8:00	Small party at Józef's house	

Sunday December 4, 2011

Rome Hall Room 459
801 22nd Street

9:30 – 10:00	Coffee and refreshments	
10:00 – 10:50	Tian Yang (Rutgers)	The Skein Algebra of Punctured Surfaces
10:50 – 11:05	Coffee break	
11:05 – 11:30	Adam Lowrance (U Iowa)	An odd categorification of the Tutte polynomial
11:40 – 12:05	Alexander Zupan (U Iowa)	Pants distance, twist number, and volume of hyperbolic 2-bridge knots
12:15 – 12:40	Anastasiia Tsvietkova (U of Tennessee)	An alternative approach to hyperbolic structures on link complements
12:40 – 2:00	Pizza provided by organizers	
2:00–2:50	Jerzy Kocik (SIU)	The magic behind quantum computing: Chapter $\sqrt{-1}$
2:50 – 3:10	Coffee break	
3:10 – 3:40	Omar Shehab (UMBC)	Grid2Mosaic2Grid: A Complete Pair of Polynomial Knot Algorithms
3:50 – 4:20	William De la Cruz (Cinvestav-IPN)	On the Construction of Hamiltonian Operators for Adiabatic Quantum Computation
4:30 – 5:00	Jonathan Mizrahi (UMD)	Ultrafast Gates for Trapped Ion Quantum Computing