^{12}C(t,$\alpha\gamma$) 1968Be30,1988Si08

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu	NP A880,88 (2012)	1-Jan-2011

1965Aj01: ^{11}B, measurednot abstracted; deduced nuclear properties.
1967Ch35: ^{12}C(t,α) E=0.6-3 MeV, measured σ(E,θ).
1968Be30: ^{12}C(t,α) E=7.48, 7.68 MeV, measured I_γ(E_{ALPHA},THETA($\alpha\gamma$)), I_γ(E_G,THETA(pγ)). ^{11}B levels deduced J, γ-branching, δ.
1969Et01: ^{12}C(t,α) E=0.6-3.4 MeV, measured σ(E,θ).
1970Aj01: ^{12}C(t,α) E=20 MeV, measured σ(E_α,θ). Deduced Q.
1987Fo21: ^{12}C(t,α) E=33 MeV, measured σ(E_α), σ(θ). Deduced model parameters. DWBA analysis.
1988Si08: ^{12}C(t,α) E=38 MeV, measured σ(θ). Deduced potential parameters. ^{11}B levels deduced Γ, spectroscopic factors. DWBA analyses.
1991Pi09: ^{12}C(t,α) E=33 MeV, measured σ(θ). ^{11}B levels deduced spectroscopic factors.

^{11}B Levels

E(level)	J^π	E(level)	J^π	E(level)	J^π	E(level)	J^π
0	$3/2^-$	5.02×10^3	$3/2^-$	7.98×10^3	$3/2^+$	9.2×10^3	
2.12×10^3	$1/2^-$	6.74×10^3		8.56×10^3	$(3/2^-)$	9.87×10^3	$3/2^+$
4.44×10^3	$5/2^-$	7.29×10^3	$5/2^+$	8.9×10^3	$5/2^-$		

γ(^{11}B)

E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	Comments
2.90×10^3	12.0 *25*	5.02×10^3	$3/2^-$	2.12×10^3	$1/2^-$	M1+E2	−0.05 *2*	A_2=−0.4 *2*; A_4=−0.1 *3* δ, branching ratio from (1968Be30).
4.44×10^3	>97	4.44×10^3	$5/2^-$	0	$3/2^-$	M1+E2	−0.19 *3*	A_2=0.02 *3*; A_4=−0.09 *5* δ, branching ratio from (1968Be30).
5.02×10^3	88.0 *25*	5.02×10^3	$3/2^-$	0	$3/2^-$	M1+E2	0.03 *5*	A_2=0.35 *4*; A_4=0.0 *1*

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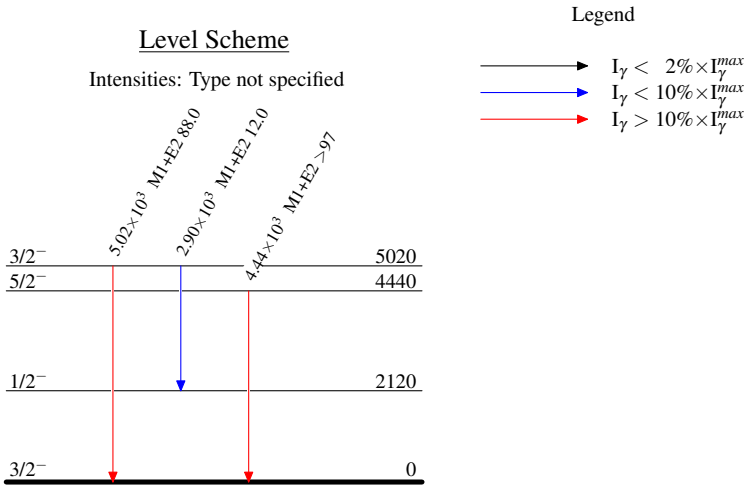
Level Scheme

Intensities: Type not specified



$^{11}_{5}B_{6}$