

2025 APCTP Focus Program on the Mesoscopic Physics:  
Present Challenges and Future Opportunities

**Schedule** ([Seminar room No. 512](#))

**24 August (Sun)**

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Late afternoon–      **Arrival & Check-in (PIC Hotel)**

**25 August (Mon):**

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**All talks are 50 min + 10 min for discussion**

08:50 – 09:20      Registration

09:20 – 09:40      Opening address:

09:40 – 10:40      **Masayuki Hashisaka** (ISSP, Univ. of Tokyo)  
*Edge Transport in Quantum Hall Systems*

10:40 – 11:10      Coffee

11:10 – 12:10      **Heung-Sun Sim** (KAIST)  
*Time-domain braiding of diluted anyons*

14:00 – 15:00      **Myung-Ho Bae** (KRISS)  
*Manipulation of single electrons in a energy-time phase Space*

15:00 –              Coffee & Free Discussion

**26 August (Tue) :**

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**All talks are 50 min + 10 min for discussion**

09:30 – 10:30      **Yong-Joo Doh** (GIST)  
*Bimodal switching current distributions in topological insulator*

10:30 – 11:00      Coffee

11:00 – 12:00      **Kensuke Kobayashi** (Univ. of Tokyo)  
*Quantum Spin Microscope for Condensed Matter Physics*

14:00 – 15:00      **Hyung-Kook Choi** (Jeonbuk National University)  
*Entropy and Kondo effect in double quantum dot systems*

15:00 – 15:30      Coffee

15:30 – 17:00      **Poster Session**

**27 August (Wed) :**

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	<b>All talks are 50 min + 10 min for discussion</b>
09:30 – 10:30	<b>Yunchul Chung</b> (Pusan National University) <i>Fabry– Perot Interference in Open Cavities and Methods for Effective Quantum Dot Tuning</i>
10:30 – 11:00	Coffee
11:00 – 12:00	<b>Yasuhiro Utsumi</b> (Mie University) <i>Quantum Transport Theory of Chirality–Induced Spin Selectivity</i>
14:00 – 15:00	<b>Junho Suh</b> (POSTECH) <i>Experiments with mechanical oscillators in the quantum regime</i>
15:00 – 15:30	Coffee
15:30 – 16:30	<b>Shuichi Iwakiri</b> (Tsukuba) <i>Gate–defined quantum interferometer in twisted bilayer graphene</i>
18:00 – 20:30	<b>Banquet</b> ( <u><i>Bus will depart on 17:30</i></u> )

**28 August (Thu) :**

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	<b>All talks are 50 min + 10 min for discussion</b>
09:30 – 10:30	<b>Kazuaki Takasan</b> (Univ. Tokyo) <i>Floquet Physics in Superconductors</i>
10:30 – 11:00	Coffee
11:00 – 12:00	<b>Kicheon Kang</b> (Chonnam National University) <i>Quantum foundation and the vacuum photons in mesoscopic systems</i>
14:00 – 15:00	<b>Gil–Ho Lee</b> (POSTECH) <i>Mesoscopic Superconducting Hybrid Devices with Graphene and Topological Materials: Experimental Insights</i>
15:00 –	Coffee & Free Discussion

29 August (Fri) :

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	All talks are 50 min + 10 min for discussion
09:30 – 10:30	<b>Tsuyoshi Yamamoto</b> (CEA Grenoble) <i>Quantum heat transport across dissipative quantum phase transitions</i>
10:30 – 11:00	Coffee
11:00 – 12:00	<b>Hee Chul Park</b> (Pukyung National University) <i>Quantum chaos on the lattice</i>
12:00	Closing

무은재기념관 세미나실 512호

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