

U(p, ¹³B), ²³²Th(p, ¹³B) **1973Bo30**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu and J. E. Purcell		NDS 198,1 (2024)	1-Aug-2024

1973Bo30: Proton spallation cross sections on a uranium target, were measured at the Bevatron using 4.8 GeV protons. Reaction products including ¹³B were identified using ΔE vs E and ΔE vs time-of-flight techniques.

1991Re02: Spallation products from 800 MeV proton bombardment of a ²³²Th target were captured by a transport line with a mass-to-charge filter and transferred to the TOFI spectrometer at LAMPF. For ¹³B, the β-delayed neutron probability %β-n=0.3% *I* was deduced and T_{1/2} = 11 ms ⁹ was measured. A reanalysis of the (**1991Re02**) data, with additional data was published in the (**1994ReZZ**). The reanalysis indicates Pn=0.25% ¹⁵ and T_{1/2}=16.7 ms ⁶. See also (**1994KiZU**, **1995ReZZ**, **2008ReZZ**) for different lifetime values deduced from this dataset.

¹³B Levels

E(level)	T _{1/2}	Comments
0	16.7 ms ⁶	T _{1/2} : From (1994ReZZ).