^{27}Al(e,e′)   **1980Hi03,1983Ry03**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 112,1875 (2011)	30-Nov-2010

Others: 1987Ra26, 1983Do01.

1980Hi03,1983Ry03: ^{27}Al(e,e′), E=70-340 MeV; measured $\sigma(E,\theta)$ at 90°, 160° and 180°. ^{27}Al levels deduced $\beta(\lambda)$, δ. Strong coupling, weak-coupling models, DWBA analysis.

^{27}Al Levels

E(level)[†]	J$^\pi$[@]	T$_{1/2}$[&]	Comments
0	5/2$^+$		
844	1/2$^+$		
1014	3/2$^+$		
2211	(7/2$^+$)		
2735	5/2$^+$		
2981	3/2$^+$		
3004	(9/2$^+$)		
3680	1/2$^+$		
3957	3/2$^+$		
4055[‡]	1/2$^-$		
4410	5/2$^+$		
4510	(11/2$^+$)		
4580	(7/2$^+$)		
4812	5/2$^+$		
5155.6[‡] 8	3/2$^-$		
5248	5/2$^+$		
5420	(9/2$^+$)		
5433	7/2		
5438	5/2$^-$		
5500	11/2$^+$		
5551	5/2		
5668	9/2$^+$		
5827.0[‡] 8	3/2$^-$		
5960	(7/2)		
6158.4[‡] 7	3/2$^-$		
6477.3[‡] 9	(7/2)$^-$		
6512	9/2		
6533	7/2$^+$		
6605	3/2$^-$		
6651.3[‡] 7	5/2$^-$		
6713	9/2$^+$		
6948	11/2$^+$		
6993[‡]	5/2 to 9/2		
7227.2[‡] 8	9/2$^-$		
7413[#] 1	7/2$^+$	0.52 fs 6	(2J+1)Γ_γ=5.8 6.
7477.1[‡] 9	7/2$^-$		
7578[#] 2	5/2$^+$	0.29 fs 4	(2J+1)Γ_γ=4.4 6.

[†] Reported in 1983Ry03, except otherwise noted. Level energies from Adopted Levels.
[‡] Reported in 1980Hi03.
[#] From 1987Ra26.
[@] From Adopted Levels.
[&] Deduced by the evaluator using reported (2J+1)Γ_γ (1987Ra26).