## **Critical Stability 2011**



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## Near-Far Description of Elastic and Breakup Reactions of Halo Nuclei

The angular distributions for elastic scattering and breakup of halo nuclei are analysed using a near-side/farside decomposition within the framework of the dynamical eikonal approximation. This analysis is performed for 11 Be impinging on Pb at 69 MeV/nucleon. These distributions exhibit very similar features. In particular they are both near-side dominated, as expected from Coulomb-dominated reactions. The general shape of these distributions is sensitive mostly to the projectile-target interactions, but is also affected by the extension of the halo. This suggests the elastic scattering not to be affected by a loss of flux towards the breakup channel.

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