



Research in Motion Outstanding Posters

5, "Straightening Identities within the Universal Enveloping Algebra of the Witt Algebra", *Stella Gulledge, Ellie Miller*

8, "Discrepancy Estimates for Liouville Irrationals and Applications to Quantum Dynamics of Quasi-Periodic Schrödinger Operators", *Matthew Bradshaw, Titus de Jong, Audrey Wang*

9, "Analyzing Systemic Inequities in Trespass Towing through Data-Driven Web Applications", *Alexandra Veremeychik*

13, "Cloudy with a Chance of Aspirin: Optimized drone delivery system for elderly and disabled people.", *Dario Catalan Baguena, Inmaculada Felipe Delgado*

16, "Modeling Complex Brain Dynamics Using Integral Operators", *Saugat Acharya, Alice Giola, Andreas Kramer*

20, "The winner and loser of the war of languages, and how to implement a "peace plan"", *Maxwell Goskie*

32, "On the Smallest Partition Associated to a Numerical Semigroup", *Kaylee Kim*

38, "Spectral Radii and Critical Groups of Arithmetical Structures", *Paul McGinley, Jedward Melendez, Sebastian Ramirez-Gonzalez*

50, "Harmonic Content of String Networks: A Physical Application of Quantum Graphs", *Miriam Abecasis*

54, "A Solution to a Problem Posed by Caro, Davila, Hennings, and Pepper Concerning d -regular Claw-free Graphs", *Maggie Ha*

58, "Optimal Pebbling of Lollipop, Spider, and Tadpole Graphs", *Nathaniel Hall*

64, "Representations of Derivatives for Teaching Calculus: Extending Beyond Traditional Frameworks", *Hannah Freund, Chris Liu*

66, "Scaffolded Graphing Tasks Reveal Developmental Stages in Students' Covariational Reasoning", *Audrey Gianelle*

69, "Evaluating the Impact of Peer-Led Study Groups on Student Success in Lower-Division Mathematics and Statistics Courses", *Navid Amarlou*

71, "Obstructions to Classifying PPQuads Using Q-Points of S^2 ", *Cara Admiraal*

74, "Mathematically Modeling Disease Transmission Between Hospitals and Long-Term Care Facilities", *Zack Littell*

77, "Analysis of Home Team Advantage for National Collegiate Men's Volleyball", *Tony Kochev, Luke Pekol, Zach Pekol*

79, "Standard modules of the Temperley-Lieb algebra at zero", *Eddy Li*