

# Schedule

Time&Date	Monday (February 17)	Tuesday (February 18)	Wednesday (February 19)	Thursday (February 20)	Friday ( February 21 )
7:30~8:30	Breakfast (60 minutes)				
Chair	Jie Wu	Rongling Wu	Jianzhong Pan	Fengchun Lei	Kefeng Liu
9:00-9:30	Rongling Wu(Online)	Vassily Gorbounov	Wojciech Chacholski	Haibao Duan	Shiping Liu
9:30-10:00	Carlile Lavor(Online)	Yulia Gel(Online)	Tamal Krishna Dey(Online)	Fengling Li	Thomas Wetere Tulu(Online)
10:00-10:30	Hongwei Lin	Theodore Papamarkou	Stephan Theriault	Quanming Yao	
10:30-11:00	Coffee Break(within 30 minutes)		Group Photo(10:40-11:00)	Coffee Break	
Chair	Stephan Theriault	Vassily Gorbounov	Wojciech Chacholski	Haibao Duan	
11:00-11:30	Claudia Landi	Shailesh Lal	Wenting Zhao(Online)	Yaqing Wang	
11:30-12:00	Xiaopei Jiao	Congwei Song	Minh Quang Le	Yunguang Yue	
12:00-14:00	Lunch Break (120 minutes)				
Chair	Hongwei Lin	Theodore Papamarkou	Free Discussion 13:30-17:00	Fengling Li	
14:00-14:30	Mingming Sun	Grigory Papayanov		Matthew Burfitt	
14:30-15:00	Wenqi Pan(Online)	Rui Dong		Zehua Lai(Online)	
15:00-15:30	Changjian Fa(Online)	Xiaomeng Xu		Xin Fu	
15:30-16:00	Coffee Break (within 30 minutes)			Coffee Break	
Chair	Claudia Landi	Shailesh Lal		Quanming Yao	
16:00-16:30	Yangyang Bian(Online)	Mathieu Carriere(Online)		Huiying Gong(Online)	
17:30-19:00	Dinner		Banquet 18:00-20:00	Dinner	

February 17, 2025, Monday

Time( 日期 )	Name( 报告人 )	Title( 报告题目 )
7:30~8:30	Breakfast (60 minutes)	
Chair	Jie Wu( 吴杰 )	
9:00-9:30	Rongling Wu( 邬荣领 ) (Online)	A statistical framework to unify Yau-Yau filter and GLMY homology
9:30-10:00	Carlile Lavor(Online)	Molecular Geometry described by the Conformal Model of 3D Space
10:00-10:30	Hongwei Lin( 蒯宏伟 )	Gestalt Computational Model Based on Persistence Homology
10:30-11:00	Coffee Break(within 30 minutes)	
Chair	Stephan Theriault	
11:00-11:30	Claudia Landi	Algebraic invariants for the topological analysis of vector fields
11:30-12:00	Xiaopei Jiao( 焦小沛 )	Yau-Yau filtering theory and novel algorithms based on deep learning
12:00-14:00	Lunch Break (120 minutes)	
Chair	Hongwei Lin( 蒯宏伟 )	
14:00-14:30	Mingming Sun( 孙明明 )	A Universal Representation for Language Analysis and Processing
14:30-15:00	Wenqi Pan( 潘文祺 ) (Online)	miRNA-miRNA interaction mediating leaf morphogenesis in <i>Populus euphratica</i>
15:00-15:30	Changjian Fa( 法昌健 ) (Online)	Double-Sparsity Linear Regression for Variable Selection and Parameter Estimation in IdopNetwork
15:30-16:00	Coffee Break (within 30 minutes)	
Chair	Claudia Landi	
16:00-16:30	Yangyang Bian( 边洋洋 ) (Online)	A mathematical strategy to map the genetic architecture of a single diplotype towards genome editing
17:30-19:00	Dinner	

