

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

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal and F. G. Kondev		NDS 113, 1315 (2012)	1-Aug-2011

The  $^{12}\text{C}$  beam was accelerated to 90 MeV by the tandem of the INFN. A  $47\text{ mg/cm}^2$   $^{238}\text{U}$  target was used.  $\gamma$ -rays were detected using EUROBALL III array consisting of 15 Compton-suppressed, Cluster detectors placed in the backward hemisphere, 26 Clover detectors located in 2 rings around  $90^\circ$  and 30 tapered single-crystal Ge detectors located at forward angles. A total of  $1.9 \times 10^9$  triple- $\gamma$  or higher coincident events were collected. Measured:  $E\gamma, \gamma\gamma\gamma$ .

Other: [2000LuZY](#).

 $^{110}\text{Pd}$  Levels

E(level) <sup>†</sup>	$J^\pi$ <sup>‡</sup>
0.0 <sup>#</sup>	$0^+$
374.0 <sup>#</sup> 3	$2^+$
921.0 <sup>#</sup> 5	$4^+$
1574.0 <sup>#</sup> 6	$6^+$
2296.0 <sup>#</sup> 6	$8^+$
3070.0 <sup>#</sup> 7	$10^+$
3717.9 <sup>#</sup> 8	$12^+$
4483.9 <sup>#</sup> 8	$14^+$

<sup>†</sup> From least-squares fit to  $E\gamma$ 's.

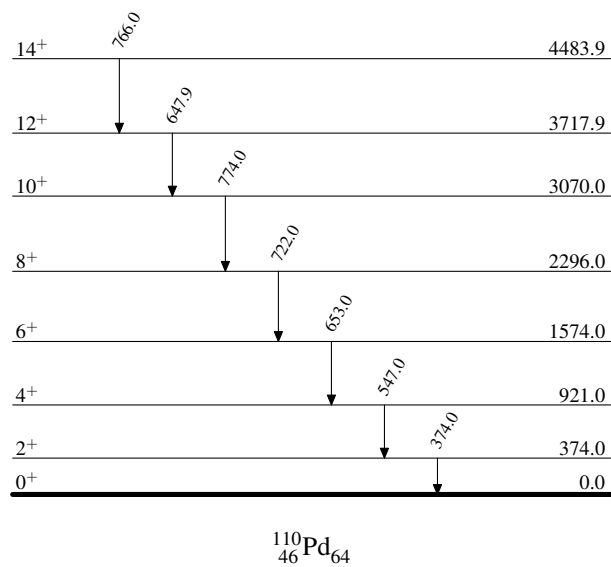
<sup>‡</sup> From [1999Ho25](#).

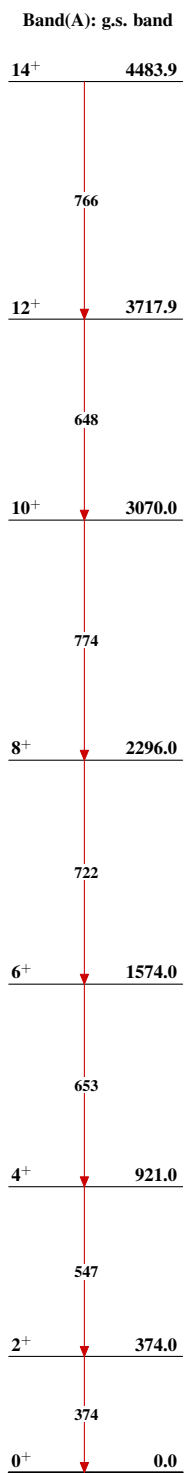
<sup>#</sup> Band(A): g.s. band.

 $\gamma(^{110}\text{Pd})$ 

$E_\gamma$ <sup>†</sup>	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
374.0 3	374.0	$2^+$	0.0	$0^+$
547.0 3	921.0	$4^+$	374.0	$2^+$
647.9 3	3717.9	$12^+$	3070.0	$10^+$
653.0 3	1574.0	$6^+$	921.0	$4^+$
722.0 3	2296.0	$8^+$	1574.0	$6^+$
766.0 3	4483.9	$14^+$	3717.9	$12^+$
774.0 3	3070.0	$10^+$	2296.0	$8^+$

<sup>†</sup> From [1999Ho25](#),  $\Delta E_\gamma = 0.3\text{ keV}$  (by evaluators).

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

$^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$  1999Ho25 $^{110}_{46}\text{Pd}_{64}$