## Ni(<sup>24</sup>Mg,<sup>20</sup>Mg) 1995Pi03

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

1995Pi05: States in <sup>20</sup>Na were studied by analyzing the  $\beta^+$  decay of <sup>20</sup>Mg. A beam of <sup>20</sup>Mg ions was produced by fragmenting a 95 MeV/nucleon <sup>24</sup>Mg beam in <sup>nat.</sup>Ni target. The <sup>20</sup>Mg beam was purified in the LISE3 spectrometer and implanted near the middle of a 300  $\mu$ m thick Si Strip detector. The strip detector was surrounded by two 500  $\mu$ m segmented Si  $\beta$ -ray detectors and three 70% HPGe detectors. Hence the delayed proton energy in the implantation detector could be correlated with  $\beta$  particles and delayed  $\gamma$ -rays. The coincidence data were analyzed to deduce the decay branches. The  $\%\beta^+p=30.3 \% 12$  was deduced. The half-life of <sup>20</sup>Mg was determined by analyzing the rate of two delayed protons, E<sub>p</sub>=802 and 1675 keV. T<sub>1/2</sub>=95 ms 3 is deduced and compared with prior results; the measurement (1992Go10) is suggested as having systematic errors.

<sup>20</sup>Mg Levels

E(level)	T <sub>1/2</sub>	Comments
0	95 ms 3	%β <sup>+</sup> p=30.3 <i>12</i> (1995Pi03)