

Symmetry 2025 - Conference Abridged Program

Day 1 (16 May, Friday)			
15:00~17:00 Registration			
Day 2 (17 May, Saturday)			
8:00~9:00 Registration			
9:00	Welcome Coffee and Networking		
	Zhonghao Hall		
9:30	Opening Ceremony		
9:45	Plenary talk 1		
10:25	Tea break		
10:50	Plenary talk 2		
11:30	Plenary talk 3		
12:10	Lunch		
	Qiujing Hall	Chunxiao Hall	Xiayu Hall
14:00	Physics 1	Chemistry 1	Engineering 1
15:30	Tea break		
16:00	Physics 2	Chemistry 2	Engineering 2
17:30	Poster Session		
18:30	Banquet Dinner		
Day 3 (18 May, Sunday)			
8:00~8:30 Registration			
	Qiujing Hall	Chunxiao Hall	Xiayu Hall
9:00	Physics 3	Mathmatics 1	Engineering 3
10:30	Tea break		
11:00	Physics 4	Mathmatics 2	Computer Science 1
12:30	Lunch		
14:00	Physics 5	Mathmatics 3	Computer Science 2
15:30	Tea break		
16:00	Physics 6	Mathmatics 4	Computer Science 3
17:30	Closing Remarks and Award Ceremony		
16:00	Buffet Dinner		
Day 4 (19 May, Monday)			
Dismiss and Free Activities			

Symmetry 2025 - Detailed Program

Opening Ceremony and Plenary Talks

Day 2 (17 May, Saturday) 9:00 - 12:10 | Zhonghao Hall

Time	Program	
9:30	Opening Ceremony	
9:45	Plenary talk 1	Symmetry and group action <i>Prof. Dr. Jiping Zhang</i> <i>Peking University, Beijing, China</i>
10:25	Tea break	
10:50	Plenary talk 2	A QCD phase diagram by a holographic model <i>Prof. Dr. Ronggen Cai</i> <i>Ningbo University, Ningbo, China</i>
11:30	Plenary talk 3	The unified universe history from modified gravity <i>Prof. Dr. Sergei D. Odintsov</i> <i>Institute of Space Sciences (IEEC-CSIC), Barcelona, Spain</i>

Day 2 (17 May, Saturday) 14:00 - 17:30 | Qiuqing Hall

Physics Session 1

Session chair: Prof. Shin'ichi Nojiri

14:00	Keynote	Testing parity violations in the gravitational sector: birefringence in fermion-attenuated gravitational wave power spectrum <i>Antonino Marciano (Fudan University, China)</i>
14:30	Invited	Holographic Correlators of Boundary/Crosscap CFTs in Two Dimensions <i>Song He (Ningbo University, China)</i>
14:50	Invited	Grand Unified Theories: testability in particle physics and cosmology <i>Ye-Ling Zhou (University of Chinese Academy of Sciences, China)</i>
15:10	Oral	To be announced
15:25	Oral	To be announced

Physics Session 2

Session chair: Prof. Haitang Yang

15:30	Keynote	Title: To be announced <i>Luca Visinelli (Shanghai Jiao Tong University, China)</i>
16:00	Invited	Exploring parity and Lorentz symmetry violations in gravity with astrophysical observations <i>Tao Zhu (Zhejiang University of Technology, China)</i>
16:20	Invited	When symmetries break! &mdash; The implications of symmetry breaking in fundamental physics <i>Andrew Fowlie (Xi'an Jiaotong-Liverpool University, China)</i>
16:40	Oral	To be announced
16:55	Oral	To be announced

Day 2 (17 May, Saturday) 14:00 - 17:30 | Chunxiao Hall

Chemistry Session 1

Session chair: Prof. György Keglevich

14:00	Keynote	Transition-Metal Catalyzed Desymmetrization to Access Different Organophosphorus <i>Shangdong Yang (Lanzhou University, China)</i>
14:30	Keynote	Behaviour of Related Structures and the Role of Solvents in Optical Resolution. <i>Jozsef Schindler (Budapest University of Technology and Economics, Hungary)</i>
15:00	Keynote	Molecular engineering self-assembled monolayers for perovskite solar cells <i>Weihua Tang (Xiamen University, China)</i>
15:30	Invited	Anion pillared metal-organic frameworks for gas separation <i>Yuanbin Zhang (Zhejiang Normal University, China)</i>

