^{202}Ir β^- decay 2013Mo20

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 196,342 (2024)	1-Sep-2023

Parent: ^{202}Ir: E=0; J^π=(1$^-$,2$^-$); $T_{1/2}$=13 s *3*; Q(β^-)=6050 *syst*; %β^- decay=100

^{202}Ir-J^π,$T_{1/2}$: From Adopted Levels for ^{202}Ir.

^{202}Ir-Q(β^-): From 2021Wa16.

2013Mo20: ^{202}Ir produced and identified in ^{9}Be(^{208}Pb,x), E=1 GeV/nucleon from the UNILAC and SIS-18 accelerator complex at GSI. ^{9}Be target of thickness 2.5 g/cm^2 was used. Reaction products were separated and identified by the Fragment Recoil Separator (FRS). The recoils were stopped in the RISING active stopper. Measured (ion)$\beta\gamma$, $\beta\gamma$(ion) correlations, and half-lives using RISING array for γ rays, and Si detector arrays for particle detection. Other: 2007KuZZ (same collaboration).

^{202}Pt Levels

E(level)†	J^π‡	$T_{1/2}$	Comments
0.0	0$^+$	44 h *15*	$T_{1/2}$: From Adopted Levels.
535.0 *13*	(2$^+$)		
1245.1 *19*	(2$^+$)		
1253.7 *20*	(4$^+$)		
1583.0 *18*	(1$^+$)		
1759.0 *21*	(2$^+$,3$^+$)		J^π: From Adopted Levels.
2700.0 *17*	(2$^-$,3$^-$)		

† From a least-square fit to Eγ.

‡ Tentative assignments from 2013Mo20, unless otherwise stated. Same values as in Adopted Levels.

γ(^{202}Pt)

Iγ normalization: The decay scheme is incomplete and no normalization to absolute emission probabilities nor β-decay feeding intensities and log *ft* values are given.

E$_\gamma$†	I$_\gamma$†	E$_i$(level)	J_i^π	E$_f$	J_f^π
514 *3*	28 *3*	1759.0	(2$^+$,3$^+$)	1245.1	(2$^+$)
535.0 *13*	100 *8*	535.0	(2$^+$)	0.0	0$^+$
710.1 *15*	52 *5*	1245.1	(2$^+$)	535.0	(2$^+$)
718.7 *14*	3.8 *10*	1253.7	(4$^+$)	535.0	(2$^+$)
1048.0 *12*	10.0 *19*	1583.0	(1$^+$)	535.0	(2$^+$)
1224.0 *19*	15 *2*	1759.0	(2$^+$,3$^+$)	535.0	(2$^+$)
2165.0 *11*	11 *2*	2700.0	(2$^-$,3$^-$)	535.0	(2$^+$)

† From 2013Mo20.

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Decay Scheme

Intensities: Relative I_γ