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| <b>Session Title:</b>   | [Tu2D] Novel Nonlinear Devices 2  |
| <b>Session Date:</b>    | August 6 (Tue.), 2024             |
| <b>Session Time:</b>    | 16:00-17:30                       |
| <b>Session Room:</b>    | Room D (113)                      |
| <b>Session Chair(s)</b> | Prof. Sangyoon Han (DGIST, Korea) |

[Tu2D-1] [Invited] 16:00-16:30

On-chip Brillouin Interactions in Tailored Waveguides

Moritz Merklein (The Univ. of Sydney, Australia)

[Tu2D-2] 16:30-16:45

Enhanced Femtosecond Photon Echo Generation from Inhomogeneous InAs Quantum Dots by Chirped Pulses

Yuta Kochi, Yutaro Kinoshita (Keio Univ., Japan), Kouichi Akahane (Nat'l Inst. of Information and Communications Tech., Japan), and Junko Ishi-Hayase (Keio Univ., Japan)

[Tu2D-3] 16:45-17:00

Generation and Dynamics of Soliton Microcombs in Microring Resonators Pumped by Two Self-Injection Locked Laser Diodes

D. A. Chermoshentsev, A. E. Shitikov, M. L. Galkin, A. N. Danilin, A.K. Vorobyev, D. M. Sokol, A.V. Masalov, V. E. Lobanov, and I. A. Bilenko (Russian Quantum Center, Russia)

[Tu2D-4] 17:00-17:15

Self-injection Locked Nonlinear Brillouin Laser in Chalcogenide Microresonators

Wendong Chen, Zifu Wang, Di Xia, Yufei Li, Zhaohui Li, and Bin Zhang (Guangdong Provincial Key Lab. of Optoelectronic Materials and Chips, Sun Yat-sen Univ., China)

[Tu2D-5] 17:15-17:30

Microwave-rate Dark Pulse Microcombs in Integrated LiNbO<sub>3</sub> Microresonators

Xiaomin Lv, Binbin Nie, Chen Yang (Peking Univ., China), Rui Ma (Nankai Univ., China), Ze Wang, Yanwu Liu, Xing Jin (Peking Univ., China), Zhenyu Chen (Nankai Univ., China), Du Qian, Guanyu Zhang, Guowei Lv, Qihuang Gong (Peking Univ., China), Fang Bo (Nankai Univ., China), and Qi-Fan Yang (Peking Univ., China)