

Princeton-Rider Workshop Schedule

(May 30, 2017)

Monday 5/29/17 PU Jadwin Hall, Room A10

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| 9:10–9:40 | COFFEE IN THE FINE HALL COMMON ROOM | |
| chair: BILL BROWDER | | |
| 9:45–10:00 | Opening and Welcome David Gabai | Jadwin Hall, Room A10 Chair, Department of Mathematics |
| 10:00–10:30 | Nikolay Erokhovets | Toric Topology and Combinatorics of Fullerenes and Pogorelov Polytopes |
| 10:45–11:15 | Seonjeong Park | Real Toric Manifolds and Shellable Posets Arising from Graphs |
| 11:30–12:00 | Daisuke Kishimoto | Right-Angled Coxeter Quandles and Polyhedral Products. |
| 12:05–2:05 | LUNCH | |
| chair: TARAS PANOV | | |
| 2:05–2:35 | Jun Ma | The Fixed Point Data and Equivariant Chern Numbers. |
| 2:50–3:20 | Shizuo Kaji | Representations on Real Toric Manifolds. |
| 3:35–4:05 | Soumen Sarkar | Equivariant and Invariant Topological Complexity. |
| 4:10–5:00 | AFTERNOON TEA/COFFEE IN THE COMMON ROOM | |
| 5:10–5:40 | Vladimir Grujić | Combinatorics of Generalized Permutohedra. |
| 5:55–6:25 | Feifei Fan | Cohomological Rigidity of a Class of Moment-Angle Manifolds and Toric (quasitoric) Manifolds. |

Tuesday 5/30/17 PU Jadwin Hall, Room A10

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| 9:30–10:00 | COFFEE OUTSIDE LECTURE ROOM | |
| chair: MARTIN BENDERSKY | | |
| 10:00–10:30 | Donald Stanley | CLATs and Integral Sullivan Models. |
| 10:45–11:15 | Xiangjun Wang | A Moment-Angle Manifold Whose Cohomology is Not Torsion Free. |
| 11:30–12:00 | Stephen Theriault | Moore's Conjecture for Polyhedral Products. |
| 12:05–2:05 | LUNCH | |
| 2:05–2:35 | Frédéric Bosio | On Diffeomorphic Moment-Angle Manifolds. |
| 2:50–3:20 | Hiroaki Ishida | De Rham and Dolbeault Models of Moment-Angle Manifolds. |
| 3:35–4:05 | Algebraic Topology Seminar | |
| | Svjetlana Terzić | The Universal Example of T^k -action on M^{2n} and Related Problems. |
| 4:10–5:00 | AFTERNOON TEA/COFFEE IN THE COMMON ROOM | |
| 5:10–5:40 | Ciprian Borcea | Auxetic Spacetimes |
| 5:55–6:25 | Lukas Katthän | The Golod Property of Stanley-Reisner Rings. |

Wednesday 5/31/17 RU Science Hall, Room 102

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| 9:15–9:45 | COFFEE OUTSIDE LECTURE ROOM | |
| chair: JAMES CASTAGNERA | | |
| 9:45–10:00 | Opening and Welcome Jonathan Millen | Science Hall, Room 102 Dean, College of Liberal Arts and Sciences |
| chair: CIPRIAN BORCEA | | |
| 10:00–10:30 | Jelena Grbić | Configuration Spaces and Polyhedral Products. |
| 10:45–11:15 | Mentor Stafa | Polyhedral Products and Monodromy Representations. |
| 11:30–12:00 | Dong Youp Suh | On Flagged Bott–Samelson Varieties and Flagged Bott Manifolds. |
| 12:05–2:05 | LUNCH IN BLC FIRESIDE LOUNGE | |
| 2:05–2:35 | Jason McCullough | A Survey of Recent Advances in Free Resolutions. |
| 2:50–3:20 | Li Cai | On the Homology of a Small Cover. |
| 3:35–4:05 | Jongbaek Song | The Equivariant Cohomology Ring of Toric Orbifolds. |
| 4:10–5:10 | AFTERNOON TEA/COFFEE | |
| 5:10–5:40 | Shintaro Kuroki | Extended Actions of Quasitoric Manifolds and J-Constructions of Polytopes. |
| 5:55–6:25 | Sho Hasui | On the Stable Cohomological Rigidity of Quasitoric Manifolds. |

Thursday 6/1/17 RU Science Hall, Room 102

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| 9:30–10:00 | COFFEE OUTSIDE LECTURE ROOM | |
| chair: JASON McCULLOUGH | | |
| 10:00–10:30 | Mikiya Masuda | Volume Polynomials of Regular Nilpotent Hessenberg Varieties. |
| 10:45–11:15 | Elizabeth Vidaurre | A Homotopical Generalization of the Bestvina-Brady Construction. |
| 11:30–12:00 | Haozhi Zeng | On the Torsion in the Cohomology Groups of Toric Orbifolds |
| 12:05–1:35 | LUNCH | |
| 1:35–2:05 | Anton Ayzenberg | Toric Origami Structures on Quasitoric Manifolds and Fatness of 3-polytopes. |
| 2:20–2:50 | Alastair Darby | Cluster Algebras and Algebraic PL-Invariants. |
| * THE REST OF THE AFTERNOON IS FREE * | | |

Friday 6/2/17 PU Jadwin Hall, Room A10

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| 9:30–10:00 | COFFEE OUTSIDE LECTURE ROOM | |
| chair: JELENA GRBIĆ | | |
| 10:00–10:30 | Taras Panov | Manifolds Defined by Right–Angled 3-Dimensional Polytopes |
| 10:45–11:15 | Santiago López de Medrano | Some Moment-Angle Manifolds and Polytopes with Dihedral Symmetry. |
| 11:30–12:00 | Ivan Limonchenko | On the Rational Formality of Polyhedral Products over Flag Simple Polytopes. |
| 12:05–2:05 | LUNCH | |
| 2:05–2:35 | Hideya Kuwata | Classification of Toric Manifolds over an n -Cube with One Vertex Cut. |
| 2:50–3:20 | John Conway | The Symmetrically Twice-Bordered Möbius Strip. |
| 3:35–4:05 | Eunjeong Lee | Bott Towers, Generalized Bott Towers, and Flagged Bott Towers. |
| 4:10–5:10 | AFTERNOON TEA/COFFEE | |
| 5:10–5:40 | Zhi Lü | Lickorish Type Classification of Closed Manifolds over Simple Polytopes. |
| 5:55–6:25 | Takashi Sato | Hessenberg Varieties and Hyperplane Arrangements. |