

Reaction dynamics and nuclear structure of light exotic nuclei

Tuesday, 28 May 2024 15:00 (30)

The nuclear chart corresponding to light radioactive nuclei has yielded many surprising results, among others, the discovery of the halo structures in neutron and proton dripline nuclei. This region of the nuclear chart is also rich of many other phenomena like the appearance of molecular-like structures where α -particle-clusters are bound together by the exchange of neutrons or the existence of cluster configurations where at least one of the clusters is a weakly bound nucleus.

This presentation will focus on the investigation of these particular features of the nuclear structure of light radioactive nuclei and how they influence the reaction dynamics. The availability of post-accelerated radioactive ion beams has opened new opportunities for such studies; future perspectives will also be discussed.

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Session Classification : Session 7