Adopted Levels

History

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

Q(β^-)=2156 *21*; S(n)=6.90×10^3 *5*; S(p)=7.28×10^3 *5*; Q(α)=−4.6×10^2 *5* 2012Wa38
Note: Current evaluation has used the following Q record 2155 206901 437276 45 2003Au03.
Identification: sources from ^{198}Pt(γ,p) chem (1978PeZJ); from ^{198}Pt(p,2p) E=100 MeV, chem (1976PeZW); semi γ-decay curves measured.
^{198}Pt(pol t,α), E=17 MeV; measured σ(Eα,θ), analyzing power Ay(Eα,θ); compared with predictions of distorted wave calculation; analyzed nuclear structure with interacting boson-fermion model, U(6/4) supersymmetry, spin(6) symmetry (1983Ci01,1981Ci02,1984Ci07,1985Zh10).

^{197}Ir Levels

All data are from ^{198}Pt(pol t,α) (1983Ci01), except as noted.

E(level)	J$^\pi$[†]	T$_{1/2}$	S[‡]	Comments
0.0	3/2$^+$	5.8 min *5*	3.5	%β^-=100 T$_{1/2}$: from γ-decay curves (1978PeZJ). Others: 1952Ch18, 1954Bu02, 1961Ho10. Ay(θ=30°)=−0.52 *2*; dσ/dΩ(θ=30°)=340 μb/sr.
52 *5*	1/2$^+$		1.2	Ay(θ=30°)=+0.06 *4*; dσ/dΩ(θ=30°)=167 μb/sr.
115 *5*	11/2$^-$	8.9 min *3*	6.9	%β^-=99.75 *10*; %IT=0.25 *10* %β^-,%IT: For B(M4)(W.u.)=3.2 *13*. From syst of M4 transitions (h11/2 to d3/2) for 5 cases B(M4)(W.u.) ranges from 1.9 to 4.5 (1980Sc26). T$_{1/2}$: from γ-decay curves (1978PeZJ). Others: 9.8 min *4* (1976PeZW), 10 min *1* (1976HiZF).
224 *5*				
248 *5*				
460 *5*	5/2$^+$		1.8	
495 *5*				
561 *5*				
606 *5*	5/2$^+$		1.4	
≈654				
715 *5*	11/2$^-$		3.1	
761 *5*	5/2$^+$		0.90	
885 *5*				
924 *5*				
960 *5*				
1043 *5*	1/2$^+$		0.38	
1116 *5*	11/2$^-$		3.1	
1160 *5*				
≈1202				
≈1300				
1384 *5*			0.16[#]	
1426 *5*			0.65[#]	
≈1459				
1528 *5*				

[†] Based on the $\sigma(\theta)$ DWBA analysis and analyzing powers in ^{198}Pt(pol t,α) (1983Ci01).
[‡] Obtained from the relation, [dσ/dΩ]exp=ns[dσ/dΩ](DWBA) with N=23. Typical errors are ≤20%.
[#] Assumes J^π=5/2$^+$.