^{7}Li(α,p)   1994Ha16

History

Type	Author	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

1972Me07: ^{7}Li(α,P) E=30 MeV, measured $\sigma(E_P,\theta_P)$, (E_d,θ_d), (E_t,θ_t). Deduced S, cluster reduced widths. DWBA analysis.
1975Bu27: ^{7}Li(α,P) E=50.5 MeV, measured $\sigma(E_P,\theta)$. ^{10}Be levels deduced relative population.
1994Ha16: ^{7}Li(α,P) E=65 MeV, measured spectra, $\sigma(\theta)$. ^{10}Be levels deduced cluster spectroscopic factors, particle decay widths.

^{10}Be Levels

Projectile: energy: 65 MeV.

E(level)	J^π	$T_{1/2}$	$L^\dagger$	S_{rel}	Comments
0.0	0^+		1	1.00	E(level): from (1994Ha16).
3370	2^+		3	0.067	E(level): from (1994Ha16).
5960	$2^+,1^-$				E(level): from (1994Ha16). L: doublet.
6180	0^+		1	0.86	E(level): from (1994Ha16).
6260	2^-		2	0.53	E(level): from (1994Ha16).
7370	3^-		2	0.67	E(level): from (1994Ha16).
7540	2^+		3	0.10	E(level): from (1994Ha16).
9270	(4^-)		2	0.84	E(level): from (1994Ha16).
96.4×10² 10	(2^+)		3	0.13	E(level): from (1994Ha16).
10570	≥ 1		0,1		E(level): from (1994Ha16).
11760	(4^+)		3	0.049	E(level): from (1994Ha16).
171.2×10² 20	(2^-)	$\approx$150 keV	0	0.3	E(level): Γ: from (1994Ha16).
17790	(2^-)	170 keV	2	1.0	E(level): Γ: from (1994Ha16). J^π: by analogy with ^{10}B states.
18550	(2^-)	380 keV	2	1.0	E(level): Γ: from (1994Ha16). J^π: by analogy with ^{10}B states.

† In some cases, (1975Ku01) suggest different L-values.