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| <b>Session Title:</b> | <b>[Tu1C] Quantum Sensing I</b> |
| <b>Session Date:</b>  | <b>August 6 (Tue.), 2024</b>    |
| <b>Session Time:</b>  | <b>11:00-12:30</b>              |
| <b>Session Room:</b>  | <b>Room C (107-109)</b>         |
| <b>Session Chairs</b> | <b>TBA</b>                      |

**[Tu1C-1] [Invited] 11:00-11:30**

**Quantum Interferometry for Sensing**

Gerd Leuchs (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany)

**[Tu1C-2] 11:30-11:45**

**Distributed Multiple-phase Estimation with Fewer Photons**

Dong-Hyun Kim (KIST, Korea), Seongjin Hong (Chung-Ang Univ., Korea), Yong-Su Kim (KIST, Korea), Yosep Kim (Korea Univ., Korea), Seung-Woo Lee (KIST, Korea), Raphael C. Pooser (QC82, USA), Kyunghwan Oh (Yonsei Univ., Korea), Su-Yong Lee (Agency for Defense Development, Korea), Changhyoup Lee (KRISS, Korea), and Hyang-Tag Lim (KIST, Korea)

**[Tu1C-3] 11:45-12:00**

**Heisenberg-limited Metrology via Weak-value Amplification Without Using Entangled Resources**

Yosep Kim, Seung-Yeun Yoo, and Yoon-Ho Kim (POSTECH, Korea)

**[Tu1C-4] 12:00-12:15**

**Detecting Submicron-Scale Continuous Variation in Phase of AC Magnetic Field around Micro-Circuit with Diamond Quantum Sensor**

Fuki Otsubo, Takumi Mikawa (Keio Univ., Japan), Yuichiro Matsuzaki (Chuo Univ., Japan), Norio Tokuda (Kanazawa Univ., Japan), Norikazu Mizuochi (Kyoto Univ., Japan), and Junko Ishi-Hayase (Keio Univ., Japan)

**[Tu1C-5] 12:15-12:30**

**Mid-infrared Sensing using an Antiresonant Hollow Core Fiber in a Quantum Interferometer**

Thomas Produit, Tanmoy Chakraborty, Leonid Krivitsky (A\*STAR, Singapore), Ang Deng, Wonkeun Chang (Nanyang Tech. Univ., Singapore), and Anna V. Paterova (A\*STAR, Singapore)