

$^{198}\text{Pt}(^{136}\text{Xe},\text{X}\gamma)$  2006Wh02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao		NDS 121, 395 (2014)	1-Mar-2014

Multinucleon transfer reaction. E=850 MeV, Measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ , delayed and prompt  $\gamma$  rays using Gammasphere array of 102 Compton-suppressed HPGe detectors. A new  $\gamma$  ray of 481.5 keV discovered which feeds the 8-ns isomer at 1813 keV.

 $^{195}\text{Au}$  Levels

E(level) <sup>†</sup>	$J^{\pi\ddagger}$	$T_{1/2}^{\ddagger}$	Comments
0.0	3/2 <sup>+</sup>	186.098 d 47	
61.435 24	1/2 <sup>+</sup>	3.0 ns 2	
261.79 3	5/2 <sup>+</sup>	54 ps 10	
318.58 4	11/2 <sup>-</sup>	30.5 s 2	
706.48 6	15/2 <sup>-</sup>		
1425.0 10	19/2 <sup>-</sup>		
1813.0 15	(21/2 <sup>+</sup> )	8 ns 2	
2294.5			E(level): assuming that 481.5 $\gamma$ in out-of-beam measurement feeds the 1813 level directly.

<sup>†</sup> From Adopted Levels, except for the level at 2295 which is from 2006Wh02.

<sup>‡</sup> From Adopted Levels.

 $\gamma(^{195}\text{Au})$ 

$E_{\gamma}^{\dagger}$	$E_i(\text{level})$	$J_i^{\pi}$	$E_f$	$J_f^{\pi}$	Comments
56.80 3	318.58	11/2 <sup>-</sup>	261.79	5/2 <sup>+</sup>	
61.46 3	61.435	1/2 <sup>+</sup>	0.0	3/2 <sup>+</sup>	
200.38 4	261.79	5/2 <sup>+</sup>	61.435	1/2 <sup>+</sup>	
261.75 4	261.79	5/2 <sup>+</sup>	0.0	3/2 <sup>+</sup>	
318.60 10	318.58	11/2 <sup>-</sup>	0.0	3/2 <sup>+</sup>	
387.87 5	706.48	15/2 <sup>-</sup>	318.58	11/2 <sup>-</sup>	
388.1	1813.0	(21/2 <sup>+</sup> )	1425.0	19/2 <sup>-</sup>	
481.5	2294.5		1813.0	(21/2 <sup>+</sup> )	$E_{\gamma}$ : From out-of-beam $\gamma\gamma$ measurement (2006Wh02).
718.5	1425.0	19/2 <sup>-</sup>	706.48	15/2 <sup>-</sup>	

<sup>†</sup> From adopted gammas, except for the 481.5 $\gamma$  which is from 2006Wh02.

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## Level Scheme

