FrankFest 2016

Conference on Isoperimetric Problems

Williams College

Parallel Sessions: Saturday, February 6, 2016

Session I - Bronfman 106

2:20 - 2:35 Robin Walters (Northeastern University) *The Bernstein-Sato Polynomial of a Hyperplane Arrangement*

2:40 - 2:55 Jeff Jauregui (Union College) *Huiskens isoperimetric mass in general relativity*

3:00 - 3:15 Matt Simonson (Northeastern University) *Between Two Curves: The Isoperimetric Problem on Bounded Surfaces*

3:15 - 3:35 COFEE/TEA Break

3:35 - 3:50 Hung Tran (University of California-Irvine) *Complete manifolds with bounded curvature and spectral gaps*

3:55 - 4:10 Max Engelstein (University of Chicago) *Geometric Measure Theory and the Singular Set of a Two-Phase Free Boundary Problem*

Session II - Bronfman 105

2:20 - 2:35 Joel Foisy SUNY Potsdam) *A survey of intrinsically linked and intrinsically knotted graphs*

2:40 - 2:55 Sean Howe (University of Chicago) *Computers, monodromy, and the one line on a cubic surface*

3:00 - 3:15 Ben Steinhurst (McDaniel College) *Bond Percolation on the Hexacarpet and a Non-P.C.F. Sierpinski gasket*

3:15 - 3:35 COFEE/TEA Break

3:35 - 3:50 Trubee Davidson (University of Colorado-Boulder) *A Kantorovich metric for projection-valued measures*

3:55 - 4:10 Fred Brasz (Exa Corporation) *Voronoi Games*

Session III - Bronfman 103

2:20 - 2:35 Patricia Klein (University of Michigan) *What are Cohen-Macaulay Modules?*

2:40 - 2:55 Thomas Coleman (University of Missouri-Columbia) *Exotic Cohomology Products on Toric Stacks*

3:00 - 3:15 Jake Levinson (University of Michigan) *What is Schubert Calculus?*

3:15 - 3:35 COFEE/TEA Break

3:35 - 3:50 Rob Silversmith (University of Michigan) *The space of triangles*

3:55 - 4:10 Luis Sordo Vieira (University of Kentucky) *Artin's Conjecture for Diagonal Forms*

Session IV - Bronfman 104

2:20 - 2:35 Ellie Cowen (Edutopia) *The Area of Autumn Leaves, or How to Teach Calculus to Sixth Graders*

2:40 - 2:55 Mark Conger (University of Michigan) *The Logistic Equation: A Multimedia Experience*

3:00 - 3:15 Nicholas Neumann-Chun (Coding House) *Coding Bootcamp*

3:15 - 3:35 COFEE/TEA Break

3:35 - 3:50 Ted Welsh (Westfield State University) *Dividing Fractions Using Pictures and Words: an Elementary Approach*

3:55 - 4:10 Rohini Ramadas (University of Michigan) *The Mandelbrot set*