

	Morning						
Time	Carnegie 100	Carnegie 114	Carnegie 115	Carnegie 119	Carnegie 120	Carnegie 200	Carnegie 219
7:00-8:15	Registration and Breakfast (Carnegie 110/111)						
8:15-8:30	Welcome and Remarks (Life Science Building 001)						
8:30-9:30	Keynote Speaker: Dr. Ramon van Handel (Life Science Building 001) Optimal Spectral Gaps						
9:45-10:15	Sabrina Traver Global invertibility of Sobolev mappings with given homeomorphic boundary values	Arya Dutta Investigating new resonance transitions in Oterma's orbit to explain the latest observations	Tony Wehbe Composition of Coupled Dynamical Systems		Dion Mann Holonomic Gauge Theory and the Reconstruction Theorem	Mengchun Cai Mesoscopic Rates of Convergence for Classical Ensembles in Random Matrix Theory	Arturo Ortiz San Miguel Maximizing Subgraphs in Regular Graphs
10:20-10:50	Austin Konkel When does a circle immersed generically into the plane bound an immersed disk?	Ridvan Ozdemir A Rigorous Mathematical Theory for Topological Phases and Edge Modes in Spring-mass Mechanical Systems	Jacob Brown A B-spline based finite element approach for estimating the Hausdorff dimensions of continued fraction iterated function systems	Arshiya Farhath Gulam Dasthagir Quasiconformal mappings and holomorphic motions	Joseph Beckmann The Excess Intersection Problem	Samson Ajibade AN EFFICIENT INTEGRATOR FOR GENERALIZED MODELS USING RADIAL BASIS FUNCTIONS AND RATIONAL APPROXIMATION OF MITTAG-LEFFLER FUNCTIONS.	Dalena Vien Algebraic Invariants of Edges Ideals Under Coning Constructions
10:50-11:05	Coffee Break (Carnegie 110/111)						
11:05-11:35	Zhihe Li The Fourier Ratio: Uncertainty, Restriction, and Approximation for Compactly Supported Measures	Abdullah Al Rafi Mahmud Cavity Mediated Interactions in Spin Systems	Hunter Young Fast and Accurate Surrogate Models: Comparing DeepONet, FNO, and PIKNO for Rapid Prediction of Laser-Tissue Interaction	Jasmine Burns Oscillatory Prime Distributions and Thermodynamic Instability in Analytic Number Theory	Ryan Gelnett On spaces of embeddings of circles in surfaces	Asir Intesar Tushar Markov Chain Monte Carlo Methods for Curve Reconstruction and Point Cloud Data Analysis	Luna Perry A Diagrammatic Approach to Coalgebraic Structures
11:40-12:10	Ke Yu The uncertainty principle and Orlicz spaces	Ethan Shade Slip 'N Solve: Deriving the Sliding Catenary Curve Equation	Steve Wainaina A Perturbed Physics-Informed Neural Network Surrogate Model for the One-Dimensional Heat Equation	Xiaorun Wu Kolyvagin derivatives for higher rank Kolyvagin system construction	Courtney Hauf Equivariant parameterized cohomology	Heena Shaikh Stability of Recurrent Neural Networks	Johnny Rivera Combinatorial proof of a permuted basement Macdonald polynomial identity
12:15 - 1:30	Lunch (Carnegie 110/111)						