^{126}Pd β^- decay (48.5 ms) 2014Wa26

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	H. Iimura, J. Katakura, S. Ohya	NDS 180, 1 (2022)	1-Oct-2021

Parent: ^{126}Pd: E=0; $J^\pi=0^+$; $T_{1/2}$=48.5 ms *7*; Q(β^-)=8930 *SY*; %β^- decay=100.0

2014Wa26: a high-spin isomer in ^{126}Pd produced in ^{9}Be(^{238}U,F) reaction at 345 MeV/nucleon at RIBF-RIKEN facility. Residual nuclei of interest were separated and identified using BigRIPS and ZeroDegree spectrometer. A total of 53,000 ^{126}Pd fragments were implanted in a highly segmented active stopper WAS3ABi. The gamma rays were detected using EURICA array with 12 Cluster-type HPGe detectors.

^{126}Ag Levels

E(level)	J^π †
0+x	(3^+)
254.3+x	(1^-)

† From Adopted Levels.

$\gamma(^{126}Ag)$

E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Comments
254.3	52 *4*	254.3+x	(1^-)	0+x	(3^+)	E_γ: this γ ray is proposed by the evaluator to be the same as 254.8 in 2012Ka36 and 254 in 2013La11, placed from a 254.8+x level.
[x]263.2	21 *3*					
[x]287.0	68 *4*					
[x]365.0	30 *3*					
[x]583.5	17 *3*					
[x]661.9	35 *3*					
[x]842.6	100 *6*					
[x]914.7	30 *3*					
[x]1133.2	30 *4*					
[x]1502.0	27 *4*					

[x] γ ray not placed in level scheme.

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Decay Scheme

Intensities: Relative I_γ