

Room D (Capri), 2F

Chair: Masanori Nakamura (NTT, inc.)

Th2D

July 2 (Thu), 2026

DSP Technologies for Coherent Optical Transmission and Monitoring

10:15-11:45

Th2D-1 Invited 10:15-10:45

Modeling Equalization-Enhanced Phase Noise

Benedikt Geiger¹, Fred Buchali², Vahid Aref², Laurent Schmalen¹

¹Karlsruhe Institute of Technology (KIT), ²Nokia

Th2D-2 10:45-11:00

Improving the Accuracy of Longitudinal Power Profile Estimation with Statistical Averaging

Inwoong Kim¹, Olga Vassilieva¹, Ryu Shinzaki², Motohiko Eto², Paparao Palacharla¹

¹Finity Americas, Inc., ²Finity

Th2D-3 11:00-11:15

Cost-Effective FA-MSO-NN Equalizer for PDM PS-1024QAM Coherent Optical Transmission

Tingyu Fu, Suhua Wang, Jiajun Ji, Jiajia Shen, Mingyi Gao

Soochow University

Th2D-4 11:15-11:30

Wide-Range and Low-Complexity Frequency Offset Compensation Utilizing Complex-Valued Gardner Timing Error Detector

Tomonaga Tanaka, Hidemi Noguchi, Kenji Wakafuji

NEC Corporation

Th2D-5 11:30-11:45

SNR Estimation of Weakly Coupled Multicore Fiber Transmission Lines Using GNP

Yusuke Sasaki¹, Koshiro Hashihara², Wakako Maeda¹, Masaki Wada³, Takashi Matsui³, Kazuhide Nakajima³

¹NEC Corporation, Kawasaki, ²Tokyo Metropolitan University, ³NTT, inc.