

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. Browne	NDS 107,2579 (2006)	1-Nov-2004

$Q(\beta^-)=1337$ 8; $S(n)=5549$ 8; $S(p)=5159$ 8; $Q(\alpha)=4627$ 8 [2012Wa38](#)

Note: Current evaluation has used the following Q record 1337 7 5549 8 5158 7 4627 8 [2003Au03](#).

Isobaric analog resonance (IAR) studied via $^{232}\text{Th}(\text{}^3\text{He}, \text{}^3\text{H})$; IAR found at 18.48 MeV 2, $\Gamma(\text{res})=306$ keV 20, fission probability of 0.19 1 found for the IAR ([1981Va18](#)). Other: [1991Ja04](#).

[1998Er01](#), [1995Er02](#), [1993Er01](#): $^{232}\text{Th}(d, 2n)^{232}\text{Pa}(\text{fission})$, $E(d)=7.5\text{-}15.6$ MeV. Measured decay time by fission and level density in second potential well.

 ^{232}Pa Levels

E(level)	J^π	$T_{1/2}$	Comments
0	(2 ⁻)	1.32 d 2	$\% \beta^- = 100$; $\% \epsilon = ?$ $T_{1/2}$: Average of 32.3 h 4 (1.35 d 2) and 31.2 h 2 (1.30 d 1) (1950Ja51). J^π : $\log ft(\text{to } 1016 \text{ keV}, J^\pi=2^-)=5.9$ and $\log ft(\text{to } 1050 \text{ keV}, J^\pi=3^-)=6.2$ in ^{232}U , and possible configuration= ν 5/2[633] + p 1/2[530] suggest $J^\pi=(2^-)$ for ^{232}Pa . Branching: $\% \epsilon = 0.003$ 1 from 1986LoZT . $T_{1/2}(\alpha) \approx 1.2 \times 10^{11}$ d, theory (1997Mo25).