

$^{12}\text{C}(^{34}\text{S}, ^8\text{Be}\gamma)$ 2006Sp01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 152, 1 (2018)	30-Sep-2017

2006Sp01: E=67 MeV ^{34}S beam was produced from the Munich tandem accelerator. Target was natural carbon. γ rays were detected with NaI(Tl) scintillators and a Ge detector and scattered ions were detected with a Si counter. Measured $E\gamma$, $2\alpha\gamma$ -coin, particle- $\gamma(\theta)$, precession angles for g-factor, Doppler-shift attenuation. Deduced levels, lifetimes, g-factors, B(E2) values. Comparisons with shell-model calculations.

 ^{38}Ar Levels

g-factors are deduced from measured precession angles and lifetimes using the transient magnetic field technique (2006Sp01).

E(level)	J^π [†]	$T_{1/2}$ [‡]	Comments
0	0 ⁺		
2167	2 ⁺	492 fs 21	g=+0.24 12 (2006Sp01)
3377	0 ⁺		
3810	3 ⁻		
3937	2 ⁺	47 fs 6	g=+1.1 11 (2006Sp01)
4480	4 ⁻		
4565	2 ⁺	35 fs 3	
4586	5 ⁻		

[†] From Adopted Levels.

[‡] From 2006Sp01 by DSAM.

 $\gamma(^{38}\text{Ar})$

E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π
106	4586	5 ⁻	4480	4 ⁻
670	4480	4 ⁻	3810	3 ⁻
775	4586	5 ⁻	3810	3 ⁻
1210	3377	0 ⁺	2167	2 ⁺
1643	3810	3 ⁻	2167	2 ⁺
2167	2167	2 ⁺	0	0 ⁺
2398	4565	2 ⁺	2167	2 ⁺
3937	3937	2 ⁺	0	0 ⁺

[†] Reported in 2006Sp01.

$^{12}\text{C}(^{34}\text{S}, ^8\text{Be}\gamma)$ 2006Sp01Level Scheme