

[Poster Session II] September 1 (Tue.), 14:00-15:40 / Grand Ballroom B

No.	Submission ID	Author	Title
2-1	1143	Bohdan Khromets (University of Waterloo)	Robust evaluation of inter-orbital tunnel couplings in dense multi-dot spin qubit arrays
2-2	1152	Akito Noiri (Riken)	Characterization of a Si/SiGe 12-qubit linear array device
2-3	1158	Ranran Cai (USTC)	Anisotropic Exchange Coupling in Semiconductor QDs Array
2-4	1160	Xutong Wu (Equal1 Labs Ireland)	Stabilizing single-shot spin readout using differential measurement in semiconductor qubits
2-5	1165	Tuomo Tanttu (UNSW & Diraq)	Eight-Qubit Operation of a 300 mm SiMOS Foundry-Fabricated Device
2-6	1175	Jialu Wang (University of Science and Technology of China)	SpinShuttle: Shuttle-Based Qubit Mapping for Spin Qubits in Semiconductor Quantum Dot Arrays
2-7	1190	Dylan H Liang (University of New South Wales)	Ab-Initio Simulation Tool for Design of Spin Qubit Devices
2-8	1131	Cédric Bohémier (UNSW)	High-impedance TiN resonators for flip-chip integration with SiMOS electron spin qubits
2-9	1146	Si Yan Koh (Nanyang Technological University)	Simultaneous high-fidelity readout and strong coupling in a donor-based spin qubit
2-10	1177	Gang Cao (University of Science and Technology of China)	Coupling between a Si/SiGe Resonant Exchange Qubit and a High-Impedance Microwave Resonator
2-11	1178	Seungbum Woo (Seoul National University)	Fabrication and measurement of a $^{28}\text{Si}/\text{SiGe}$ triple quantum dot coupled to a Josephson junction array resonator
2-12	1112	shinwoo lee (Seoul National University)	Probing dominant noise sources of spin qubits near a vanishing decoherence gradient in isotopically purified silicon
2-13	1135	SUDIPTO DAS (Dr.)	Leakage error in spin qubit readout due to charge sensor back-action
2-14	1154	Wee Han Lim (Diraq)	Gate Stack Engineering for High-Mobility and Low-Noise SiMOS Quantum Devices
2-15	1185	Rui Zheng (University of Science and Technology of China)	High-Robustness Silicon Spin Qubits via Frequency-Modulated Concatenated Continuous Driving (FM-CCD)
2-16	1097	Michele Jakob (QuTech)	Layer dependent g-Tensors in a Germanium Double Quantum Well
2-17	1100	Owen M Eskandari (University of Wisconsin–Madison)	Single-spin readout in Si/SiGe quantum dots via photon-assisted tunneling
2-18	1120	Chanung Park (Seoul National University)	Valley leakage dynamics during Pauli blockade-based readout of spin qubits in Si/SiGe quantum dots

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2-19	1133	Xuedong Hu (University at Buffalo)	On the electrical control of Ge hole spin qubit
2-20	1138	Naoual El Yazidi (QuTech, Delft University of Technology)	Interaction-Driven Renormalization of Hole g-Tensors in Germanium Quantum Dots
2-21	1157	Yuan Kang (Hefei National Laboratory)	Spectroscopic Criteria of Cavity-Detected Wigner Molecules in Planar Germanium Quantum Dots
2-22	1180	Hai-Ou Li (University of Science and Technology of China)	Anisotropic Leakage Current Spectra in Planar Germanium
2-23	1191	David Wyman Kanaar (UCLA)	Device simulations of SiGe heterostructures with consistently large valley splitting
2-24	1136	Anirban Das (Budapest University of Technology and Economics)	Spin-orbit interaction and g-tensor anisotropy of holes in the nanowires of hexagonal germanium
2-25	1149	Marvin Hartwig Zöllner (IHP GmbH)	Si-Trap Layers for Reduced Oxygen Concentration in Si/SiGe Quantum Well Heterostructures
2-26	1166	Alicia T Lieng (UNSW Sydney)	Thermalisation of advanced chip packaging methods for quantum computing.
2-27	1192	Young Gee Kim (QLang LTD.,Co.)	Nonconvex Quantum PDE Modeling of Defect- and Grain-Boundary-Sensitive Screening Degradation in YBCO Films
2-28	1156	Alexander Willmes (JARA-Institute for Quantum Information)	Enhanced intrinsic spin-orbit driving of a Loss-DiVincenzo qubit near the spin-valley hotspot in a Si/SiGe
2-29	1162	Yang Zhong (University of Science and Technology of China)	Anisotropic properties of a four-qubit array in germanium
2-30	1167	Yichao Liu (University of Science and Technology of China)	Parameter Calibration and Error Diagnosis of Concatenated Continuous Driving in Silicon Spin Qubits with Gate Set Tomography
2-31	1170	Youjia Wang (University Of Science And Technology Of China)	Shortcuts to Adiabaticity for Robust Single-Spin Control in Silicon Quantum Dots
2-32	1171	Bao-Chuan Wang (Hefei National Laboratory)	Composite SWAP gate of spin qubits in natural silicon quantum dots
2-33	1187	Minyoung Kim (University of Wisconsin-Madison)	High fidelity hopping gate in Si/SiGe quantum dots with enhanced spin-orbit coupling
2-34	1046	Tim Botzem (UNSW/DIRAQ)	NbTiN-based amplifier for qubit readout
2-37	1150	Jeremy J. Morgan (UCL & Quantum Motion)	A compact mini magnet for the study of spin qubit arrays
2-38	1109	Marco Candido (UNSW Sydney/Diraq)	Automated Die-Scale Cryogenic Characterization of SiMOS Spin Qubit Devices

