

“Clustering in light neutron-rich nuclei”

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Cluster aspect is one of the essential features in light unstable nuclei as well as stable nuclei. A variety of cluster states were suggested in the ground and excited states of neutron-rich Be, where the 2-alpha core and surrounding excess neutrons play important roles. Further rich cluster phenomena are expected in excited states of neutron-rich C because of 3-alpha and valence neutrons. In this talk, I will discuss the following topics on cluster phenomena based on the theoretical calculations of the antisymmetrized molecular dynamics:

1. Molecular orbitals and cluster resonances in Be isotopes
2. Low-lying and giant dipole resonances in Be
3. Linear chain in C isotopes

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