

Session Title:	[Th2C] Quantum Optics and Application II
Session Date:	August 8 (Thu.), 2024
Session Time:	16:00-17:30
Session Room:	Room C (107-109)
Session Chair(s)	Prof. Kihwan Kim (Tsinghua Univ., China), Prof. Yoko Miyamoto (The Univ. of Electro-Communications, Japan)

[Th2C-1] [Invited] 16:00-16:30

Quantum Enhanced Biotechnologies

Nicolas P. Mauranyapin, Alex Terrasson, Michael A. Taylor, and Warwick P. Bowen (Univ. of Queensland, Australia)

[Th2C-2] 16:30-16:45

Generation of Ultra-Bright Polarization-Entangled Photon Pairs via Type II Noncritical Phase Matching

Ilhwan Kim (KIST, Korea), Yosep Kim (Korea Univ., Korea), Yong-Su Kim (Univ. of Science and Tech., Korea), Kwang Jo Lee (Kyung Hee Univ., Korea), and Hyang-Tag Lim (Univ. of Science and Tech., Korea)

[Th2C-3] 16:45-17:00

Time-Frequency Characterization of Ultrafast Quantum Entangled Biphotons Through Optical Frequency Comb Based Two-Color Asynchronous Optical Sampling

Prasad Koviri, Takahisa Kuwana, Hajime Komori, Takashi Kato, Akifumi Asahara (The Univ. of Electro-Communications, Japan), Thomas R. Schibli (Univ. of Colorado, USA), Ryosuke Shimizu, and Kaoru Minoshima (The Univ. of Electro-Communications, Japan)

[Th2C-4] 17:00-17:15

A Temperature-Insensitive Photon Buffer for Temporal Multiplexing and Hong-Ou-Mandel Interferometry

Eun Chae Ha, Young Hoon Kim (Chung-Ang Univ., Korea), Hee Su Park (KRISS, Korea), and Kwang Yong Song (Chung-Ang Univ., Korea)

[Th2C-5] 17:15-17:30

Coherent Two-photon LIDAR with Incoherent Thermal Light

Chung-Hyun Lee, Yosep Kim, Dong-Gil Im, U-Shin Kim, Vincenzo Tamma, and Yoon-Ho Kim



(POSTECH, Korea)