

$^{27}\text{Al}(\text{p},\text{n}\gamma)$ 1985Ti09,1972Mo02,1971We12

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

1985Ti09: $^{27}\text{Al}(\text{p},\text{n}\gamma)$, E=9-14 MeV; Detectors: plastic scintillator, liquid scintillator, and Ge(Li); measured $\text{n}\gamma$ -coin, Doppler Shift Attenuation (DSA); deduced level meanlives, transition strength, γ -multipolarity, δ .

1972Mo02: $^{27}\text{Al}(\text{p},\text{n}\gamma)$, E=16,23 MeV; Ge(Li) detector; measured $E\gamma$, $I\gamma$, $\text{n}\gamma$ coin; deduced levels, γ -ray branching ratio.

1971We12: $^{27}\text{Al}(\text{p},\text{n}\gamma)$, Natural ^{27}Al target, E=9.3, 10.5, 11.5 MeV; Detectors: NE213 and Ge(Li); measured level meanlives using the Doppler Shift Attenuation method.

 ^{27}Si Levels

E(level) [†]	$T_{1/2}$ [‡]	Comments
0		
781.2 2	>6 ps	$T_{1/2}$: From 1971We12.
957.6 2	1.11 ps 8	$T_{1/2}$: Other: 1.22(14) ps (1971We12).
2163.5 3	60 fs 9	$T_{1/2}$: Other: 37(6) fs (1971We12).
2647.7 3	<26 fs	$T_{1/2}$: Other: 26(11) fs (1971We12).
2866.5 3	30 fs 18	$T_{1/2}$: Other: <10 fs (1971We12).
2910.0 3	76 fs 17	$T_{1/2}$: Other: 52(10) fs (1971We12).
3540.2 11	<62 fs	
3802.6 7	<28 fs	
4138.1 14	<15 fs	
4289.2 9	<15 fs	
4446.6 4	409 fs 35	
4475.7 12	<24 fs	
4703.8 11	<22 fs	
5062 2	<55 fs	
5208 2	<35 fs	
5284.0 8	<31 fs	
5317.0 6	<31 fs	
5391.7 16	<30 fs	
5497 2	<10 fs	

[†] Quoted from 1985Ti09.

[‡] From 1985Ti09, except otherwise noted.