^{204}Hg(e,e′) 1989BuZP

History

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

1989BuZP: Li-Hg amalgam targets enriched to 93.7% ^{204}Hg and 97.9% ^{6}Li,≈15 mg/cm^2 thick, between thin Be foils; E(e)=83-477 MeV; magnetic spectrometer, FWHM=8×10^{-3}% to 3×10^{-2}%. DWBA analysis.

^{204}Hg Levels

E(level)†	Jπ‡	Comments
0	0+	
436.7 *23*	2+	B(E2)↑=0.429 *4* Additional information 1.
1128 *6*	4+	B(E4)↑=0.045 *6* Additional information 2.
1636 *12*	0+	M(E0)[e(fm)^2]=1.1 *7*. Additional information 3.
1944 *33*		
1974 *60*		
2047 *70*		
≈2090		
2124 *30*		
2200 *60*		
2262 *5*	5−	B(E5)↑=0.041 *9* Additional information 4.
2299 *7*	7−	B(E7)↑=32×10^{-4} *13*. Additional information 5.
2359 *5*		
2397 *12*		
2462 *29*		
2507 *40*		
≈2570		
259×10^{1} *12*		
2673 *6*	3−	B(E3)↑=0.42 *4* Additional information 6.
2719 *7*		
≈2730		
≈2760		
2813 *7*	3−	B(E3)↑=0.139 *16* Additional information 7.
2883 *43*		
2925 *37*		
3017 *28*	4+	B(E4)↑=0.040 *13* Additional information 8.
3096 *18*		
3187 *70*		
3222 *24*		
3316 *9*	3−	B(E3)↑=0.109 *13* Additional information 9.
3361 *8*	5−	B(E5)↑=0.036 *5* Additional information 10.
3426 *15*		
3475 *14*		
3539 *70*		
3594 *35*		
≈3670		
≈3720		
3750 *70*		

Continued on next page (footnotes at end of table)

^{204}Hg(e,e′) 1989BuZP (continued)

^{204}Hg Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	Comments
3820 *70*		
≈3860		
3919 *34*		
3968 *29*		
4033 *15*		
4100 *17*	4^{+}	B(E4)↑=0.054 *6* Additional information 11.
4147 *14*		
≈4210		
4245 *7*		
4348 *11*		
≈4380		
4413 *15*		
4493 *9*		
4539 *7*		
≈4610		
4663 *27*		
470×10^{1} *10*		
4723 *7*		
4815 *13*		
4895 *24*		
4915 *26*		
4959 *60*		

[†] The listed uncertainties are statistical only; the systematic errors are estimated by 1989BuZP to range from 2 keV for levels below 2462 keV to 5 keV for levels above 4413 keV.

[‡] From 1989BuZP, based on fits of the cross sections as functions of the momentum transfer with DWBA calculations.