

Friday, August 4th

12:00nn - 2:00pm

Registration & Welcome

12:00nn MW 154	Registration: Conference Room MW 154
12:00nn MW 724	Refreshments: 7 th Floor Lounge (MW 724) of Math Tower
1:20pm MW 724	Welcome Address: Peter March (Chair)

2:00pm - 4:30pm

Student Talks (I)

Session: I-A Room: EA 265 Chair: Prof Terrence Bisson	
2:00pm EA 265	Cayley graphs of finite abelian groups. Julia F Lazenby <i>Canisius College</i>
2:30pm EA 265	Transformation of Graphs, Characteristic Polynomials, and Spectra Allison A Davis <i>Canisius College</i>
3:00pm EA 265	Number of orbits associated to Hecke triangle groups Elena Udovina <i>Scripps College</i>
3:30pm EA 265	Finding a Galois Representation Corresponding to a Hecke Eigenclass Meghan M De Witt <i>Brigham Young University</i>
4:00pm EA 265	The Fundamental Theorem of Tropical Algebra Nathan Grigg <i>Brigham Young University</i>

Session: I-B Room: EA 275 Chair: Prof Alan Durfee	
2:00pm EA 275	Thistlethwaite's theorem for virtual links Jeremy Voltz <i>The Ohio State University</i>
2:30pm EA 275	Polynomial Parameterizations of Knots Susan J Durst & Katherine E Toman <i>Mount Holyoke College</i>
3:00pm EA 275	On the Perturbation of Polynomial Knots Emily N List & Charles M Siegel <i>Mount Holyoke College</i>
3:30pm EA 275	A New Condition for Intrinsically Knotted Bipartite Graphs Ryan L Hake & Chloe M Collins <i>CSU Chico</i>
4:00pm EA 275	Radio Number of Prism Graphs Juan P Ortiz & Paul M Martinez <i>CSU Channel Islands</i>

Session: I-C Room: EA 285 Chair: Prof Osman Yurekli	
2:00pm EA 285	Transforming Bessel Functions Matthew R Rogala <i>Ithaca College</i>
2:30pm EA 285	Finding Zeroes of Analytic Functions James E Weigandt & John J Steenbergen <i>Purdue University</i>
3:00pm EA 285	Spectral Reconstruction and Solution of PDEs Using Freud Orthogonal Polynomials William S Rosenthal <i>Arizona State University</i>
3:30pm EA 285	Spectrum of the Energy Laplacian on the Sierpinski Gasket Alex Fok <i>Cornell University</i>
4:00pm EA 285	Laplacians on the Sierpinski Gasket with Twists Baris E Ugurcan <i>Cornell University</i>

5:00pm - 6:00pm

Plenary Talk

5:00pm EA 160	When Three Colors Suffice Joan P. Hutchinson <i>Macalester College</i>
------------------	---

6:30pm - 9:30pm

Dinner at the Faculty Club

Saturday, August 5th

8:30am - 9:30am

Breakfast in MW 724

9:30am - 10:30am

Plenary Talk

9:30am
EA 160 **Quantum Computing**
Peter Shor
Massachusetts Institute of Technology

10:30pm - 12:00nn

Posters Presentations

Room: MW 724	
2D Fractal Trees with Three Branches Brianna M Tufts <i>Ithaca College, Ithaca, NY</i>	
Confidence Regions of Inverse Problems Models Marco A Lopez <i>Rice University</i>	
Conjugacy Classes of Permutations Spyro Roubos <i>NC State University</i>	
Non-Uniform sampling and Forgetfulness in Evolutionary Games Mark T Patterson & Peter T Weyand <i>University of Illinois at Urbana-Champaign</i>	
On the concept of Third Order Stochastic Dominance Javier I Gomez <i>RUSIS 06</i>	
Parallel Worlds: A Realtime Multi-User Virtual Environment on a Phleet of Graphics Computers Emily A Echevarria <i>University of Illinois at Urbana-Champaign</i>	
Quasi.py: A visualization of quasicrystals in PC cluster based virtual environments Matthew Y Gregory <i>University of Illinois at Urbana-Champaign</i>	
Replicator Dynamics for Balanced Zero-Sum Games: A Visualization Toolbox Joanna K. Nelson & Adrian M. Bell <i>University of Illinois at Urbana-Champaign</i>	
Rimming Flow of Power Law Fluids Armelle S Franklin & Lucija Zubonja <i>California State University, Chico</i>	
The Radio Number of Gear Graphs Christina M Fernandez & America Flores <i>CSU Channel Islands</i>	
Toricelli Solids Anna R Haensch & Joan Kim <i>SUNY New Paltz</i>	

12:00nn - 1:00pm

Lunch Break

1:00pm - 2:30pm

Student Talks (II)

Session: II-A	Room: EA 265	Chair: Prof Eric Katz
1:00pm EA 265	Laurent-rational points on polynomial curves Charles E Staats III <i>Duke University</i>	
1:30pm EA 265	Combinatorial Formulas for an Involution Poset Chelsey A Cooley & Nathan F Williams <i>North Carolina State University</i>	
2:00pm EA 265	Computational Issues in Weyl Groups Erin M Oliver & Patricia Cahn <i>Smith College</i>	

