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Ni( ${}^{20}\text{Ne}$ ,  ${}^{20}\text{Mg}$ ) **1964F103**

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

**1964F103:** An  $E_p=5$  MeV  $\beta^+$  delayed proton emitter was observed following  $E({}^{20}\text{Ne})=140$  MeV bombardment of a  $10\ \mu\text{m}$   ${}^{\text{nat}}\text{Ni}$  target. Analysis of the  $T_{1/2}=85$  ms  $15$  lifetime suggested this could be the first observation of  ${}^{20}\text{Mg}$ . The nuclei  ${}^{17}\text{Ne}$  and  ${}^{20,21}\text{Mg}$  were listed as potential candidates of nuclei that could produce such radiations; the observed lifetime is in good agreement with the presently accepted  ${}^{20}\text{Mg}$  value.

 ${}^{20}\text{Mg}$  Levels

<u>E(level)</u>	<u><math>T_{1/2}</math></u>
0	85 ms $15$