^{20}Ne(^{3}He,3n) 1979Mo02,1981Ay01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, G. C. Sheu	ENSDF	20-June-2019

1979Mo02,1980MoZM,1981Ay01: Decay of the ^{20}Mg nucleus was studied by producing ^{20}Mg nuclei using the the ^{20}Ne(^{3}He,3n) reaction. Decay from ^{20}Mg to ^{20}Na*(6570), followed by proton decay to ^{19}Ne*(0, 238) was observed and used to determine the mass excess of the first T=2 member of the A=20 multiplet in ^{20}Na. The corresponding β^+ delayed proton groups were found to have energies of E_p=4.16 MeV *5* and 3.95 MeV *6*. Coefficients of the IMME were analyzed.

The decay half-life $T_{1/2}$=95 ms *+80−50* was deduced.

^{20}Mg Levels

E(level)	$T_{1/2}$
0	95 ms *+80−50*