

$^{48}\text{Ca}(\text{p},\alpha)$ 1971MaXU

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. W. Burrows	NDS 109, 171 (2008)	30-Oct-2007

E=56.6 MeV. Measured $\sigma(\theta=10^\circ-50^\circ)$.

 ^{45}K Levels

E(level)	J^π [†]	L	S	E(level)	J^π [†]	L	S
0.0	3/2 ⁺	2		3.44×10 ³ 3			11.6
4.7×10 ² 3		0		3.69×10 ³ 3	5/2 ⁺	2	34.0
1.01×10 ³ 3	‡			3.97×10 ³ 3		(≥3)	64.0
1.08×10 ³ 3	‡			4.57×10 ³ 3		(≥3)	26.0
1.64×10 ³ 3	#			4.90×10 ³ 3			4.6
1.71×10 ³ 3	#			5.13×10 ³ 3		(≥3)	16.0
2.18×10 ³ 3		3	23.0	7.77×10 ³ 5			
2.75×10 ³ 3		(>3)	14.6	12.62×10 ³ 5	5/2 ⁻ , 7/2 ⁻ @	3	29.5
3.29×10 ³ 3		(≥3)	24.0				

[†] From J-dependence of angular distributions for L=2 transitions, except As noted.

[‡] L=(3⁺...).

L=(2⁺...).

@ IAS of ^{45}Ar g.s..