Chemistry Session 2

Session chair: Prof. Weihua Tang

16:00	Keynote	α-Hydroxyphosphonates, α-Hydroxyphosphine Oxides and their Derivatives <i>György Keglevich (Budapest University of Technology and Economics, Hungary)</i>
16:30	Keynote	Selected Optically Active Organic Compounds Containing Stereo- and/or Nonsterogenic Heteroatoms: Historical Aspects and Recent Results <i>Józef Drabowicz (University of Czestochowa, Poland)</i>
17:00	Invited	A Geometric Berry Phase Angle Induced in Im-3m H3S at 200 GPa by Ultra-fast Laser Pulses <i>Samantha Jenkins (Hunan Normal University, China)</i>
17:20	Invited	Chiral Perovskites and Their Chirality-Induced Spin Selectivity <i>Yin Xiao (Tianjin University, China)</i>
17:40	Oral	To be announced

Day 2 (17 May, Saturday) 14:00 - 17:30 | Xiayu Hall

Engineering Science Session 1
Session chair: Prof. Chong Wang

14:00	Keynote	Fractal operators with fractional orders in fractal spaces abstracted form biological systems <i>Yajun Yin (Tsinghua University, China)</i>
14:30	Keynote	Photoresponse and synapse characteristics of Ga₂O₃ based devices <i>Longxing Su (Dongguan University of Technology, China)</i>
15:00	Oral	To be announced
15:15	Oral	To be announced
15:30	Oral	To be announced

Engineering Science Session 2
Session chair: Prof. Deming Lei

16:00	Keynote	Title: To be announced <i>Jinsong Bao (Donghua University, China)</i>
16:30	Keynote	Distribution regulation of chaos based on offset boosting <i>Chunbiao Li (Nanjing University of Information Science & Technology, China)</i>
17:00	Invited	Title: To be announced <i>Waichon Lio (Beihang University China, China)</i>
17:20	Oral	To be announced

Day 3 (18 May, Sunday) 9:00 - 12:30 | Qiuqing Hall

Physics Session 3

Session chair: Prof. Yuxiao Liu

9:00	Keynote	Cosmological Non-Gaussianity and Neutrino Seesaw <i>Hong-Jian He (Shanghai Jiao Tong University, China)</i>
9:30	Invited	Unitarity and causality constraints on effective field theories <i>Anna Tokareva (University of Chinese Academy of Sciences, China)</i>
9:50	Invited	The post-Newtonian metric of a self-gravitating and collapsing thin spherical shell <i>Wenbin Lin (University of South China, China)</i>
10:10	Oral	To be announced
10:25	Oral	To be announced

Physics Session 4

Session chair: Prof. Shin'ichi Nojiri

11:00	Keynote	Progress on the open string pair production in Type II superstrings <i>Jianxin Lu (University of Science and Technology of China, China)</i>
11:30	Invited	Dark photon constraints from the APEX cavity haloscope experiment <i>Nick Houston (Beijing University of Technology, China)</i>
11:50	Invited	Compact Star Physics in F(R) Gravity <i>Taishi Katsuragawa (Central China Normal University, China)</i>
12:10	Oral	To be announced
12:25	Oral	To be announced

Day 3 (18 May, Sunday) 14:00 - 17:30 | Qiuqing Hall

Physics Session 5

Session chair: Prof. Yuxiao Liu

14:00	Keynote	Title: To be announced <i>Haitang Yang (Sichuan University, China)</i>
14:30	Invited	Title: Laboratory Constraints on Neutrinophilic Mediators Without Infrared Divergences <i>Yongchao Zhang, Southeast University, China</i>
14:50	Invited	Chiral Gravitational Wave Background: Generation and Detection <i>Yun-Long Zhang (National Astronomical Observatories, CAS, China)</i>
15:05	Oral	To be announced
15:20	Oral	To be announced

Physics Session 6

Session chair: Prof. Haitang Yang

16:00	Keynote	Geometric Origins of Yang-Mills In Flat Spacetime from Heterotic String <i>Hong Lv (Tianjin University, China)</i>
16:30	Keynote	The correspondence of generalised entropic cosmology theory with $f(T)$ and $f(Q)$ modified gravity and gravitational waves <i>Shin'ichi Nojiri (Nagoya University, Japan)</i>
17:00	Invited	Next-to-leading order corrections to the conserved current three-point correlators in the large N expansion <i>Zhijin Li (Southeast University, China)</i>
17:20	Invited	Black Hole Thermodynamics and Phase Transitions <i>Shaowen Wei (Lanzhou University, China)</i>
17:40	Oral	To be announced

