

$^{40}\text{Ar}(\text{d},\text{n})$ [1970Ha37](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja, E. A. Mccutchan		NDS 133, 1 (2016)	30-Sep-2015

[1970Ha37](#) (also [1970Fu01](#)): E=5.6 MeV. Measured $\sigma(\theta)$ for neutrons with tof method (FWHM $\approx$ 80 keV); DWBA analysis.

Others:

[1958Be03](#): E=2.5, 3.0 MeV. Measured neutron energies using gas recoil fast neutron spectrometer. Three groups reported at 1370, 2400, and 3100 keV.

[1950Wo03](#): E=3.2 MeV. Measured neutron energies using recoil coincidence technique. Four groups reported at g.s., 1340, 3100 and 4400 keV.

 ^{41}K Levels

E(level) [†]	L [‡]	(2J+1)C ² S ^a	Comments
0	2	1.6	
980 [@]	0	0.16	
1294 [@]	3	2.0	E(level): other: 1340 150 (1950Wo03).
1650 [#] 50	1	0.32	
3100 ^{&}			
4400 ^{&}			
8380 [#] 20	(3)	0.9	(2J+1)C ² S: 1978En02 give (2J+1)S=4.5 (C ² =1/5 for T=5/2).
8760 [#] 20	1	0.03	
8870 [#] 20	1	0.09	(2J+1)C ² S: 1978En02 give (2J+1)S=0.45 (C ² =1/5 for T=5/2).

[†] From [1970Ha37](#).

[‡] From DWBA analysis ([1970Ha37](#)).

[#] Unresolved multiplet.

[@] From the Adopted Levels rounded to the nearest keV. [1970Ha37](#) provide values from the literature.

[&] From [1950Wo03](#), uncertainty is probably 200 keV.

^a [1978En02](#) quote (2J+1)S values (C²=1) for first four levels, adjusted upwards by $\approx$ 25%, based on standardized normalization factors deduced in [1977En02](#).