^{196}Pt(e,e′) 1988Bo08,1992Po09

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong	NDS 108, 1093 (2007)	1-Jan-2006

1988Bo08: E(e)=200 MeV, θ=30° to 65° (5° steps); E(e)=500 MeV, θ=25° to 62° (2° steps), θ=62° to 74° (4° steps); >99% enriched ^{196}Pt targets; momentum transfer=0.6-3.2 fm^{-1}, measured E(level) (ΔE/E=1.5×10^{-4}), determined ground state and transition charge densities; used interacting boson model to interpret results.

1992Po09: E(e)=90-334 MeV, θ=35° to 85°, 99% enriched ^{196}Pt targets, QDD spectrometer, momentum transfer=0.36-2.43 fm^{-1}, momentum resolution≈8×10^{-5}. Deduced transition charge densities, B(λ)↑, J$^{\pi}$.

1985Bo14: E(e)=500 MeV. QDD and QDQ spectrometer. Resolution (dp/p): 2×10^{-4} to 6×10^{-5}.

Others: 1987Bo06, 1984De26, 1982BoZO.

^{196}Pt Levels

E(level)	J$^{\pi}$‡	Comments
0.0	0$^+$	
356	2$^+$	B(E2)↑=1.44 *4* B(E2)↑: Weighted average of 1.44 *4* (1988Bo08) and 1.49 *21* (1992Po09).
877.7	4$^+$	B(E4)↑=0.0186 *21* B(E4)↑: Weighted average of 0.0171 *19* (1988Bo08), 0.024 *5* (1985Bo14), and 0.0247 *54* (1992Po09).
1271†	5$^-$	B(E5)↑=0.00204 *20* (1992Po09)
1293†	4$^+$	B(E4)↑=0.0201 *28* B(E4)↑: Weighted average of 0.020 *4* (1985Bo14) and 0.0201 *40* (1992Po09).
1374†	7$^-$	
1447	3$^-$	B(E3)↑=0.111 *11* B(E3)↑: Weighted average of 0.103 *18* (1988Bo08) and 0.116 *14* (1992Po09). the large error band of the 3$^-$ level is a consequence of inability to separate the 3$^-$ level from neighboring 6$^+$ and 7$^-$ levels.
1884†	4$^+$	B(E4)↑=0.044 *9* B(E4)↑: Weighted average of 0.044 *13* (1985Bo14) and 0.044 *13* (1992Po09).
2008	4$^+$	E(level): composite peak (1985Bo14).
2280	4$^+$	E(level): composite peak (1985Bo14).
2431	3$^-$	B(E3)↑=0.087 *14* (1992Po09)
2638	3$^-$	B(E3)↑=0.072 *13* (1992Po09)

† From spectrum of E(e)=370.9 MeV ^{196}Pt(e,e′) at θ=76.0° (1984De26).

‡ From Adopted Levels.