

$^{210}\text{Po}(\text{d,p})$ 1979Bh01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. K. Tuli, P. Blokhin, J. Kaur, J. Y. Lee and N. Sharma		NDS 114, 661 (2013)	28-Feb-2013

E=17.0 MeV. Measured $\sigma(\theta)$.

For level calculations and interpretation of $^{210}\text{Po}(\text{d,p})^{211}\text{Po}$ reaction, see also [1982Mu06](#).

 ^{211}Po Levels

Analysis: $\sigma(\theta)_{\text{exp}} = N \cdot \sigma(\theta)_{\text{DWUCK}}$ with N=1.53.

E(level)	$J^{\pi\ddagger}$	L	S^\dagger	Comments
0.0	9/2 ⁺	4	0.89	S: if g _{9/2} .
685 10	11/2 ⁺	6	0.95	S: if i _{11/2} .
1049 10	5/2 ⁺	2	0.28	S: if d _{5/2} .
1120 10	7/2 ⁺			
1155 10	(9/2 ⁺)			
1378 10	3/2 ⁺ ,5/2 ⁺	2	0.08	S: if d _{5/2} .
1436 10		(2)	(0.05)	S: if d _{5/2} .
1799 10	3/2 ⁺ ,5/2 ⁺	2	0.40	S: if d _{5/2} .
2022 10				
2084 10	1/2 ⁺	0	0.56	
2161 10	(1/2 ⁺)	(0)	(0.20)	
2315 10				
2364 10				
2390 10				
2414 10				
2456 10				
2560 10				
2606 10	7/2 ⁺ ,9/2 ⁺	4	0.29	S: if g _{7/2} .
2639 10	7/2 ⁺ ,9/2 ⁺	4	0.12	S: if g _{7/2} .
2661 10	3/2 ⁺ ,5/2 ⁺	2	0.13	S: if d _{3/2} .
2691 10				
2753 10				
2862 10	7/2 ⁺ ,9/2 ⁺	4	0.32	S: if g _{7/2} .
2910 10	3/2 ⁺ ,5/2 ⁺	2	0.51	S: if d _{3/2} .
2990 10				
3003 10				
3043 10				
3067 10				
3175 10				
3252 10		2(+4)	0.22	S: if d _{3/2} .
3384 10				
3436 10				
3754 10				
3869 10				
3874 10				

[†] Spectroscopic factor based on the tentative configuration assignment. For L=2 (d_{3/2} and d_{5/2}) and L=4 (g_{7/2} and g_{9/2}), this assignment has been made purely on the basis of level energy.

[‡] From Adopted Levels.