

$^{106}\text{Pd}(\text{p},\text{p}'\gamma)$ 1987Fa07

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne and A. Negret		NDS 109, 943 (2008)	1-May-2007

E(p)=7.6 MeV. Measured: E_γ , I_γ , ce, deduced: $\alpha(\text{K})_{\text{exp}}$, ^{106}Pd , branching ratio for 1133 level. Mini-orange spectrometer, Ge(Li)

A total of 21 conversion coefficients were measured but only those listed below are given by the authors. The authors state that the others agree with former values. The gamma intensity was calibrated using a ^{226}Ra source. The analysis of the conversion electron spectra was carried out using the normalized-peak-to gamma method where $\alpha(\text{K})_{\text{exp}}=0.00197$ 13 for the 511.85 keV gamma is accepted by 1987Fa07. However this value is much smaller than the experimental value of 0.0048 (1967Vr05) and the theoretical value of Bricc: 0.00484. This means that the $\alpha(\text{K})_{\text{exp}}$ values given in this paper were corrected for that wrong value by the evaluators.

 $\gamma(^{106}\text{Pd})$

E_γ	Comments
^x 622.2 6	$\alpha(\text{K})_{\text{exp}}=0.0061$ 15
^x 873.55 16	$\alpha(\text{K})_{\text{exp}}=0.0038$ 6
^x 1050.51 6	$\alpha(\text{K})_{\text{exp}}=0.0038$ 6
^x 1061.4 6	$\alpha(\text{K})_{\text{exp}}=0.00024$ 4
^x 1133.9	$\text{ce}(\text{K})(1133.9)/I(\gamma+\text{ce})(622.2)=60\times 10^{-5}$ 20.

^x γ ray not placed in level scheme.