Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao	NDS 121, 395 (2014)	1-Mar-2014

Q(β^-)=218×10[1] *6*; S(n)=515×10[1] *6*; S(p)=956×10[1] *21*; Q(α)=−76×10[1] *8* 2012Wa38

1957Ba08 observed a 6.5-min activity, in ^{198}Pt(n,α) E≤28 MeV, with Eβ(max)=2 MeV. 1957Ba08 assigned this activity to ^{195}Os on the basis of genetic relationship to ^{195}Ir, which recently has been confirmed in 2013Bi14.

^{195}Os Levels

Cross Reference (XREF) Flags

A ^{9}Be(^{208}Pb,Xγ)
B ^{9}Be(^{197}Au,X)

E(level)[†]	J$^\pi$	T$_{1/2}$	XREF	Comments
0.0	(3/2$^-$)	6.5 min *11*	AB	%β^-=? T$_{1/2}$: from 2013Bi14, which believe 1957Re01 indeed observed the decay of ^{195}Os, and refitted the data as presented in Fig.2 of 1957Re01. The fit contained 3 components: the decay of ^{195}Os, the growth and decay of ^{195}Ir(T$_{1/2}$=2.29 h *17* of 2013Bi14), and the decay of ^{193}Os (T$_{1/2}$=29.830 h *18* of 2012Kr05). J$^\pi$: from systematics in neighbour nuclide.
438.6? *2*			A	
454 *10*		>9 min	B	%IT>0; %β^-=? (2012Re19) E(level): from measured mass difference between the isomer and g.s. (2012Re19). T$_{1/2}$: measured in 2012Re19 for bare ^{195}Os ions. Isomeric transition was observed, implying γ-ray emission.
931.6? *3*			A	
1464.7? *4*		26 ns *4*	A	T$_{1/2}$: From 2005Ca02.

[†] From Eγ.

γ(^{195}Os)

E$_i$(level)	E$_\gamma$[†]	I$_\gamma$[†‡]	E$_f$	J$_f^\pi$	Comments
438.6?	438.6 *2*	100	0.0	(3/2$^-$)	
931.6?	493.0 *2*	100	438.6?		
1464.7?	533.1 *2*	100	931.6?		α(exp)≥1.6.

[†] From ^{9}Be(^{208}Pb,xγ).
[‡] Relative intensity from each levels.

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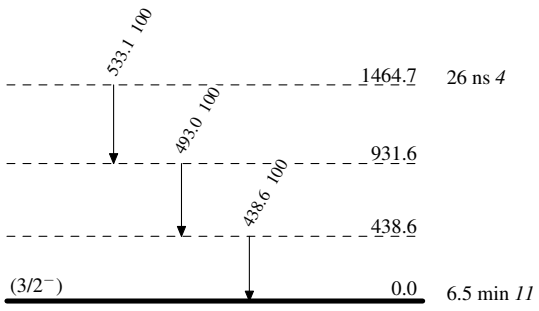
Level Scheme

Intensities: Relative photon branching from each level



$^{195}_{76}Os_{119}$