^{12}C(^{32}S,^{8}Be)   2006Sp01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Ninel Nica, John Cameron and Balraj Singh	NDS 113, 1 (2012)	31-Dec-2011

2006Sp01: E=65 MeV, measured Eγ, $\gamma(\theta,H,t)$, particle-γ coin, DSAM. Deduced g factors, T$_{1/2}$, B(E2). Transient field technique.

^{36}Ar Levels

E(level)[†]	J$^{\pi}$[†]	T$_{1/2}$	Comments
0.0	0$^+$		
1970.38 5	2$^+$	450 fs 14	g=+0.52 18 (2006Sp01)
			T$_{1/2}$: mean lifetime τ In fs: 650 20 (2006Sp01).
4178.32 11	3$^-$		
4414.40 16	4$^+$	76 fs 8	T$_{1/2}$: mean lifetime τ In fs: 110 12 (2006Sp01).
4951.4 4	2$^+$	22 fs 3	T$_{1/2}$: mean lifetime τ In fs: 32 4 (2006Sp01).
5171.13 16	5$^-$		

[†] ADOPTED values.

$\gamma(^{36}$Ar)

E$_{\gamma}$[†]	E$_i$(level)	J$^{\pi}_i$	E$_f$	J$^{\pi}_f$
992.8	5171.13	5$^-$	4178.32	3$^-$
1970.3	1970.38	2$^+$	0.0	0$^+$
2207.9	4178.32	3$^-$	1970.38	2$^+$
2443.9	4414.40	4$^+$	1970.38	2$^+$
4951.0	4951.4	2$^+$	0.0	0$^+$

[†] ADOPTED values.

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Level Scheme

$^{36}_{18}$Ar$_{18}$