^{197}Au(e$^+$,γ),(e$^+$,e$^{+\prime}$) 1983Vi04,1988Vi04,1987Ba75

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong, Zhou Chunmei	NDS 104, 283 (2005)	1-Jan-2002

Others: 1987Am01, 1981Ha51.
1983Vi04: E=1.1, 1.2 MeV from annihilation radiation; x-ray identification.

^{197}Au Levels

E(level)†	Jπ‡
0	3/2$^+$
77.3 *8*	1/2$^+$
278.8 *7*	5/2$^+$
409.4 *7*	11/2$^-$
1100.2 *8*	
1220.2 *8*	

† From 1983Vi04.
‡ From Adopted Levels.

γ(^{197}Au)

Eγ†	Ei(level)	J_i^π	E_f	J_f^π	Mult.‡	α#	Comments
77.34	77.3	1/2$^+$	0	3/2$^+$			
130.9	409.4	11/2$^-$	278.8	5/2$^+$	E3	29.4	α(K)=1.021; α(L)=20.85; α(M)=5.72; α(N+..)=1.830
201.57	278.8	5/2$^+$	77.3	1/2$^+$			
279.01	278.8	5/2$^+$	0	3/2$^+$	M1	0.420	α(K)=0.346; α(L)=0.0571; α(M)=0.01320; α(N+..)=0.00413
409.4	409.4	11/2$^-$	0	3/2$^+$			
691	1100.2		409.4	11/2$^-$			
811	1220.2		409.4	11/2$^-$			
1100	1100.2		0	3/2$^+$			
1220	1220.2		0	3/2$^+$			

† From level energy in scheme (1983Vi04).
‡ From ce measurements (1988Vi04).
# Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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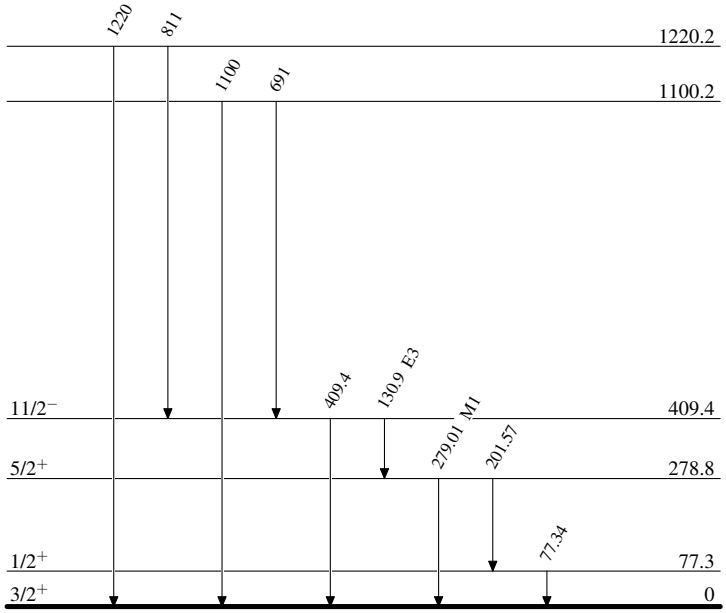
Level Scheme



$^{197}_{79}Au_{118}$