^{198}Pt(^{136}Xe,Xγ) 2004Va03,2004Re11

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113, 1871 (2012)	15-Jun-2012

2004Va03,2004Re11: E(^{136}Xe)=850 MeV. 1-2 ns pulses separated by 178 ns; >92% enriched ^{198}Pt target; GAMMASPHERE detector array (103 Compton-suppressed HPGe detectors without BGO heavy-metal collimators, with 70 of the HPGe detectors electrically segmented into two D-shaped halves to improve the Doppler correction); Chico gas-filled parallel-plate avalanche chamber; detected beam-like and target-like fragments from deep inelastic collisions In coincidence with γ-rays from product nuclei; measured Eγ, Iγ, $\gamma\gamma$ coin, recoil-γ-γ(t). Observed E=2172 isomer.

The authors give No level scheme, but the transitions shown In fig. 5 of 2004Va03 and 2004Re11 are already known from the literature.

^{192}Pt Levels

E(level)[†]	J$^\pi$[‡]	$T_{1/2}$	Comments
0.0[#]	0^+		
317[#]	2^+		
785[#]	4^+		
1370[#]	6^+		
1385	$(5)^-$		
1520	$(7)^-$		
1966	$(8)^-$		
2174	$(10)^-$	235 ns *47*	$T_{1/2}$: (target-like recoil fragments)-γ(t) (2004Va03,2004Re11); 317γ-468γ pair used as double γ-ray gate.

[†] From Eγ.
[‡] From Adopted Levels.
[#] Band(A): K$^\pi$=0^+ g.s. Band.

γ(^{192}Pt)

E$_\gamma$[†]	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Comments
135	1520	$(7)^-$	1385	$(5)^-$	
208	2174	$(10)^-$	1966	$(8)^-$	
317	317	2^+	0.0	0^+	
446	1966	$(8)^-$	1520	$(7)^-$	
468	785	4^+	317	2^+	
585	1370	6^+	785	4^+	Eγ: expected value is 581; possibly, Eγ=585 In fig. 5 is a typographical error.
600	1385	$(5)^-$	785	4^+	

[†] From fig. 5 of 2004Re11 and 2004Va03; uncertainty unstated by authors.

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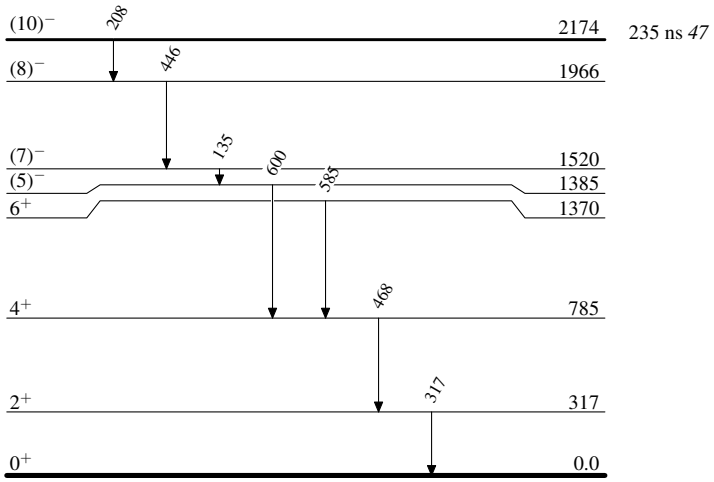
Level Scheme



$^{192}_{78}Pt_{114}$

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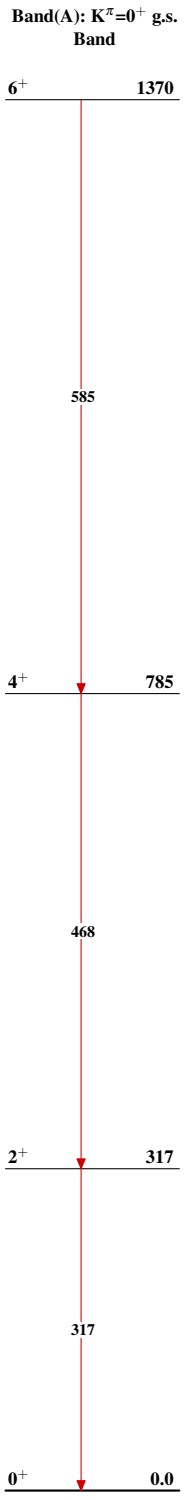

$^{192}_{78}Pt_{114}$