

Room A (Grand Ballroom 1), 2F

Chair: Akira Kawai. (NTT, inc.)

Mo1A

June 29 (Mon), 2026

Transmission over Hollow-Core Fiber

13:00-14:30

Mo1A-1

13:00-13:15

1.2T(4λx300G) Interconnect over 14km NANF using Shared-Carrier Kramers-Kronig Detection

Hilmi Othman, Kyle R.H. Bottrill, Suttikarn Wantee, Gregory T. Jasion, Hesham Sakr, Francesco Poletti, Periklis Petropoulos
University of Southampton

Mo1A-2

13:15-13:30

4.96 Tbit/s DWDM-IMDD Transmission over 11.6 km of Hollow-Core DNANF

Suttikarn Wantee, Kyle R.H. Bottrill, Hilmi Othman, Hao Liu, Periklis Petropoulos
University of Southampton

Mo1A-3

13:30-13:45

SOA based Full C-Band 800G ZR Transmission over a 60.85 km AR-HCF DCI Link

Carina Castineiras Carrero¹, Arnaud Dupas¹, Amirhossein Ghazisaeidi¹, Haik Mardoyan¹, Céilia Cruz², Cosimo Caló², Fabrice Blache², Arnaud Wilk², Olivier Delorme², Nicolas Vaissiere², Karim Mekhazni², Igor Mijovic², Oriol Bertan Pardo³, Jérémie Renaudier¹

¹Nokia Bell Labs, ²III-V Lab, Palaiseau, ³Nokia

Mo1A-4

13:45-14:00

WSS-Based Optical Domain Equalization to Mitigate Gas Absorption Penalties in Hollow-Core Fiber for Wide-Area AI Interconnects

Hong Liu^{1,2}, Shan Huang⁵, Chengbo Li^{1,3}, Baoluo Yan^{1,2}, Dongchen Zhang^{1,2}, Jun Chu⁴, Yangguang Liu^{1,2}, Hu Shi^{1,2}

¹State Key Laboratory of Mobile Network and Mobile Multimedia Technology, ²WDM System Department of Wireline Product R&D Institute, ³Hardware System Department, ⁴State Key Laboratory of Optical Fibre & Cable Manufacture technology, ⁵China Mobile Information Technology Co., Ltd.

Mo1A-5

14:00-14:15

Ultra-Dense WDM Transmission Using SSB A-RoF Signals Over a Hollow-Core Fiber

Natsuhiko Yamada¹, Hironori Yamaji¹, Kimitami Yanai¹, Satoshi Fujita¹, Takeshi Takagi², Kazunori Mukasa², Motoharu Matsuura^{1,3}

¹University of Electro-Communications, ²Lightera Japan Co., Ltd., ³Keio University

Mo1A-6

14:15-14:30

Evaluation of Nonlinear Effects in DWDM Transmission Using a Hollow-Core Fiber

Kimitami Yanai¹, Natsuhiko Yamada¹, Takeshi Takagi², Kazunori Mukasa², Motoharu Matsuura^{1,3}

¹University of Electro-Communications, ²Lightera Japan Co., Ltd., ³Keio University