^{9}Be(^{208}Pb,Xγ) 2011St21

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

2011St21: ^{202}Au produced and identified in ^{9}Be(^{208}Pb,x), E=1 GeV/nucleon from the UNILAC and SIS-18 accelerator complex at GSI. Target thickness=2.526 g/cm^2, backed by a ^{93}Nb foil of thickness=0.223 g/cm^2. Fragments identified by the Fragment Recoil Separator (FRS), slowed in Al degraders and stopped in a plastic catcher that was surrounded by the RISING γ-ray spectrometer. Measured Eγ, Iγ (delayed), γ(t).

^{202}Au Levels

E(level)[†]	J$^\pi$[‡]	$T_{1/2}$	Comments
0+x	(2,4)$^-$		
414.2+x *5*	(3,5)$^+$		
552.0+x *7*	(5,7)$^+$	13.1 ns *5*	$T_{1/2}$: From 414γ(t) in 2011St21.

[†] From Eγ in 2011St21.
[‡] From 2011St21. The assignments are very tentative.

γ(^{202}Au)

E$_\gamma$[†]	I$_\gamma$[†]	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
137.8 *5*	21 *21*	552.0+x	(5,7)$^+$	414.2+x	(3,5)$^+$
414.2 *5*	100 *5*	414.2+x	(3,5)$^+$	0+x	(2,4)$^-$

[†] From 2011St21. Uncertainty of ΔEγ=0.5 keV was assigned in consultation with Zs. Podolyak (USurrey).

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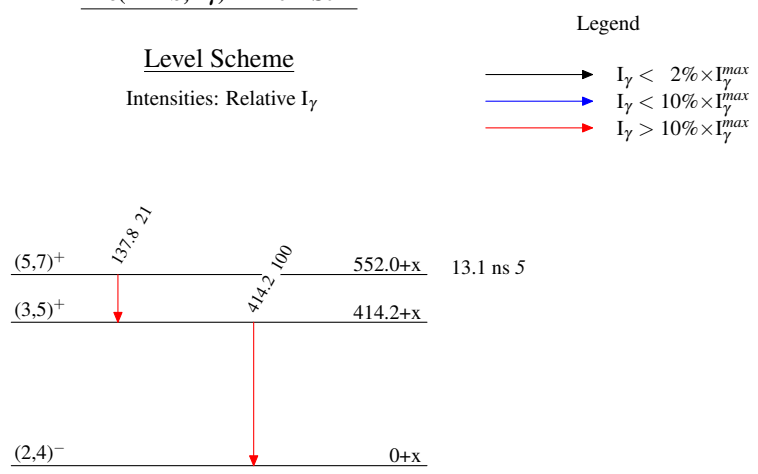
Level Scheme

Intensities: Relative I$_\gamma$



$^{202}_{79}Au_{123}$