

2017/8/17 (THU) Quantum Transport Workshop

09:50-10:00 **Registration** B106 演講廳 (中研院跨領域科技研究大樓 1 樓)

10:00-10:30 陳煜璋教授 (NCTU)
Thermoelectric properties in nanoscale junctions

10:30-11:00 包淳偉教授 (Academia Sinica)
Why Nanostructures Self-fold during Focused Ion Beam Processes?

11:00-11:30 蔡政達教授 (NTU)
Recent Advances in Thermally-Assisted-Occupation Density Functional Theory (TAO-DFT)

11:30-12:00 許良彥教授 (Academia Sinica)
Light-Driven Electron Transport through Molecular Junctions

12:00-13:00 午餐

13:00-13:30 唐士雄教授 (NUU)
Transport signatures of top-gate bound states with strong Rashba-Zeeman effect

13:30-14:00 陳穎叡教授 (NTNU)
Electron Transport through Polyene Junctions in between Carbon Nanotubes: Theoretical Study and Ab Initio Realization

14:00-14:30 唐毓慧教授 (NCU)
Spin transport calculation in spin-filter based magnetic junctions

14:30-15:00 張勝琳博士 (NCTU)
The thermoelectric properties of Ni-DNA

15:00-15:10 茶歇

15:10-15:40 郭錦龍教授 (NTU)
First-principles Study of the Reduction Mechanisms of Ethylene Carbonate on the Amorphous Lithiated Surfaces of Silicon Anodes in Li ion Battery

15:40-16:10 張泰榕教授 (NCKU)
Topological materials: insulator, semimetal, and superconductor

16:10-16:40 張景皓博士 (Leibniz Institute for Solid State and Materials Research, Germany)
Giant anisotropic magnetoresistance due to snake orbits in carbon nanoscrolls

16:40-17:10 關肇正教授 (Academia Sinica)
Conductance of Single Peptide Molecules with Copper-Ion or Bisphenol-A Binding

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