

# KNOTS IN WASHINGTON XXIX SCHEDULE

**Friday December 4, 2009**  
(1957 E St. room 214)

<b>12:45 – 1:00</b>	<b>Coffee and refreshements</b>	
<b>1:00 – 1:10</b>	<b>Opening remarks by Dr. Leo Chalupa, Vice President for Research</b>	
<b>1:10 – 2:10</b>	Mikhail Khovanov	Adventures in categorification
<b>2:10 – 2:30</b>	<b>Coffee break</b>	
<b>2:30 – 2:55</b>	Daniel Krasner	Graphical calculus of Soergel bimodules in Khovanov-Rozansky link homology
<b>3:10 – 3:35</b>	Ina Petkova	Cables of thin knots and bordered Heegaard Floer homology
<b>3:35 – 4:00</b>	<b>Coffee break</b>	
<b>4:00 – 4:50</b>	Thang Le	Integrality of the Witten-Reshetikhin-Turaev 3-manifold invariant
<b>5:05 – 5:30</b>	Dwayne Chambers	Topological Symmetry Groups of the Complete Graphs $K_{4q+3}$
<b>5:40 – 6:05</b>	Hao Wu	A colored $\mathfrak{sl}(N)$ -homology for links in $S^3$

**Saturday, December 5, 2009**

**Rome Hall  
801 22nd Street Room 459**

<b>10:00 – 10:30</b>	<b>Breakfast</b>	
<b>10:30 – 11:20</b>	Scott Carter, Masahico Saito	Quandle homology and applications - An overview
<b>11:20 – 11:40</b>	<b>Coffee break</b>	
<b>11:40 – 12:05</b>	Sam Nelson	Rack shadows and their invariants
<b>12:15 – 12:40</b>	Masahico Saito	Algebraic Structures Derived from Foams and TQFTs
<b>12:40 – 2:00</b>	<b>Pizza, provided by the organizers</b>	
<b>2:00 – 2:50</b>	<b>Talk on Quantum Computing and Knots</b> Samuel Lomonaco Quantum Knots and Lattices	
<b>2:50 – 3:10</b>	<b>Coffee break</b>	
<b>3:10 – 3:35</b>	Scott Carter	Categorification of Quandles: Strict 2-Quandles
<b>3:45 – 4:10</b>	Sergei Chmutov	Linking numbers and the Conway polynomial of virtual links
<b>4:10 – 4:25</b>	<b>Coffee break</b>	
<b>4:25 – 4:50</b>	Patricia Cahn	A Generalization of the Turaev Cobracket and the Minimal Self-Intersection Number of a Curve on a Surface
<b>5:00 – 5:25</b>	Jozef Przytycki	The second quandle homology of Takasaki keis (quandles)
<b>5:25 – 5:35</b>	<b>Coffee break</b>	
<b>5:35– 6:00</b>	Hao Wu	New developments following my talk and M. Khovanov's comments
<b>7:00</b>	<b>Small party</b>	

Sunday, December 6, 2009

Rome Hall  
801 22nd Street Room 459

10:00 – 10:30	<b>Breakfast</b>	
10:30 – 11:10	Aaron Lauda	A categorification of quantum $\mathfrak{sl}(2)$
11:10 – 11:20	<b>Coffee break</b>	
11:20 – 12:00	Mikhail Khovanov	Categorification of quantum groups
12:05– 12:30	Alexander Shumakovitch	Homologically $\mathbb{Z}_2$ -thin knots have no 4-torsion in Khovanov homology.
12:30 – 2:00	<b>Pizza, provided by the organizers</b>	
2:00 – 2:50	Jonathan Bloom	Odd Khovanov homology, mutation, and branched double covers
3:00–3:25	Adam Levine	Slicing Mixed Bing-Whitehead Doubles and Bordered Heegaard Floer Homology
3:25–3:45	<b>Coffee break</b>	
3:45 – 4:10	Paul C. Kainen	Crossing-free matchings in regular outerplane drawings
4:20 – 4:45	Dragomir Sarić	Circle homeomorphisms and shears
4:55 – 5:20	Radmila Sazdanović	SLarc algebra and what it categorifies