

Session Title:	[Mo1E] Optical Metrology I
Session Date:	August 5 (Mon.), 2024
Session Time:	10:30-12:00
Session Room:	Room E (114)
Session Chair(s)	Dr. Hojoong Jung (KIST, Korea), Dr. Akiko Hirai (Nat'l Metrology Inst. of Japan, Japan)

[Mo1E-1] [Invited] 10:30-11:00

Rapid and Nanometric-Precision Distance Measurement with Hybrid Comb Lasers

Jiawen Zhi (Huazhong Univ. of Science and Tech., China), Zhichuang Wang (Xi'an Inst. of Optics and Precision Mechanics, Chinese Academy of Sciences, China), Hanzhong Wu (Huazhong Univ. of Science and Tech., China), Brent E. Little (Xi'an Inst. of Optics and Precision Mechanics, Chinese Academy of Sciences, China), Sai T. Chu (City Univ. of Hong Kong, Hong Kong S.A.R), Panpan Wang, Chenggang Shao (Huazhong Univ. of Science and Tech., China), Weiqiang Wang, and Wenfu Zhang (Xi'an Inst. of Optics and Precision Mechanics, Chinese Academy of Sciences, China)

[Mo1E-2] 11:00-11:15

Experimental Investigation of Thermally Insensitive Kerr Microresonator Soliton Comb

Kenji Nishimoto (Tokushima Univ., Japan), Kaoru Minoshima (The Univ. of Electro-Communications, Japan), and Naoya Kuse (Tokushima Univ., Japan)

[Mo1E-3] 11:15-11:30

Low-phase-noise Microwave Synthesis from Ultra-stable Lasers via a Frequency Comb as a Transfer Oscillator

Dang-Bao-An Tran, Giuseppe Marra, and Patrick Gill (Nat'l Physical Lab., UK)

[Mo1E-4] 11:30-11:45

Dispersion Engineering of Crystalline Microresonators for Optical Frequency Comb Generation beyond C-band

Ryomei Takabayashi, Hikaru Kodama, Koya Tanikawa, Yasuhiro Kakinuma, Takasumi Tanabe, and Shun Fujii (Keio Univ., Japan)

[Mo1E-5] 11:45-12:00

Development of Broadband Fiber-Based Frequency Comb Light Sources Beyond the Gain



Bandwidth Using Nonlinearity in a Laser Cavity

Ryusei Uchiyama, Tadashi Matsumoto, Takumi Yumoto (Toho Univ., Japan), Wataru Kokuyama (Nat'l Metrology Inst. of Japan/AIST, Japan), and Yoshiaki Nakajima (Toho Univ., Japan)