### [We1D] Novel Passive Devices 1

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<td>August 7 (Wed.), 2024</td>
<td>09:00–10:30</td>
<td>Room D (113)</td>
<td>Prof. Je-Hyung Kim (UNIST, Korea)</td>
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#### [We1D-1] [Invited] 09:00–09:30

**Mode Management in Bottom-up, Parity-time-symmetric Micro-cavity Lasers**

Wei Wen Wong, Jihua Zhang, Gaurang Garg, Chennupati Jagadish, and Hark Hoe Tan (The Australian Nat'l Univ., Australia)

#### [We1D-2] 09:30–09:45

**IHO Heater-assisted Planar Waveguide Photonic Emulator**

Weiyu Tong, Shangsen Sun, and Jianji Dong (Huazhong Univ. of Science and Tech., China)

#### [We1D-3] 09:45–10:00

**High-Bandwidth, Low-Insertion-Loss Nonreciprocal Transmission Based on a Chiral Silicon Microring**

Ke Li, Jiewen Li, Wanxin Li, Rui Li, and Xiaochuan Xu (Harbin Inst. of Tech., China)

#### [We1D-4] 10:00–10:15

**Integrated Silicon Photonic Modulator and Programmable Filter for Enhanced Fiber-Wireless Signal Transmission**

C. Catalá-Lahoz (Universitat Politecnica de Valencia, Spain), D. Pérez-López (iPronics Programmable Photonics, Spain), T. Huy-Ho (Huawei Technologies Canada Co., Ltd., Canada), and J. Capmany (Universitat Politecnica de Valencia, Spain)

#### [We1D-5] 10:15–10:30

**Optical Beam Steering and Beam Tracking by Silicon Photonics 2D Vertical MDM Grating Coupler**

Yi-Jang Hsu, Shao-Ru Lin, Yu-Wei Liu, and Yinchieh Lai (Nat'l Yang Ming Chiao Tung Univ., Taiwan)