^{205}Tl(d,t) 1964Mu07

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. J. Chiara and F. G. Kondev	NDS 111,141 (2010)	1-Oct-2009

J^π(target): $1/2^+$.

1964Mu07: ^{205}Tl target enriched to 99%; E(d)=15 MeV; FWHM=70 keV. No additional experimental details given in 1964Mu07; from a similar experiment by the same authors [^{205}Tl(d,p)]: 1.78-mg/cm^2 ^{205}Tl in oxide form on 0.6−μm Mylar film; magnetic spectrometer with emulsion plates at focal plane (1965Mu04).

^{204}Tl Levels

E(level)	J^π[†]	L	Comments
0	$2^-,3^-,4^-$	3	Proposed configuration: $\pi[(s_{1/2})^{-1}]\nu[(p_{1/2})^{-2}(f_{5/2})^{-1}]$.
130	$2^-,3^-,4^-$	3	
320	$0^-,1^-,2^-$	1	
460	$0^-,1^-,2^-$	1	
610	$0^-,1^-,2^-$	1	
660	$0^-,1^-,2^-$	1	
720	$0^-,1^-,2^-$	1	
800	$0^-,1^-,2^-$	1	Additional information 1.
910	$0^-,1^-,2^-$	1	
1120	$5^+,6^+,7^+$	6	
1270	$5^+,6^+,7^+$	6	
1850	$2^-,3^-,4^-$	3	
1980	$2^-,3^-,4^-$	3	
2060	$2^-,3^-,4^-$	3	
2210	$2^-,3^-,4^-$	3	

[†] Assigned by evaluators based on L values measured in 1964Mu07.