

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 109,2657 (2008)	1-Jun-2008

$Q(\beta^-) = -3.61 \times 10^3$  10;  $S(n) = 7.89 \times 10^3$  10;  $S(p) = 2.73 \times 10^3$  9;  $Q(\alpha) = 7.01 \times 10^3$  5 [2012Wa38](#)

Note: Current evaluation has used the following Q record -3.62E+3 107990 SY2730 907010 50 [2003Au03](#).

$\Delta S(n) = 210$  syst ([2003Au03](#)).

Assignment:  $^{233}\text{U}$ (41.6 MeV (p,5n)) recoil, parent  $^{221}\text{Ac}$ (7630 $\alpha$ ); parent  $^{217}\text{Fr}$ (8310 $\alpha$ ); parent  $^{213}\text{At}$ (9060 $\alpha$ ) [1968Ha14](#).

 $^{229}\text{Np}$  Levels

E(level)	$T_{1/2}$	Comments
0.0	4.0 min 2	$\% \alpha = 68$ 11 ( <a href="#">2004Sa05</a> ); $\% \varepsilon = 32$ 11 ( <a href="#">2004Sa05</a> ) $\% \alpha$ from $\alpha$ - $\alpha$ following $\alpha$ from $^{229}\text{Np}$ and $\alpha$ from $^{225}\text{Th}$ which results from $^{229}\text{U}$ decay following $^{229}\text{Np}(\varepsilon)$ decay ( <a href="#">2004Sa05</a> ); 70% 10 ( <a href="#">2000Sa52</a> ). $\% \alpha / \% \varepsilon > 1$ was deduced by <a href="#">1968Ha14</a> from absence of $^{229}\text{U}$ $\alpha$ groups in measured spectrum. $T_{1/2}$ : from <a href="#">1968Ha14</a> ; 4.0 min 4 ( <a href="#">2004Sa05</a> ).