

## Sunday

Jesus Gonzalez, *Topological complexity: an algebraic topology model to the motion planning problem in robotics*

Roman Srzednicki, *On a problem of Whitney and the retract theorem of Ważewski*

Ran Levi, *Topological analysis of neural networks*

## Monday

Gunnar Carlsson, *Local to global principles for persistent homology*

Dmitry Feichner-Kozlov, *Topology of complexes arising in models for Distributed Computing*

Vitaliy Kurlin, *Topological methods for a faster materials discovery*

Mark Grant, *Symmetrized topological complexity*

Yasuaki Hiraoka, *Limit theorem for persistence diagrams and related topics*

Francisco Belchi-Guillamon,  *$A_\infty$ -persistence*

Matthew Zabka, *A Random Bockstein Operator*

Steven Simon, *Hyperplane Equipartitions Plus Constraints*

Dejan Govc, *An Approximate Nerve Theorem*

Michael Catanzaro, *Stochastic Dynamics on CW complexes*

Edivaldo dos Santos, *On the Bourgin–Yang theorem*

## Tuesday

Alexander Dranishnikov, *On topological complexity and LS-category*

Roy Meshulam, *Concurrency Theory and Subspace Arrangements*

Rade Zivaljevic, *Topological methods in discrete geometry; new developments*

Washington Mio, *Stable Local Persistent Homology*

Kathryn Hess, *Topology meets neuroscience*

Nicholas Scoville, *A Persistent Homological Analysis of Network Data Flow Malfunctions*

Jose Antonio Vilches, *Strong discrete Morse theory*

Simon Willerton, *Instantaneous dimension of metric spaces via spread and magnitude*

Jan Spaliński, *Some applications of persistent cohomology*

Mehmetcik Pamuk, *Perfect discrete Morse functions on connected sums*

Ahmad Yousefian Darani, *Zariski topology on the spectrum of strongly prime submodules*

## Wednesday

Janos Pach, *A dual of Tarski's plank problem: Using a fixed point theorem*

Piotr Sułkowski, *Topological recursion, counting of chord diagrams, and classification of RNA complexes*

Lucile Vandembroucq, *Topological complexity of the Klein bottle*

Bogdan Batko, *Conley index for discrete multivalued dynamical systems and the dynamics reconstruction problem*

## Thursday

Pavle Blagojevic, *Shadows of Cohen's Vanishing theorem*

Jarosław Buczyński, *Constructions of  $k$ -regular maps using finite local schemes*

Peter Franek, *Solving Equations and Optimization Problems with Uncertainty*

Frank Lutz, *On the Topology of Steel*

Mikael Vejdemo-Johansson, *Topology in the Furnace — using topology to find failure modes in industrial models*

Jose Carrasquel, *Topological complexity and efficiency of motion planning algorithm*

Sinisa Vrecica, *Multiple chessboard complexes and theorems of Tverberg type*

Grzegorz Jablonski, *Collapsing Čech to Delaunay complexes in persistence of sampled dynamical systems*

David Recio-Mitter, *Topological complexity of subgroups of the braid groups*

Mahender Singh, *Equivariant maps between representation spheres of Lie groups*

## Friday

Wojciech Chacholski, *What is persistence?*

Jacek Brodzki, *The Geometry of Synchronization Problems and Learning Group Actions*

Petar Pavesic, *Topological complexity of fibrations and covering maps*

Miroslav Kramar, *Analysis of Time Scales in Complex Spatio-Temporal Systems*

Frederic Chazal, *Estimating the Reach of a Manifold*

Steven Ellis, *Persistent Homology of Independence of Groups of Binary Variables*

Krzysztof Ziemiański, *Directed paths on cubical complexes*

Leonid Plachta, *On discretized configuration spaces*

Sergio Ardanza-Trevijano, *Topological data analysis on particulate materials*

Fedor Manin, *Counting thick embeddings*

Marek Kaluba, *Certifying numerical estimates of spectral gaps*