¹⁶**Ο**(*α*,⁸**He**) **1978Ke06**

TypeHistoryFull EvaluationJ. H. Kelley, J. E. Purcell and C. G. SheuNP A968, 71 (2017)Literature Cutoff Date

1978Ke06: Evidence for a resonance in ¹²O was first reported by (1978Ke06) who measured the ⁸He recoils following α particle bombardment of a ¹⁶O filled gas cell target. The analysis indicated $\Delta M(^{12}O)=32.10$ MeV 12, and also showed indications of an excited state near $E_x \approx 1.0$ MeV 1. In the discussion, an argument based on the Wigner limit for reduced widths, suggests the diproton decay branching ratio of the ground state is 30%-90%.

¹²O Levels

 $E(\text{level}) = 0 = \Delta M = 32.10 \text{ MeV } 12 \text{ is deduced.}$ $1.0 \times 10^3 I$

Comments