

${}^6\text{Li}({}^6\text{Li},\alpha)$ 2004Ti06

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

1964Ma26: ${}^6\text{Li}({}^6\text{Li},\alpha)$ E(${}^6\text{Li}$)=2-4.4 MeV, measured $\sigma(\theta,E)$.

1966Be22: ${}^6\text{Li}({}^6\text{Li},\alpha)2\alpha$ E=2.75 MeV, measured $\alpha\text{-}\alpha(\theta,E_\alpha)$.

1968Da20: ${}^6\text{Li}({}^6\text{Li},\alpha)$ E=24.5 MeV, measured $\sigma(E_\alpha,\theta)$, $\sigma(E_\alpha)$. ${}^8\text{Be}$ deduced levels, L.

1969In06: ${}^6\text{Li}({}^6\text{Li},\alpha)$ E=6 MeV, measured $\sigma(E_\alpha,\theta_{\alpha_1},\theta_{\alpha_2})$. ${}^8\text{Be}$ deduced resonances, Γ -level.

1970Fr06: ${}^6\text{Li}({}^6\text{Li},\alpha)2\alpha$ E=4-24 MeV, measured $\sigma(E,\theta)$.

1971G107: ${}^6\text{Li}({}^6\text{Li},\alpha)$ E=26, 30 MeV, measured $\sigma(E_\alpha,\theta)$. ${}^8\text{Be}$ deduced resonances.

1971No04: ${}^6\text{Li}({}^6\text{Li},\alpha)$ E not given, analyzed $\sigma(E_\alpha)$. ${}^8\text{Be}$ levels deduced Γ -level.

1983Mi10: ${}^6\text{Li}({}^6\text{Li},\alpha)$ E=3.5-6.8 MeV, measured $\sigma(\theta)$ vs E.

1990Le05: ${}^6\text{Li}({}^6\text{Li},\alpha)$ E=2-16 MeV, measured $\sigma(\theta)$, $I_\gamma(\text{THETA})$. Deduced fusion $\sigma(E)$, reaction mechanism.

 ${}^8\text{Be}$ Levels

E(level)	$T_{1/2}$
0.0	
3.0×10^3	
11.4×10^3	
16.6×10^3	90 keV
16.9×10^3	70 keV
$19.9 \times 10^3?$	1.3 MeV
$22.2 \times 10^3?$	
22.5×10^3	