^{9}Be(^{208}Pb,Xγ) 2011St21

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

2011St21: ^{200}Ir nuclide produced by in-flight fragmentation of 1 GeV/A ^{208}Pb beam at the GSI UNILAC and SIS-18 accelerator complex. Target thickness=2.526 g/cm^2, backed by a 0.223 g/cm^2 thick ^{93}Nb foil. Fragments identified by the Fragment Separator (FRS), based on time of flight, Bρ and energy loss. The ions were slowed down in Al degraders and stopped in a plastic catcher. The stopper was surrounded by the RISING γ-ray spectrometer. Measured: Eγ, Iγ, delayed γ rays, isomer lifetime. Others (same authors): 2009St16, 2008StZY.

^{200}Ir Levels

E(level)†	J$^\pi$	T$_{1/2}$	Comments
0	(2$^-$,3$^-$)	43 s *6*	J$^\pi$,T$_{1/2}$: From Adopted Levels.
120.0 *5*		17.1 ns *12*	T$_{1/2}$: From 120.0γ(t) in 2011St21. Experimental isomeric state population ratio=22% *12*.
126.6 *5*		28.5 ns *15*	T$_{1/2}$: From 126.6γ(t) in 2011St21. Experimental isomeric state population ratio=3.5% *14*.

† From Eγ.

γ(^{200}Ir)

E$_\gamma$†	I$_\gamma$†	E$_i$(level)	E$_f$	J$^\pi_f$	Comments
120.0 *5*	30 *2*	120.0	0	(2$^-$,3$^-$)	E$_\gamma$: Not in coincidence with 126.6γ (2008StZY).
126.6 *5*	100 *3*	126.6	0	(2$^-$,3$^-$)	E$_\gamma$: Not in coincidence with 120.0γ (2008StZY).

† From 2011St21. ΔEγ=0.5 keV communicated by the authors.

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Level Scheme

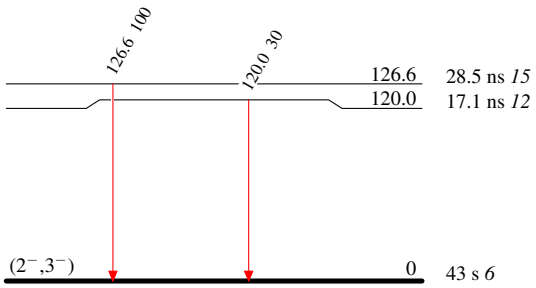
Intensities: Relative I_γ

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$



$^{200}_{77}Ir_{123}$