

عنوان مقاله:

Competition between different processes in the reactions induced by weakly bound nuclei

محل انتشار:

كنفرانس بين المللي پژوهش در علوم و مهندسي (سال: 1395)

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خلاصه مقاله:

The reactions with the stable weakly bound nucleus 9Be have studied using the classical trajectory model. In these calculations, using the experimental breakup function and the proximity type interaction potential, the no-capture breakup and the incomplete fusion cross sections as well as their competition at around the Coulomb barrier are investigated. The results of the calculations show that at a given far-Coulomb-barrier energy the incomplete fusion reaction in different distributions of angular momentum dominates the no-capture breakup reaction. While this .dominating process is reversed in the near-barrier energies

کلمات کلیدی: proximity interaction, classical trajectories, incomplete fusion, breakup

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