

Au(P,<sup>19</sup>N)    [1968Th04](#)

		History	
<u>Type</u>	<u>Author</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	G. C. Sheu, J. H. Kelley	ENSDF	06-Nov-2018

[1968Th04](#): A 3-GeV proton beam bombarded a gold target (10mg/cm<sup>2</sup>) at the Princeton-Pennsylvania Accelerator. The fragments produced were detected using a telescope consisting of four Si surface barrier detectors ( $\Delta E$ - $\Delta E$ -E-VETO) placed at  $\theta_{lab}=45^\circ$  relative to the incident beam. Reaction products were identified by  $\Delta E$ , E and the time-of-flight between the first two  $\Delta E$  detectors. The result provided the first observation of <sup>19</sup>N; see also ([1960Ze03](#),[2012Th01](#)).

<sup>19</sup>N Levels

E(level)  
0