Adopted Levels

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

Q(β^-)=−3.1×10^3 *SY*; S(n)=7.2×10^3 *SY*; S(p)=2.3×10^3 *SY*; Q(α)=7.2×10^3 *SY* 2012Wa38
Note: Current evaluation has used the following Q record.
S(n)=7110 *SY*; S(p)=2180 *SY*; Q(α)=7270 *SY* 2003Au03
^{232}Am produced in the ^{230}Th(^{10}B,^{8}N) reaction. Measured excitation function, detected fission fragments (1967Ku15).
^{232}Am produced in the ^{237}Np(α,9n) reaction (Eα=104 MeV). Detected fission fragments and alpha particles from the ^{238}Np decay chain (1978Ha05).
^{232}Am produced in the ^{237}Np(α,9n) reaction (Eα=94-98 MeV). Americium was chemically separated. Measured K x-rays and electron-capture delayed fission fragments (1990Ha28).

^{232}Am Levels

E(level)	$T_{1/2}$	Comments
0	79 s *2*	%ε≈97; %α≈3; %εF=0.069 *10* %α: Value from calculated $T_{1/2}(\alpha)$ in 2001Mo07, 1997Mo25. $T_{1/2}$: From 1989HaZO, 1990Ha28. Other values: 84 s *18* (1967Ku15), 55 s *2* (1978Ha25). Fission fragments following the electron-capture (ε) decay of ^{232}Am have been detected. An emission probability of 0.069% 10 has been estimated on the basis of a measured K x-ray/fission ratio and reported in 1990Ha28. The detected fission fragments probably originate from highly excited states in ^{232}Pu populated in the ε decay of ^{232}Am. Possible configuration=((π 5/2[523])(ν 3/2[631])) J^π=1$^-$.