Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 107,2323 (2006)	15-Mar-2006

S(p)=2.9×10^3 *syst*; Q(α)=8.22×10^3 *5* 2012Wa38
Note: Current evaluation has used the following Q record 2900 syst 8100 syst 2003Au03.
ΔS(p)=600 (syst), ΔQ(α)=500 (syst) 2003Au03.
^{237}Cf isotopes produced by ^{206}Pb(^{34}S,3n) and ^{207}Pb(^{34}S,4n) reactions (1995La09). Target: Enriched ^{206}Pb (94.9%) and ^{207}Pb (93.2%), targets were on cooled copper cylinder with rotational facility. Projectile: ^{34}S, E=215 MeV. Detector: mica fission-fragment detectors. Measured: spontaneous fission events.

^{237}Cf Levels

E(level)	$T_{1/2}$	Comments
0.0	2.1 s *3*	%SF≈10 syst $T_{1/2}$: from 1995La09: deduced using the maximum-likelihood method, the uncertainty is statistical only. In Table 1 (1995La09), $T_{1/2}$=2.4 s +0.8 −0.4 from ^{207}Pb(^{34}S,4n) and $T_{1/2}$=1.9 s *3* from ^{206}Pb(^{34}S,3n) are presented. %SF: estimated using a cross section value of 0.5 nb (but 0.05 nb in 1995La09, Table 1) for the ^{206}Pb(^{34}S,3n), ^{207}Pb(^{34}S,4n) reactions on the assumption that SF Branching is dependent on the absolute cross sections (1995La09).