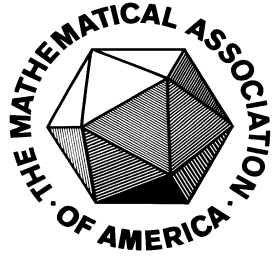
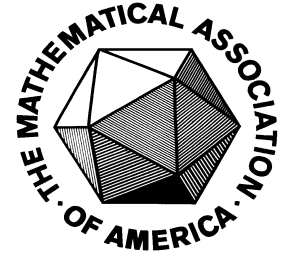


Student Contributed Paper Sessions

Eastern Pennsylvania and Delaware Section
of the
Mathematical Association of America



University of the Sciences
in Philadelphia



November 7, 2009

Session I-A: Undergraduate Student Talks (Room 137)

- 9:30 *Existence of Topological Entropy Preserving Subsystems Weakly Embeddable in Symbolic Dynamical Systems*
Jonathan Jaquette, Swarthmore College
- 9:42 *The Four Color Theorem*
Sarah Janssen , Hiu Yan Cheng , University of the Sciences in Philadelphia
- 9:54 *Springing into the Wave Equation*
Gina Mulranen, Cabrini College
- 10:06 *Partition Theory*
Jared Wasserman, Jason Franck, Vinay Daryani, University of the Sciences in Philadelphia

Session I-B: Graduate Student Talks (Room 237)

- 9:30 *Star-Avoiding Ramsey Numbers*
Jonelle Hook, Lehigh University
- 9:45 *The Refractor Problem with Loss of Energy and the Monge-Ampere Equation*
Henok Z. Mawi, Temple University
- 10:00 *Constructions of Coverings of the Integers: Exploring an Erdos Problem*
Juan Pablo Ortiz, Lehigh University
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Session II: Undergraduate Student Talks (Room 137)

- 1:30 *Quantitative Analysis of Color Deficiency (Colorblindness)*
Stephanie Bann, Nicolina Coppola, Joanna Verzosa, Melinda Gayle, Mercy College
- 1:42 *The Wonders of Fractals*
Kamal Tambakuwala, David Scala, University of the Sciences in Philadelphia
- 1:54 *Mathematical Modeling for Analysis of Genetic Disorders: Cystic Fibrosis*
Rachel Lemmey, Christina Tawfik, Gayatri Samnarain, Mercy College
- 2:06 *Discrete Fourier Transform*
Saniya Merchant, Gurleen Dhingra, University of the Sciences in Philadelphia

Session III: Undergraduate Student Talks (Room 137)

- 2:40 *Component Order Edge Connectivity for Graphs of Fixed Size and Order*
Phillip Gaudreau, Moravian College
- 2:52 *Combinatorics in Mathematical Chemistry*
Harsh Amin, Christian Tooley, University of the Sciences in Philadelphia

Session IV: Graduate Student Talks (Room 137)

- 3:04 *Lie Algebras and Parallel Parking*
Christopher Godbout, Lehigh University
- 3:19 *Product of Parts of Random Integer Compositions*
Caroline Shapcott, Drexel University