Knots in Washington 50 Dec 6-8, 2024

Friday Dec 6 Phillips Hall B152

TIME	TALK TITLE	SPEAKER	Remarks
1:00 - 1:10	Opening remarks – 30 years of Knots in Washington (1995-2024)	Jozef H. Przytycki (GWU)	
1:10 - 2:00	Negative band number of knots and links	Keiko Kawamuro (University of Iowa)	Plenary Talk
2:00 - 2:20	<i>Coffee Break (first conference picture)</i>		
2:20 - 2:40	Open problems in skein lasagna modules	Rhea Palak-Bakshi (University of California Santa Barbara)	
2:40 - 2:50	Coffee Break		
2:50 - 3:10	On light bulb smoothing of surfaces in 4-manifolds	Byeorhi Kim (Pohang University of Science and Technology)	
3:10 - 3:20	Coffee Break		
3:20 - 3:40	Braid index and Ropelength of alternating knots	Yuanan Diao (The University of North Carolina at Charlotte)	
3:40 - 3:50	Coffee Break		
3:50 - 4:10	On Goldberg's theorem for braid groups of non-manifolds	Byunghee An (Kyungpook National University)	
4:10 - 4:20	Coffee Break		
4:20 - 4:40	Quandle coloring quivers of general Torus links by dihedral quandles	Brooke Jones (University of South Florida)	
4:40 - 4:50	Coffee Break		
4:50 - 5:10	Branched twist spins and orbifold fundamental groups	Mizuki Fukuda (Tohoku University/MathAM-OIL)	
5:10 - 5:30	Coffee Break		
5:30 - 6:20	On Skein Modules of Rational Homology Spheres	Adam Sikora (University at Buffalo)	Plenary Talk
6:20 - 6:40	Coffee Break		
6:40 - 7:00	On set-theoretic Yang-Baxter homology of finite biquandles	Seung Yeop Yang (Kyungpook National University)	

Saturday Dec 7 Phillips Hall (B152 or B156)

TIME	TALK TITLE	SPEAKER	Remarks
9:30 - 10:00	Breakfast		
10:00 - 10:50	Cohomological meaning of entropy and its diagrammatics	Mikhail Khovanov (Johns Hopkins University)	Plenary Talk B152
10:50 - 11:10	Coffee Break		
11:10 - 11:30	Sah-Arnoux-Fathi invariants and foam cobordisms	Mee Seong Im (Johns Hopkins University)	B152
	The Tanglenomicon: tabulation of two string tangles	Joe Starr (University of Iowa)	B156
11:30 - 11:40	Coffee Break		
11:40 - 12:00	Heegaard Diagrams for 5-manifolds	Geunyoung Kim (McMaster University)	B152
	Domination in Graphs	Kiran Bhutani (Catholic University)	B156
12:00 - 12:10	Coffee Break		
12:10 - 12:30	Folding Branched coverings	Scott Carter (University of South Alabama)	B152
	The Correlation Between Shapes	Lien-Yung Kao (George Washington University)	B156
12:30 - 12:40	Coffee Break		
12:40 - 1:00	The Strongest Genuinely Computable Knot Invariant in 2024	Dror Bar-Natan (University of Toronto)	B152
1:00 - 2:10	LUNCH - Pizza Provided		
2:10 - 3:00	A higher order torsion linking form for 3-manifolds	Slava Krushkal (University of Virginia)	Plenary Talk B152
3:00 - 3:20	Coffee Break		

