

# PROGRAM

22nd (Thu) August

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## Morning I

- (1) 09:00-09:45: Li Li: Exploring hot and dense QCD by holography
- (2) 09:55-10:40: Masataka Matsumoto: Nonlinear conducting in holographic Weyl semi-metal from probe branes

[Break]

- 10:40 - 11:05

## Morning II

- (3) 11:05-11:50: Keun-Young Kim: Deep learning bulk spacetime from boundary quantum data

[Lunch]

- 11:50-13:50:

## Afternoon I

- (4) 13:50-14:35: Hai-Qing Zhang: Holographic Kibble-Zurek Mechanism with various symmetry breakings

[Break]

- 15:30-15:55

## Afternoon II

- (5) 15:55-16:40: Shuta Ishigaki: A domain wall solution in the D3-D7 model with magnetic catalysis
- (6) 16:50-17:35: Dipankar Barman: Entanglement Harvesting in Accelerated Systems:  
Field Temperature and Boundary Effects

**23rd (Fri) August**

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**Morning I**

- (7) 09:00-09:45: Keun-Young Kim: Comments on quantum chaos and quantum billiard  
(8) 09:55-10:40: Yasuaki Hikida: Semi-classical saddles of three-dimensional gravity via holography

**[Break]**

- 10:40 - 11:05

**Morning II**

- (9) 11:05-11:50: Bogeun Gwak: Fluxes of Scalar Field in Scattering to Rotating AdS Black Holes

**[Lunch]**

- 11:50-13:50:

**Afternoon I**

- (10) 13:50-14:35: Yuping An: Interface Dynamics of Strongly interacting Binary Superfluids  
(11) 14:45-15:30: Surojit Dalui: Chaos and Instability in Black Hole Thermodynamics:  
Unravelling the Temperature Mystery

**[Break]**

- 15:30-15:55

**Afternoon II**

- (12) 15:55-16:15: Hyewon Han: Effects of fluctuations on higher-dimensional black holes  
(13) 16:20-16:40: Junbeom Ko: Thermodynamic relation on corrected de Sitter Black holes

24th (Sat) August

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**Morning I**

(14) 09:00-09:45: Junghun Lee: Holographic RG flows on Magnetic Brane solutions

(15) 09:55-10:40: Chanyong Park: IR physics from the holographic RG flow

[Break]

- 10:40 - 11:05

**Morning II**

(16) 11:05-11:50: Matteo Baggioli: Go with the flow,  
hydrodynamic theory of electrically driven non-equilibrium steady states

[Lunch]

- 11:50-13:50:

**Afternoon I**

(17) 13:50-14:35: Yunseok Seo: Construction of Superconducting Dome and Emergence of Quantum Critical Region  
in Holography

(18) 14:45-15:30: Ryo Yokokura: Generalized chiral instabilities, linking numbers, and non-invertible symmetries

[Break]

- 15:30-15:55

**Afternoon II**

(19) 15:55-16:15: Hwajin Eom: Wheeler-deWitt equation for AdS black holes

(20) 16:20-16:40: Sejin Kim: Searching for Holographic Superconductors

25th (Sun) August

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**Summary Discussion I**

10:35-11:20:

[Lunch]

- 11:20-12:55

**Summary Discussion II**

13:50-15:30

**26th (Mon) August**

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**Morning I**

- (21) 09:00-09:45: Daniele Bielli: JT Gravity from non-Abelian T-duality  
(22) 09:55-10:40: Tomoki Nosaka: Large N expansion of superconformal indices of M2-branes

**[Break]**

- 10:40 - 11:05

**Morning II**

- (23) 11:05-11:50: Peng-Zhang He: Krylov complexity of free scalar field theory

**[Lunch]**

- 11:50-13:50:

**Afternoon I**

- (24) 13:50-14:35: Seiji Terashima: Bulk Reconstruction and Gauge Invariance  
(25) 14:45-15:30: Masataka Watanabe: Physics of the Split Property

**[Break]**

- 15:30-15:55

**Afternoon II**

- (26) 15:55-16:15: Tian-Chi Ma: Asymmetric Symmetry Breaking: Unequal Probabilities of Vacuum Selection  
(27) 16:20-16:40: Yu-Qi Lei: Thermodynamic Stability Versus Chaos Bound Violation in Charged Black Hole