

$^{36}\text{Ar}(\text{d},\text{n})$  [1970Ha37,1970Fu01](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	John Cameron, Jun Chen and Balraj Singh, Ninel Nica		NDS 113, 365 (2012)	15-Jan-2012

[1970Ha37,1970Fu01](#): E=5.6 MeV; measured tof,  $\sigma(\theta)$ ; did DWBA analysis and deduced levels and level parameters.

[1979SoZT](#): E=4.64 MeV; measured tof, angular distributions; deduced L values; see  $^{36}\text{Ar}(\text{d},\text{n}\gamma)$  dataset for complementary data from this reference.

Others: [1961Ya01](#) (E=3.85 MeV).

 $^{37}\text{K}$  Levels

E(level) <sup>†</sup>	J <sup>π</sup> <sup>†</sup>	L <sup>‡</sup>	(2J+1)C <sup>2</sup> S <sup>‡</sup>	Comments
0	3/2 <sup>+</sup>	2	2.0 6	E(level),L: level and L=(1,2) also observed by <a href="#">1979SoZT</a> .
1368 <sup>#</sup>	(1/2 <sup>+</sup> )	0 <sup>#</sup>	0.20 6	
1380 <sup>#</sup>	7/2 <sup>-</sup>	3 <sup>#</sup>	4.6 14	
2169	(3/2 <sup>-</sup> )	1	1.6 5	E(level),L: 2171 and L=1 In <a href="#">1979SoZT</a> .
2750	5/2 <sup>+</sup>	(2)	0.10 3	
3083	(5/2 <sup>-</sup> )	(3)	0.40 12	
3311	3/2 <sup>-</sup>	1	0.40 12	E(level),L: 3316 and L=1 In <a href="#">1979SoZT</a> .

<sup>†</sup> From [1970Ha37](#) citing [1967En05](#).

<sup>‡</sup> From [1970Ha37](#).

<sup>#</sup> Unresolved doublet 1371, 1381, L=0+3 In [1979SoZT](#).