3:20 - 4:00	Half grid diagrams and Thompson links	Yangxiao Luo (University of Virginia)	Distinguished Graduate Speaker B152
4:00 - 4:20	Coffee Break		
4:20 - 4:40	Quiver presentations for Khovanov arc algebras	Rob Muth (Duquesne University)	B152
	ТВА	Fan Zhou (Columbia University)	B156
4:40 - 4:50	Coffee Break		
4:50 - 5:10	A study of clasp pass moves and arrow polynomials of virtual knots	Migiwa Sakurai (Shibaura Institute of Technology)	B152
	Independence Complexes of Bipartite Circle Graphs	Yongwu Rong (Queens College, CUNY)	B156
5:10 - 5:20	Coffee Break		
5:20 - 5:40	Basis for KBSM of (β , 3)-fibered torus	Sushmita Sinha Roy (Florida Gulf Coast University)	B152
	Torsion in (Eulerian) Magnitude Homology	Patrick Martin (North Carolina State University)	B156
5:40 - 5:50	Coffee Break		
5:50 - 6:30	Localization spectral sequences for strongly invertible knots	Aakash Parikh (Rutgers University)	Distinguished Graduate Speaker B152
6:30 - 6:40	Coffee Break (second picture)		
6:40 - 7:00	Search for Hochschild Homology of Quandle Algebras.	Mohamed Elhamdadi (University of South Florida)	B152
~7:30 -	Small Party at Jozef & Teresa's House (Almost for sure)		

Sunday Dec 8 Phillips Hall

TIME	TALK TITLE	SPEAKER	Remarks
9:30 - 10:00	Breakfast		
10:00 - 10:50	A topological model for the HOMFLYPT polynomial	Christine Lee (Texas State University)	Plenary Talk B152
10:50 - 11:10	Coffee Break		
11:10 - 11:30	Biquandle invariants of immersed surface links and their applications	Puttipong Pongtanapaisan (Arizona State University)	B152
	Lie superalgebra generalizations of the Jaeger-Kauffman-Saleur invariant	Micah Chrisman (The Ohio State University)	B156
11:30 - 11:40	Coffee Break		
11:40 - 12:00	Quandle Cohomology Quiver Representations	Sam Nelson (Claremont McKenna College)	B152
	Fox's \mathbb{Z} -colorings and twelve equivalence relations on \mathbb{Z}^m	Kodai Wada (Kobe University)	B156
12:00 - 12:10	Coffee Break		
12:10 - 12:30	Homology for multi-biquandle	Seonmi Choi (Seowon University)	B152
	Mapping class groups of 4-manifolds with 1-handles	Boyu Zhang (University of Maryland)	B156
12:30 - 12:40	Coffee Break		
12:40 - 1:00	A Geometric approach to extreme Khovanov Homology in specific families of links	Hongdae Yun (Kyungpook National University)	B152

	Finiteness phenomena in geometric graph theory	Paul Kainen (Georgetown University)	B156
1:00 - 2:10	LUNCH - Pizza Provided		
2:10 - 3:00	Invariants of 2-bridge knots	Adam Lowrance (Vassar College)	Plenary Talk B152
3:00 - 3:20	Coffee Break		
3:20 - 3:40	Insights from Garside theory into Khovanov homology of 3-braids	Alvaro del Valle Vilchez (Universidad de Sevilla)	B152
3:40 - 3:50	Coffee Break		
3:50 - 4:10	Idempotents and tripotents in quandle rings	Neranga Fernando (College of the Holy Cross)	B152
	Finding Integral Line Graphs Using the Signless Laplacian Matrix	Semin Oh (Kyungpook National University)	B156
4:10 - 4:20	Coffee Break		
4:20 - 4:40	From the Functoriality of Odd Khovanov Homology to 2-Knot Invariants	Jacob Migdail (Washington and Lee University)	B152
	Thompson's groups, tangles, and group actions	Louisa Liles (University of Virginia)	B156
4:40 - 4:50	Coffee Break		
4:50 - 5:10	Investigations in Knot Positivity	Lizzie Buchanan (University of Iowa)	B152
	ТВА	Fabian Espinoza (Johns Hopkins University)	B156
5:10 - 5:20	Coffee Break		
5:20 - 5:40	Tait Graphs for Virtual Knots	Ryan Maguire (MIT)	B152
	Spanning trees, Khovanov homology and applications	Swarup Das (TCG Crest)	B156