^{110}Pd(n,γ) E=th 2008Kr05

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

E=thermal neutrons produced in 10-MW Budapest Reactor. Measured Eγ, Iγ, cross sections using n-type HPGe detector with BGO Compton- suppression. Absolute crosss sections measured in this study.
Preliminary Eγ,Iγ (semi); enriched ^{110}Pd target(1976BaYK).

^{111}Pd Levels

E(level)[†]	Jπ
0	5/2+
71.6 *5*	1/2+[‡]
191.27 *22*	+
194.4 *4*	+
231.0 *4*	7/2+,9/2+[‡]
275.6 *4*	(3/2+,5/2+)[‡]
412.0 *3*	7/2+,9/2+
450.17 *22*	3/2−,5/2−

[†] From least-squares fit to Eγ's (by compilers).
[‡] From "Adopted Levels" dataset for ^{111}Pd in ENSDF.

γ(^{111}Pd)

Eγ	Iγ[†@]	Ei(level)	J_i^π	Ef	J_f^π
122.8 *3*	0.021 *13*	194.4	+	71.6	1/2+
136.4[‡] *3*	0.0035[#]	412.0	7/2+,9/2+	275.6	(3/2+,5/2+)
181.0[‡] *3*	0.0043[#]	412.0	7/2+,9/2+	231.0	7/2+,9/2+
191.12 *24*	0.033 *9*	191.27	+	0	5/2+
195.0	0.019 *10*	194.4	+	0	5/2+
220.5[‡] *3*	0.0059[#]	412.0	7/2+,9/2+	191.27	+
255.8 *3*	0.016 *12*	450.17	3/2−,5/2−	194.4	+
258.89 *3*	0.0015 *7*	450.17	3/2−,5/2−	191.27	+
412.3 *4*	0.039 *14*	412.0	7/2+,9/2+	0	5/2+

[†] Absolute σ_γ (barns).
[‡] From 'Adopted Levels, gammas' dataset for ^{111}Pd in ENSDF database.
[#] Deduced by 2008Kr05 from branching ratios in 'Adopted Levels, gammas' dataset for ^{111}Pd in ENSDF database.
[@] Intensity per 100 neutron captures.

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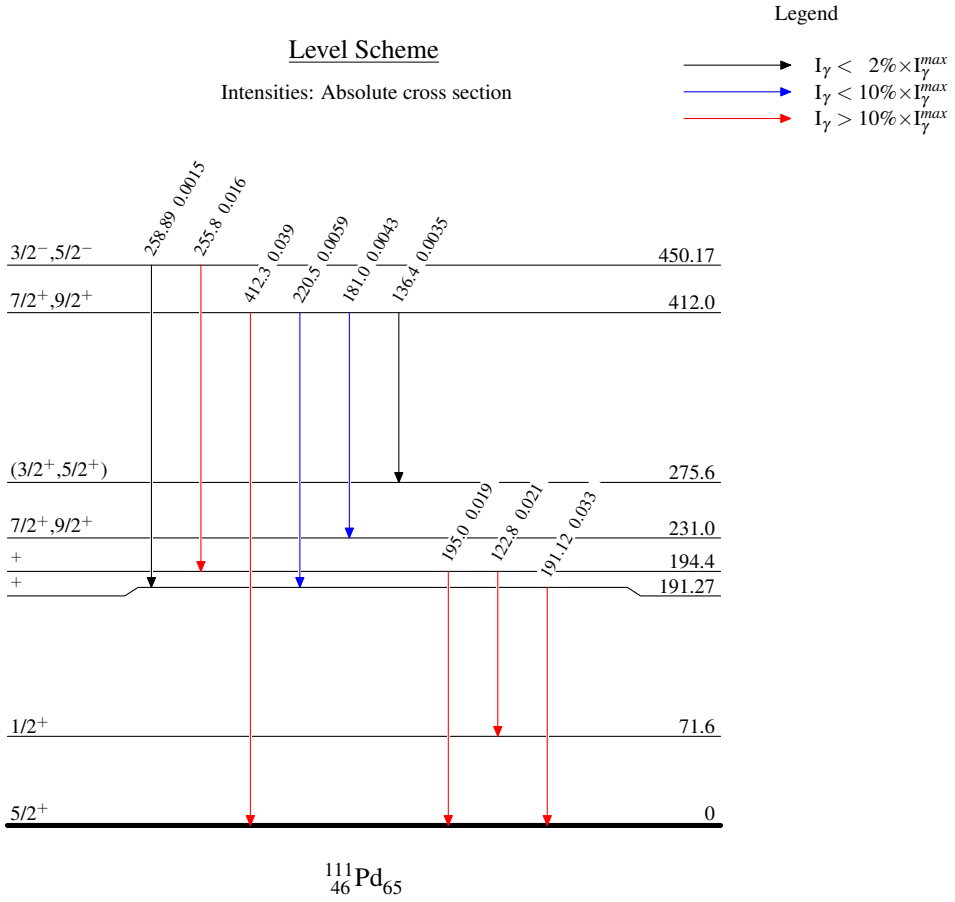
Level Scheme

Intensities: Absolute cross section



$^{111}_{46}Pd_{65}$