

Study of the complete fusion of the $7\text{Li} + 96\text{Zr}$ system at near-barrier energies

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The measurements of complete fusion cross sections for $7\text{Li} + 96\text{Zr}$ have been performed at the HI-13 Tandem Accelerator of the China Institute of Atomic Energy (CIAE) in Beijing at bombarding energies from 16 to 30 MeV in steps of 2 MeV by the online γ -ray method. The complete fusion cross sections at above-barrier energies were extracted. A comparison of complete fusion suppression with the existing data for $6\text{Li} + 96\text{Zr}$ with the present results have carried out. The γ rays from 97Zr (1p stripping channel) can be clearly identified.

Abstract Type

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