

Session Title:	[We3C] Cold Atoms II
Session Date:	August 7 (Wed.), 2024
Session Time:	15:45-17:15
Session Room:	Room C (107-109)
Session Chair(s)	Prof. David Hutchinson (Univ. of Otago, New Zealand)

[We3C-1] [Invited] 15:45-16:15

Toward Large Scalable Quantum Computing with Mixed-species Atom Array

Xiao-Dong He (Chinese Academy of Sciences, China)

[We3C-2] 16:15-16:30

Long-lived Collective Rydberg Excitations in Atomic Gas via Ac-Stark Lattice Modulation

Stanisław Kurzyňa, Bartosz Niewelt, Mateusz Mazelanik, and Wojciech Wasilewski Michał Parniak (Univ. of Warsaw, Poland)

[We3C-3] 16:30-16:45

State – Insensitive Magnetic Field Trap for Ground and Rydberg State ^{87}Rb Atom Produced by Optical Nanofiber

Alexey Vylegzhanin, Dylan Brown (Okinawa Inst. of Science and Tech., Japan), Danil F. Kornov (Aarhus Univ., Denmark), and Síle Nic Chormaic (Okinawa Inst. of Science and Tech., Japan)

[We3C-4] 16:45-17:00

Trapping a Free-propagating Single-photon into an Atomic Ensemble as a Quantum Stationary Light Pulse

U-Shin Kim (POSTECH, Korea), Yong Sup Ihn (Agency for Defense Development, Korea), Chung-Hyun Lee, and Yoon-Ho Kim (POSTECH, Korea)

[We3C-5] 17:00-17:15

Chronocyclic Processing Using a Multimode Atomic Quantum Memory

Mateusz Mazelanik, Bartosz Niewelt, Marcin Jastrzębski, Stanisław Kurzyňa, Jan Nowosielski, Wojciech Wasilewski, and Michał Parniak (Univ. of Warsaw, Poland)