^{39}K(p,t) 1978Na04,1973Be23

History

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

$J^\pi(^{39}K)=3/2^+$.
1978Na04,1976Na18: E=40 MeV, resolution 20 keV; DWBA analysis.
1973Be23: E=40.1 MeV, mass excess, isobaric multiplet mass equation.
Others: 1968Bu02, 1968Br23.

^{37}K Levels

E(level)†	Jπ‡	L†	E(level)†	Jπ‡	L†	E(level)†	Jπ‡	L†
0	$3/2^+$	0#	3240 *10*	$5/2^+,7/2^+$	2+4	4270		
1370@	1/2 to $7/2^+$	2#	3620	$3/2^+$	0+2	4721&	1/2 to $7/2^+$	2
2280	1/2 to $7/2^+$	2	3840			5045[a] *4*	$3/2^+$[b]	0#
2750	1/2 to $7/2^+$	2	3960			6670?[c] *20*	$(1/2^+)$[b]	

† From 1978Na04, unless noted otherwise.
‡ Deduced by evaluators from measured L values.
# From 1978Na04 and 1968Bu02.
@ From 1978Na04 and 1968Bu02.
& From 1973Be23 and 1978Na04.
[a] Weighted average of: 5045 *4* (1973Be23), 5045 *25* (1968Br23), 5035 *25* (1968Bu02); other: 5050 (1978Na04).
[b] From 1973Be23 from isobaric multiplet mass equation.
[c] From 1973Be23.