^{186}Au α decay (10.7 min) 1990Ak04

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 130, 21 (2015)	15-Jul-2015

Parent: ^{186}Au: E=0; $J^\pi=3^-$; $T_{1/2}$=10.7 min *5*; Q(α)=4912 *14*; %α decay=0.0008 *2*

^{186}Au-E,J^π,$T_{1/2}$: From Adopted Levels of ^{186}Au in the ENSDF database.

^{186}Au-Q(α): From 2012Wa38 evaluation, which is based on input measured Eα=4653 *15* (1990Ak04) and suggestion by 1995Sa42 from configuration assignments to the parent and daughter levels that the α transition feeds a 152.3, 3^- level. In a recent ^{182}Pt decay study by 2007Ho20 (same group as 1995Sa42), the 152.3 level is assigned $J^\pi=1^-,2^-$ and another 152.5 level is assigned 4^-. The evaluators treat this placement as uncertain since no γ rays were seen by 1990Ak04.

^{186}Au-%α decay: %α=0.0008 *2* (1990Ak04,1995Bi01).

1990Ak04 (also 1995Bi01): Measured Eα, Iα, deduced hindrance factor.

^{182}Ir Levels

E(level)	J^π
0	3^+
152.3?	$(1,2)^-$

α radiations

Eα	E(level)	Iα[†]	HF	Comments
4653[‡] *15*	152.3?	100	2	HF: from 1995Bi01.

[†] For absolute intensity per 100 decays, multiply by 8×10^{-6} *2*.

[‡] Existence of this branch is questionable.