

$^{176}\text{Yb}(^{30}\text{Si},\text{F}\gamma)$ 1998Ku22,1999Ho25

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 110, 1239 (2009)	1-Feb-2008

Includes $^{176}\text{Yb}(^{28}\text{Si},\text{F}\gamma)$ reaction (1998Ku22) and $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$ fusion-fission reaction (1999Ho25).

Prompt γ rays from heavy-ion induced fission. Also given in 1999Ho25 (Same group).

1998Ku22: E=145 MeV. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$ using Euroball II with an array of 54 Compton suppressed HPGe detectors.

1999Ho25: $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$ E=90 MeV. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$ using Euroball III array of 15 clusters, 26 clovers and 30 tapered Ge detectors.

Same level scheme is presented in 1998Ku22 and 1999Ho25.

 ^{111}Pd Levels

E(level)	J^π	$T_{1/2}$
0	$5/2^+$	
172 [†]	$11/2^-$	5 h
585 [†]	$(15/2^-)$	
1204 [†]	$(19/2^-)$	
1981 [†]	$(23/2^-)$	
2878 [†]	$(27/2^-)$	
3831 [†]	$(31/2^-)$	

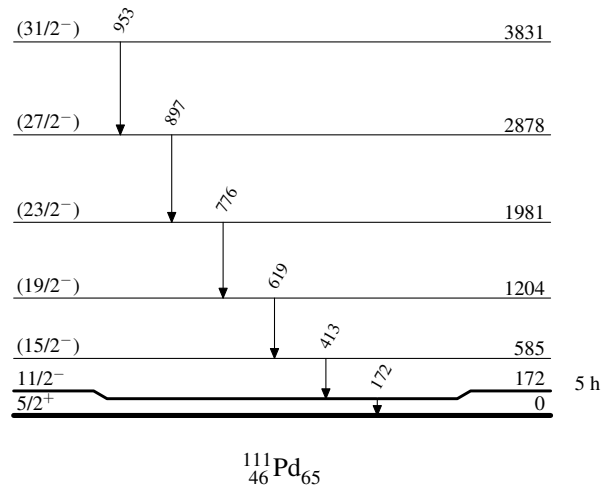
[†] Band(A): $\nu h_{11/2}$, $\alpha=-1/2$ band.

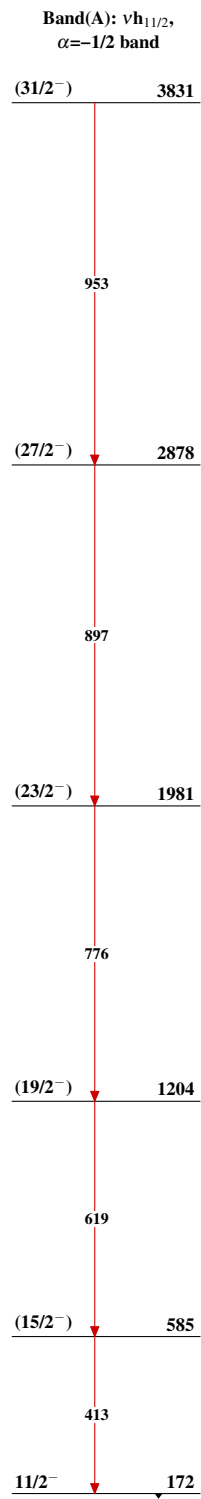
 $\gamma(^{111}\text{Pd})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
172	172	$11/2^-$	0	$5/2^+$	E_γ : from Adopted Levels, IT decay.
413	585	$(15/2^-)$	172	$11/2^-$	
619	1204	$(19/2^-)$	585	$(15/2^-)$	
776	1981	$(23/2^-)$	1204	$(19/2^-)$	
897	2878	$(27/2^-)$	1981	$(23/2^-)$	
953	3831	$(31/2^-)$	2878	$(27/2^-)$	E_γ : 958 in 1999Ho25 seems a misprint.

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Level Scheme



$^{176}\text{Yb}(\text{}^{30}\text{Si}, \text{F}\gamma)$ 1998Ku22,1999Ho25 $^{111}_{46}\text{Pd}_{65}$