

Room B (Grand Ballroom 2), 2F

Chair: Youngwoong Kim (KAERI)

Th1B

July 2 (Thu), 2026

Fiber Gratings & Resonators

08:30-10:00

Th1B-1

08:30-08:45

Lightweight ISAC for Pipeline Monitoring via STM32-Optimized FBG Phase Demodulation

Jiajun Ji¹, Jiajia Shen¹, Tingyu Fu¹, Suhua Wang¹, Fengge Wang², Mingyi Gao¹

¹Soochow University, Suzhou, ²University of Technology

Th1B-2

08:45-09:00

Demodulation of Two Slow V Ernier Sensors using a Pattern Recognition Algorithm

María de los Ángeles Martínez-Guerrero¹, Jonathan Esquivel-Hernández¹, Rodolfo Martínez-Manuel¹, Luis M. Valentín-Coronado^{1,2}

¹Centro de Investigaciones en Óptica, A.C., ²Secretaría de Ciencia, Humanidades, Tecnología e Innovación

Th1B-3

Invited

09:00-09:30

Cavity Optomechanics in Chained Microbottle Resonators

Motoki Asano, Hajime Okamoto, Hiroshi Yamaguchi

NTT, Inc.

Th1B-4

09:30-09:45

Numerical Investigation of Mode Leakage and Power Extraction in Side-Polished Hollow-Core Anti-Resonant Fibers

Yuyao Wu, Yuemei Li, Yao Guo, Zhiguo Zhang

Beijing University of Posts and Telecommunications

Th1B-5

09:45-10:00

Mode-Selective LPFGs with Radial Modulation Control for Broadband 2-LP MDL Equalization

Takumi Kimura¹, Takanori Sato¹, Masaki Wada², Yoko Yamashita^{1,2}, Taro Iwaya², Takashi Matsui², Kazuhide Nakajima², Kunimasa Saitoh¹

¹Hokkaido University, ²NTT, inc.