Adopted Levels

History

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 $Q(\beta^{-})=2760 \text{ SY}; S(n)=5630 \text{ SY}; S(p)=6580 \text{ SY}; Q(\alpha)=3560 \text{ SY}$ $\Delta Q(\beta^{-})=200$, $\Delta S(n)=200$, $\Delta S(p)=340$, $\Delta Q(\alpha)=200$.

²³⁹Pa activity was produced by bombarding a uranium target with 900-MeV ¹⁸O projectiles. Protactinium was chemically separated and its genetic relation to its daughter nuclide ²³⁹U was established. The half-life of ²³⁹Pa was measured by following the growth and subsequent decay of the known 74.6-keV γ ray from ²³⁹U β ⁻ decay (1995Yu01,1996Yu06).

²³⁹Pa Levels

Comments

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

 $T_{1/2}$: From 1995Yu01, 1996Yu06. J^{π} : Assigned by evaluator, based on its β^- decay to the 715- (3/2⁺), 784- (5/2⁻), and 815-keV (1/2⁻) levels in ²³⁹U.