

Knots in Washington 52 December 5-7, 2025

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

Friday December 5 – Phillips B156

| TIME | TALK TITLE | SPEAKER | Remarks |
|--------------------|---|--|---------------------------------------|
| 2:30 – 3:00 | <i>Coffee and snacks</i> | | |
| 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 | <i>Coffee Break</i> | | |
| 4:15 – 4:35 | Central Elements in the $Sp(2n)$ Skein Algebra | Haihan Wu (Johns Hopkins University) | |
| 4:35 – 4:45 | <i>Coffee Break</i> | | |
| 4:45 – 5:25 | TBA | Amber Liu (UMD-College Park) | Distinguished Graduate Student |
| 5:25 – 5:40 | <i>Coffee Break (and 1st conference Picture)</i> | | |
| 5:40 – 6:00 | Nilpotency for Quiver Representations | Nicolas Rugo (Johns Hopkins University) | |
| 6:00 – 6:10 | <i>Coffee Break</i> | | |
| 6:10 – 6:30 | TBA | Weixi Chen (Johns Hopkins University) | |
| 6:30 – 6:40 | <i>Coffee Break</i> | | |
| 6:40 – 7:00 | TBA | Catie Lillja (Johns Hopkins University) | |
| 7:00 – 7:10 | <i>Coffee Break</i> | | |
| 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 - <i>Pizza</i> 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 – | <i>Conference Party!</i> | | 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 - <i>Pizza</i> 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 |