^{179}Au α decay 2004Ra28,1986Ke03,1968Si01

Type	Author	History Citation	Literature Cutoff Date
Update	M. S. Basunia		31-Jan-2005

Parent: ^{179}Au: E=0.0; $J^{\pi}=(5/2^{-})$; $T_{1/2}=7.1$ s *3*; Q(α)=6052 *18*; %α decay=22.0 *9*

^{179}Au-%α decay: %α=22.0 *9* from 1986Ke03.

Other: 1968De01.

2004Ra28: Activity produced by ^{183}Tl α decay. Detector: Silicon.
strip detector. Measured Eα.

1986Ke03: Activity produced by ^{90}Zr on ^{90}Zr, ^{92}Zr, and ^{89}Y. Measured Eα, Iα. Determined %α branching. Detector: Surface Barrier Silicon Detector.

1968Si01: Activity produced by ^{168}Yb(^{19}F,8n), ^{169}Tm(^{20}Ne,10n). Measured Eα. Detector: Surface Barrier Silicon Detector.

1968De01: Activity produced by ^{147}Sm(^{40}Ar,8n). Measured Eα. Detector: Surface Barrier Silicon Detector.

^{175}Ir Levels

E(level)	J^{π}[†]
0.0	$(5/2^{-})$
49	$(9/2^{-})$

[†] From Adopted Levels.

α radiations

Eα	E(level)	Comments
5848 *5*	49	Eα: From 1968Si01. Other value: 5824 *16* (1968De01). Eα leads to a Q value of 5982 *5* for ^{179}Au, the reason for the difference with the 6052 *18* (2003Au03) is unknown.
5810 *15*		Eα: From 2004Ra28. 5810α decaying to the 49 keV level leads to a Q value of 5991 *15* for ^{179}Au, the reason for the difference with the 6052 *18* (2003Au03) is unknown.