

Knots in Washington 52 December 5-7, 2025

In Memory of Gerhard Burde, Andrew Casson, and Bruno Zimmerman

Friday December 5 – Phillips B156

TIME	TALK TITLE	SPEAKER	Remarks
2:30 – 3:00	Coffee and snacks		
3:00 – 3:05	Opening remarks	Jozef H. Przytycki (George Washington University)	
3:05 – 3:55	Diagrammatics for the Delannoy Category	Mikhail Khovanov (Johns Hopkins University)	Also University Seminar
3:55 – 4:15	Coffee Break		
4:15 – 4:35	Central Elements in the $Sp(2n)$ Skein Algebra	Haihan Wu (Johns Hopkins University)	
4:35 – 4:45	Coffee Break		
4:45 – 5:25	TBA	Amber Liu (UMD–College Park)	Distinguished Graduate Student
5:25 – 5:40	Coffee Break (and 1st conference Picture)		
5:40 – 6:00	Nilpotency for Quiver Representations	Nicolas Rugo (Johns Hopkins University)	
6:00 – 6:10	Coffee Break		
6:10 – 6:30	TBA	Weixi Chen (Johns Hopkins University)	
6:30 – 6:40	Coffee Break		
6:40 – 7:00	TBA	Catie Lillja (Johns Hopkins University)	
7:00 – 7:10	Coffee Break		
7:10 – 7:30	Parabolic Induction for Springer Fibers of Type C	Mee Seong Im (Johns Hopkins University)	

Saturday December 6 – Phillips 108

TIME	TALK TITLE	SPEAKER	Remarks
9:30 – 10:00	<i>Breakfast</i>		
10:00 – 10:50	Diagrammatics for the Delannoy Category (continued)	Mikhail Khovanov (Johns Hopkins University)	
10:50 – 11:10	<i>Coffee Break</i>		
11:10 - 11:30	Biquandle Arrow Weight Quivers	Migiwa Sakurai (Shibaura Institute of Technology)	
11:30 – 11:40	<i>Coffee Break</i>		
11:40 – 12:30	Causality in Generalized Spacetimes and Conjectures on Virtual Legendrian Knots	Vladimir Chernov (Dartmouth College)	
12:30 - 2:00	LUNCH - Pizza Provided		
2:00 - 2:50	On the compactness problems in generalized Seiberg-Witten theory	Boyu Zhang (UMD-College Park)	
2:50 – 3:10	<i>Coffee Break (and 2nd conference photo)</i>		
3:10 – 3:30	Alexander and Jones-type Properties of the Links-Gould Invariant of Links	Ben-Michael Kohli (Université de Genève)	
3:30 – 3:40	<i>Coffee Break</i>		
3:40 – 4:30	The Topological Structure of Quantum Entanglement	Sam Lomonaco (UMD-Baltimore County)	
4:30 – 4:50	<i>Coffee Break</i>		
4:50 – 5:10	Framed Legendrian Link Invariants via Legendrian Ribbon Categories	Matthew Barber (University of Iowa)	
5:10 – 5:20	<i>Coffee Break</i>		
5:20 – 5:40	Representing knotted surfaces in 4-space with three braid words	Puttipong Pontanapaisan (Pitzer College)	
5:40 – 5:50	<i>Coffee Break</i>		

5:50 – 6:30	On the Isotopic Classes of Surfaces Embedded in 5-Manifold	Ruoyu Qiao (UMD–College Park)	Distinguished Graduate Student
~7:30 –	Conference Party!		Józef's house

Sunday December 7 – Phillips 108

TIME	TALK TITLE	SPEAKER	Remarks
9:30 – 10:00	<i>Breakfast</i>		
10:00 – 10:50	On the Homological Approach in Burau Representation of Braid Group	Anzor Beridze (BSU and TSU)	
10:50 – 11:10	<i>Coffee Break</i>		
11:10 – 11:30	On Geometric Realizations of the Extreme Khovanov Homology of 2-Bridge Links	Jinseok Oh (Kyungpook National University)	
11:30 – 11:40	<i>Coffee Break</i>		
11:40 – 12:00	Kálmán–Serre Duality as a Homotopy Equivalence of Varieties	Minh-Tam Trinh (Howard University)	
12:00-12:10	<i>Coffee Break</i>		
12:10-12:30	Invariance Results for Bol-Moufang Quasigroup Homology	Anthony Christiana (GWU)	
12:30 – 1:30	LUNCH - Pizza Provided		
1:30 – 2:20	Unknotting Spatial graphs, Knots, and DNA	Danielle O'Donnol (Marymount University)	
2:20 – 2:40	<i>Coffee Break</i>		
2:40 – 3:30	Categorification of Chromatic, Dichromatic and Penrose Polynomials	Louis H. Kauffman (UIC & SKCM²)	Zoom