Day 3 (18 May, Sunday) 9:00 - 12:30 | Chunxiao Hall

Mathematics Session 1

Session chair: Prof. Changzheng Qu

9:00	Keynote	Title: To be announced <i>Jihuan He (Soochow University, China)</i>
9:30	Invited	KP theory and infinite dimensional Lie algebras <i>Jipeng Cheng (China University of Mining and Technology, China)</i>
9:50	Invited	A Novel Model of Supply and Demand of Energy for Solar Farms in China <i>Samad Noeiaghdam (Henan Academy of Sciences, China)</i>
10:10	Oral	To be announced
10:25	Oral	To be announced

Mathematics Session 2

Session chair: Prof. Qingwen Wang

11:00	Keynote	Coseparable Nonnegative Tensor Factorization With T-CUR Decomposition <i>Yimin Wei (Fudan University, China)</i>
11:30	Invited	Dual-Valued Functions of Dual Matrices with Applications in Causal Emergence <i>Weiyang Ding (Fudan University, China)</i>
11:50	Oral	To be announced
12:05	Oral	To be announced
12:20	Oral	To be announced
12:35	Oral	To be announced

Day 3 (18 May, Sunday) 14:00 - 17:30 | Chunxiao Hall

Mathematics Session 3

Session chair: Prof. Shoufeng Shen

14:00	Keynote	Nonlocal symmetries of integrable systems <i>Senyue Lou(Ningbo University, China)</i>
14:30	Invited	Recent advances in Aharonov-Bohm extended electrodynamics <i>Giovanni Modanese (Free University of Bozen-Bolzano, Italy)</i>
14:50	Oral	To be announced
15:05	Oral	To be announced
15:20	Oral	To be announced

Mathematics Session 4

Session chair: Prof. Qingwen Wang and Prof. Shoufeng Shen

16:00	Keynote	Title: To be announced <i>Yang Zhang</i>
16:30	Invited	To be announced
16:50	Oral	To be announced
17:05	Oral	To be announced
17:20	Oral	To be announced
17:35	Oral	To be announced

Day 3 (18 May, Sunday) 9:00 - 12:30 | Xiayu Hall

Engineering Science Session 3

Session chair: Prof. Chong Wang and Prof. Deming Lei

9:00	Keynote	Modeling of the Discrete Memristor and Its Applications: An Anticipation <i>Shaobo He (Xiangtan University, China)</i>
9:30	Invited	Title: To be announced <i>Jingcao Cai (Anhui Polytechnic University, China)</i>
9:50	Invited	To be announced
10:10	Oral	To be announced
10:25	Oral	To be announced
10:40	Oral	To be announced

Computer Science Session 1

Session chair: Prof. Hu Xiong

11:00	Keynote	RESEARCHES ON THE DEFENSES AND OUT-OF-DISTRIBUTION DETECTION IN TRUSTWORTHY DEEP LEARNING <i>Jie Yang (Shanghai Jiaotong University, China)</i>
11:30	Keynote	Title: To be announced <i>Kuo-Hui Yeh (National Yang Ming Chiao Tung University, Taiwan)</i>
12:00	Oral	To be announced
12:15	Oral	To be announced
12:30	Oral	To be announced

Day 3 (18 May, Sunday) 14:00 - 17:30 | Xiayu Hall

Computer Science Session 2
Session chair: Prof. Kuo-Hui Yeh and Prof. Hu Xiong

14:00	Keynote	ZEROS FOR DATA SCIENCE <i>Yanxi Liu (Penn State University, USA)</i>
14:30	Invited	Symmetry Features in Space Target Radar Detection and Imaging <i>Junling Wang (Beijing Institute of Technology, China)</i>
14:50	Oral	To be announced
15:05	Oral	To be announced
15:20	Oral	To be announced

Computer Science Session 3
Session chair: Prof. Kuo-Hui Yeh

16:00	Keynote	Provably Secure Searchable Symmetric Encryptions: Definition, Construction, Attacks and Defenses <i>Jianting Ning (Wuhan University, China)</i>
16:30	Keynote	Title: To be announced <i>Hu Xiong (University of Electronic Science and Technology of China, China)</i>
17:00	Oral	To be announced
17:15	Oral	To be announced
17:30	Oral	To be announced