${}^{3}\text{He}({}^{3}\text{He},X)$ **2002Ti10**

History

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

1965Zu02: ${}^{3}\text{He}({}^{3}\text{He},2p)$ E=15 MeV, measured $p{}^{4}\text{He-coin}(E_P)$.

1968Iv01: ${}^{3}\text{He}({}^{3}\text{He},{}^{3}\text{He})$ E=3-11 MeV, measured $\sigma(E,\theta)$.

1970Je02: ${}^{3}\text{He}({}^{3}\text{He},{}^{3}\text{He})$ E=17.9-32 MeV, measured $\sigma(E,\theta)$. ${}^{6}\text{Be}$ deduced resonance.

1971Dw01: ${}^{3}\text{He}({}^{3}\text{He},2p)$ E=0.08-1.1 MeV C.M., measured $\sigma_{\text{tot}}(E)$, $\sigma(E,\theta)$.

1972Bo42: ${}^{3}\text{He}({}^{3}\text{He},{}^{3}\text{He})$ E=4.33-9.83 MeV, measured polarization analyzing power.

1972Ha64: ${}^{3}\text{He}({}^{3}\text{He},{}^{3}\text{He})$ E=9.3-17.5 MeV, measured polarization analyzing power.

1974Dw01: ${}^{3}\text{He}({}^{3}\text{He},2p)$ E=30-150 keV, measured $\sigma(E)$. ${}^{6}\text{Be}$ deduced No resonance.

1974Ve01: ${}^{3}\text{He}({}^{3}\text{He},\gamma)$ E=12-27 MeV, measured $\sigma(E,\theta)$. ${}^{6}\text{Be}$ deduced resonances, J, π, L.

1976Ir02: ${}^{3}\text{He}({}^{3}\text{He},p)$ E=14 MeV, measured $\sigma(\theta)$, proton polarization.

1977Ka10: ${}^{3}\text{He}(\text{pol }{}^{3}\text{He},{}^{3}\text{He})$ E=33.3 MeV, measured $A(\theta)$.

1978Vl01: ${}^{3}\text{He}(\text{pol }{}^{3}\text{He},{}^{3}\text{He})$ E=18-33 MeV, measured $A(E,\theta)$. Phase shift analysis, excitation In ${}^{6}\text{Be}$.

1979La14: ${}^{3}\text{He}({}^{3}\text{He},p)$ E=50, 60, 78 MeV, measured breakup $\sigma(E,\theta_{\alpha 1},\theta_{\alpha 2})$, deduced Fourier transforms, energy, angle dependence. PWIA analysis.

1981Ko34: ${}^{3}\text{He}({}^{3}\text{He},p)$, E=14 MeV, measured $A(\theta)$.

1983Ki10: ${}^{3}\text{He}({}^{3}\text{He},p)$ E=17-30 MeV, measured $\sigma(\theta)$, $A(E,\theta)$. Polarization target.

1987Br02: ${}^{3}\text{He}({}^{3}\text{He},2p)$,$({}^{3}\text{He},pd)$,$({}^{3}\text{He},X)$ E=17.9, 21.7, 24 MeV, measured σ.

1996Ar16: ${}^{3}\text{He}({}^{3}\text{He},2p)$ E=20.7-91.7 keV, measured astrophysical S-factor vs E, deduced No evidence for hypothetical resonance.

1998Ju03: ${}^{3}\text{He}({}^{3}\text{He},2p)$ E=20.76-91.70 keV, measured σ, deduced astrophysical S factor, electron screening effect, No evidence for low-energy resonance.

1999Bo23: ${}^{3}\text{He}({}^{3}\text{He},2p)$ $E_{\text{c.m.}}$=16.5-24.4 keV, measured σ, astrophysical S-factor, deduced electron screening effect, No narrow resonance.

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

E(level)	J^{π}	$T_{1/2}$
1.7×10^{3}		
23.0×10^{3} 5	4^{-}	≈ 5 MeV
$26.\times10^{3}$	2^{-}	
$27.\times10^{3}$	3^{-}	