

$^2\text{H}(^{46}\text{Ar},\text{p})$  2006Ga28,2006Ga30

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	T. W. Burrows	NDS 108, 923 (2007)	20-Feb-2007

E=10 MeV/nucleon. Measured recoil proton spectra,  $\sigma(E,\theta)$ . SPIRAL facility; MUST (8 highly segmented double-sided Si detectors covering polar angles from  $110^\circ$  to  $170^\circ$  with respect to the beam direction) and position-sensitive gas-filled detector CATS; SPEG spectrometer.

All data from 2006Ga28. See 2006Ga30 for  $^{46}\text{Ar}(n,\gamma)$  capture rate based on these data.

 $^{47}\text{Ar}$  Levels

<u>E(level)</u>	<u>L</u>	<u>C<sup>2</sup>S'</u>
0.0	1	2.44 20
1130 75	1	1.62 12
1740 95	3	1.36 16
2655 80	3,(4)	1.32 <sup>†</sup> 18
3335 80	3,(4)	2.58 <sup>†</sup> 18
3985 85	4,(3)	3.40 <sup>†</sup> 40
4790 95		
5500 85	4	2.10 10
$6.20 \times 10^3$		10

<sup>†</sup> See 2006Ga30 for C<sup>2</sup>S results based on different assumptions.