

$^{36}\text{Ar}(p,t)$  1972Pa02,1969Br21

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Ninel Nica, Balraj Singh		NDS 113, 1563 (2012)	28-May-2012

**1972Pa02:** E=40-45 MeV, measured  $\sigma(\theta)$  using  $\Delta E$ -E detector telescopes of silicon counters, DWBA analysis of  $\sigma(\theta)$  data. FWHM=100-155 keV.

**1969Br21:** E=45 MeV, measured  $\sigma(\theta)$  using  $\Delta E$ -E detector telescopes of silicon counters, DWBA analysis of  $\sigma(\theta)$  data. The 0, 2090, 3300, 3900 and 4560 are identified as T=1 states.

Other:

**2009ObZY:** E(level)=4-12 MeV. Measured E(particle), I(particle).

**1974Ha02:** E=40.2 MeV. Measured Q value. Tritons for the g.s. to g.s. transition measured using split-pole magnetic spectrograph, FWHM=10-25 keV. Measures Q value=-19513  $\beta$ , deduced mass excess.

 $^{34}\text{Ar}$  Levels

E(level) <sup>†</sup>	L <sup>‡</sup>	Comments
0	0	
2094 11	2	<a href="#">Additional information 1.</a>
3288 14	2	<a href="#">Additional information 2.</a>
3879 <sup>#</sup> 15	0	<a href="#">Additional information 3.</a> L: $\sigma(\theta)$ consistent with L=0 for 3879+4050 unresolved group in <a href="#">1972Pa02</a> .
4050 <sup>#</sup> 14		
4522 14	(3)	L: neither L=2 nor L=3 fits $\sigma(\theta)$ data in <a href="#">1969Br21</a> , ( $3^-$ ) is preferred since first $3^-$ is expected near this energy. <a href="#">Additional information 4.</a>
4651 14		
4867 14		
4985 14	0	<a href="#">Additional information 5.</a>
5307 13		<a href="#">Additional information 6.</a>
5909 12		
6074 11	2	<a href="#">Additional information 7.</a> L: 2 for 5909+6074 doublet in <a href="#">1972Pa02</a> .
6525 9	2	
6794 11		<a href="#">Additional information 8.</a>
7322 6	2	<a href="#">Additional information 9.</a>
7499 4	(2)	<a href="#">Additional information 10.</a>
7925 5		<a href="#">Additional information 11.</a>

<sup>†</sup> From [1972Pa02](#), unless otherwise stated.

<sup>‡</sup> From [1969Br21](#), unless otherwise stated. For g.s., 2094 and 3288 levels, L values are confirmed in [1972Pa02](#).

<sup>#</sup> 3879+4050 and 5909+6074 were not fully resolved ([1972Pa02](#)).