

# 2024 QFort Workshop

04.15 - 04.17 Conference Center, B1, Main Library, NCKU

## Program

15 Apr., 2024 Monday		
Time	Speaker	Title
08:30-09:00	Registration	
09:00-09:15	Opening Remarks- Prof. Hong-Chen Chen (Vice President, NCKU) & Prof. Meng-Fan Luo (Director General, NSTC)	
Low-temperature physics <b>Chairman: Prof. Chii-Dong Chen (AS)</b>		
09:15-09:55	Paul Ching-Wu Chu (University of Houston, USA)	Recent advances from high-temperature to room-temperature superconductivity
10:00-10:30	Chien-Lung Huang (NCKU)	Non-Fermi-liquid behavior close to a ferromagnetic quantum critical point
10:30-10:55	Tea Break	
Superconducting Qubits <b>Chairman: Prof. Tse-Ming Chen (NCKU)</b>		
10:55-11:35	William Oliver (MIT, USA)	Giant Artificial Atoms and Molecules: Chiral Photon Emission and Absorption via wQED
11:40-12:10	Chii-Dong Chen (AS)	Optimizing Quantum Gates for a 1D Chain of Directly Coupled Transmon Qubits
12:15-12:45	Yen-Hsiang Lin (NTHU)	Recent developments of fluxonium type superconducting qubits
12:45-14:10	Lunch	
Quantum materials & theory <b>Chairman: Prof. Yueh-Nan Chen(NCKU)</b>		
14:10-14:40	Wei-Min Zhang (NCKU)	Breakdown of causality and emergence of entanglement in the quantum realm
14:45-15:15	Tay-Rong Chang (NCKU)	Feature-energy duality of topological boundary states in multilayer quantum spin Hall insulator
15:15-15:30	Tea Break	
15:30-17:00	Poster Session / Board Members Meeting	