

$^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$  1999Ho25

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Balraj Singh	ENSDF	14-Jan-2022

1999Ho25: E=90 MeV. Measured  $E_\gamma$ ,  $I_\gamma$ ,  $\gamma\gamma$ -coin using Euroball III array of 15 Cluster Ge detectors and 26 Clover Ge detectors located in two rings around  $90^\circ$  and 30 tapered Ge detectors, with each Ge detector surrounded by its own BGO Compton suppression shield. Measured prompt  $\gamma$  rays,  $E_\gamma$  from heavy-ion induced fission. No  $\gamma$ -ray spectrum shown in the paper.

 $^{118}\text{Pd}$  Levels

E(level) <sup>†</sup>	J $\pi$ <sup>#</sup>	Comments
0 <sup>@</sup>	0 <sup>+</sup>	
378 <sup>@</sup> 1	(2 <sup>+</sup> )	
951 <sup>@</sup> 2	(4 <sup>+</sup> )	
1669 <sup>@</sup> 2	(6 <sup>+</sup> )	
2477 <sup>@</sup> 2	(8 <sup>+</sup> )	J $\pi$ : this level is assigned 7 <sup>-</sup> in the Adopted Levels.
3334 <sup>@</sup> 2	(10 <sup>+</sup> )	E(level): this level corresponds to 4143, (12 <sup>+</sup> ) level decaying by a 856.4 $\gamma$ in the Adopted dataset.
3936 <sup>‡@</sup> 3	(12 <sup>+</sup> )	
4674 <sup>‡@</sup> 3	(14 <sup>+</sup> )	

<sup>†</sup> From  $E_\gamma$  data, assuming 1 keV uncertainty for each  $E_\gamma$  value.

<sup>‡</sup> Not assigned to g.s. band in  $^{252}\text{Cf}$  SF decay (2013Lu18) and in  $^{238}\text{U}(\alpha,\text{F}\gamma)$  (2007St19). This level is not given in the Adopted dataset.

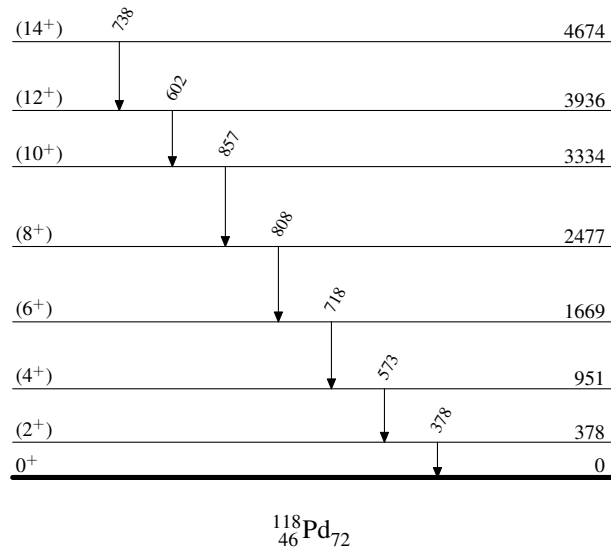
<sup>#</sup> As given by 1999Ho25, based on assignment to an yrast band.

<sup>@</sup> Band(A): Yrast band.

 $\gamma(^{118}\text{Pd})$ 

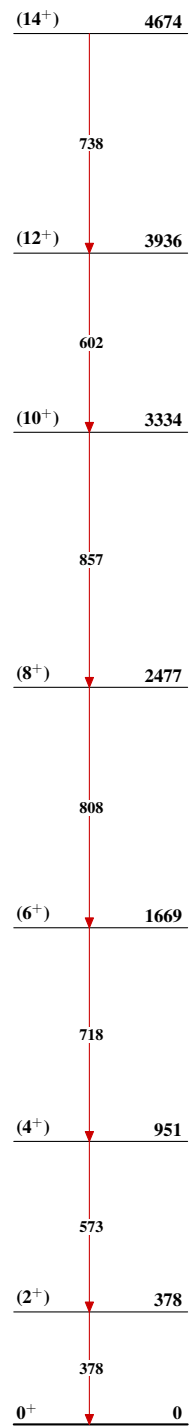
$E_\gamma$	$E_i(\text{level})$	J $\pi_i$	$E_f$	J $\pi_f$
378	378	(2 <sup>+</sup> )	0	0 <sup>+</sup>
573	951	(4 <sup>+</sup> )	378	(2 <sup>+</sup> )
602 <sup>†</sup>	3936	(12 <sup>+</sup> )	3334	(10 <sup>+</sup> )
718	1669	(6 <sup>+</sup> )	951	(4 <sup>+</sup> )
738 <sup>†</sup>	4674	(14 <sup>+</sup> )	3936	(12 <sup>+</sup> )
808	2477	(8 <sup>+</sup> )	1669	(6 <sup>+</sup> )
857	3334	(10 <sup>+</sup> )	2477	(8 <sup>+</sup> )

<sup>†</sup>  $\gamma$  not observed in  $^{238}\text{U}(\alpha,\text{F}\gamma)$  and  $^{252}\text{Cf}$  SF decay, not given in the Adopted dataset.

$^{238}\text{U}(^{12}\text{C,F}\gamma)$  **1999Ho25**Level Scheme

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Band(A): Yrast band

 $^{118}_{46}\text{Pd}_{72}$