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Map



SRC Winter Workshop on Quantum Coherence & Topological Matter



Phoenix Park Resort / Feb. 2-4, 2017

Organized by

Center for Topological Matter (POSTECH)

Center for Quantum Coherence
in Condensed Matter (KAIST)

Under the auspices of

National Research Foundation of Korea (NRF)

Feb. 2

– 13:50 Arrivals and Registration

13:50 – 14:00 Welcoming Remark – Director

14:00 – 14:45
Philip Kim (Harvard University, USA)
“Correlated electrons in graphene”

14:45 – 15:30
Michihisa Yamamoto (University of Tokyo, Japan)
“Graphene-based valleytronics and superconductor electronics”

15:30 – 15:45 Coffee Break

15:45 – 16:30
Stevan Nadj-Perge (California Institute of Technology, USA)
“Majorana bound states in atomic structures”

16:30 – 17:15
Tomoki Machida (Institute of Industrial Science, University of Tokyo, Japan)
“Quantum transport in van der Waals junctions of graphene and 2D materials”

17:20 – 18:50 Poster Session

19:00 – 21:00 Banquet

10:40 – 11:25

Wang Yao (The University of Hong Kong, China)
“Valley-spintronics in 2D semiconductors: from monolayer to heterobilayer Moire”

11:25 – 12:00

Jieun Lee (Ajou University, Korea)
“Manipulating valley transport in 2D transition metal dichalcogenides”

12:00 – 12:35

Hyunyoung Choi (Yonsei University, Korea)
“Terahertz investigation of Dirac plasmons in the topological insulator Bi_2Se_3 ”

12:40 – 18:00 Lunch & Ski Break

18:00 – 19:00 Dinner

19:30-20:05

Donghun Lee (Korea University, Korea)
“SPM based on diamond defect centers for possible usage in mesoscopic physics”

20:05-20:40 **SRC highlight**

Yong-Joo Doh (GIST, Korea)
“Strong superconducting proximity effects in semiconductor nanowires”

20:40-21:15 **SRC highlight**

Tae-Hwan Kim (POSTECH, Korea)
“Switching Chiral Solitons for Z_4 Topological Logic Operations”

Feb. 3

9:00 – 9:45
Yulin Chen (Clarendon Laboratory, University of Oxford, UK)
“Visualizing Electronic Structures of Topological Quantum Materials”

9:45 – 10:20
Jeil Jung (University of Seoul, Korea)
“Carrier density and strain tunable magnetism in 2D transition metal chalcogenides”

10:20 – 10:40 Coffee Break

Feb. 4

9:00-12:30 **SRC Internal meetings**

(Hotel 2nd Floor Diamond Hall)

- Progress report of Center for Topological Matter

(Hotel 2nd Floor Emerald Hall)

- Progress report of Center for Quantum Coherence in Condensed Matter