Conference Schedule (November 9, 2024)

The registration and all the talks will be in the 7800 York Road Building (\mathbf{YR}) on the second floor. There is a parking garage adjacent to the building (the Glen Garage) connected to the third floor by a walking bridge. Parking is free on weekends. If you have registered online, you will find a printed nametag at the registration table. If you have not registered online, please visit the registration table and sign in. Please be sure to stay for the Prize Session at the end of the conference; there will be a raffle for all student participants with several prizes.

9:30-10:00 Registration	YR, 2nd floor lobby
10:00 - 10:05 Opening remarks by the Department Chair	YR 205
 10:05 – 11:05 Morning plenary address Inverse Problems for Differential Equations: How to "See" an Underground Tector Dr. Anna Mazzucato, Pennsylvania State University 	YR 205 nic Fault
 11:10–11:30 Student talks Using Integer Covering Systems to Find Riesel and Sierpiński Numbers Chris Bispels, University of Maryland, Baltimore County Twists, Turns, and Topology: Exploring the Fascinating World of Liquid Crystals 	YR 217 VR 210
Mateusz Ratman, Johns Hopkins University	110 213
11:35-11:55 Student talks Graph Coloring with Restricted Colors Alejandro Escorcia, Loyola University Maryland	YR 217
Applying Deep Learning to Simulate Clark-Alpha Turbulence Model Chenyue Qi, Towson University	YR 219
12:00-12:20 Student talks Vertex Minimal Graphs with Automorphism Groups of Order pq Alex Holtzman, Towson University	YR 217
Topological Quantum Field Theories over Algebraic Field Extensions Fabian Espinoza, Johns Hopkins University	YR 219
12:20–1:20 Plenary session Mathematics Careers in Government, Industry, and Academia	YR 205
1:20–2:15 Lunch	YR, 2nd floor lobby
2:15–3:15 Afternoon plenary address Where Parallel Lines Meet: Take a Ride to Infinity on the Projective Plane Dr. Ed Scheinerman, Johns Hopkins University	YR 205
3:25–3:45 Student talks On Algebraically Defined Edge Colored Graphs Susanna Coldetein Oberlin College	YR 217
Inverse Iteration for Laplace Eigenvalue Problems Ephraim Ruttenberg, University of Maryland, Baltimore County	YR 219
3:50-4:10 Snacks and professional networking	YR, 2nd floor lobby

Continued on the next page

4:15–4:35 Student talks	
Mordell's Theorem and Further Developments	YR 217
Yeju Shin, University of Massachusetts at Amherst	
A Theoretical Approach to Medical Micro-Robots	YR 219
Alex Holtzman, Towson University	
4:40–5:00 Student talks	
Almost Primes of Almost Prime Index	$\rm YR~217$
Megan Triplett, Dickinson College	
Underrepresentation in the US House of Representatives: Finding the Probability	
of Quota Violations in Congressional Apportionment	YR 219
Tyler Wunder, Johns Hopkins University	
5:05–5:25 Student talks	
Spectral Methods in Graph Theory and Finite Topological Spaces	$\rm YR~217$
Nicolas Rugo, Johns Hopkins University	
Developing an Automation Tool to Solve a Logistical Problem Using AMPL and Python	YR 219
Hai-Hsin Huang, Virginia Military Institute	
5:30–5:45 Prize session	YR 205