

Schedule – Mathematics

Oral Presentations I

Jordan 310

1:00 - 2:30 p.m.

Moderator: Sonja Mapes

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|-----------------------|---|
| 1:00 Christian Gorski | - Rational Knots and the Kauffman Bracket Skein Module of the Four-Punctured Sphere |
| 1:15 Gregory Greif | - Construction of a Space-Filling Curve |
| 1:30 Eun Seuk Choi | - Introduction to Brownian motion |
| 1:45 Austin Rodgers | - A Result on Ideals of Parametrizations of Plane Sextics |
| 2:00 Monica Gorman | - Mathematical Analysis of Disease Spread on Networks |

Poster Presentation

Jordan Galleria

2:30 - 3:30 p.m.

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| Paul Coletti | - Comparing Google PageRank to other Ranking Systems in NCAA Basketball |
| Daniel Gorman | - Restrictive Threshold Item Selection in Multidimensional Computerized Adaptive Testing |
| Melissa Krumdick | - An Analysis of Volatility-based Option Trading Strategies |
| Jonathan Vandenburg | - A Motivation for Higher Categories: Topological Quantum Field Theory |

Oral Presentations II

Jordan 310

3:30 - 5:00 p.m.

Moderator: Sonja Mapes

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| Benjamin Hallberg | - Google PageRank and the Math Behind It |
| Benjamin Gunning | - Necessary and Sufficient Conditions for Equilibria in Higher Dimensional Games |
| Andrew Jena | - The Dirac Formalism of Quantum Mechanics and the Basics of Quantum Computing and Quantum Cryptography |
| Matthew Hagarty | - An Introduction to p-adic Numbers |
| Tallis Bowers | - Realizing the Fundamental Theorem of Algebra |