Student Contributed Paper Sessions



Eastern Pennsylvania and Delaware Section of the Mathematical Association of America

Muhlenberg College April 2, 2016



Session I-A: Graduate Student Talks (TRUMBWR 305)

- 1:10 Stability of the Chebyshev Spectral Collocation Method for Non-Linear Partial Differential Equations on Rectangular and Polar Grids Matthew N. Moore, Delaware State University
- 1:30 High School Geometry Textbooks' Opportunities for Reasoning-and-Proving
 Jenifer Hummer, University of Delaware
- 1:50 On the Proof of the Friendship Theorem Hussein Awala, Temple University
- 2:10 Expander Families and the Isoperimetric Constant Amy Strosser, Villanova University

Session I-B: Undergraduate Student Talks (TRUMBWR 311)

- 1:10 The History of Algorithms

 Deion Floyd, Eli Halpern, University of the Sciences
- 1:22 Sudoko
 Matt Marshall, Tori Lugiano, University of the Sciences
- 1:34 The History of Knight's Tour
 Brianna Mengini, Brielle Okulicz, Jaden Daubert, University of the Sciences
- 1:46 *An `Unreal' Infinity*Richard Lichtenwalner, Kutztown University of Pennsylvania
- 1:58 A Steiner Optimization of the Cable Trench Problem
 Dylan Arthur Gaspar, Kutztown University
- 2:10 Triangular Tchaikaillon-Toe on an Affine Honeycomb Matrix Brent Keath, John Gallagher, Eastern University

Session I-C: Undergraduate Student Talks (TRUMBWR 347)

12:58	Revised Star Axiom System Maria Colaciello, King's College
1:10	An Axiom System Bridget McGowan, King's College
1:22	Axiom System Alexandra Weidtman, King's College
1:34	The Arrow Axiom System Kayla Feairheller, King's College
1:46	The Battle of the Avengers Sharon Flores, King's College
1:58	Degree sequences of partial Halin graphs Theresa Marlin, DeSales University
2:10	Application of linear algebra to calculus Michael Gottstein, Misericordia University
Session I-l	D: Undergraduate Student Talks (SHNKWLR 234)
1:10	The Monty Hall Problem and its Variations Amanda Long, Elizabethtown College
1:22	An Implementation of Modern Portfolio Theory with Excel Michael DiBella, Elizabethtown College
1:34	Cryptanalysis of the Hill Cipher Jess Lehr, Elizabethtown College
1:46	Scheduling an NHL Season Using Integer Programming Collin Davidson, Elizabethtown College
1:58	Does the Infinite Sum of the Recipricols of Primes Converge or Diverge?

Arielle Roth, Elizabethtown College

Samuel Edwards, Gettysburg College

2:10

How Now Brown Tau: Finding Weakly Sum-Free Sets

Session I-E: Undergraduate Student Talks (SHNKWLR 340)

- 1:10 Assessing the accuracy of Arcadia University's math placement test Theresa Dewa, Carmela Straiton, Arcadia University
- 1:22 Using the Buhlmann Technique to Analyze Credibility Liyuan (Hobbs) Zhang, Arcadia University
- 1:34 Actual versus Effective Sample Size Zhenbang Wang, Arcadia University
- 1:46 A calculus student's dream: $(f(x) \cdot g(x))' = f'(x) \cdot g'(x)$ and (f(g(x)))' = f'(g'(x))LinXing Yao, Arcadia University
- 1:58 Modeling the 2013-2015 Ebola Outbreak in West Africa Using Differential Equations of SIR Form and Markov Matrices
 Ronald Berna, Villanova University
- 2:10 Expected Values for Time Until Untenability in Pólya Urns Brandon Schneider, Muhlenberg College