

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. Browne	NDS 93,846 (2001)	1-May-2001

$Q(\beta^-) = -3.52 \times 10^3$  10;  $S(n) = 7.91 \times 10^3$  syst;  $S(p) = 2.17 \times 10^3$  8;  $Q(\alpha) = 8.33 \times 10^3$  5 [2012Wa38](#)

Note: Current evaluation has used the following Q record -3500 SY7850 SY2160 708340 50 [1995Au04](#).

Additional information 1.

$^{223}\text{Pa}$  activity was produced by  $^{205}\text{Tl}(^{22}\text{Ne},4n)$ ,  $^{208}\text{Pb}(^{19}\text{F},4n)$ , and  $^{209}\text{Bi}(^{20}\text{Ne},\alpha 2n)$ . Assignment to  $^{223}\text{Pa}$  is based on excitation functions, genetic relationship to daughter nuclei, and production of the activity by several reactions ([1970Bo13](#)).

$^{223}\text{Pa}$  activity was produced by  $^{208}\text{Pb}(^{19}\text{F},4n)$ ,  $E=99$  MeV. Recoiling ions of  $^{223}\text{Pa}$  were separated using the magnetic recoil separator "RITU" ([1999Ho28](#)).

 $^{223}\text{Pa}$  LevelsCross Reference (XREF) Flags

**A**  $^{227}\text{Np}$   $\alpha$  decay

E(level)	$T_{1/2}$	XREF	Comments
0.0	5.1 ms 6	<b>A</b>	$\% \alpha = 100$ $T_{1/2}$ : weighted average of 4.9 ms 4 ( <a href="#">1999Ho28</a> ) and 6.5 ms 10 ( <a href="#">1970Bo13</a> ). $\% \epsilon + \% \beta^+ < 1.0 \times 10^{-3}$ , theory ( <a href="#">1973Ta30</a> ).
27		<b>A</b>	