
 $^{16}\text{O}(^{14}\text{N}, ^{13}\text{B})$ [2000OI01](#)

		History	
<u>Type</u>	<u>Author</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	J. H. Kelley, G. C. Sheu	ENSDF	16-Jan-2018

[2000OI01](#): The products of $^{16}\text{O}(^{14}\text{N}, ^{13}\text{B})$ reactions were measured at 30 MeV/nucleon using the GANIL/SPEG spectrometer.

While the main focus of the experimental endeavor was on $^{10}\text{B}(^{14}\text{N}, ^{13}\text{B})^{11}\text{N}$ studies, background reactions were also analyzed including that resulting from oxygen in the target. At $\theta=1.2^\circ$ to 4.5° the ^{14}N reactions on ^{16}O were mainly found to populate the low-lying ^{17}Ne doublet at $E_x=3.02$ & 3.55 MeV; evidence is also found for groups at $E_x=1.28$, 1.86 and 5.3 MeV.

 ^{17}Ne LevelsE(level)

1.28×10^3
 1.86×10^3
 3.02×10^3
 3.55×10^3
 5.30×10^3