

Si(<sup>20</sup>N,X)    2006Kh08

		History		
<u>Type</u>	<u>Author</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>	
Full Evaluation	C. G. Sheu, J. H. Kelley	ENSDF	31-Dec-2018	

2006Kh08: A <sup>20</sup>N secondary beam was produced by fragmentation of a 60.3 MeV/nucleon <sup>48</sup>Ca beam using the GANIL/SISSI beam facility. The beams were analyzed using the  $\alpha$  spectrometer and delivered to the SPEG focal plane, where they impinged on a telescope stack of 4 cooled (−10°C) silicon detectors that were surrounded by a 4 $\pi$  array of 14 NaI  $\gamma$ -detectors. The energy dependent cross sections and the mean radius were measured.

$\sigma(37.71 \text{ MeV/nucleon})=2.02 \text{ b } 10.$

$\sigma(43.15 \text{ MeV/nucleon})=2.142 \text{ b } 19.$

$r_0^2(\text{mean radius})=1.247 \text{ fm}^2 \text{ } 11.$

See earlier work in (1991Vi04).

<sup>20</sup>N Levels

E(level)  
0