

Room G (Miami), 2F

Chair: Sejeong Kim (Sungkyunkwan University)

We1G

July 1 (Wed), 2026

Quantum Communication and Networking

08:30-10:00

We1G-1 Invited 08:30-09:00

Toward Practical Quantum Communication Networks: Mode-Pairing QKD and Beyond

Xiongfeng Ma
Tsinghua University

We1G-2 Invited 09:00-09:30

Fully Dynamic and Automated 4-Node Switched QKD Network with PUF-Based Authentication

Nikolaos Makris¹, Persefoni Konteli¹, Evgenia N. Sassalou², Stylianos A. Kazazis², Alkinoos Papageorgopoulos¹, Stefanos Vasileiadis³, Konstantinos Tsimvraakis¹, Symeon Tsintzos², George M. Nikolopoulos⁴, George T. Kanellos¹

¹National and Kapodistrian University of Athens, ²Qubitech Company, Inc., ³UBITECH, ⁴Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology-Hellas (FORTH)

We1G-3 09:30-09:45

OPA-Based Free-Space QKD System with Direct Fiber-Network Compatibility

Minchul Kim^{1,2}, Junsang Oh¹, Byung-Seok Choi¹, Joong-Seon Choe¹, Ju Hee Baek¹, Chun Ju Youn¹, Jong-Bum You³, Hyo-Hoon Park², Hamza Kurt², Hoon Kim²

¹Electronics and Telecommunications Research Institute, ²Korea Advanced Institute of Science and Technology, ³National NanoFab Center

We1G-4 09:45-10:00

Demonstration of 4 × 10 Mbaud FDM-CV-QKD System

Donghyeok Lee^{1,2}, Jaehyeok Han^{1,2}, Yong-Su Kim², Sunghyun Bae¹

¹Sejong University, ²Korea Institute of Science and Technology