
 $^1\text{H}(^{17}\text{Ne},\text{P})$ **2011As04**

<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	16-Jan-2018

The excitation function of $^{17}\text{Ne}+\text{p}$ scattering was measured in the range of $E_{\text{c.m.}} \approx 0.8$ to 3.6 MeV. The beam of 4 MeV/nucleon ^{17}Ne ions, from the GANIL/SPIRAL facility, impinged on a polypropylene (C_3H_6) target assembly. The target assembly consisted of a fixed $50 \mu\text{g}/\text{cm}^2$ C_3H_6 foil followed by a rotating (1000 rpm) C_3H_6 foil which stopped the beam and carried away the beams undesired decay radiation. The scattered protons were detected at $\theta_{\text{lab}} = 5^\circ$ to 20° with a annular position sensitive ΔE -E telescope. The excitation function is deduced using thick target inverse kinematics techniques, and ^{18}Na states are deduced. No clear evidence is observed for participation of ^{17}Ne excited states.

 ^{17}Ne Levels

<u>E(level)</u>	<u>J^π</u>
0	$1/2^-$