

Session Title:	[Mo4B] Ultrafast and Nonlinear Optics in Emerging Materials IV
Session Date:	August 5 (Mon.), 2024
Session Time:	17:00-18:30
Session Room:	Room B (104-106)
Session Chairs	TBA

[Mo4B-1] [Invited] 17:00-17:30

Nonlinear Optical Processes in Strained Graphene with Pseudo-Landau Quantization

Donguk Nam, Kunze Lu, Manlin Luo, Weibo Gao, Qi Jie Wang (Nanyang Technological Univ., Singapore), and Hao Sun (Nat'l Univ. of Singapore, Singapore)

[Mo4B-2] 17:30-17:45

Second Harmonic Generation from Centrosymmetric 2D Materials after van der Waals Stacking

Mingwen Zhang and Xuetao Gan (Northwestern Polytechnical Univ., China)

[Mo4B-3] 17:45-18:00

Highly Tunable Near-degenerate Four-wave Mixing in Monolayer Graphene Through Electrical Gating

Seongju Ha (KRISS, Korea), Nam Hun Park (Agency for Defense Development, Korea), Jungseok Choi (Ajou Univ., Korea), Jaedeok Park, Hee-Su Park (KRISS, Korea), Dong-Il Yeom (Ajou Univ., Korea), and Sang Min Lee (KRISS, Korea)

[Mo4B-4] 18:00-18:15

Gate-tunable Quantum Pathways of Massless Dirac Fermions in High Harmonic Generation

Minjeong Kim (POSTECH, Korea), Soonyoung Cha (Center for Van der Waals Quantum Solids, IBS, Korea), Youngjae Kim (DGIST, Korea), Shinyoung Choi (POSTECH, Korea), Sejong Kang, Hoon Kim, Sangho Yoon, Gunho Moon, Taeho Kim, Ye Won Lee, Gil Young Cho, Moon Jeong Park, Cheol-Joo Kim, B. J. Kim (POSTECH, Korea), JaeDong Lee (DGIST, Korea), Moon-Ho Jo, and Jonghwan Kim (POSTECH, Korea)

[Mo4B-5] 18:15-18:30

Sensing of Bacteria Using Second Harmonic Generation in MoS₂ Monolayers

Young-Chul Kim and Yeong-Hwan Ahn (Ajou Univ., Korea)