



Contribution ID: 196

Type: **Contributed Oral Presentation**

Multi-neutron correlations around the neutron drip line

Friday, 30 May 2025 08:55 (15 minutes)

Structure and neutron correlations of nuclei at and beyond the neutron drip line have attracted lots of attention in the last decades [1-3]. They are not only important for advancing our understanding of the structure and interactions of the finite nuclei, and could also bring new insights into the properties of neutron-rich matter that makes up neutron stars. In this talk, I will discuss our recent progress in light neutron-rich nuclei (^{11}Li , ^7He , ^8He) which are based on experiments performed at the RIKEN RIBF facility.

[1] Siwei Huang and Zaihong Yang, *Front. Phys.* 11, 1233175 (2023).

[2] F. M. Marqués and J. Carbonell, *Eur. Phys. J. A* 57, 105(2021) 57.

[3] Y. L. Ye et. al, *Nature Reviews Physics* (2024).

Primary author: Prof. YANG, Zaihong (Peking University)

Presenter: Prof. YANG, Zaihong (Peking University)

Session Classification: Parallel Session

Track Classification: Nuclear Structure