

STUDENT TALKS

2011 Allegheny Mountain Section Meeting at Clarion University

	Science and Technology Center 123	Science and Technology Center 125	Science and Technology Center 134	Science and Technology Center 136	Science and Technology Center 138	Science and Technology Center 120	Science and Technology Center 140
6:30-6:45	Mary Welter An Analytical Proof of Pascal's Theorem	Kent Uber & Rip Straessley Touchdowns, Safeties, and Probability	Shawn O'Shea The Fifteen Puzzle	Josh Koslosky The Image Fusion Problem and Sparsity	Amanda Mannerberg Extension of the Predator-Prey Model	Jon Boyd, Nichole Lemke, & Hoyt Mihalak Exploring Limits; Some Interesting Examples	Kelli Lafferty Multiple Attractors in Discrete Models of Neuronal Networks
6:50-7:05	Bradley Weaver Minkowski Length of Polyhedra	Stephen Timko An Investigation of the Agreement Among Hypothesis Tests for 2x2 Tables	Kristy Lester, Albert Harrison, & Bill Noel Developing Efficient Airplane Boarding Strategies	Tanya Riston On Modifying a Finite Difference Method for a Class of Nonlocal Problems	Jaime Jeke & Victoria Lang Accounting for Extinction: Population Dynamics of Stochastic Modeling of Predator-Prey Systems	Lindsay Brush & Jennifer Kelly Baccarat Gambling and Multisets	Kaska Adoteye Single Attractors In Discrete Models Of Neuronal Networks
7:10-7:25	Jennifer Magee e as a Transcendental Number	Kristy Snyder & Amanda Eplett Heads or Tails?	Li Kou Analyzing admission data	Katie Heaps Denoising Images Using Total Variation	Pete Lund Influence of Predation on Genetic Variability in Prey	Rex Edmonds Pythagorean triples of the form (T_n, S_n, P_n) where $T_n, S_n,$ and P_n are triangular, square, and pentagonal numbers	Suren Jayasuriya Dynamics of a Neural Competition Model Driven by Intermittent Stimuli

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7:30-7:45	Richard Ligo The Subgraph Summability Number of a Graph	Andrew Mayle & Stephanie Ihrig Two-Faced Monty Hall: A Variation of Host Behavior	Joseph Garcia & Brian Sullivan A Perfect Bracket – The Impossible Dream	Jonathan Lowden Mathematical modeling, simulation, sensitivity analysis and outbreak risk of vancomycin – resistant enterococci.	Adam Burch Population Firing Rate Dynamics of Perfect Integrate-and-Fire Neurons	Joey Cortez Examining Roots of Rational Numbers	Tyler McLaughlin The Geometry of Up and Down States
7:50-8:05	Mackenzie Harding Order of $U(n)$	Hallie Doi & Kristen Leya Generalizations of the Birthday Problem	Zachary Hopkins & Jamie Gordon The Best Running Back of All Time	Alex Harshberger Predicting Bacteria-Immune Dynamics in Necrotizing Enterocolitis: A Model Comparison	Grace Lindsay Tuning Curve Quality and Its Effect on Population Coding	Greg Clark Tessellations: Properties and Periodicity	Jen Kokoska Spatial Metrics for Characterizing Networks of Seismic Receivers
8:10-8:25	Amanda Goodrick Mathematics Magazine Problem 1851: A Generalization of the Perrin Sequence	James Bichler & Krista Scott We Are Not Trying to Reinvent the Wheel: We Are Just Trying to Beat It	Jung Y. Colen & Yong S. Colen Discrete Mathematics in the Elementary Grades	David Stiffey Oligopolistic Competition	Noemi Borsay Behind Phenotype Transfer: Simulation and analysis of “drivers” within a gene network		Brad Dinardo Examining the Effects of Initial Atmospheric Conditions on Tornadogenesis