

$^9\text{Be}(^3\text{He},\text{d})$ 1988Aj01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu and J. L. Godwin, et al.		NP A745 155 (2004)	31-Mar-2004

1966Fo08: $^9\text{Be}(^3\text{He},\text{d})$ E=9 MeV, measured $\sigma(E_d, \theta)$. ^{10}B deduced levels, J, π , L.

1967Cr04: $^9\text{Be}(^3\text{He},\text{d})$ E=10 MeV, measured $\sigma(E_d, \theta)$, $\sigma(E_t, \theta)$. ^{10}B deduced DWBA fits.

1976Ka23: $^9\text{Be}(\text{pol. } ^3\text{He}, \text{d})$ E=33.3 MeV, measured $\sigma(\theta)$, $A(\theta)$. Deduced J-dependence. ^{10}B levels deduced S.

1980BI02: $^9\text{Be}(^3\text{He},\text{d})$ E=18 MeV, measured $\sigma(\theta)$. ^{10}B levels deduced L, π , S. DWBA analysis.

1993Ar14: $^9\text{Be}(^3\text{He},\text{d})$ E=32.5 MeV, measured $\sigma(\theta)$. Deduced model parameters, vertex constants. ^{10}B levels deduced spectroscopic factors.

1996Ar07: $^9\text{Be}(^3\text{He},\text{d})$ E=22.3-34 MeV, measured $\sigma(\theta)$, $\sigma(E_d)$. Deduced reaction mechanism. ^{10}B level deduced spectroscopic factors, vertex constants.

1998Ar15: $^9\text{Be}(^3\text{He},\text{d})$ E=42 MeV, measured $\sigma(E_x, \theta)$. DWBA, dispersion approach.

 ^{10}B Levels

E(level)	J^π	$T_{1/2}$	L	$(2J+1)C^2S$ see (1988Aj01)	Comments
0	3^+		1	3.30	
717 10	1^+		1	2.76	E(level): from (1960Hi08).
1744 10	0^+	<19 fs	1	1.20	E(level): from (1960Hi08).
2156 10	1^+		1	0.82	Γ : from $T_{\text{mean}} < 28$ fs (1966Fi01, 1968Fi09).
3.59×10^3	2^+		1	0.29	E(level): from (1960Hi08).
4.77×10^3			1+(3)		
5.11×10^3			0+2		
5.16×10^3					unresolved.
5.18×10^3					unresolved.
5.92×10^3	2^+		1	2.05	
6.03×10^3			(3)	≤ 0.20	
6.13×10^3			(2)	3.04	
6.56×10^3			(2)	2.01	