Critical Stability 2014



ID de Contribution: 23 Type: Non spécifié

Low-energy reactions involving halo nuclei

mardi 14 octobre 2014 15:00 (40 minutes)

Owing to the unusually large radius of halo nuclei, their interaction with a target extends to large distances, in comparison with non-halo nuclei. This property has important consequences on the calculation of the cross sections. On the other hand, halo nuclei are weakly bound, and present a low breakup threshold. Consequently, breakup channels must be included for a realistic description of the elastic cross sections.

Recent examples, involving 11Be, 9Be or 8B at energies close to the Coulomb barrier, will be presented.

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Classification de Session: Nuclei Close to Drip Line