



제 31회 한국반도체학술대회

The 31st Korean Conference on Semiconductors

2024년 1월 24일(수)-26일(금) | 경주화백컨벤션센터(HICO)

2024년 1월 25일(목), 15:30-17:15

Room L(206), 2층

V. Quantum Technology 분과

[TL3-V] Solid State Quantum Technology

좌장: 이동현 교수(고려대학교), 차진웅 선임연구원(표준과학연구원)

초청발표 TL3-V-1 15:30-16:00	Cryo-CMOS Controller for Superconducting Quantum Processor Jae-Yoon Sim POSTECH
초청발표 TL3-V-2 16:00-16:30	Fast Calibration and Error Mitigation Applied to Spin Qubits in Silicon Dohun Kim ^{1,2} ¹ Department of Physics and Astronomy, Seoul National University, ² Institute of Applied Physics, Seoul National University
TL3-V-3 16:30-16:45	Implementation of Zero-noise Extrapolation in ²⁸ Si/SiGe Spin Qubits Jaewon Jung ¹ , Hanseo Sohn ¹ , Jaemin Park ¹ , Hyeongyu Jang ¹ , Lucas E. A. Stehouwer ² , Davide Degli Esposti ² , Giordano Scappucci ² , and Dohun Kim ¹ ¹ Department of Physics and Astronomy, Seoul National University, ² QuTech and Kavli Institute of Nanoscience, Delft University of Technology
TL3-V-4 16:45-17:00	Closed-loop Feedback and Sensor Dot Decoupling Technique for Suppressing Charge Noise in ²⁸ Si/SiGe Spin Qubit Hyeongyu Jang ¹ , Jaemin Park ¹ , Hanseo Sohn ¹ , Lucas E. A. Stehouwer ² , Davide Degli Esposti ² , Giordano Scappucci ² , and Dohun Kim ¹ ¹ Department of Physics and Astronomy, Seoul National University, ² QuTech and Kavli Institute of Nanoscience, Delft University of Technology
TL3-V-5 17:00-17:15	A Multi-physics Analysis to Calculate Energy Dissipation in Superconducting Qubit Systems with Continuum Mechanics Sung-Hyun Oh ¹ , Kyoung-Won Kim ³ , and Eun-Ho Lee ^{1,2} ¹ Department of Mechanical Engineering, Sungkyunkwan University, ² Department of Smart Fab. Technology, Sungkyunkwan University, ³ Keysight Technologies Korea Ltd.