Session: II-B	Room: EA 275	Chair: Prof Giuliana Davidoff
1:00pm EA 275	Automorphisms of Root Systems Aydin Gereks <i>Lafayette College</i>	
1:30pm EA 275	Asymptotics on the Class Number Lee Kennard & Katharine Shultis <i>Mount Holyoke College</i>	
2:00pm EA 275	Fundamental Units and the Class Number Ian N Petrow & Haokun Xu <i>Mount Holyoke College</i>	

Saturday, August 5th (cont)

Session: II-C	Room: EA 285	Chair: Prof Donal O'Shea
1:00pm EA 285	Kazhdan's Property (T) for Graphs Clara E Brasseur <i>Canisius College</i>	
1:30pm EA 285	Covers, Laplacians, and Heat Kernels on Directed Graphs Ryan E Grady <i>Canisius College</i>	
2:00pm EA 285	Calculating the Ihara Zeta Function for Some Infinite Graphs Samuel D Cooper <i>Canisius College</i>	

2:30pm - 3:30pm

Coffee & Refreshments in MW724

3:30pm - 4:30pm

Student Talks (III)

Session: III-A	Room: EA 265	Chair: Prof Aloysius Helminck
3:30pm EA 265	Spectral Properties of the Zig-Zag Product of Graphs Dominic Dotterer <i>Canisius College</i>	
4:00pm EA 265	BRT Polynomials of Gassmann Equivalent Dessins May Mei <i>Louisiana State University</i>	
4:15pm EA 265	Combinatorics of the Figure Equation on Directed Graphs Taylor E Coon <i>Canisius College</i>	

Session: III-B	Room: EA 275	Chair: Prof Gary Gordon
3:30pm EA 275	The higher dimensional Frobenius Problem Jeffrey M Amos & Darren C Ong <i>Trinity University</i>	
4:00pm EA 275	On Radio Numbers of $C_n \square C_n$ Aaron M Yeager <i>CSU Channel Islands</i>	
4:15pm EA 275	Constructing Polynomial Knots Matthew R. K. Wright <i>Mount Holyoke College</i>	

Session: III-C	Room: EA 285	Chair: Prof Ruth Haas
3:30pm EA 285	Colorability of Alternating Knots Kevin R Meek & Pablo R Solis <i>CSU, Chico</i>	
4:00pm EA 285	On the Kauffman-Harary Conjecture for Turk's Head Braids Nicholas E. Dowdall & Kevin R Meek <i>CSU, Chico</i>	

5:00am - 6:00am

Plenary Talk

5:00pm EA 160	Proofs that Really Count Arthur Benjamin <i>Harvey Mudd College</i>	
-------------------------	--	--

6:30pm - 9:30pm

Dinner at the Fawcett Center

Sunday, August 6th

8:15am - 10:00am

Breakfasts

8:30am MW 724	Breakfast for everyone in 7 th floor lounge.
8:15am Blackwell	Mentor Breakfast: at the The Blackwell Inn Chaired by Warren Sinnott (Director of VIGRE).

10:00am - 12:00pm

Student Talks (IV)

Session: IV-A Room: EA 265 Chair: Prof Sergei Chmutov	
10:00am EA 265	A new perspective on De Bruijn tori Igor Konfisakhar & Joseph J Marincel <i>East Tennessee State University</i>
10:30am EA 265	Random Geometry Joseph J Marincel & Ariel R Levavi <i>Eastern Tennessee State University</i>
11:00am EA 265	Universal Cycles of a Multiset Joshua N Zahl & Tobias L Johnson <i>ETSU</i>
11:30am EA 265	The Existence of Cyclic Difference Sets Bridget D Franklin <i>Central Michigan University</i>

Session: IV-B Room: EA 275 Chair: Prof Neal Stoltzfus	
10:00am EA 275	Clock Lattices of Spanning Trees of Plane Graphs Mary L Radcliffe <i>Louisiana State University</i>
10:30am EA 275	Recursion of the Jones Polynomial on Two-Bridge Knots Giovanna Thron <i>Louisiana State University</i>
11:00am EA 275	What graphs are realizable as zero divisor graphs? Michael S Skalak <i>Wabash College</i>
11:30am EA 275	A family of graphs coming from the symmetries of the cube. Joseph D Consiglio <i>Canisius College</i>

Session: IV-C Room: EA 285 Chair: Prof Mason Porter	
10:00am EA 285	A Computational Study of the Quantization of Billiards with Mixed Dynamics William A Webb <i>California Institute of Technology</i>
10:30am EA 285	Recovering the Hidden Axis of a One Dimensional Quantum Reflection Operator Siwei Zhu <i>Rutgers University</i>
11:00am EA 285	Design and Optimization of Explicit Runge-Kutta Formulas Stephen M Dupal <i>Iowa State University</i>
11:30am EA 285	Maximizing Success In The "Hat Problem" Allen A Cox <i>Kent State University</i>

12:15pm - 12:30pm

Wrap Up

12:15pm MW 724	Closing Address: by Warren Sinnott and/or Peter March.
--------------------------	---