Ni(²⁰Ne,¹⁷Ne) **1964Fl03**

	History		
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, G. C. Sheu	ENSDF	16-Jan-2018

1963Ka36,1964Fl03: A beam of 140 MeV ²⁰Ne ions, from the JINR cyclotron, bombarded a 10 μ m thick ^{nat}Ni target that was upstream of a rotating aluminum disk. The reaction products escaping from the target were implanted in the disk and transported to a counter telescope comprising a thin aluminum absorber, a gas proportional counter and two Si surface barrier detectors. An E \approx 5 MeV proton group was observed in the β -delayed particles emitted from reaction products. The activity was also produced in ²⁰Ne bombardment of tantalum, copper and aluminum target, indicating the activity results from a multi-nucleon transfer on ²⁰Ne; ¹⁷Ne or ^{20,21}Mg were most favored. Analysis of the decay curve indicated T_{1/2}=85 ms 15.

¹⁷Ne Levels

E(level)	T _{1/2}		
0	85 ms 15		