^{204}Hg(d,t) 1972Mo12

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 177, 509, 2021	4-Jul-2021

1972Mo12: Beam: E(d)=17 MeV; Target: ^{204}Hg enriched to 95.8%; Detectors: photographic emulsions, split-pole spectrograph, FWHM=10-14 keV.
Others: 1970An14.

^{203}Hg Levels

E(level)[†]	Jπ[‡]	L[†]	S[#]	Comments
0[@]	5/2$^-$	(3)	0.80	Dominant configuration=$\nu(f_{5/2})^{-1}$). L,S: L=3, S=7.9 in 1970An14.
≈5[@]	(1/2$^-$)	(1)	3.2	Dominant configuration=$\nu(p_{1/2})^{-1}$). L,S: L=1, S=1.7 in 1970An14.
46	3/2$^-$	1	1.8	
219	3/2$^-$	1	2.1	L,S: L=1, S=1.4 in 1970An14.
364				
542	5/2$^-$	3	2.1	
749	5/2$^-$	3	0.42	
767	(3/2$^-$)	1,(3)	0.17,0.74	
926[@]	(13/2$^+$)	(6)	12	Dominant configuration: $\nu(i^{-1}_{13/2})$.
1027				
1044	3/2$^-$	1	1.0	
1112				
1332				
1375?				
1468	7/2$^-$	3	0.44	
1643	7/2$^-$	3	0.44	
1756[@]	(7/2$^-$)	3	3.3	L,S: L=3, S=2.9 in 1970An14.
1763[@]	(7/2$^-$)	3		
1825				
1836	(7/2$^-$)	(3)	0.30	
1944				
1984				
2007				
2030				
2111	(7/2$^-$)	3,(4)	1.3,1.8	
2206				
2226				
2367				
2451				
2612				

[†] From 1972Mo12. ΔE=0.4% for well-resolved peaks.
[‡] From the deduced L values and spectroscopic factors (1972Mo12).
[#] S=N*(dσ/dΩ)(exp)/(dσ/dΩ)(DWBA) with N=1/3.33; ΔS≈±50%. Note, that S= N*(dσ/dΩ)(exp)/(dσ/dΩ)(DWBA) with N=1/[(2j+1)*1.48] in 1970An14.
[@] Doublet.