

Room B (Grand Ballroom 2), 2F

Chair: Miguel Gonzalez-Herraez
(University of Alcala)

We2B

Multimode & Multicore Fibers

July 1 (Wed), 2026

13:15-14:45

We2B-1

13:15-13:30

Development of Ge-Doped Low-Loss Air-Gap 4-Core Multicore Fiber

Shugo Takeuchi, Tomoya Akao, Keita Takahata, Osanobu Fukuo, Kazunori Mukasa, Yoshihiro Arashitani
Lightera Japan Co., Ltd.

We2B-2

13:30-13:45

Optimizations of Multi-Core Fibers for Short Wavelength and Short Reach Applications

Kazunori Mukasa
Lightera Japan Co., Ltd.

We2B-3

Invited

13:45-14:15

Spatiotemporal Optical Toroidal Beams in Multimode Fibers

A.V. Komonen¹, N.K. Fontaine², M. Plöschner¹, M.M. Morote¹, D.T. Neilson², J. Carpenter¹, M. Mounaix¹
¹The University of Queensland, Brisbane, ²Nokia Bell Labs

We2B-4

14:15-14:30

All-Fiber Phase Control for Coherent Beam Combining in Multicore Fiber Systems

Yuanhong Zhang¹, Michalis N. Zervas^{1,2}, Yongmin Jung¹
¹University of Southampton, ²TRUMPF Laser UK Ltd

We2B-5

14:30-14:45

Development of 7-Core Air-Gap Optical Fiber for Signal and Power Transmission with Enhanced Fiber-Fuse Resistance

Tomoya Akao¹, Shugo Takeuchi¹, Keita Takahata¹, Takeshi Takagi¹, Osanobu Fukuo¹, Kazunori Mukasa¹,
Kalipada Chatterjee², Toshio Morioka²
¹Lightera Japan Co., Ltd., ²Technical University of Denmark