^{14}N(n,α) 1972Ny02,1968Hs03,1971Sc16

History

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

1967Mo21: ^{14}N(n,2α)^{7}Li, E=14.1 MeV, measured σ.
1968Ba30: ^{14}N(n,α) E=14.1 MeV, measured σ(E$_\alpha$,θ).
1968Hs03: ^{14}N(n,α) E=14.1 MeV, measured σ(E$_\alpha$,θ). Deduced reaction mechanism.
1968Le11: ^{14}N(n,α) E=14.9 MeV, measured σ(E$_\alpha$,θ).
1968Ma11: ^{14}N(n,α) E=14.1 MeV, measured σ(E$_\alpha$,θ).
1971Sa31: ^{14}N(n,α) E=14.8-18.8 MeV, measured σ(E,θ).
1971Sc16: ^{14}N(n,2α), E=14.1 MeV, measured σ for different intermediate states. ^{11}B deduced levels, J.
1972Ki12: ^{14}N(n,α) E=4.9 MeV, measured σ(θ).
1972Ny02: ^{14}N(N,xγ) E=4.2, 5.9, 6.9 MeV; measured Doppler shifts, σ(E$_\gamma$,θ(γ)). ^{11}B deduced transitions.
1973Bo26: ^{14}N(n,α) E=14.1 MeV, measured σ(E$_\alpha$,θ).
1978Bu28: ^{14}N(n,α) E=12.2-18.0 MeV, measured σ(E,θ). DWBA analysis.
1978Mo09: ^{14}N(n,α) E=13.9 MeV, measured σ(E$_\alpha$,θ).
1979Mo09: ^{14}N(n,α) E=1-15 MeV, measured σ.
2006Kh12: ^{14}N(n,α), E=5.45-7.2 MeV; measured σ.

^{11}B Levels

E(level)	J$^\pi$	Comments
0		
2.12×10^3		
4.44×10^3		
5.02×10^3		E(level): from (1968Hs03).
6.74×10^3		E(level): Unresolved. E(level): from (1968Hs03).
6.79×10^3		E(level): Unresolved. E(level): from (1968Hs03).
9.19×10^3	7/2	E(level): J$^\pi$: from ^{14}N(n,2α) (1971Sc16).
9.27×10^3	5/2	E(level): J$^\pi$: from ^{14}N(n,2α) (1971Sc16).
9.88×10^3		E(level): from ^{14}N(n,2α) (1971Sc16).
10.25×10^3		E(level): from ^{14}N(n,2α) (1971Sc16).
10.60×10^3		E(level): from ^{14}N(n,2α) (1971Sc16).
10.96×10^3		E(level): from ^{14}N(n,2α) (1971Sc16).
11.29×10^3		E(level): from ^{14}N(n,2α) (1971Sc16).
11.49×10^3?		E(level): from ^{14}N(n,2α) (1971Sc16).
11.60×10^3?		E(level): from ^{14}N(n,2α) (1971Sc16).

γ(^{11}B)

E$_\gamma$	I$_\gamma$	E$_i$(level)	E$_f$	Comments
2118 *5*	100	2.12×10^3	0	Eγ:from (1972Ny02).
4.44×10^3		4.44×10^3	0	from (1972Ny02).

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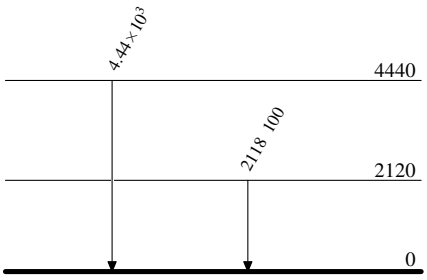
Level Scheme

Intensities: Type not specified



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