Ta(p,X) 2010Et01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, J. E. Purcell and C. G. Sheu	NP A968, 71 (2017)	1-Jan-2017

2010Et01: ^{12}Be: measured mass excess.

The authors used Penning trap to measure mass of ^{12}Be. M(^{12}Be)=12.0269223 u *23* or mass excess ΔM=25078.0 keV *21*. Applied isobaric mass multiplet equation for T=2 to 0^+, 2^+ and 0^+_2 states in mass 12 nuclei. Favors second T=2 state in ^{12}C to be 2^+.

^{12}Be produced by bombarding a tantalum target with 500-MeV proton beam at TRIUMF.

^{12}Be Levels

E(level)	J^π	Comments
0	0^+	ΔM=25078.0 keV *21* (2010Et01).