^{181}Ta(^{22}Ne,^{13}B),(^{20}Ne,^{13}B) 1988Sa04

History

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

1988Sa04: ^{13}B ions produced by fragmenting a 770 MeV ^{22}Ne beam on a thick ^{nat}Ta target were separated using the NSCL/RPMS. The beam was stopped in a ΔE-E-VETO telescope; detection of an ion in the telescope resulted in an *rf*-inhibit that prevented implantation of further activity. Implanted species were determined via ΔE-E particle identification and the half-life, $T_{1/2}$=17.6 ms *12*, was deduced from an event-by-event analysis of the implantation time vs the decay time.

1997So34: A beam of ^{13}B ions was produced by fragmentation of a 20 MeV/nucleon ^{20}Ne beam on a Ta target at the FLNR U-400 cyclotron facility. The ^{13}B beam was stopped at the center of a 182 element array of ^{3}He counters that incorporated a paraffin neutron moderator. $T_{1/2}$=17.0 ms *4* and P_n<0.03% were deduced for ^{13}B decay.

^{13}B Levels

E(level)	$T_{1/2}$	Comments
0	17.0 ms *4*	$T_{1/2}$: From (1997Sa04). See also T=17.6 ms *12* (1988Sa04). P_n<0.03% (1997Sa04).