^{124}Sn(α,α') 1970Br07,1979Sa05,1990Bu25

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. Katakura, Z. D. Wu	NDS 109, 1655 (2008)	1-Apr-2008

1970Br07: E(α)=44 MeV, FWHM=350 keV semi.
1979Sa05: E(α)=19.5 MeV, FWHM=50 keV, semi.
1990Bu25: E(α)=50.5 MeV.
Others: 1978Mo10, 1972Br28.

^{124}Sn Levels

E(level)[†]	L	Comments
0.0		
1130	2	β_2=0.098 (1990Bu25). Others: 0.119 *12* deduced from deformation length (1970Br07); 1979Sa05 give 0.076 *2* for nuclear deformation and 0.082 *2* for charge deformation.
2610	3	E(level): from 1979Sa05; other: 2530 (1970Br07). β_3=0.118 (1990Bu25). Others: 0.104 *10* deduced from deformation length (1970Br07); 1979Sa05 give 0.072 *3* for nuclear deformation and 0.15 *2* for charge deformation.
3400	4	β_4=−0.054 (1990Bu25).
3900		
4800[‡]	(3)	
5200[‡]	(3)	
6200	3	E(level): from 1978Mo10, FWHM=200-150 keV; broad peak of low-energy octupole resonance.

[†] From 1970Br07, unless otherwise noted.
[‡] β_3=0.085; from deformation strength for the 4800 and 5200 levels (1970Br07).