

<sup>36</sup>Ar(p, $\alpha$ )    [1970Mo08](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh		NDS 199,1 (2025)	30-Sep-2024

[1970Mo08](#): E=12 MeV proton beam was produced from the NOR-CIT tandem accelerator. Targets were <sup>36</sup>Ar gas (99.94% enriched). Reaction products were detected with an array of 16 Au-Si surface-barrier detectors. Measured  $\sigma(E_d)$ . This measurement was used to confirm the existence of the 1978 level observed in their measurement of <sup>32</sup>S(<sup>3</sup>He,d) reaction.

<sup>33</sup>Cl Levels

E(level)	Comments
0	
810 <sup>†</sup>	
1990 20	Strongly populated as seen in the $\alpha$ spectrum ( <a href="#">1970Mo08</a> ).
2351 <sup>†</sup>	

<sup>†</sup> Numerical values are not reported for corresponding  $\alpha$  peaks in Fig. 16 of [1970Mo08](#); quoted values are taken from their measurement of <sup>32</sup>S(<sup>3</sup>He,d) reaction.