

¹⁰He

¹⁰He was first identified in 1994 by Korshennikov et al. in “Observation of ¹⁰He” (1994Ko16). Carbon and CD₂ targets were bombarded with a 61 MeV/u secondary ¹¹Li beam produced with the fragment separator RIPS at RIKEN, Japan. ¹⁰He could be produced in the ¹²C(¹¹Li, ¹⁰He)X or ²H(¹¹Li, ¹⁰He)³He reaction. The excitation energy spectrum of ¹⁰He was calculated from triple coincidence measurements of ⁸He and two neutrons. “Experimental data show a peak that can be explained as a resonance ¹⁰He, which is unbound by 1.2±0.3 MeV and its width is less than 1.2 MeV.”

The instability of ¹⁰He was demonstrated about twenty-seven years earlier by Cosper, Cerny, and Gatti (1967Co36).

Adapted from reference (2012Th01)

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