^{102}Pd(n,γ) 2008Kr05

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne	NDS 110,2081 (2009)	1-Mar-2009

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.

^{103}Pd Levels

E(level)[†]	J$^{\pi}$[‡]
0.0	5/2$^+$
118.57 *17*	3/2$^+$
266.89 *23*	5/2$^+$
504.19 *10*	(3/2)$^+$

[†] From least-squares fit to Eγ's (by evaluator).
[‡] From Adopted Levels.

γ(^{103}Pd)

E$_\gamma$	I$_\gamma$[†@]	E$_i$(level)	J$^{\pi}_i$	E$_f$	J$^{\pi}_f$
118.53 *18*	0.42 *11*	118.57	3/2$^+$	0.0	5/2$^+$
237.3[‡] *2*	0.055[#]	504.19	(3/2)$^+$	266.89	5/2$^+$
385.4 *4*	0.40 *14*	504.19	(3/2)$^+$	118.57	3/2$^+$
504.2[‡] *1*	0.14[#]	504.19	(3/2)$^+$	0.0	5/2$^+$

[†] Absolute σ_γ (barns).
[‡] From 'Adopted Levels, gammas'.
[#] Deduced by 2008Kr05 from branching ratios in 'Adopted Levels, gammas'.
[@] Intensity per 100 neutron captures.

^{102}Pd(n,γ) 2008Kr05

Level Scheme

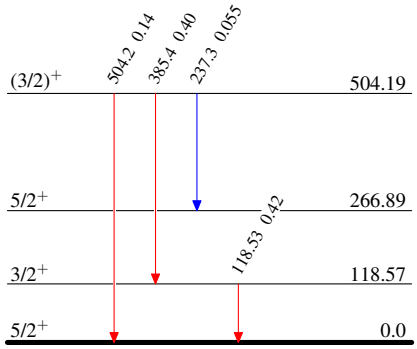
Intensities: Absolute cross section

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$



$^{103}_{46}Pd_{57}$