

$^{198}\text{Pt}(^{136}\text{Xe},\text{X})$  2004Va03

Type	Author	History	Citation	Literature Cutoff Date
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2004Va03:  $^{131}\text{I}$  from  $^{198}\text{Pt}(^{136}\text{Xe},\text{X})$  E=850 MeV; measured  $\gamma\gamma$ ,  $\gamma(t)$  deduced  $T_{1/2}$ . GAMMASPHERE: 103 Compton-suppressed Ge detectors.

 $^{131}\text{I}$  Levels

The 2352 keV,  $T_{1/2}=43$  ns level is introduced in the  $^{131}\text{I}$  level scheme on the basis of coincidences of 774  $\gamma$  with 783, 679 and 117 keV  $\gamma$ 's, a sequence of the last two  $\gamma$ 's is not known. For this reason the energy of the level connected by 679 and 117 keV transitions is not established.

E(level) <sup>†</sup>	$J^{\pi}$ <sup>‡</sup>	$T_{1/2}$	Comments
0	$7/2^+$	8.0252 d 6	$T_{1/2}$ : from Adopted Levels.
773.664 <sup>‡</sup> 19	$9/2^+, 11/2^+$		
1556.145 <sup>‡</sup> 21	+		
2235.2? 10			
2352.2 15		43 ns 1	

<sup>†</sup> From least-squares fit to  $E\gamma$ 's, assuming 1 keV uncertainty by evaluators when not stated.

<sup>‡</sup> From Adopted Levels.

 $\gamma(^{131}\text{I})$ 

$E_{\gamma}$	$E_i(\text{level})$	$J_i^{\pi}$	$E_f$	$J_f^{\pi}$	Mult.	Comments
117 <sup>‡</sup>	2352.2		2235.2?			
679 <sup>‡</sup>	2235.2?		1556.145	+		
773.67 <sup>†</sup> 3	773.664	$9/2^+, 11/2^+$	0	$7/2^+$	M1,E2	Mult.: from adopted gammas.
782.49 <sup>†</sup> 4	1556.145	+	773.664	$9/2^+, 11/2^+$		

<sup>†</sup> From adopted gammas.

<sup>‡</sup> Placement of transition in the level scheme is uncertain.

Legend

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## Level Scheme

-----►  $\gamma$  Decay (Uncertain)  
● Coincidence

