Program

Monday, February 13, 2023

9:30-10:00 Registration and Opening

10:00-11:30 Jürgen Jost Discrete Ricci and sectional curvatures for metric spaces and networks 1

11:30-12:00 Coffee break

12:00-13:30 Jürgen Jost Discrete Ricci and sectional curvatures for metric spaces and networks 2

13:30-14:30 Lunch

14:30-16:00 Omer Bobrowski Universality in Random Persistence Diagrams

16:00-16:30 Coffee break

16:30-17:00 Yinon Nachshon & Paz Naim Ricci curvature and the stream of associations

17:00-18:30 David Gu Optimal transport for generative model

Tuesday, February 14, 2023

9:30-11:10 Michael Farber Algebraic topology and autonomous robot motion 1

11:00-11:30 Coffee break

11:30-13:00 Michael Farber Algebraic topology and autonomous robot motion 2

13:00-14:00 Lunch

14:00-19:00 Excursion and festive dinner

Wednesday, February 15, 2023

9:30-11:00 Florentin Münch Discrete Ricci curvature and semigroup estimates

11:00-11:30 Coffee break

11:30-13:00 Florentin Münch Discrete Ricci curvature and homology

13:00-14:00 Lunch

14:00-16:00 Posters and short talks session

Anna Song Distance Function for MEG Numerical Cognitive Tasks Trials

Yohai Reani Cycle Registration in Persistent Homology with Applications in Topological Bootstrap

Roan Talbut Wasserstein Distances on Tropical Projective Torii of Different Dimensions

16:00-16:30 Coffee break

16:30-18:00 David Gu Abel-Jacobi theory for meshing

Thursday, February 16, 2023

9:30-11:00 Arejit Samal Geometry-inspired measures with wide applications in network science

11:00-11:30 Coffee break

11:30-13:00 Emil Saucan Metric curvatures for networks

13:00-14:00 Lunch

14:00-15:30 Emil Saucan Discrete Morse Theory, Persistent Homology and Ricci curvature

15:30-16:00 Coffee break

16:00-17:30 **Anthea Monod** Some ideas for algebraic topology and tropical geometry in statistics and machine learning

17:30-18:00 Alon Katz Distance Function for MEG Numerical Cognitive Tasks Trials

9:30-11:00 Kelin Xia Mathematical AI for molecular data analysis

11:00-11:30 Coffee break

11:30-13:00 Matthias Keller Dirichlet forms on graphs, intrinsic metrics and the heat equation

13:00-13:15 Closing & Good Bye