

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja, E. A. Mccutchan		NDS 121, 695 (2014)	30-Sep-2013

$Q(\beta^-)=2121$  SY;  $S(n)=5613$  SY;  $S(p)=6033$  SY;  $Q(\alpha)=4114$  SY [2012Wa38](#)  
 $\Delta Q(\beta^-)=32$ ;  $\Delta S(n)=203$ ;  $\Delta S(p)=203$ ;  $\Delta Q(\alpha)=198$  ([2012Wa38](#)).  
 $S(2n)=10528$  syst 78;  $S(2p)=14391$  syst 402 ([2012Wa38](#)).

 $^{243}\text{Np}$  LevelsCross Reference (XREF) FlagsA  $^{244}\text{Pu}(\text{pol } t, \alpha)$ 

E(level) <sup>†</sup>	J <sup>π</sup> <sup>‡</sup>	T <sub>1/2</sub>	XREF	Comments
0.0	(5/2)	1.85 min 15	A	$\% \beta^- = 100$ J <sup>π</sup> : J from systematics of lighter Np nuclei. $\pi = +$ for the lighter Np nuclei however $\pi = -$ from possible ground state band assignment of 5/2[523] in $^{244}\text{Pu}(\text{pol } t, \alpha)$ by <a href="#">1979FI02</a> . T <sub>1/2</sub> : from $\gamma(t)$ in $^{243}\text{Np}$ $\beta^-$ decay ( <a href="#">1987Mo29</a> ). Preliminary result: 1.8 min 3 ( <a href="#">1986TeZY</a> ).
76	1/2 <sup>+</sup> , 3/2 <sup>-</sup>		A	
105	3/2 <sup>-</sup> , 1/2 <sup>+</sup>		A	
175	7/2 <sup>-</sup> , 9/2 <sup>+</sup>		A	
251	5/2 <sup>+</sup>		A	
295	3/2 <sup>-</sup> , 1/2 <sup>+</sup>		A	
330	3/2 <sup>+</sup>		A	
380			A	
400	(7/2 <sup>-</sup> )		A	
422	(3/2 <sup>-</sup> )		A	
532	(1/2 <sup>+</sup> )		A	
580	(9/2 <sup>+</sup> )		A	
675	(11/2 <sup>-</sup> )		A	
710			A	
772			A	
808			A	
853			A	
1044			A	
1128			A	
1173			A	
1268			A	
1391			A	
1430			A	

<sup>†</sup> From  $^{244}\text{Pu}(\text{pol } t, \alpha)$  reaction.

<sup>‡</sup> Proposed spin from analyzing power and L-values in  $^{244}\text{Pu}(\text{pol } t, \alpha)$  reaction ([1979FI02](#)), except where noted.