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2-39	1114	Tara Murphy (University of Cambridge, Quantum Motion Technologies)	Auto tuning pipeline for spin qubits in quantum dot arrays
2-40	1118	Lukasz Cywinski (Institute of Physics, Polish Academy of Sciences)	Statistical Structure of Charge Disorder in Si/SiGe Quantum Dots
2-41	1132	Fabio Ansaloni (Quantum Machines)	QUALibrate: A Scalable Graph Framework for Automated Spin Qubit Bring-Up and QPU Calibration
2-42	1151	Justyna P Zwolak (NIST)	Evaluation and Benchmarking of AI Systems for Quantum Dot Device Control
2-43	1161	Fan Zhang (Riken)	Autonomous Tuning of Silicon Spin Qubits by Reinforcement Learning
2-44	1173	timothy gm newman (UNSW)	The effects of strain and electric fields on the quadrupole tensor of an individual Sb donor in a silicon device
2-45	1174	Sam Gorman (Silicon Quantum Computing)	Systems thinking in quantum computing: Functional design, architecting, and scalability
2-46	1193	Shihang Zhang (International Quantum Academy)	Scalable spin qubit architecture with donor-cluster arrays in silicon
2-47	1194	Feng Xu (Southern university of Science and Technology)	Multiparticle Entanglement of Nuclear Spins in Silicon
2-48	1105	Ayan Kumar (University of California, Los Angeles (UCLA))	Design and control of always-on exchange devices for SAGE qubits
2-50	1176	Chanuk Yang (Jeonbuk National University)	Probing Emission Dynamics and State Purity of High-Energy Single Electrons via Dynamic Barrier Modulation
2-51	1084	Domonkos Svastits (Budapest University of Technology and Economics)	Readout sweet spots for spin qubits with strong spin-orbit interaction
2-52	1086	Andrii Semenov (Equal1)	Experimental Demonstration of Fundamental Algorithmic Building Blocks in Si/SiGe Qubits
2-53	1115	James M Williams (Quantum Motion)	Fast Time Dependent Full Configuration Interaction for Many Body Silicon Spin Qubit Dynamics
2-54	1141	Alexis Morel (Université de Sherbrooke)	Single-shot spin qubit readout using multimode radiofrequency reflectometry
2-56	1163	Yunchul Chung (Pusan National University)	Probing Degenerated Energy States Induced by Geometrical Symmetry in a Rectangular Quantum Dot
2-57	1183	Wanki Park (KRISS)	Microwave control of propagating electron wave packets
2-58	1070	Raphael J. Prentki (Nanoacademic Technologies Inc.)	Simulations of electron shuttling with tight-binding time evolution

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2-59	1094	Andrii Sokolov (Equal1 Labs Ireland)	Physics-Informed Optimisation of Conveyor Mode Spin Qubit Transport
2-60	1159	Gozde Ustun (QulCS University of Maryland)	Lifted Product Quantum LDPC Codes with Reduced Connectivity for Silicon Quantum Dots
2-61	1181	Gen Nakagawa (Osaka University)	Design and fabrication of Si/SiGe-based qubit devices for developing middle-range shuttling
2-62	1182	Kenichiro Senda (The University of Osaka)	Bayesian Optimization of High-Fidelity Spin Shuttling in Straight Channels and T-Junctions
2-63	1083	Harold Lim Co (QuTech)	Sparse operation in two-dimensional germanium quantum dot arrays