^{4}He(α,γ) 2004Ti06

History

Type	Author	Citation	Literature Cutoff Date
Update	J. H. Kelley, J. L. Godwin, C. G. Sheu	ENSDF	31-Mar-2004

1975Na12: ^{4}He(α,γ) E=33-38 MeV, measured σ(E,E$_\gamma$). ^{8}Be levels deduced M1 Γ.
1977Pa26: ^{4}He(α,γ) E=33.4-35 MeV, measured E$_\gamma$, I$_\gamma$(E) ^{8}Be level deduced Γ_γ.
1978Bo30: ^{4}He(α,γ) E=32-36 MeV, measured σ(E,θ). ^{8}Be resonances deduced radiative widths, δ.
1979LoZU: ^{4}He(α,γ) E not given, measured σ(E$_\gamma$,θ). ^{8}Be levels deduced Γ_γ for T=1, M1 transition.
1994De30: ^{4}He(α,γ) E≈resonance, measured γ(θ,E). ^{8}Be deduced resonances δ, mixing parameter, Γ(M1), Γ(E2).
1995De18: ^{4}He(α,γ) E=33-34.7 MeV, measured γ yield vs. E, I$_\gamma$(θ). ^{8}Be deduced doublet decay features, δ(E2/M1), Γ_γ, $\beta(\lambda)$.
2001HaZZ: ^{4}He(α,γ) E=33-35 MeV, measured $\sigma(\theta)$.

^{8}Be Levels

E(level)	Comments
0.0	
3.18×10^{3} *5*	
11.4×10^{3}	
16.6×10^{3}	Unresolved.
16.9×10^{3}	Unresolved.

γ(^{8}Be)

E$_\gamma$	E$_i$(level)	E$_f$	Comments
3.18×10^{3}	3.18×10^{3}	0.0	Γ_γ: 8.3×10^{-3} eV (calculated in 1986La05).
11.4×10^{3}	11.4×10^{3}	0.0	Γ_γ: 0.46×10^{-3} eV (calculated in 1986La05).
16.6×10^{3}	16.6×10^{3}	0.0	$\Gamma_{\gamma0}$=7.0E−2 eV *25* (1995De18).
16.9×10^{3}	16.9×10^{3}	0.0	$\Gamma_{\gamma0}$=8.4E−2 eV *14* (1995De18).

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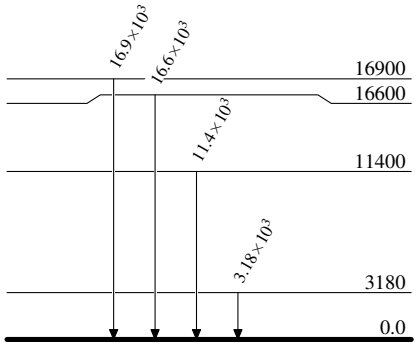
Level Scheme



$^{8}_{4}Be_{4}$