^{232}Th(P,^{18}N) 1991Re02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	R. Spitzer, J. H. Kelley	ENSDF	30-Jun-2021

1991Re02: Spallation products from 800 MeV proton bombardment of a ^{232}Th target were captured by a transport line with a mass-to-charge filter and transfered to the TOFI spectrometer at LAMPF. The beam line was separately tuned to transport a number of different nuclides. The ions were implanted in a Si detector, and identification by standard techniques was implemented. The β-delayed neutrons were detected in a polyethylene moderated ^{3}He counter; half-lives and β-delayed neutron probabilities were deduced from analysis of the number of implanted ions (per beam pulse) and the rate of β-delayed neutrons detected in the zero-threshold counter. The β-delayed neutron probability =14.3% *20* was deduced along with $T_{1/2}$=790 ms *210*; an additional proceedings result of P_n=12.0% *13* (U. Koster et al., AIP Conf. Proc. 455 (1998) p. 989) is mentioned in the text.

A reanalysis of the (1991Re02) data, with additional data was published in (1994ReZZ). The reanalysis indicates P_n=(12.0 *13*)% and $T_{1/2}$=658 ms *44*. Other reanalyses of these data are found in (1993ReZX,1994KiZU,1995ReZZ,2008ReZZ).

^{18}N Levels

E(level)	$T_{1/2}$	Comments
0	658 ms *44*	%β^-n=12.0 *13* (1994ReZZ) $T_{1/2}$: From (1994ReZZ).