高亮度同步輻射光源在量子材料之研究契機
The emergent opportunity for scientific research on quantum materials by high brilliance synchrotron light sources

<u>Date</u>: January 16 (Mon.), 2023
<u>Venue</u>: CH36308, NCKU

Session A (09:30 – 11:45)	
Time	**Title / Speaker**
Chair: Tzu-Hung Chuang, NSRRC	
09:30 - 09:35	Opening Remarks **Der-Hsin Wei** (魏德新)**, NSRRC**
09:35 - 09:55	Characterization and Manipulation of Complex Oxide Architectures via Synchrotron Radiation **Jan-Chi Yang** (楊展其)**, NCKU**
09:55 - 10:15	The Electronic Structure of Layered Quantum Materials Studied with Angle-resolved Photoemission Spectroscopy **Cheng-Maw Cheng** (鄭澄懋)**, NSRRC**
10:15 - 10:35	Study of Diluted Magnetic Oxide Using Hard X-ray Photoemission with Bulk and Orbital Sensitivity **Jung-Chun Huang** (黃榮俊)**, NCKU**
10:35 - 10:45	Break (10 mins)
Chair: Ashish Atma Chainani, NSRRC	
10:45 - 11:05	Dirac Nodal Line in Hourglass Semimetal Nb_3SiTe_6 *(online)* **Ro-Ya Liu** (劉若亞)**, NSRRC**
11:05 - 11:25	Quantum Materials in the Spotlight of Momentum Microscopy: From Symmetry to Topology **Christian Tusche, Forschungszentrum Jülich, Germany**
11:25 - 11:45	Electronic Structures of Topological Materials **Tay-Rong Chang** (張泰榕)**, NCKU**
11:45 – 16:10	Lunch & Plenary Talks

Session B (16:10 – 18:05)	
Time	Title / Speaker
Chair: Tzu-Hung Chuang, NSRRC	
16:10 - 16:30	Probing the Electronic and Chemical Structures of 2D Materials by Soft X-ray Spectroscopy Techniques **Chia-Hao Chen** (陳家浩)**, NSRRC**
16:30 - 16:50	Resonant Tunneling and Negative Differential Resistance in 2D Quantum Transistors **Yann-Wen Lan** (藍彥文)**, NTNU**
16:50 - 17:10	Exciton and Phonon Excitations of Cuprate Superconductors Studied by RIXS **Hsiao-Yu Huang** (黃筱妤)**, NSRRC**
17:10 - 17:20	Break (10 mins)
Chair: Chia-Hao Chen, NSRRC	
17:20 - 17:40	The Modeling Quantum Many-body Calculation to Analyze Soft X-ray Absorption Spectroscopy **Chang-Yang Kuo** (郭昌洋)**, NYCU**
17:40 - 18:00	Probing 2D Materials with Photoelectron Momentum Microscopy at TPS 27A2 **Tzu-Hung Chuang** (莊子弘)**, NSRRC**
18:00 - 18:05	Closing Remarks **Chia-Hao Chen** (陳家浩)**, NSRRC**