

$^{102}\text{Pd}(n,\gamma)$ 2008Kr05

Type	Author	History 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 $E\gamma$, $I\gamma$, cross sections using n-type HPGe detector with BGO Compton-suppression. Absolute cross sections measured in this study.

 ^{103}Pd Levels

E(level) [†]	J^π [‡]
0.0	$5/2^+$
118.57 17	$3/2^+$
266.89 23	$5/2^+$
504.19 10	$(3/2)^+$

[†] From least-squares fit to $E\gamma$'s (by evaluator).

[‡] From Adopted Levels.

 $\gamma(^{103}\text{Pd})$

E_γ	σ_γ (barns)	E_i (level)	J_i^π	E_f	J_f^π
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	$5/2^+$

[†] From 'Adopted Levels, gammas'.

[‡] Deduced by 2008Kr05 from branching ratios in 'Adopted Levels, gammas'.

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Level Scheme

Intensities: Absolute cross section

Legend

- \longrightarrow $I_\gamma < 2\% \times I_\gamma^{max}$
- \longrightarrow $I_\gamma < 10\% \times I_\gamma^{max}$
- \longrightarrow $I_\gamma > 10\% \times I_\gamma^{max}$

