^{193}Ir(^{12}C,5nγ) 1972Ha73

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 192,1 (2023)	1-Aug-2023

Beam: E(^{12}C)=81−MeV pulsed beam; Detectors: Ge(Li); Measured: γ(t), excitation functions, Eγ, Iγ; Deduced: $T_{1/2}$, J^{π} of the isomer.

^{200}Bi Levels

E(level)	J$^{\pi}$[†]	$T_{1/2}$[†]	Comments
0	7^+	36.4 min *5*	
428.2 *1*	10^-	0.40 s *5*	$T_{1/2}$: From 428γ(t) in 1972Ha73.

[†] From Adopted Levels, unless otherwise stated.

γ(^{200}Bi)

E$_\gamma$[†]	I$_\gamma$[†]	E$_i$(level)	J$_i^{\pi}$	E$_f$	J$_f^{\pi}$	Mult.[†]	Comments
[x]253.0 *1*	50[‡] *2*						
[x]286.1 *1*	44[‡] *2*						
428.2 *1*	100 *4*	428.2	10^-	0	7^+	E3	Mult.: α(K)exp=0.09 *5* from K x ray/Iγ (1972Ha73).
[x]630.3 *2*	56[‡] *5*						
[x]644.2 *2*	37[‡] *4*						

[†] From 1972Ha73.
[‡] Transitions are delayed with respect to the beam on period with $T_{1/2}$=46 ns *4*.
[x] γ ray not placed in level scheme.

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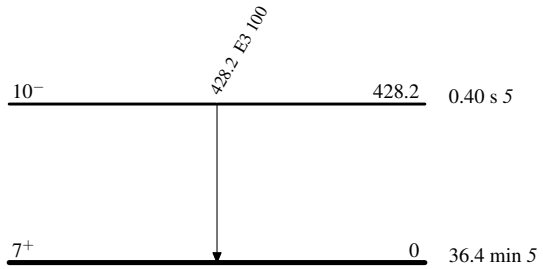
Level Scheme

Intensities: Relative I_γ



$^{200}_{83}Bi_{117}$