

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

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 111, 1471 (2010)	1-May-2009

Prompt  $\gamma$  rays from heavy-ion induced fission.

E=90 MeV. Measured  $E_\gamma$ ,  $I_\gamma$ ,  $\gamma\gamma$  using Euroball iii array with 15 Cluster Ge detectors, 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.

 $^{113}\text{Pd}$  Levels

E(level)	$J^\pi$	$T_{1/2}$	Comments
0.0	$5/2^+$		
$81^{\ddagger}$ 1	$9/2^-$	0.3 s	
$166.1^\dagger$ 5	$(11/2^-)$		E(level): From <a href="#">2005Fo09</a> .
$549.2^\dagger$	$(15/2^-)$		
$573^{\ddagger}$ 1	$(13/2^-)$		
$1119^\dagger$ 1	$(19/2^-)$		
$1149^{\ddagger}$	$(17/2^-)$		
$1842^\dagger$ 1	$(23/2^-)$		
$1866^{\ddagger}$	$(21/2^-)$		
$2671^\dagger$ 1	$(27/2^-)$		
$2684^{\ddagger}$	$(25/2^-)$		
$3562^{\ddagger}$ 1	$(29/2^-)$		
$4517^\dagger$	$(35/2^-)$		

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

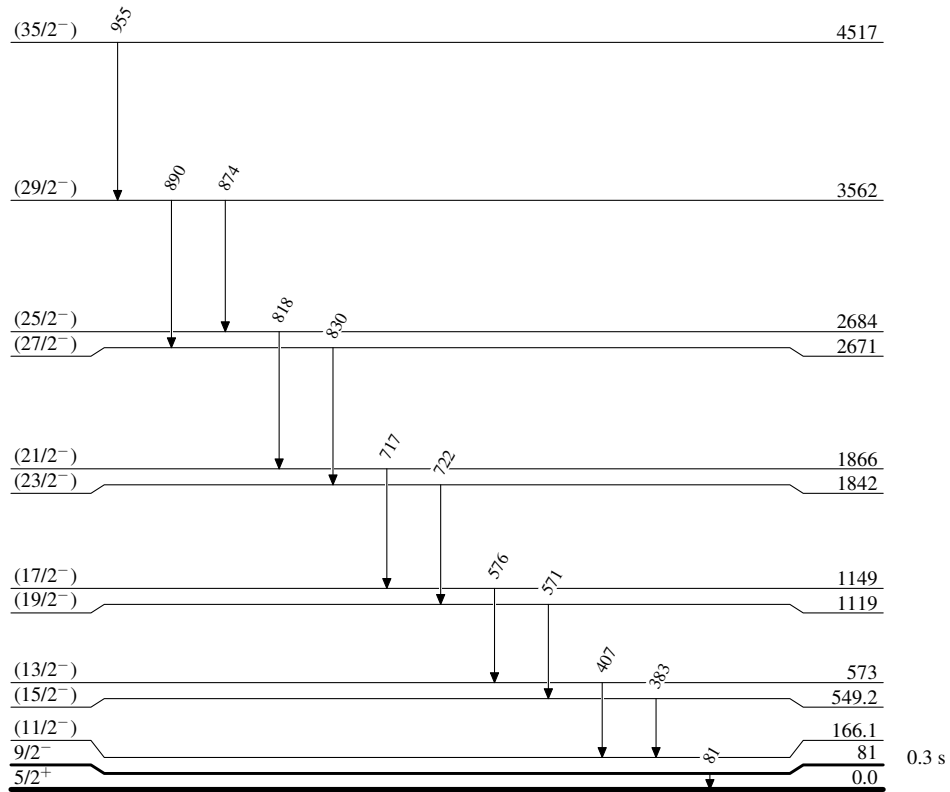
$^\ddagger$  Band(a):  $\nu h_{11/2}$ ,  $\alpha=+1/2$  band.

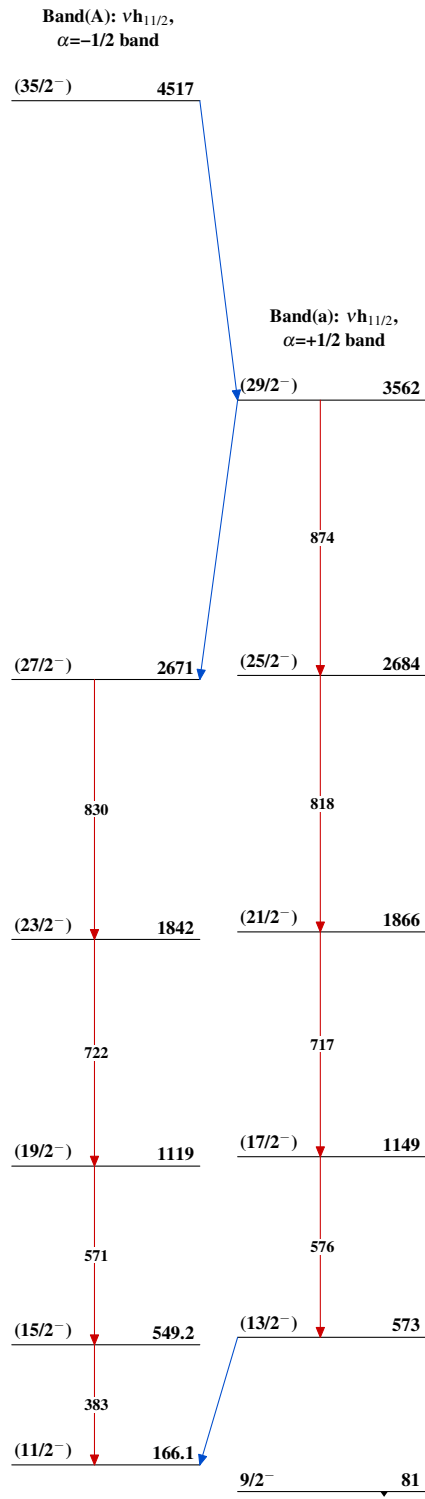
 $\gamma(^{113}\text{Pd})$ 

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Comments
81	81	$9/2^-$	0.0	$5/2^+$	$E_\gamma$ : from ENSDF for $^{113}\text{Pd}$ .
$383$ 1	549.2	$(15/2^-)$	166.1	$(11/2^-)$	
$407$ 1	573	$(13/2^-)$	166.1	$(11/2^-)$	
$571$ 1	1119	$(19/2^-)$	549.2	$(15/2^-)$	
$576$ 1	1149	$(17/2^-)$	573	$(13/2^-)$	
$717$ 1	1866	$(21/2^-)$	1149	$(17/2^-)$	
$722$ 1	1842	$(23/2^-)$	1119	$(19/2^-)$	
$818$ 1	2684	$(25/2^-)$	1866	$(21/2^-)$	
$830$ 1	2671	$(27/2^-)$	1842	$(23/2^-)$	
$874$ 1	3562	$(29/2^-)$	2684	$(25/2^-)$	
$890$ 1	3562	$(29/2^-)$	2671	$(27/2^-)$	
955	4517	$(35/2^-)$	3562	$(29/2^-)$	

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## Level Scheme

 $^{113}_{46}\text{Pd}_{67}$

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