

# Program

## Day 0 / June 1

15:00-20:00	<b>Registration</b>
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## Day 1 / June 2

08:00-08:40	<b>Registration</b>
08:40-09:00	<b>Opening remarks</b>
09:00-09:30	<b>Noise Impact on Gate Fidelity and Dephasing in Si</b> <i>Seigo Tarucha</i> , RIKEN, Japan
09:30-10:00	<b>Majorana zero mode for topological quantum computing</b> <i>Jinfeng Jia</i> , Shanghai Jiao Tong University, China
10:00-10:30	<b>Ge hole quantum devices with suppressed charge noise</b> <i>Ji-Yin Wang</i> , Beijing Academy of Quantum Information Sciences, China
10:30-11:00	<b>Coffee break</b>
11:00-11:30	<b>Quantum Computation with Spins in Silicon — Coherence, Integration, and Scale</b> <i>Xiao Xue</i> , Hefei National Laboratory, China
11:30-12:00	<b>Josephson effect with topological degeneracy</b> <i>Jian Li</i> , Westlake University, China
12:00-13:30	<b>Lunch</b>
13:30-14:00	<b>More is different: the beauty of multiband in iron-based superconductors</b> <i>Hong Ding</i> , Shanghai Jiao Tong University, China
14:00-14:30	<b>Recent Progress on Silicon Quantum Dot Quantum Computing</b> <i>Guo-Ping Guo/Baochuan Wang</i> , University of Science and Technology of China, China
14:30-15:00	<b>Parity Read-out of a minimal Kitaev chain</b> <i>Gorm Steffensen</i> , Madrid Institute of Materials Sciences, Spain
15:00-15:30	<b>Enhanced Majorana protection in a quantum dot Kitaev chain device</b> <i>Chunxiao Liu</i> , Shanghai Jiao Tong University, China
15:30-16:00	<b>Coffee break / Poster session</b>
16:00-16:30	<b>Semiconductor spin qubits for optical quantum networking</b> <i>Akira Oiwa</i> , The University of Osaka, Japan

16:30-17:00	<b>Ultrastrong coupling and coherent dynamics in an InAs-Al gatemon qubit</b> <i>Eduardo Lee</i> , Autonomous University of Madrid, Spain
17:00-17:30	<b>Coexisting topological hinges and 1D Rashba states in Bi<sub>0.97</sub>Sb<sub>0.03</sub> revealed by the Josephson effect</b> <i>Chuan Li</i> , University of Twente, the Netherlands
17:30-18:00	<b>Robust Majorana Platform Driven by a Meissner-Induced Inhomogeneous Doppler Shift</b> <i>Xin Liu</i> , Shanghai Jiao Tong University, China

### Day 2 / June 3

08:30-09:00	<b>Emergent Topology from Landau Level Mixing in Quantum Hall-Superconductor Nanostructures</b> <i>Alfredo Levy Yeyati</i> , Autonomous University of Madrid, Spain
09:00-09:30	<b>Probing the dominant noise source of a spin qubit near vanishing decoherence field gradient in <sup>28</sup>Si/SiGe</b> <i>Dohun Kim</i> , Seoul National University, South Korea
09:30-10:00	<b>Tailoring nanoscopic phenomena for optimal spin qubit operation</b> <i>Jose Carlos Abadillo-Uriel</i> , Madrid Institute of Materials Sciences, Spain
10:00-10:30	<b>Coffee break / Poster session</b>
10:30-11:00	<b>Si-based quantum wires and wells for quantum computing</b> <i>Jianjun Zhang</i> , Institute of Physics, CAS, China
11:00-11:30	<b>Growth and Application of Si-Based Semiconductor Quantum Computing Materials</b> <i>Guilei Wang</i> , Beijing Superstring Academy of Memory Technology, China
11:30-12:00	<b>In Situ Epitaxy of High-Quality Semiconductor-Superconductor Heterostructure Nanowires and Nanowire Networks</b> <i>Dong Pan</i> , Institute of Semiconductors, CAS, China
12:00-13:30	<b>Lunch</b>
13:30-14:00	<b>Shortcuts to adiabaticity for longitudinal spin-photon interfaces in quantum dots</b> <i>Xi Chen</i> , Madrid Institute of Materials Sciences, Spain
14:00-14:30	<b>Correlated charge noise in semiconductor quantum dot devices</b> <i>Wister Wei Huang</i> , National University of Singapore, Singapore
14:30-15:00	<b>Measuring the current-phase relation in Josephson junction using superconducting resonators</b> <i>Martin Berke</i> , Budapest University of Technology and Economics, Hungary

15:00-15:30	<b>Characterization of low-energy states in Kitaev chains</b> <i>Ruben Seoane Souto</i> , Madrid Institute of Materials Sciences, Spain
15:30-16:00	<b>Coffee break / Poster session</b>
16:00-16:30	<b>The integration of quantum dots toward scalable semiconductor spin qubits</b> <i>Xiao-Fei Liu</i> , Beijing Academy of Quantum Information Sciences, China
16:30-17:00	<b>Universal Logical Operations and Quantum Error Detection in a Silicon Quantum Processor</b> <i>Yu He</i> , Shenzhen International Quantum Academy, China
17:00-17:30	<b>Superconducting Quantum Interference Devices based on InSb Nanoflag Josephson Junctions</b> <i>Stefan Heun</i> , Istituto Nanoscienze-CNR, Italy
17:30-18:00	<b>Poster pitch session*</b>
18:00-20:00	<b>Poster session**</b>

\*In this session, each presenter shall give a 1-minute brief introduction to his/her poster with 1 or 2 slides. Then, we have open discussions in the followed poster session.

\*\*Light food and drinks will be served.

### Day 3 / June 4

08:30-09:00	<b>Experimental exploration of the Fu-Kane scheme for topological quantum computation</b> <i>Li Lu</i> , Institute of Physics, CAS, China
09:00-09:30	<b>Experiments on Kitaev chains in semiconductor–superconductor hybrids</b> <i>Francesco Zatelli</i> , Delft University of Technology, the Netherlands
09:30-10:00	<b>Gate- and Microwave-Controlled Josephson Transport in III-V Semiconductor Hybrid Josephson Devices</b> <i>Xingjun Wu</i> , Beijing Academy of Quantum Information Sciences, China
10:00-10:30	<b>Coffee break</b>
10:30-11:00	<b>Quantum entanglement between NV centers and their application</b> <i>Ya Wang</i> , University of Science and Technology of China, China
11:00-11:30	<b>Hamiltonian estimation in semiconductor spin qubits</b> <i>Jeroen Danon</i> , Norwegian University of Science and Technology, Norway
11:30-12:00	<b>Superconducting spin qubits</b> <i>Ramon Aguado</i> , Madrid Institute of Materials Sciences, Spain
12:00-12:10	<b>Closing remarks</b>
12:10-14:00	<b>Lunch</b>
14:00-18:00	<b>Lab tour &amp; Networking activities</b>