

TSVP Symposium
Aspects of Generalized Symmetries
June 16-20, 2025

Day 1 (June 16th)				
9:15	15	Welcome Coffee + Registration		
OPENING				
9:30	5	Jonas Fischer	OIST	Welcome to OIST
9:35	5	Danny Bulmash	United States Naval Academy	Opening remarks
Morning Session - Lattice Aspects of Generalized Symmetries				
9:40	45	Sheng-jie Huang	University of Oxford	Magic state preparation with the aid of non-Abelian topological order
10:25	45	Hiromi Ebisu	Kyoto University	Foliated field theory and modulated symmetry
11:10	15	Break (Group Photo)		
11:25	45	Sal Pace	MIT	Lattice T-duality from non-invertible symmetries in quantum spin chains
12:10	80	Lunch		
Afternoon Session - Open Quantum Systems				
13:30	45	Cenke Xu	UCSB	“Symmetry from Anomaly” in Condensed Matter related Models
14:15	45	Zhu-Xi Luo	Georgia Institute of Technology	Tensor Network Representation of Intrinsically Mixed-State Topological phases
15:00	30	Coffee Break		
15:30	45	Marvin Qi	University of Chicago	Equivalence of Gapless, Gapped, and Mixed SPTs From SymTFT
		Discussion		
18:00	5	Taxi leaves		
Day 2 (June 17th)				
9:15	15	Morning Coffee		
Morning Session - Applications to Magnetism and Materials				
9:30	45	Han Yan	The University of Tokyo	Designing Light in an Artificial Universe of QED
10:15	45	Sungbin Lee	KAIST	Exotic quantum phases in quasiperiodic systems
11:00	15	Break		
11:15	45	Haruki Watanabe	The University of Tokyo	General Properties of Frustration-Free Quantum Many-Body Systems
12:00	90	Lunch		
Poster Session				
13:30				
15:00	30	Coffee Break		
18:00	5	Dinner at the atrium outside of the seminar hall		

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Day 3 (June 18th) @L4E48					
9:15	15	Morning Coffee			
Morning Session - Dualities					
9:30	45	Luisa Eck	University of Oxford	Dualities between 2+1d fusion surface models from braided fusion categories	Chair: Sal Pace
10:15	45	Masahito Yamazaki	The University of Tokyo	Dualities and Exact Quantum Many-Body Scars	
11:00	90	Lunch Break			
Excursion					
12:30		Bus leaves from OIST Auditorium			
13:30		Churaumi Aquarium			
15:30		Helios-Shuzo Brewery Tour			
17:30		Banquet dinner @ Oriental Hotel			
20:00		Bus arrives at OIST Auditorium			

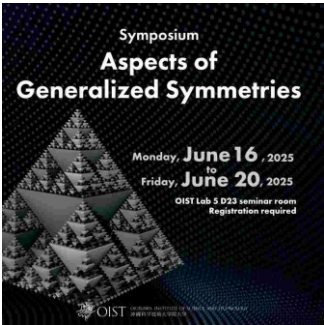
Day 4 (June 19th)					
9:15	15	Morning Coffee			
Morning Session - Unconventional Quantum Phases					
9:30	45	Pranay Gorantla	University of Chicago	<i>p-string condensation as gauging a 1-form symmetry</i>	Chair: Masahito Yamazaki
10:15	45	Kansei Inamura	University of Oxford	<i>Generalized gauging on the lattice and gapped phases with non-invertible symmetries in 2+1d</i>	
11:00	15	Break			
11:15	45	Ryohei Kobayashi	Institute for Advanced Study	<i>Generalized symmetry in quantum codes: Logical gates in Z2 gauge theory</i>	
12:00	85	Lunch			
Afternoon Session - Quantum Dynamics					
13:30	45	Pranay Patil	OIST	<i>Anomalously slow equilibration under dipole moment conserving dynamics</i>	Chair: Marvin Qi
14:15	45	Chihiro Matsui	The University of Tokyo	<i>Weak ergodicity breaking and embedded integrability</i>	
15:00	30	Coffee Break			
Public Talk @L4E48					
15:30	60	Zhu-Xi Luo	Georgia Institute of Technology	<i>Generalized Symmetries in Quantum Matter</i>	
18:00	5	Dinner at the atrium outside of the seminar hall			

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Day 5 (June 20th)					
9:15	15	Morning Coffee			
Morning Session - Modulated Symmetries and Other Topics					
9:30	45	Junghun Han	Sungkyunkwan University	Noninvertible Symmetry in 1D SPT Models with Modulated Symmetries	Chair: Han Yan
10:15	45	Masaki Oshikawa	The University of Tokyo	TBA	
Closing					
11:00	5	Closing remarks			
18:00	5	Taxi leaves			



Event website (abstracts)👉



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Poster Presenters

1	Haruki Yagi	<i>The University of Tokyo</i>	On universality classes of typical entanglement under symmetries
2	Zhian Jia	<i>National University of Singapore</i>	Lattice model for non-invertible symmetry-protected topological phase
3	Stephan Haas	<i>University of Southern California</i>	Interactions and Disorder in Topological Quantum Systems
4	Takuma Saito	<i>Kyoto University</i>	Classifying formula for 1D abelian multipole SPT
5	Yoshiki Fukusumi	<i>National center for theoretical sciences</i>	Series of exotic (or new) coupled models and domain walls from extension of conformal field theories
6	Sumiran Pujari	<i>Indian Institute of Technology Bombay</i>	<<Anticommuting>> Z2 quantum spin liquids
7	Pochung Chen	<i>National Tsing Hua University</i>	Extracting conformal data via tensor network methods
8	Nagare Katayama	<i>Kyoto University</i>	2d Cardy-Rabinovici model with Modified Villain lattice formulation
9	Jun Maeda	<i>Kyoto University</i>	Twisted Partition Functions as Order Parameters
10	Tsubasa Oishi	<i>Kyoto University</i>	N-ality symmetry and SPT phases in 1+1d
11	Shunta Takahashi	<i>Kyoto University</i>	Anyon Condensation in Quantum Gravitational TQFT
12	Yuki Furukawa	<i>The University of Tokyo</i>	Lattice models with subsystem/weak non-invertible symmetry-protected topological order
13	Michele Fossati	<i>SISSA</i>	Entanglement asymmetry for non-invertible symmetries
14	Saswato Sen	<i>OIST</i>	Critical phenomena in hyperbolic lattices