

STUDENT TALKS

2018 Allegheny Mountain Section Meeting at Penn State Behrend

	<i>Burke 101</i>	<i>Burke 102</i>	<i>Burke 103</i>	<i>Burke 104</i>	<i>Burke 105</i>	<i>Burke 106</i>	<i>Burke 204</i>
7:15 – 7:30	Billy Mellinger <i>Penn State Greater Allegheny</i> A Serious Series Problem	Madison Babicka <i>Washington & Jefferson College</i> So Many Primes (proofs)!	Aaron Worley <i>Penn State Altoona</i> Cubic Metallic Means	Augustine Fisher <i>Northwest PA Collegiate Academy</i> Optimizing Routes Through a Network Containing a Speed Upgrade	Zack Linger <i>Fairmont State Univ.</i> Experiments Related to the Riemann Zeta Function	Chelsea Deluisio <i>Edinboro Univ.</i> Proof of Menelaus Theorem	
7:35 – 7:50	Rebecca Drucker <i>Juniata College</i> Constructing Configurations of the Dr. Eureka Puzzle	Madison Lydic and Jordan Melko <i>Washington & Jefferson College</i> Cookie Monster Problem	Chenzhang Zhou <i>Penn State Altoona</i> ODE Solver Based on Taylor Approximation	Wasim Jamshed <i>Penn State York</i> MHD Flow and Heat Transfer of Casson Nanofluid with Slip Conditions, Thermal Radiation and Variable Thermal Conductivity	Carl Wahler and Anna Westfall <i>Fairmont State Univ.</i> Using Monte Carlo Methods to Predict Satellite Directional Stability	Rachael Troutman <i>Edinboro Univ.</i> Alice's Adventures in Mathematical Madness	Dylan Langharst and Marco Nunez <i>Penn State Behrend</i> Deriving the Schrödinger Form for Various Orthogonal Polynomial Sequences
7:55 – 8:10	Stephanie Ringer <i>Juniata College</i> Finding the Optimal Math Homework Review Method	Michael Wigal <i>West Virginia Univ.</i> Characterization of subexponential posets for First-Fit	Matt Bruno <i>Edinboro Univ.</i> An Overview of Elliptic Curve Cryptography	Jeremy Glasner and Josh Hnat <i>Washington & Jefferson College</i> Expressing Polynomials with Binomial Coefficients	Dawn Sargent <i>Fairmont State Univ.</i> Characterizing the Behavior of a Spring Pendulum with Monte Carlo Methods	Ava Hoag <i>Westminster College</i> A Glimpse at Space Around Black Holes	Landon Han <i>Penn State Behrend</i> Optimal Forcing Location in Arrays of Coupled Oscillators
8:15 – 8:30	Jared Mountan, Matthew Adams, Bogdan Bordean, and Cy Milko <i>Penn State Univ.</i> Neural Networks in Artificial Intelligence	Peter Conley <i>Gannon Univ.</i> Inverse Domination: Search for a Counterexample	Alison Pearce <i>Edinboro Univ.</i> The Median Concurrence Theorem	Bingliang Lu <i>Washington & Jefferson College</i> The Unimodality of Binomial Coefficients and Northeastern Lattice Paths	Si Chen & Tiantian Liu <i>Univ. of Pittsburgh</i> Indicators of Pointed Hopf Algebras of pq Dimension over Characteristic p	Tyler Heintz <i>Westminster College</i> Finding Unimodular Roots of Complex Polynomials	Kade Kolheffer <i>Penn State Behrend</i> Horse Racing Analysis
8:35 – 8:50	Zeph Turner <i>Juniata College</i> Estimating the Sources of Metagenomic Data Using Bayesian Statistical Methods	Shulai Yang <i>Washington & Jefferson College</i> The Catalan Numbers and Its Applications	Hong Xin <i>Penn State Behrend</i> Bridge Tournament Arrangement	Rachael Elliott <i>Westminster College</i> An Application of k-modes Clustering to Institutional Advancement Data	Joseph Datz and Conner Stout <i>Univ. of Pittsburgh</i> Leveraging Machine Learning to Model Hospital Patient Readmittance	Jacob Simmons <i>Edinboro Univ.</i> Ciphers and Their Relation to Polynomials and Modular Arithmetic	
8:55 – 9:10	Lewis Dominquez <i>Indiana Univ. of PA</i> Finite Sum Representations of Elements in R	Kashmir Sainiak <i>Washington & Jefferson College</i> Plus and Equals	Lulu Liu <i>Penn State Behrend</i> Different Ways to Sum $\zeta(2)$	Trevor Arrigoni <i>Westminster College</i> On Inverse Semigroups of Self-Similar Graph Actions	Brian Gentry <i>Univ. of Pittsburgh</i> Predicting High-Volume Prescribers of Life-Saving Medical Devices	Brandon Eschborn <i>Edinboro Univ.</i> Perfect Numbers in Other Bases	