

Session Title:	[We2C] Quantum Optics and Quantum Information III
Session Date:	August 7 (Wed.), 2024
Session Time:	10:45-12:15
Session Room:	Room C (107-109)
Session Chair(s)	Prof. Young-Sik Ra (KAIST, Korea)

[We2C-1] [Invited] 10:45-11:15

Quantum Fluctuation Theorem and Its Experimental Demonstration using Quantum Optics

Hui Li, Jie Xie (Nanjing Univ., China), Hyukjoon Kwon (Korea Inst. for Advanced Study, Korea), Yixin Zhao (Nanjing Univ., China), M.S. Kim (Imperial College London, UK), and Lijian Zhang (Nanjing Univ., China)

[We2C-2] 11:15-11:30

Characterization of Thermal Degraded Optical Cat States by Non-Gaussianity

Po-Han Wang and Ray-Kuang Lee (Nat'l Tsing Hua Univ., Taiwan)

[We2C-3] 11:30-11:45

Spatial Mode Conversion of Single Photons Using Long-Period Grating

Rodrigo Amorim, Kasper Alexander, Lars Grüner-Nielsen, and Karsten Rottwitt (Technical Univ. of Denmark, Denmark)

[We2C-4] 11:45-12:00

Phase Stabilization Using Two Lasers with Different Wavelengths for Entanglement Distribution

Yohei Sugiyama, Riho Amaki, Yuto Shitaka, Tomoki Tsuno, Daisuke Yoshida (Yokohama Nat'l Univ., Japan), Koji Nagano (LQUOM, Inc., Japan), Tomoyuki Horikiri, Feng-Lei Hong, and Daisuke Akamatsu (Yokohama Nat'l Univ., Japan)

[We2C-5] 12:00-12:15

Frequency-domain Super-resolution via Spectral Inversion

Michał Lipka and Michał Parniak (Univ. of Warsaw, Poland)