

Special Session: Algebraic Combinatorics

Organizers: H el ene Barcelo, Susanna Fishel, and Kelli Talaska

Algebraic Combinatorics Informal Discussion

Room 104 O'Connor Hall, Sunday, March 17, 8:30-10:30

Special Session: Analysis of PDEs in Newtonian and Non-Newtonian Fluid Mechanics

Organizers: Evelyn Lunasin and Anna Mazzucato

Analysis of PDEs in Newtonian and Non-Newtonian Fluid Mechanics Informal Discussion

Room 206 O'Connor Hall, Sunday, March 17, 8:30-10:30

Special Session: Groups and Geometry

Organizers: Alexandra Pettet and Jing Tao

Groups and Geometry II

Sunday, March 17, Room 106 O'Connor Hall

8:30-8:50 Jessica Purcell, Brigham Young University
Tunnels and Kleinian Groups

9:00-9:20 Jean Sun, University of Oklahoma
Projections and Stable Lengths of Mapping Class Groups

9:30-9:50 Tali Pinky, University of British Columbia
Primeness of Modular Geodesics

10:00-10:20 Talia Fernos, University of North Carolina at Greensboro
Rigidity of Actions on CAT(0) Cube Complexes

Special Session: Harmonic Analysis and its Applications

Organizer: Malabika Pramanik

Harmonic Analysis and its Applications Informal Discussion

Room 204 O'Connor Hall, Sunday, March 17, 8:30-10:30

Special Session: Low-dimensional Topology

Organizers: Shelly Harvey and Ina Petkova

Low-dimensional Topology II

Sunday, March 17, Room 105 O'Connor Hall

8:30-8:50 Gordana Matic, University of Georgia
Some Applications of Contact Invariants

9:00-9:20 Kristen Hendricks, Columbia University
Doubly-periodic Knots and Link Floer Homology

9:30-9:50 Ina Petkova, Rice University
The Decategorification of Bordered Heegaard Floer Homology

10:00-10:20 Jen Horn, Columbia University
The Alexander Module, Seifert Form, and Categorification

Special Session: Mathematics for Human Physiology and Disease

Organizers: Victoria Booth and Trachette Jackson

Mathematics for Human Physiology and Disease Informal Discussion

Room 207 O'Connor Hall, Sunday March 17, 8:30-10:30

Special Session: Model Theory Session in Honor of Carol Wood

Organizers: Alice Medvedev and Lynn Scow

Model Theory Session Informal Discussion

Room 107 O'Connor Hall, Sunday, March 17, 8:30-10:30

Special Session: Numerical Methods for PDEs

Organizers: Yingda Cheng and Fengyan Li

Numerical Methods for PDEs II

Sunday March 17, Room 205 O'Connor Hall

8:30-8:50 Yingda Cheng, Michigan State University
Numerical Methods for Vlasov-Maxwell Systems

9:00-9:20 Aycil Cesmelioglu, Oakland University
A Hybridizable Discontinuous Galerkin Method for the Incompressible Navier-Stokes Equations

9:30-9:50 Yekaterina Epshteyn, University of Utah
Algorithms Composition Framework Based on Difference Potentials Method

10:00-10:20 Jue Yan, Iowa State University
Maximum-Principle-Satisfying High Order Direct DG Method for Convection Diffusion Equations

Special Session: Random Matrix Theory and Applications

Organizer: Ioana Dumitriu

Random Matrix Theory and Applications II

Sunday, March 17, Room 206 O'Connor Hall

8:30-8:50 Antonia Tulino, Bell Labs (Alcatel-Lucent)
Support Recovery with Sparsely Sampled Free Random Matrices

9:00-9:20 Mirjana Vuletic, University of Massachusetts-Boston
The Gaussian Free Field and Strict Plane Partitions

9:30-9:50 Mary Radcliffe, University of Washington
Concentrations in Sums of Random Hermitian Matrices

10:00-10:20 Ioana Dumitriu, University of Washington
Random Regular Graphs and Wigner Matrices