February 18, 2025, Tuesday

Time( 日期 )	Name( 报告人 )	Title( 报告题目 )
7:30~8:30	Breakfast (60 minutes)	
Chair	Rongling Wu( 邬荣领 )	
9:00-9:30	Vassily Gorbounov	Geometry of Electric Networks and data analysis in phylogenetic
9:30-10:00	Yulia Gel(Online)	When Witnesses Defend: A Witness Graph Topological Layer for Adversarial Graph Learning
10:00-10:30	Theodore Papamarkou	Topological deep learning
10:30-11:00	Coffee Break(within 30 minutes)	
Chair	Vassily Gorbounov	
11:00-11:30	Shailesh Lal	Deep Learning Solutions of the Yang Baxter Equation
11:30-12:00	Congwei Song( 宋丛威 )	From the local mean to Transformer
12:00-14:00	Lunch Break (120 minutes)	
Chair	Theodore Papamarkou	
14:00-14:30	Grigory Papayanov	A criterion for 1-generatedness of A-infinity algebras and possible applications
14:30-15:00	Rui Dong( 董瑞 )	Fast Computation of the Up Persistent Laplacian for Pseudomanifolds and Cubical Complexes
15:00-15:30	Xiaomeng Xu( 徐潇萌 )	On $\ell_p$ -Vietoris-Rips Complexes
15:30-16:00	Coffee Break (within 30 minutes)	
Chair	Shailesh Lal	
16:00-16:30	Mathieu Carriere(Online)	Diffeomorphic interpolation for efficient persistence-based topological optimization
17:30-19:00	Dinner	

February 19, 2025, Wednesday

Time( 日期 )	Name( 报告人 )	Title( 报告题目 )
7:30~8:30	Breakfast (60 minutes)	
Chair	Jianzhong Pan( 潘建中 )	
9:00-9:30	Wojciech Chacholski	TDA in the Life Sciences
9:30-10:00	Tamal Krishna Dey(Online)	Gril: A 2-parameter Persistence Landscaping for Machine Learning
10:00-10:30	Stephan Theriault	Distributed computing and homotopy theory
10:30-11:00	Coffee Break & Group Photo(within 30 minutes)	
Chair	Wojciech Chacholski	
11:00-11:30	Wenting Zhao( 赵雯婷 ) (Online)	Reconstruction of facial shape from genetic variants
11:30-12:00	Minh Quang Le	Homology of Transient Convection cycles over Multiplex Markov chains
12:00-14:00	Lunch Break (120 minutes)	
Free Discussion 13:30-17:00		
18:00-20:00	Banquet	

February 20, 2025, Thursday

Time( 日期 )	Name( 报告人 )	Title( 报告题目 )
7:30~8:30	Breakfast (60 minutes)	
Chair	Fengchun Lei( 雷锋春 )	
9:00-9:30	Haibao Duan( 段海豹 )	Make Schubert Calculus Calculable
9:30-10:00	Fengling Li( 李风玲 )	A three-variable transcendental invariant of planar knotoids
10:00-10:30	Quanming Yao( 姚权铭 )	Knowledge-aware Parsimony Learning from Deep Networks
10:30-11:00	Coffee Break(within 30 minutes)	
Chair	Haibao Duan( 段海豹 )	
11:00-11:30	Yaqing Wang( 王雅晴 )	Few-Shot Learning in Drug Discovery
11:30-12:00	Yunguang Yue( 岳云光 )	Path homology of directed topological spaces
12:00-14:00	Lunch Break (120 minutes)	
Chair	Fengling Li( 李风玲 )	
14:00-14:30	Matthew Burfitt	Inductive construction of path homology chains
14:30-15:00	Zehua Lai( 赖泽华 )(Online)	Grassmannian and Flag Optimization: Algorithms and NP-hardness
15:00-15:30	Xin Fu( 付鑫 )	Path homology of digraphs without multisquares
15:30-16:00	Coffee Break (within 30 minutes)	
Chair	Quanming Yao( 姚权铭 )	
16:00-16:30	Huiying Gong( 龚慧莹 ) (Online)	Topological change of soil microbiota networks for forest resilience under global warming
17:30-19:00	Dinner	

February 21, 2025, Friday

Time( 日期 )	Name( 报告人 )	Title( 报告题目 )
7:30~8:30	Breakfast (60 minutes)	
Chair	Kefeng Liu( 刘克峰 )	
9:00-9:30	Shiping Liu( 刘世平 )	Curvature, perfect matching, and local symmetry of graphs
9:30-10:00	Thomas Wetere Tulu(Online)	Machine learning-based prediction of COVID-19 mortality using immunological and metabolic biomarkers
12:00-14:00	Lunch Break (120 minutes)	
17:30-19:00	Dinner	