

$^{41}\text{K}(\text{d},\alpha)$ 1967Gr28

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 149, 1 (2018)	1-Jan-2018

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

1967Gr28: E=7.5 MeV. Measured $E(\alpha)$. Deduced levels, relative yields.

1969Bo30: E=4.7-4.8 MeV. Measured $\sigma(E,\theta)$. Deduced levels, J, π . $\theta=90^\circ-150^\circ$.

All data are from 1967Gr28, unless otherwise noted.

 ^{39}Ar Levels

E(level)	J^π &	relative yield@	E(level)	relative yield@	E(level)	relative yield@
0	$7/2^-$	90	3155 8	50	4175 \ddagger 8	
1272 5	$3/2^-$	30	3276 8	100	4252 8	260
1517 5	$3/2^+$	150	3358# 8	160	4332 8	40
2089 5	$5/2^-, 7/2^-$	130	3382# 8	150	4398 \dagger 8	180
2346 5		370	3450 8	16	4466 \dagger 8	690
2428 5		24	3524# 8	60	4572 8	190
2481# 5		160	3557# 8	80	4638 8	110
2510# 8		120	3619 8	80	4710 8	330
2634 \dagger 5		190	3682 8	80	4813 8	250
2751 5		110	3740 8	85	4904 8	100
2825 8		30	3820 8	180	4987 8	240
2952 8		46	3885 \dagger 8	800		
3049 8		60	3958 \dagger 8	270		

\dagger Indicated by 1967Gr28 as a possible multiplet. However, no other nearby levels occur in the Adopted Levels.

\ddagger Obscured by peak from ^{11}B .

Partially resolved.

@ At 30° ; estimated by evaluator from the spectrum figure in 1967Gr28.

& From Hauser-Freshbach fit to $\gamma(\theta)$ (1969Bo30).