

$^{151}\text{Ce } \beta^-$  decay (1.02 s):?    1969WiZX,1970WiZN

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 110, 1 (2009)	20-Nov-2008

Parent:  $^{151}\text{Ce}$ : E=0+x;  $T_{1/2}=1.02$  s 6;  $Q(\beta^-)=5.27\times 10^3$  10; % $\beta^-$  decay=?

$^{151}\text{Ce}$ -E,  $T_{1/2}$ : Uncertain activity.

The existence of 1.02-s activity is considered as tentative.

Other: 1974CIZW.

See  $^{151}\text{Ce}$  'Adopted Levels' for assignment of the isotope.

None of the three  $\gamma$  rays reported here is seen by 2006Ko25 who formed the  $^{151}\text{Ce}$  source by thermal neutron fission of  $^{235}\text{U}$ .

 $^{151}\text{Pr}$  Levels

E(level)	$T_{1/2}$	Comments
0.0+y?		
96.8+y?	20 ns 8	$T_{1/2}$ : from fragment-fragment-X $\gamma$ (t) (1974CIZW).

 $\gamma(^{151}\text{Pr})$ 

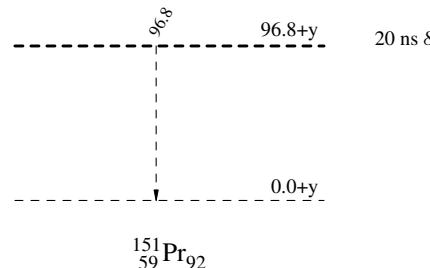
$E_\gamma$	$E_i(\text{level})$	$E_f$	Comments
<sup>x</sup> 84.79 9			$\gamma$ yield per $^{252}\text{Cf}(\text{SF})=0.0675$ 54 (1969WiZX).
96.8 <sup>†</sup> 2	96.8+y?	0.0+y?	Identification with $^{151}\text{Pr}$ from fragment-fragment-X $\gamma$ coincidences (1974CIZW). $\gamma$ yield per $^{252}\text{Cf}(\text{SF})=0.00177$ 6.
<sup>x</sup> 118.57 9			$\gamma$ yield per $^{252}\text{Cf}(\text{SF})=0.00182$ 5 (1969WiZX).

<sup>†</sup> Placement of transition in the level scheme is uncertain.

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

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----->  $\gamma$  Decay (Uncertain)



$^{151}_{59}\text{Pr}_{92}$