Adopted Levels

History

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 $Q(\beta^{-})=2576 \ 13$; $S(n)=5918 \ 18$; $S(p)=6478 \ 16$; $Q(\alpha)=3215 \ 14$

S(2n)=10597 18, S(2p)=15350 15 (2017Wa10).

1983Ch31: production and identification of ²³³Ac in ²³⁸U(p,4p2n),E=4 GeV reaction, parent of ²³³Th.

1986Gi08: W(²³⁸U,X),E=2.7 GeV, separation by a magnetic spectrometer.

 $\%\beta^{-}=100$

Theoretical studies: consult the NSR database at www.nndc.bnl.gov for three references dealing with theoretical calculations about structure or decay half-lives.

Additional information 1.

²³³Ac Levels

Comments

 J^{π} : β feeding to the $(1/2)^{-}$ state in ²³³Th suggests J=1/2, 3/2. π 1/2[400] orbital was proposed by

1986Gi08 from analogy to 231 Ac. $T_{1/2}$: weighted average of 145 s 10 and 138 s 18 (1983Ch31). Both measurements used γ -ray decay curves.