^{9}Be(d,γ) 1966Zi01,1971Ba72,1974De01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu	NP A880,88 (2012)	1-Jan-2011

1966Su05: ^{9}Be(d,γ) 0.5<E<5.5 MeV, measured σ(E, 90 degree). E_γ=22.7 MeV, measured $\sigma(E_\gamma,\theta)$.
1966Zi01: ^{9}Be(d,γ) E = 0.4-1.4 MeV, measured $\sigma(E,E_\gamma,\theta)$.
1971Ba72: ^{9}Be(d,γ) E=0.56-3.56 MeV, measured $\sigma(E,\theta)$. ^{11}B deduced levels, resonances, Γ-level.
1974De01,1974De39: ^{9}Be(d,γ_0) E=2.86-11.92 MeV, measured $\sigma(E,E_\gamma,\theta)$. ^{11}B deduced resonances, isospin splitting.

^{11}B Levels

E(level)	J^π	$T_{1/2}$	Comments
0			
2.12×10^3			
4.44×10^3			E(level): Unresolved.
5.02×10^3			E(level): Unresolved.
6.76×10^3			E(level): Unresolved.
6.81×10^3			E(level): Unresolved.
16.66×10^3			E(level): γ transitions: from (1966Zi01).
17.44×10^3 *5*	(1/2$^+$,3/2$^+$)	184 keV *41*	E(level): Γ: from E_{res}=1.98 MeV *5* (1971Ba72). J^π:weak; based on assumption of E1 transition.
18.37×10^3 *5*	(1/2$^+$,3/2$^+$)	0.26 MeV *8*	E(level): Γ: from E_{res}=3.12 MeV *5* (1971Ba72). J^π:weak; based on assumption of E1 transition.
18.6×10^3			E(level): from $E_{res}\approx$ 3.4 MeV (1974De39).
19.7×10^3			E(level): from $E_{res}\approx$4.7 MeV (1974De39).
23.7×10^3			E(level): from $E_{res}\approx$9.65 MeV (1974De39).

$\gamma(^{11}B)$

E_γ	E_i(level)	J_i^π	E_f	E_γ	E_i(level)	J_i^π	E_f
9.90×10^3	16.66×10^3		6.76×10^3	16.66×10^3	16.66×10^3		0
11.63×10^3	16.66×10^3		5.02×10^3	17.44×10^3	17.44×10^3	(1/2$^+$,3/2$^+$)	0
12.20×10^3	16.66×10^3		4.44×10^3	18.37×10^3	18.37×10^3	(1/2$^+$,3/2$^+$)	0
14.52×10^3	16.66×10^3		2.12×10^3	18.6×10^3	18.6×10^3		0
15.32×10^3	17.44×10^3	(1/2$^+$,3/2$^+$)	2.12×10^3	19.7×10^3	19.7×10^3		0
16.25×10^3	18.37×10^3	(1/2$^+$,3/2$^+$)	2.12×10^3	23.7×10^3	23.7×10^3		0

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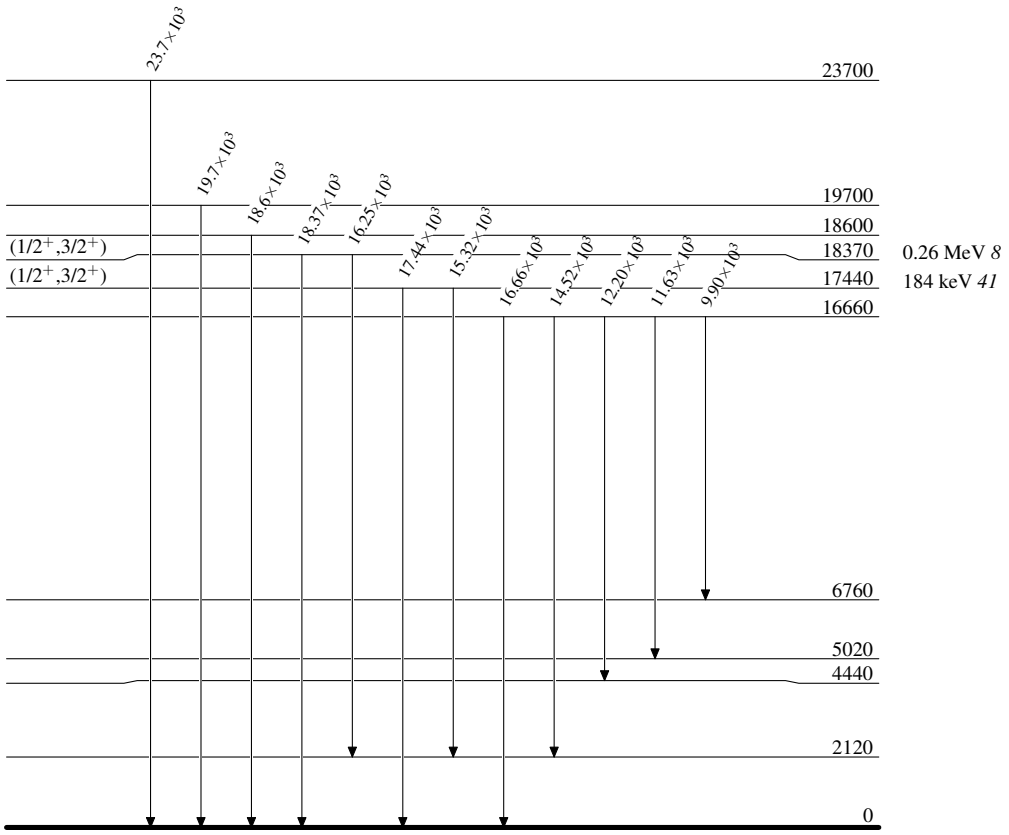
Level Scheme



$^{11}_{5}B_{6}$