

$^{14}\text{C}(\text{p},\alpha)$ 1985Ar03

Type	Author	History	Citation	Literature Cutoff Date
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1962Br34: $^{14}\text{C}(\text{p},\alpha)$ measured not abstracted; deduced nuclear properties.

1970Ra22: $^{14}\text{C}(\text{p},\alpha)$ E=2-4 MeV, measured $\sigma(\text{E})$.

1972Ra03: $^{14}\text{C}(\text{p},\alpha)$ E=2-4 MeV, measured $\sigma(\text{E},\theta)$.

1975We09: $^{14}\text{C}(\text{p},\alpha)$ E=4-7.5 MeV, measured $\sigma(\text{E},\text{E}_\alpha,\theta)$.

1985Ar03: $^{14}\text{C}(\text{p},\alpha)$ E=41.9 MeV, measured $\sigma(\text{E}_\alpha)$, $\sigma(\theta)$. ^{11}B deduced levels, Γ , T, spectroscopic strengths. DWBA.

J^π , T from (1985Ar03).

 ^{11}B Levels

E(level)	J^π	$T_{1/2}$	C^2S	Comments
0	$3/2^-$		0.729	
2120 10	$1/2^-$		0.042	E(level): from (1985Ar03), also see (1962Br34).
4450 10	$5/2^-$		0.096	E(level): from (1985Ar03), also see (1962Br34).
5025 8	$3/2^-$		0.048	E(level): from (1985Ar03), also see (1962Br34).
6746 5	$7/2^-$		2.687	E(level): from (1985Ar03).
8560 10	$1/2^-$		0.016	E(level): from (1985Ar03).
8920 10	$5/2^-$		0.040	E(level): from (1985Ar03).
10300 60	$5/2^-$	133 keV 10	0.030	E(level): Γ : from (1985Ar03).
11620 30	$3/2^-$	186 keV 25	0.053	E(level): Γ : from (1985Ar03).
12920 20	$1/2^-$	238 keV 15	0.202	T=3/2
				E(level): Γ : from (1985Ar03).
14560 15	$7/2^-, 5/2^-$	42 keV 27	0.052	E(level): Γ : from (1985Ar03).
15290 25	$3/2^-, 5/2^-$	282 keV 15	0.369	T=3/2
				E(level): Γ : from (1985Ar03).
				For $J^\pi=5/2^-$ $\text{C}^2\text{S}=0.726$.
16500 50	$5/2^-, 7/2^-$	201 keV 10	0.254	T=3/2
				E(level): Γ : from (1985Ar03).
				For $J^\pi=7/2^-$ $\text{C}^2\text{S}=0.318$.
19070 50	$7/2^-, 5/2^-$	294 keV 10	0.370	T=3/2
				E(level): Γ : from (1985Ar03).
				For $J^\pi=5/2^-$ $\text{C}^2\text{S}=0.228$.