

<b>Session Title:</b>	<b>[We3C] Cold Atoms II</b>
<b>Session Date:</b>	<b>August 7 (Wed.), 2024</b>
<b>Session Time:</b>	<b>15:45-17:15</b>
<b>Session Room:</b>	<b>Room C (107-109)</b>
<b>Session Chairs</b>	<b>TBA</b>

**[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 <sup>87</sup>Rb Atom Produced by Optical Nanofiber**

Alexey Vylegzhanin, Dylan Brown (Okinawa Inst. of Science and Tech., Japan), Danil F. Kornovan (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)