^{41}K(t,p) 1984Mo17

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen[#]	NDS 126, 1 (2015)	31-Mar-2015

Target ^{41}K $J^{\pi}=3/2^{+}$.

1984Mo17: E=15 MeV triton beam was produced from the University of Pennsylvania FN tandem accelerator. Target of 55 μg/cm^2 thick KCl enriched to 99.35% in ^{41}K. Protons were momentum analyzed with a multi-angle spectrograph and recorded in 7.5° intervals in the angular range 3.75°−86.25° (lab), FWHM=20 keV. Measured $\sigma(E_p,\theta)$. Deduced levels, J, π, L from DWBA analysis.

1978MeZX: ^{41}K(t,pγ) E=11.7 MeV.

All data from 1984Mo17.

^{43}K Levels

E(level)[†]	L[‡]	E(level)[†]	L[‡]	E(level)[†]	L[‡]	E(level)[†]	L[‡]
0	0	1517 *10*	2	2218 *10*	3	3190 *10*	2
560 *10*	2	1815 *10*	4	2512 *10*	(4)	3254 *10*	2
1007 *10*	3	1956 *10*	4	2548 *10*	1	3312 *10*	2
1113 *10*	2	2035 *10*	0	2784 *10*	2	3399 *10*	2
1214 *10*	2	2086 *10*	4	2879 *10*	2		

[†] Uncertainty of 10 keV assigned by 1990En08.

[‡] From comparison of $\sigma(\theta)$ data with DWBA calculations.