[TS04W2]

Nano/MEMS Processing & Packaging for Intelligent & Quantum Applications 2

Date & Time	July 8(Wed.), 2026 / 15:50-17:50
Place	Room 206B
Session Chair(s)	Prof. Changsoon Choi (Sungkyunkwan University)

TS04W2_I_1 ***Invited** 15:50-16:20

Lithium Niobate Photonic Integrated Circuits for Quantum State Generation and Photonic Quantum Simulation

Hyounghan Kwon

(Korea Institute of Science and Technology)

TS04W2_I_2 ***Invited** 16:20-16:50

Electrically Tunable Nonlinear Optic Response in Ferroelectric $NbOBr_2$ Integrated Photonics

Sanghoon Chae

(Nanyang Technological University)

TS04W2_O_3 ***YSA Applied** 16:50-17:05

Depletion-Mode III-V/Si SISCAP Mach-Zehnder Modulator Breaking the Efficiency-Bandwidth Trade-Off for Co-Packaged Optics

Donggil Kang[1], Shin Hyung Lee[1], Jae-Hoon Han[2], Jongmin Kim[3], Seok-Geun Ahn[4], Minhyuk Jung[4], Hyun-Chul Jung[4], and SangHyeon Kim[1]

([1]Korea Advanced Institute of Science and Technology, [2]Korea Institute of Science and Technology, [3]Korea Advanced NanoFab Center, [4]Samsung Electronics Co., Ltd.)

TS04W2_I_4 ***Invited** 17:05-17:35

Optical Amplifier based on Colloidal Quantum Dots

Namyoung Ahn

(Yonsei University)

TS04W2_O_5 ***YSA Applied** 17:35-17:50

Colloidal Quantum Dots for Single Photon Emission at Telecom Region

Kumar Shwetabh and Surendra B. Anantharaman

(Indian Institute of Technology Madras)