

${}^9\text{Be}(p,\alpha)$ 2002Ti10,1976De30,1992Pe12

| Type | Author | History | Citation | Literature Cutoff Date |
|-----------------|---------------------------|---------|-------------------|------------------------|
| Full Evaluation | Hu, Tilley, Kelley et al. | | NP A708, 3 (2002) | 23-Aug-2001 |

- 1965Br28: ${}^9\text{Be}(P,\alpha)$ E=3.0-4.5 MeV, measured Q.
1966La20: ${}^9\text{Be}(P,\alpha)$ E=7.0, 8.0, 9.0 MeV, measured $\sigma(E,E_d)$, $\sigma(E,E_\alpha)$. ${}^6\text{Li}$ deduced levels, Γ .
1967Ac01: ${}^9\text{Be}(P,\alpha)$ E=38 MeV, measured $\sigma(E_\alpha,\theta)$.
1968Si07: ${}^9\text{Be}(P,\alpha)$ E=2-2.1 MeV, measured $\sigma(E,\theta)$ for elastic scattering.
1970Gu06: ${}^9\text{Be}(P,\alpha)$ E=26.7 MeV, measured $\sigma(\theta)$, $\sigma(E,\theta)$.
1970Ko25: ${}^9\text{Be}(P,\alpha)$ E=665 MeV, measured σ .
1971Ar37: ${}^9\text{Be}(P,\alpha)$ E=32, 16 MeV, measured $\sigma(E(\alpha_1),E(\alpha_2))$. ${}^6\text{Li}$ levels deduced, Γ , J, π .
1972De01: ${}^9\text{Be}(P,\alpha)$ E_p=45.0 MeV, measured $\sigma(\theta=20\text{-}160^\circ \text{ C.M.})$.
1973Ar05: ${}^9\text{Be}(P,\alpha)$ measured (particle)(particle)-coin. ${}^6\text{Li}$ levels deduced decay modes.
1973Ma59: ${}^9\text{Be}(P,\alpha)$ E=2.2-2.8 MeV measured $\sigma(E,\theta)$.
1974Du08: ${}^9\text{Be}(P,\alpha)$ E=30 MeV, measured $\sigma(E_\alpha)$. ${}^6\text{Li}$ deduced levels.
1976De30: ${}^9\text{Be}(P,\alpha)$ E=30-75 MeV, measured $\sigma(E,E_\alpha,\theta)$. ${}^6\text{Li}$ deduced levels. Phase-space analysis.
1976Ki17: ${}^9\text{Be}(P,\alpha)$, measured $\sigma(E_\alpha,\theta)$.
1977Ki08: ${}^9\text{Be}(P,\alpha)$ E=4.9-5 MeV, measured γ -spectra. ${}^6\text{Li}$ deduced levels.
1983De15: ${}^9\text{Be}(P,\alpha)$ E=30, 50 MeV, measured $\sigma(E_\alpha)$, ${}^6\text{Li}$ deduced resonance energies, Γ . Phase space model.
1986Ha27: ${}^9\text{Be}(P,\alpha)$ E=18-45 MeV, measured $\sigma(E,\theta)$. ${}^6\text{Li}$ levels deduced spectroscopic factors.
1989Gu05: ${}^9\text{Be}(P,\alpha)$ E=50 MeV, measured $\sigma(\theta)$, deduced model parameters, structure effects.
1992Pe12: ${}^9\text{Be}(P,\alpha)$ E=25, 30 MeV, measured $\sigma(\theta)$, deduced $\sigma(E)$, model parameters. ${}^6\text{Li}$ levels deduced, DWBA analysis.
1997Fa17: ${}^9\text{Be}(P,\alpha)$ E=40 MeV, measured $\sigma(\theta)$, ALPHAALPHA(THETA), ALPHAd(θ) following ${}^6\text{Li}$ breakup, deduced ${}^6\text{Li}$ tensor polarization. EFR-DWBA analysis.
1998Br10: ${}^9\text{Be}(\text{pol } P,\alpha)$ E=77-321 keV, measured $\sigma(\theta)$, A(Y)(θ); deduced reaction mechanism. R-matrix, DWBA analysis.

 ${}^6\text{Li}$ Levels

| E(level) | J ^{π} | T _{1/2} | Comments |
|-------------------------|-------------------------------|------------------|---|
| 0.0 | 1 ⁺ | | T=0 |
| 2203 6 | 3 ⁺ | | T=0 |
| 3562.2 8 | 0 ⁺ | | T=1 |
| 4300 10 | 2 ⁺ | 746 keV 42 | T=0 |
| | | | Γ : average of 850 keV 50 and 480 keV 80 from (2002Ti10) table 6.12. |
| 5325 5 | 2 ⁺ | 270 keV 12 | T=1 |
| 5650 40 | 1 ⁺ | 972 keV 53 | T=0 |
| | | | Γ : average of 900 keV 60 and 1260 keV 120 from (2002Ti10) table 6.12. |
| 8.2×10 ³ ? 2 | | 2200 keV 200 | T=1 |