



제 29회 한국반도체학술대회

The 29th Korean Conference on Semiconductors

2022년 1월 24일(월)~ 26일(수) | 강원도 하이원 그랜드호텔(컨벤션타워)

2022년 1월 26일(수), 10:45-12:30

Room F (스페이드 I, 6층)

G. Device & Process Modeling, Simulation and Reliability 분과 [WF2-G] Ab-initio Simulation and Quantum Transport

좌장: 홍성민 교수(GIST), 장지원 교수(연세대학교)

<p>WF2-G-1 10:45-11:15</p>	<p>Spin Circuit Model and Its Applications Seokmin Hong <i>Center for Spintronics, KIST</i></p>
<p>WF2-G-2 11:15-11:30</p>	<p>Quantum Transport Simulation of Nanosheet FETs with Various Cross-sections Including Electron-phonon Scattering Phil-Hun Ahn and Sung-Min Hong <i>School of Electrical Engineering and Computer Science, GIST</i></p>
<p>WF2-G-3 11:30-11:45</p>	<p>Short Channel Effects Induced by the Multi-domain in Negative Capacitance Field-Effect Transistors: A Phase-field Based Quantum Transport Study Hyeongu Lee and Mincheol Shin <i>Department of Electrical Engineering, KAIST</i></p>
<p>WF2-G-4 11:45-12:00</p>	<p>Design of Noise-Robust Entangling Quantum Logic Gates Using Electrode-Driven Silicon Quantum Dot Platform Hoon Ryu and Ji-Hoon Kang <i>KISTI</i></p>
<p>WF2-G-5 12:00-12:15</p>	<p>Computational Analysis of Bi₂O₂Se-Metal Contact Sukhyeong Youn and Jiwon Chang ¹<i>Department of System Semiconductor Engineering, Yonsei University,</i> ²<i>Department of Materials Science & Engineering, Yonsei University</i></p>
<p>WF2-G-6 12:15-12:30</p>	<p>Landau Coefficients Extraction of Slab BaTiO₃ in Ferroelectric-Insulator Nanocapacitors Jeonghwan Jang, Junbeom Seo, and Mincheol Shin <i>School of Electrical Engineering, KAIST</i></p>