



제 31회 한국반도체학술대회

The 31st Korean Conference on Semiconductors

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

2024년 1월 25일(목), 10:55-12:40

Room L(206), 2층

V. Quantum Technology 분과

[TL2-V] AMO-based Quantum Technology

좌장: 이문주 교수(POSTECH)

초청발표 TL2-V-1 10:55-11:25	A Chip-scale Rb Two-photon Optical Clock Hyun-Gue Hong Time and Frequency Group, KRISS
TL2-V-2 11:25-11:40	Dark Resonances and Temperature Estimation of a Trapped-ion Qubit Hyegoo Lee, Keumhyun Kim, Noa Jeong, Yongha Shin, Myunghun Kim, Junhee Cho, and Moonjoo Lee Electrical Engineering, POSTECH
TL2-V-3 11:40-11:55	Coherent Control of an Optical Trapped-ion Qubit Keumhyun Kim, Hyegoo Lee, Yongha Shin, Noa Jeong, Myunghun Kim, Junhee Cho, and Moonjoo Lee Department of Electrical Engineering, POSTECH
TL2-V-4 11:55-12:10	Exploring Third-order Exceptional Point in An Ion-Cavity System Jinuk Kim ² , Taegyul Ha ¹ , Donggeon Kim ¹ , Dowon Lee ¹ , Ki-Se Lee ¹ , Jongcheol Won ¹ , Yougil Moon ¹ , and Moonjoo Lee ¹ ¹ Department of Electrical Engineering, POSTECH, ² Department of Physics, Yale University
TL2-V-5 12:10-12:25	Chaotic Motion of a Trapped-Ion Nonlinear Mechanical Oscillator Myunghun Kim, Junhee Cho, Sehyeon Gwon, Keumhyun Kim, Hyegoo Lee, and Moonjoo Lee Department of Electrical Engineering, POSTECH
TL2-V-6 12:25-12:40	Microfabrication of an Ion Trap Chip with Prevention of Direct Silicon Exposure of Sidewalls to Alleviate Laser-induced Charging SeungWoo Yoo ^{1,2,3} , KwangYeul Choi ^{1,2,3} , Suhan Kim ^{1,2,3} , Chiyeon Kim ^{1,2,3} , Changhyun Jung ^{1,2,3} , Roberts Berkis ⁴ , Tracy E. Northup ⁴ , and Taehyun Kim ^{1,2,3} ¹ Department of Computer Science and Engineering, Seoul National University, ² Automation and System Research Institute, Seoul National University, ³ ISRC, Inter-university Semiconductor Research Center, Seoul National University, ⁴ Institut für Experimentalphysik, Universität Innsbruck