34G. Emerging Devices Modeling II	
Session Date:	March 9(Thu.), 2023
Session Time:	13:00-14:25
Session Room:	Room G (#318)
Session Chair:	Prof. Jiwon Chang (Yonsei University)

[34G-1] [Invited]　　　　　　　　　　　　　　　　　　　　**13:00-13:25**

Scalable Addressing Circuits for a Surface Code Quantum Computer in Silicon

Rubaya Absar, Hazem Elgabra, Xuesong Chen, François Sfigakis, Jonathan Baugh and Lan Wei

University of Waterloo

[34G-2]　　　　　　　　　　　　　　　　　　　　　　　　　**13:25-13:40**

Ferroelectric Probabilistic Bits Based on Thermal Noise Induced Randomness for Stochastic Computing

Sheng Luo, Yihan He, Baofang Cai, Xiao Gong and Gengchiau Liang

National University of Singapore

[34G-3]　　　　　　　　　　　　　　　　　　　　　　　　　**13:40-13:55**

Study on Sub-100-nm-Scale Measurement of Temperature Distribution in Joule-Heated Au Nanosheet Gas Sensors Using Self-Assembled Monolayers as Temperature Probes

Taro Kato, Takahisa Tanaka, Hiromichi Miyagishi, Jun Terao and Ken Uchida

The University of Tokyo

[34G-4]　　　　　　　　　　　　　　　　　　　　　　　　　**13:55-14:10**

Linearity Analysis of FeFET Synaptic Devices Considering Random Phase Distributions

Yen-Ming Pan, Cheng-Kai Lu and Vita Pi-Ho Hu

National Taiwan University

[34G-5]　　　　　　　　　　　　　　　　　　　　　　　　　**14:10-14:25**

Cryogenic Characterization and Model Extraction of 5nm Technology Nodes FinFETs

Shivendra Singh Parihar[1], Girish Pahwa[2], Jun Z. Huang[3], Weike Wang[3], Kimihiko Imura[3], Chenming Hu[2] and Yogesh Singh Chauhan[1]

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