

$^{41}\text{K}(\text{d}, ^3\text{He})$ 1983Bh03

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 140, 1 (2017)	30-Sep-2015

$J^\pi(^{41}\text{K g.s.})=3/2^+$.

1983Bh03: E=22.8 MeV deuteron beam was produced from the Argonne National Laboratory cyclotron. Target was $160 \mu\text{g}/\text{cm}^2$

^{41}K . Charged particles were detected with a $\Delta\text{E-E}$ counter telescope (FWHM= 140 keV). Measured $\sigma(\text{E},\theta)$. Deduced levels, J, π , L-transfer, spectroscopic factors from DWBA analysis.

Other: 1972ChYI (E=35 keV).

All data are from 1983Bh03.

 ^{40}Ar Levels

Spectroscopic factor is defined by $C^2S=\sigma_{\text{exp}}/\sigma_{\text{DWBA}}/N$, with normalization constant $N=2.95$ (1966Ba54).

E(level)	L [†]	C ² S [†]
0	2	0.43
1450 30	2	0.72
2510 30	0+2	0.02,0.11
3210 30	0+2	0.28,0.18
3520 30	2	0.66
4360 30	0	0.39
4530 30		
5200 30	0	0.35
5820 30		
6230 30		

[†] From comparison of measured differential cross-sections with DWBA calculations (1983Bh03).