

Session Title:	[We2A] Inverse Design in Integrated Photonics II
Session Date:	August 7 (Wed.), 2024
Session Time:	10:45-11:45
Session Room:	Room A (102-103)
Session Chair(s)	Dr. Hyounghan Kwon (KIST, Korea)

[We2A-1] 10:45-11:00

Predicting Supercontinuum Generation in Silicon Waveguides with a Fully Connected Neural Network

Shuyi Li, Meng Deng, and Yi Wang (Huazhong Univ. of Science and Tech., China)

[We2A-2] 11:00-11:15

Topology Optimization of Lithium Niobate Mode Converter

Munseong Bae (Hanyang Univ., Korea), Changhyun Kim (KIST, Korea), Sangbin Lee (Hanyang Univ., Korea), Minho Choi (KIST, Korea), Myunghoo Lee (Hanyang Univ., Korea), Hojoong Jung, Hyounghan Kwon (KIST, Korea), and Haejun Chung (Hanyang Univ., Korea)

[We2A-3] 11:15-11:30

Inverse Design of a 4-by-2 Silicon-Based Photonic Encoder Circuit Using Topology Optimization

Fakhriyya Mammadova, Berkay Neseli and Hamza Kurt (KAIST, Korea)

[We2A-4] 11:30-11:45

Surpassing the Diffraction Limit with Inversely Designed Monolithic hBN Cavities for On-Chip Single Photon Sources

Damian Nelson, Kenneth B. Crozier, and Sejeong Kim (The Univ. of Melbourne, Australia)