

$^{117}\text{Rh} \beta^-$  decay **1991Pe10**

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Jean Blachot	ENSDF	1-Mar-2009

Parent:  $^{117}\text{Rh}$ :  $E=0.0$ ;  $J^\pi=(7/2^+)$ ;  $T_{1/2}=0.44$  s 4;  $Q(\beta^-)=7.5 \times 10^3$  5;  $\% \beta^-$  decay=100.0

**1991Pe10**  $^{238}\text{U}(\text{p},\text{F})$   $E=28$  MeV. On-line mass separator.

Measured:  $\gamma$ ,  $\gamma\gamma$ , ce, Ge, electron spectrometer.

$\alpha$ : [Additional information 1](#).

 $^{117}\text{Pd}$  Levels

E(level)	$J^\pi^\dagger$	Comments
0.0	( $5/2^+$ )	$J^\pi$ : by comparing fission yields, authors suggest $\approx 70\%$ $\beta$ feeding to the g.s. which gives: $\log ft \approx 4.8$ .
34.6 3	( $7/2^+$ )	
131.8 3	( $7/2^+$ )	

$^\dagger$  From Adopted Levels.

 $\gamma(^{117}\text{Pd})$ 

$E_\gamma$	$I_\gamma^\ddagger$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult. $^\dagger$	$\alpha$	Comments
34.6 3	10.8 4	34.6	( $7/2^+$ )	0.0	( $5/2^+$ )	M1	8.14 24	$\alpha(\text{K})=7.06$ 21; $\alpha(\text{L})=0.88$ 3; $\alpha(\text{M})=0.167$ 5; $\alpha(\text{N})=0.0279$ 9; $\alpha(\text{N}+..)=0.0279$ 9
97.1 3	11 2	131.8	( $7/2^+$ )	34.6	( $7/2^+$ )	M1	0.412 7	$\alpha(\text{K})=0.358$ 6; $\alpha(\text{L})=0.0442$ 8; $\alpha(\text{M})=0.00832$ 14; $\alpha(\text{N})=0.001398$ 24; $\alpha(\text{N}+..)=0.001398$ 24
131.8 3	33 4	131.8	( $7/2^+$ )	0.0	( $5/2^+$ )	E2,M1	0.35 18	$\alpha(\text{K})=0.29$ 14; $\alpha(\text{L})=0.05$ 4; $\alpha(\text{M})=0.010$ 7; $\alpha(\text{N})=0.0015$ 10; $\alpha(\text{N}+..)=0.0015$ 10
<sup>x</sup> 481.6								

$^\dagger$  From Adopted Levels based on it decay.

$^\ddagger$  Absolute intensity per 100 decays.

<sup>x</sup>  $\gamma$  ray not placed in level scheme.

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## Decay Scheme

Intensities:  $I_{(\gamma+ce)}$  per 100 parent decays

Legend

