

Room E (Sydney), 2F

Chair: Frederic Boeuf (STMicroelectronics)

We3E

July 1 (Wed), 2026

Nonlinear & Spectral Integrated Photonics

15:00-16:30

We3E-1

15:00-15:15

Cascaded Micro-ring Resonators Enabled Ultrahigh Resolution On-Chip Computational Spectrometer

Xinchen Wan, Haoyang Sun, Tongtian Zhang, Guangya Zhou
National University of Singapore

We3E-2

15:15-15:30

Integrated Programmable Microcomb Shaper for Optical Convolution Processing

Haoran Zhang¹ Xiaotian Zhu², Shifan Chen¹, Yifu Xu¹, Jiajia Wang¹, Zhihui Liu¹, ShuaiWang¹, Yunping Bai¹, Brent E. Little³, Roberto Morandotti⁴, David J. Moss⁵, Sai T. Chu², Xingyuan Xu¹
¹Beijing University of Posts and Telecommunications, ²City University of Hong Kong, ³QXP Technology Inc., ⁴INRS-Énergie, Matériaux et Télécommunications, ⁵Swinburne University of Technology

We3E-3

15:30-15:45

Second-order Microring Thermo-optic Switch on SOI with Sub-5 μ s Response Time

Haojie Xue, Yuanhao Li, Lei Zhang
Beijing University of Posts and Telecommunications

We3E-4

Invited

15:45-16:15

On-chip Ultra-Low-Loss Chalcogenide Glass Optical Waveguides and Resonators for Mid-Infrared Photonics

Hansuek Lee¹, Daewon Suk¹, Kiyoun Ko¹, Soobong Park¹, Kwang-Hoon Ko², Duk Choi³, Fabian Rotermond¹
¹Korea Advanced Institute of Science and Technology, ²Korea Atomic Energy Research Institute, ³Australian National University