^{9}Be(^{3}He,α)   **2004Ti06**

History

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

1966Su04: ^{9}Be(^{3}He,α) E(^{3}He)=3.0 MeV, measured α-$\alpha(\theta)$. ^{8}Be deduced J, π.

1968Ar12: ^{9}Be(^{3}He,α) E=19-37 MeV, measured $\sigma(E_\alpha)$, $\sigma(E_\alpha,\theta)$. ^{8}Be deduced levels, L$_n$, S.

1973Ro28: ^{9}Be(^{3}He,α) E=2.9-10.0 MeV, measured $\sigma(E,\theta)$.

1974Ca32: ^{9}Be(^{3}He,α) E=5.0 MeV, measured α-continuum. Deduced contribution to 2α, 3α decay modes.

1975Bi14: ^{9}Be(^{3}He,α) E=4, 5, 7 MeV, measured $\sigma(E_\alpha,\theta)$. ^{8}Be deduced levels, isobaric spin mixing.

1975Ro09: ^{9}Be(^{3}He,α) E=2-10 MeV, measured $\sigma(E,E_\alpha,\theta)$ α-α-coin, α-$\alpha(\theta,t)$. DWBA analysis.

1976Aj01: ^{9}Be(^{3}He,α) E=49.3 MeV, measured $\sigma(E_\alpha,\theta)$. ^{8}Be deduced levels, Γ.

1976Ka23: ^{9}Be(pol. ^{3}He,α) E=33.3 MeV, measured $\sigma(\theta)$, A(θ). Deduced J-dependence. ^{8}Be levels deduced S.

1985Pu03: ^{9}Be(^{3}He,α) E=9.94 MeV, analyzed breakup $\sigma(\theta_{\alpha_1}, \theta_{\alpha_2}, E_{\alpha_1})$. ^{8}Be deduced resonances, Γ.

1992Ko26: ^{9}Be(^{3}He,α) E=9.94 MeV E=0.68-1.98 MeV, analyzed data. Deduced two-cluster system resonance parameter variation features.

^{8}Be Levels

E(level)	T$_{1/2}$	S	Comments
0.0			
2900 *40*	1.35 MeV *15*		
11.4×10^3	≈2.6 MeV		Γ: from (1966Ca08,1967Ca13).
16.6×10^3			
16.9×10^3		1.74	
17.6×10^3		0.72	
19.22×10^3 *3*	265 keV *30*	1.17	
19.9×10^3			
22.05×10^3 *10*	270 keV *70*		
22.55×10^3? *6*	186 keV *32*		
22.63×10^3 *10*	100 keV *50*		
22.98×10^3 *10*	230 keV *50*		
≈25.×10^3?			