2022 MAA MathFest

Undergraduate Student Poster Session

Honorable Mentions

1, Bifurcus Semigroups With Finitely Many Atoms

Robert Dolan

4, The Spectrum of Complete Local Rings

Ricardo Garcia, Mehek Mehra, Joelle Ocheltree, Rodrigo Smith

7, Nonlocal Optimization Problems

Michael Pieper

8, An Exploration of Fixed Point Theory

Julianan Sims

13, The Optimal Age To Start Your Supplemental Security Income (SSI)

Linh Khuat, Genesis Dominguez, Alexander Skowron

22, An Analysis of Social Choice Functions & The Mathematics of Voting

Brandon Calia

23, A Statistical Analysis of Stream Litter Accumulation in the Oklahoma Metropolitan Area Considering Levels of Biodegradability

Tianna Samuel

24, Modeling Influence of Urban Development on Litter Accumulation in Metropolitan Waterways

Oday Shwayyat

25, Data Augmentation for Tabular Data Sets

Christina Dietrich, Jeffrey Roberts, Jason White

30, A Quantum Resource Theory for One-Way Information

Jack Rausch

31, Utilizing Markov Chains to Estimate Allele Progression through Generations

Ronit Gandhi, Clay Cressler

32, Neuronal Activity and Graph Theory

Ally Larsen

35, The effect of non-exponentially distributed infectious periods on cost-effective chlamydia treatments

Jack Farrell, Owen Spolyar

36, An Agent-Based Model of COVID-19 Transmission at Lewis University

Austin Kind

37, Dynamics of a Stage-Structured Predator-Prey Model with Cannibalism

Kasey Cooper, Ava Dreher, Caroline McCrorey

49, Three Colored Bipartite Ramsey Numbers of Small Double Stars

Ella Oren-Dahan

60, The Effectiveness of Three Promising Psychological Interventions on Math Anxiety and Academic Performance

Kim Ngan Huynh, Allison Hope

65, Developing Solutions For Two Diophantine Equations And Their Behaviors

Arnold Rosas

66, Monodromy Groups of Belyi Lattes Maps

Zoe Batterman, Ines Chung-Halpern, Ebenezer Semere, John Clark

67, Valuation Trees and Primitive Prime Divisors

Malike Conteh, Michaela Fitzgerald, Sarah Szafranski, Jasmine Camero

68, Galois Groups of Fields Generated by Points of Curves

Quincy Alston, Gesa Nestler, Jack Straus, Kayla Gibson

72, Analyzing High-Pressure Moments in Tennis and Competitive Esports

Jakob London, Leobardo Rodriguez

73, A Pandemic of Mental Health

Sarah Kircher, Edward Coleman, Jhavon Innocent, McKade Trauger

76, Modeling Parcheesi Using Markov Chains

Emily Sarro, Namuka Ishii, Isabel Dinan