

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS	108,681 (2007)	1-Jun-2006

$Q(\beta^-) = -393$ 11; $S(n) = 6.06 \times 10^3$ 6; $S(p) = 4253$ 9; $Q(\alpha) = 5357$ 9 [2012Wa38](#)
 Note: Current evaluation has used the following Q record -393 11 6060 50 4252 9 5357 9 [2003Au03](#).
[Additional information 1](#).
²³³U(p,3n) E=17-40 MeV. Measured cross sections ([2005Aa02](#)).
²³⁸U(p,5n), ²³²Th(⁷Li,5n) E=30-46 MeV. Measured fission excitation functions, fission fragment mass yields ([1999Zh41](#)).

²³⁴Np Levels

See also ²³⁴Pu ε decay and ²³⁸Am α decay for comments on levels populated in those decays.

Cross Reference (XREF) Flags

[A](#) ²³⁸Am α decay

E(level)	J π	T _{1/2}	XREF	Comments
0.0	(0 ⁺)	4.4 d 1	A	$\% \varepsilon + \% \beta^+ = 100$ $\% \alpha < 0.01$: not observed (no 4.4-d α activity and no ²³⁰ Pa growth in ²³⁴ Np was observed (1949Hy04)). T _{1/2} : From 1955Pr29 . Other values: 4.4 d (1949Os01), 4.40 d 5 (1949Hy04). J π : ε decay to ²³⁴ U suggests J π =0 ⁺ : π 5/2[642], ν 5/2[633]. Analogy to neighboring nuclei.
0.0+x			A	E(level): level is populated in ²³⁸ Am α decay. Possible configuration is J π =1 ⁻ : π 5/2[523], ν 3/2[631].