

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Khalifeh Abusaleem	NDS 116, 163 (2014)	31-Dec-2012

$Q(\beta^-) = -4374.53$ ;  $S(n) = 7871.22$ ;  $S(p) = 4899.17$ ;  $Q(\alpha) = 6804.10$  (2012Wa38)  
 $Q(\beta^-) = -4477.59$ ;  $S(n) = 7869.22$ ;  $S(p) = 4896.17$ ;  $Q(\alpha) = 6475.3$  (2009AuZZ).

Calculations, compilations, systematics:

Binding energies, deformation: 1986Ch23.

Equilibrium deformation, energy: 1991Pa11, 1988So08, 1984Na22.

Levels,  $b(\lambda)$ : 1986Da03.

Octupole deformation: 1981Gy03.

Properties of prolate superdeformed states: 1992Ch20.

Spontaneous emission of heavy ions: 1986Po06.

Super- and hyper-deformed configurations: 1995We02.

 $^{228}\text{U}$  LevelsCross Reference (XREF) Flags

A  $^{232}\text{Pu}$   $\alpha$  decay

<u>E(level)</u>	<u><math>J^\pi</math></u>	<u><math>T_{1/2}</math></u>	<u>XREF</u>	<u>Comments</u>
0.0	$0^+$	9.1 min 2	A	$\% \epsilon < 5$ ; $\% \alpha > 95$ $T_{1/2}$ : from 1961Ru06; other: 9.3 min 5 (1951Me10). $\% \epsilon$ : Upper limit obtained by 1961Ru06 from absolute counting of $^{228}\text{Pa}$ daughter from a source of $^{228}\text{U}$ . From gross $\beta^-$ decay systematics of 1973Ta30 one gets $\% \epsilon < 0.7$ . However, note that $Q(\epsilon)$ is very small (343 keV 16) and the calculation is less reliable at small Q values.
59 14	$2^+$		A	E(level): from $^{232}\text{Pu}$ $E\alpha$ (1973Ja06). $J^\pi$ : HF $\approx 1.1$ from $0^+$ .