Conference Schedule (November 15, 2025)

The registration and all the talks will be in the 7800 York Road Building (**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 — YR 205

Pebbling Problems and Paradigms

Dr. Glenn Hurlbert, Virginia Commonwealth University

11:15–11:35 Student talks

The Goldbeter-Lefever Model of Glycolytic Oscillation — YR 217

Samuel Nemirovsky, Univeristy of Maryland, Baltimore County

Ellipses in Spherical Geometry — YR 218

Malcolm Black-Howell, Towson University

Convex Orderability in Groups — YR 219

Allison Rogers, Towson University

11:45-12:05 Student talks

A Cubic Multivariate Digital Signature Scheme Based on UOV and L-invertible Cycle System

Ian Thomas, Towson University — YR 217

Harmonic Mappings of Riemannian Manifolds

Jorge Gonzalez Acosta, Johns Hopkins University — YR 218

"Nilpotent" Representations of Cyclic Quivers

Nicolas Rugo, Johns Hopkins University — YR 219

12:15–1:15 Lunch — YR, 2nd floor lobby

1:15–2:15 Plenary session — YR 205

Mathematics Careers in Government, Industry, and Academia

2:25–2:45 Student talks

An Analysis of Badminton Smash Success Rates — YR 217

Tanyasai Kadiyala, HCPSS

Sums of k-th Powers in Ramified 2-adic Rings — YR 219

Anthony Cerone and Kenny Zeh-Ndelle, McDaniel College

2:55–3:05 Student talks

Data Assimilation and Deep Learning for Turbulence Models — YR 217

Dean Banzon, Nathan Ketterlinus, William Magrath, and Christopher Toomer, Towson University

Sums of k-th Powers in Ramified 3-adic Rings — YR 219

Keyierra Harris and Ellie Riggs, McDaniel College

3:15–3:35 Student talks

Improved Confidence Intervals for Difference of Proportions with Mixed Paired and Unpaired Data

Izzy Cole, Towson University — YR 217

Group Law on Tropical Elliptic Curves and Valuated Matroids

Catie Lillja, Johns Hopkins University — YR 219

3:35–4:00 Snacks and professional networking — YR, 2nd floor lobby

4:00–5:00 Afternoon plenary address — YR 205

The Finite Element Method: Engineering Advances Through Mathematical Research

Dr. Manil Suri, University of Maryland, Baltimore County

5:00–5:15 Prize session — YR 205