

$^{48}\text{Ca}(\text{d},\alpha),(\text{d},\alpha\gamma)$ **1974Da19,1974Fr10,1971Pa16**

Type	Author	History	
Full Evaluation	S. -c. Wu	Citation	Literature Cutoff Date
		NDS 91, 1 (2000)	15-Jul-2000

E=7 MeV ($\text{d},\alpha\gamma$); measured $\alpha\gamma$; E=17 MeV; measured $\sigma(E,\theta)$ DWBA analysis ([1974Da19](#)).E=80.2 MeV; measured $\sigma(E,\theta)$, DWBA analysis ([1974Fr10](#)).E=11.0 MeV; measured $\sigma(E,\theta)$, L assignments from comparison with transitions of known L value ([1971Pa16](#)). ^{46}K Levels

E(level) [†]	J ^π @	L&	Comments
0	2 ⁻	(1+3)	
587	3 ⁻	3	L: L=5 assigned by 1971Pa16 .
691	4 ⁻	(3+5)	L: L=5 assigned by 1971Pa16 .
886		5	L: L=3 assigned by 1971Pa16 .
1370	3 ⁻	3	
1738	4 ⁻	(3)	
1941	1 ⁺	(0+2)	
3350 [‡]			
3610 [‡]			
4340 [‡]	3 ⁺ #	4	
4540 [‡]			
5950 [‡]	7 ⁺ #	6	

[†] From [1974Da19](#), except as noted; ΔE not given.[‡] From [1974Fr10](#); ΔE not given.# From analysis by [1974Fr10](#).@ From analysis of angular distributions ([1974Da19](#)) and decay arguments, except as noted.& From [1974Da19](#), [1974Fr10](#). $\gamma(^{46}\text{K})$

E _γ [†]	I _γ	E _i (level)	J _i ^π	E _f	J _f ^π
103.5 5	31 7	691	4 ⁻	587 3 ⁻	
194.6 5	6.3 10	886		691 4 ⁻	
587.3 5	100	587	3 ⁻	0 2 ⁻	
679.0 5	5.0 13	1370	3 ⁻	691 4 ⁻	
691.0 5	11.9 22	691	4 ⁻	0 2 ⁻	
1151 2	6.6 23	1738	4 ⁻	587 3 ⁻	
1941 2	29 12	1941	1 ⁺	0 2 ⁻	

[†] From [1974Da19](#).

