^{14}N(p,2n)

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

1963Ba63: Study of residual decays from a ^{14}N(p,2n) study at the McGill synchrocyclotron. The ^{13}O nucleus was discovered based on observed β-p branches. See also (2012Th01).

1965Mc09: ^{14}N(p,2n) E=50 MeV; deduced ^{13}O β-p branches with E_p=6.06 and 6.65 MeV. $T_{1/2}$=8.7 ms *4*.

1970Es03, 1971EsZR: ^{14}N(p,2n) E=43 MeV; measured nine ^{13}O β-p branches and $T_{1/2}$=8.95 ms *20*.

1983AsZZ, 1984MiZR, 1990As01: ^{14}N(p,2n) E=45 MeV; studied ^{13}O decay. Reported $T_{1/2}$=8.50 ms *10* (1984MiZR); $T_{1/2}$=8.55 ms *5* (1984MiZR, 1990As01).

2005Kn02,2014Te01: ^{14}N(p,2n) deduced ^{13}O β-p branches.

^{13}O Levels

E(level)	$T_{1/2}$	Comments
0	8.55 ms *5*	$T_{1/2}$: From (1990As01).