

Room D (Capri), 2F

Chair: Asuka Matshushita (NTT, inc.)

Th1D

July 2 (Thu), 2026

Long-Haul Transmission Enabling Technologies

08:30-10:00

Th1D-1

08:30-08:45

1.28 Tbit/s/λ, 16 QAM, 3,200 km Digital Coherent Nyquist Pulse Transmission Using Multi-Carrier Method

Ryota Endo, Masato Yoshida, Toshihiko Hirooka, Keisuke Kasai, Masataka Nakazawa
Tohoku University

Th1D-2

08:45-09:00

Spatially Informed Active Sampling for Grey-Box QoT Modeling with Field-Trial Validation

Xiaoshu Yu, Yihao Zhang, Hao Lin, Weisheng Hu, Qunbi Zhuge
Shanghai Jiao Tong University

Th1D-3 **Invited**

09:00-09:30

Colorless Detection of WDM Superchannel with a Frequency Comb-Based Local Oscillator

Di Che
Nokia Bell Labs

Th1D-4

09:30-09:45

Techno-Economic and Power Analysis of Terrestrial Long-Haul C+C and C+L Systems

John D. Downie¹, Viacheslav Ivanov², Lidia Galdino³, Tomasz Kolodziejczyk⁴, Colin Wallace⁵
¹Corning Research and Development Corp., ²Corning SAS Suomen Sivulike, ³Corning Optical Communications, ⁴Corning Optical Communications, ⁵Microsoft

Th1D-5

09:45-10:00

Numerical Evaluation of Error-Floor Behavior in Polar Codes with Ultra-Large Block Lengths for Optical Fiber Transmission

Mizuki Yamamoto¹, Gakuto Kanematsu¹, Yohei Koganei², Koji Igarashi¹
¹The University of Osaka, ²Finity Inc.