

Session Title:	[Fr2C] Optical Techniques for Quantum Sciences
Session Date:	August 9 (Fri.), 2024
Session Time:	10:45-12:15
Session Room:	Room C (107-109)
Session Chairs	TBA

[Fr2C-1] [Invited] 10:45-11:15

PPLN-based Optical Parametric Amplifiers for Continuous-variable Optical Quantum Computing

Takeshi Umeki, Takahiro Kashiwazaki, Asuka Inoue (NTT Device Tech. Laboratories, Japan), Mamoru Endo, and Akira Furusawa (The Univ. of Tokyo, Japan)

[Fr2C-2] 11:15-11:30

Unlocking Sub-Diffraction Spectral Resolution with Quantum-Enhanced Heterodyne Detection

Wiktor Krokosz, Mateusz Mazelanik, Michał Lipka, Marcin Jarzyna, Wojciech Wasilewski, Konrad Banaszek, and Michał Parniak (Univ. of Warsaw, Poland)

[Fr2C-3] 11:30-11:45

Visible Multi-Wavelength Combiner and Power Splitter for Optical Lattice Clocks with Silica Planar Lightwave Circuit

Shiori Konisho, Junji Sakamoto, Hiromitsu Imai, Tomoya Akatsuka (NTT Corp., Japan), Hidetoshi Katori (The Univ. of Tokyo, Japan), Katsuya Oguri, Toshikazu Hashimoto, and Tetsuomi Sogawa (NTT Corp., Japan)

[Fr2C-4] 11:45-12:00

Adaptively Gated Hybrid Single-photon Camera for High-dimensional Quantum Correlation Measurements

Sanjukta Kundu, Jerzy Szuniewicz, Grzegorz Firlik, Alexander Krupinski-Ptaszek, and Radek Lapkiewicz (Univ. of Warsaw, Poland)

[Fr2C-5] 12:00-12:15

Transfer-Printed Si Waveguides on Er:YSO Crystals toward Efficient Quantum Media Conversion

Taiyu Okajima (Keio Univ., Japan), Ryuichi Ohta (NTT Basic Research Laboratories, Japan),



Takumi Sato, Yuma Tachizaki (Keio Univ., Japan), Xuejun Xu, Hajime Okamoto (NTT Basic Research Laboratories, Japan), and Yasutomo Ota (Keio Univ., Japan)