

Session Title:	[Mo2C] Cold Atoms I
Session Date:	August 5 (Mon.), 2024
Session Time:	13:30-15:00
Session Room:	Room C (107-109)
Session Chair(s)	Prof. Xiaodong He (Chinese Academy of Sciences, China)

[Mo2C-1] [Invited] 13:30-14:00

Engineering and Understand Atomic Topological Matter with Non-Hermiticity

Gyu-Boong Jo (Hong Kong Univ. of Science and Tech., Hong Kong)

[Mo2C-2] 14:00-14:15

Transfer of Skyrmion Structure from Light to Ultracold Atomic Ensemble

Chirantan Mitra (Nanyang Technological Univ., Singapore), Chetan Madasu (Nat'l Univ. of Singapore, Singapore), Lucas Gabardos, Chang Chi Kwong, Yijie Shen, David Wilkowski (Nanyang Technological Univ., Singapore), and Janne Ruostekoski (Lancaster Univ., UK)

[Mo2C-3] 14:15-14:30

Pushing Single Atoms into an Optical Cavity Mode

Dowon Lee, Taegyu Ha, Donggeon Kim, Keumhyun Kim (POSTECH, Korea), Kyungwon An (Seoul Nat'l Univ., Korea), and Moonjoo Lee (POSTECH, Korea)

[Mo2C-4] 14:30-14:45

Simultaneous Trapping of Two Optical Pulses in an Atomic Ensemble as Stationary Light Pulses

U-Shin Kim and Yoon-Ho Kim (POSTECH, Korea)

[Mo2C-5] 14:45-15:00

Machine Learning-Enhanced Quantum State Tomography with Direct Parameter Estimations

Hsien-Yi Hsieh, Yi-Ru Chen, Jingyu Ning, Hsun-Chung Wu, Hua Li Chen, Zi-Hao Shi, Po-Han Wang, Popo Yang, Ole Steuernagel, Chien-Ming Wu, and Ray-Kuang Lee (Nat'l Tsing Hua Univ., Taiwan)