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Low-energy reactions involving halo nuclei

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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 ^{11}Be , ^9Be or ^8B at energies close to the Coulomb barrier, will be presented.

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