

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 187,355 (2023)	20-Sep-2022

Q(β⁻)=2660 50; S(n)=5210 50; S(p)=9460 *syst*; Q(α)=-1090 *syst* [2021Wa16](#)
 Estimated SY uncertainties: 200 keV for S(p) and 210 keV for Q(α) ([2021Wa16](#)).

²⁰¹Pt Levels

Cross Reference (XREF) Flags

- A ²⁰¹Ir β⁻ decay
- B Be(²⁰⁸Pb,Xγ)

E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments
0.0	(5/2 ⁻)	2.46 min 9	AB	%β ⁻ =100 J ^π : From systematics in neighboring N=123 nuclides and shell model predictions. T _{1/2} : Weighted average of 2.5 m 1 (1963Go06) and 2.3 m 2 (1962Fa06). configuration: ν f _{5/2} ⁻¹ .
332.6 17			A	
373.9 5	(9/2 ⁻)		B	configuration: ν (f _{5/2} ⁻¹)⊗2 ⁺ . The assignment is tentative.
389.4 13			A	
655.0 20			A	
710.0 13			A	
741.0 20			A	
1100.8 7	(13/2 ⁻)		B	configuration: ν (f _{5/2} ⁻¹)⊗4 ⁺ . The assignment is tentative.
1442.0 24			A	
1454.4 9	(15/2 ⁺)		B	
1454.4+x	(19/2 ⁺)	18.4 ns 13	B	Additional information 1. E(level): x<90 keV in both 2005Ca02 and 2011St21 . Direct γ-ray decay to the 1455.5 keV level was not observed. T _{1/2} : from γ(t) in 2011St21 . Other: 21 ns 3 from γ(t) in 2005Ca02 . configuration: ν (f _{5/2} ⁻¹) π (d _{3/2} ⁻¹ ,h _{11/2} ⁻¹). The assignment is tentative.
1706.3 13			A	

[†] From a least-squares fit to E_γ.

[‡] From Be(²⁰⁸Pb,Xγ), unless otherwise stated.

γ(²⁰¹Pt)

E _i (level)	J _i ^π	E _γ [†]	I _γ [†]	E _f	J _f ^π
332.6		332.6 [‡] 17	100 [‡]	0.0	(5/2 ⁻)
373.9	(9/2 ⁻)	373.9 5	100	0.0	(5/2 ⁻)
389.4		389.4 [‡] 15	100 [‡]	0.0	(5/2 ⁻)
655.0		655 [‡] 2	100 [‡]	0.0	(5/2 ⁻)
710.0		710.1 [‡] 15	100 [‡]	0.0	(5/2 ⁻)
741.0		741 [‡] 2	100 [‡]	0.0	(5/2 ⁻)
1100.8	(13/2 ⁻)	726.9 5	100	373.9	(9/2 ⁻)
1442.0		732 [‡] 2	100 [‡]	710.0	
1454.4	(15/2 ⁺)	353.6 5	100	1100.8	(13/2 ⁻)

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Adopted Levels, Gammas (continued)

 $\gamma(^{201}\text{Pt})$ (continued)

<u>$E_i(\text{level})$</u>	<u>E_γ^\dagger</u>	<u>I_γ^\dagger</u>	<u>E_f</u>	<u>J_f^π</u>
1706.3	996.5 ‡ 16	42 ‡ 10	710.0	
	1317 ‡ 2	92 ‡ 17	389.4	
	1706 ‡ 2	100 ‡ 17	0.0 (5/2 $^-$)	

† From $\text{Be}(^{208}\text{Pb}, x\gamma)$, unless otherwise stated.

‡ From ^{201}Ir β^- decay.

Adopted Levels, GammasLevel Scheme

Intensities: Relative photon branching from each level

