^{167}Ir α decay (28.2 ms) 2005Sc22,2001Da31,1997Da07

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	10-Jun-2015

Parent: ^{167}Ir: E=175.3 *22*; $J^\pi=11/2^-$; $T_{1/2}$=28.2 ms *10*; Q(α)=6504.8 *26*; %α decay=89 *3*

^{167}Ir-Q(α): From 2012Wa38.

^{167}Ir-E: From energy differences from the p decays of the two ^{167}Ir activities (2001Da31).

^{167}Ir-J^π: From l=5 p decay to the ^{166}Os g.s. ($J^\pi=0^+$) (2001Da31).

^{167}Ir-$T_{1/2}$: Weighted average (NRM) of: 28.7 ms *33* (α decay,2005Sc22); 28.8 ms *13* (p decay,2005Sc22), 25.7 ms *8* (2004Ke06); 30.0 ms *6* (1997Da07); and 34 ms *4* (1996Pa01).

^{167}Ir-%α decay: Weighted average of %α=90 *3* (2005Sc22) and 80 *10*(1997Da07). %p=0.42 *8* (2005Sc22), 0.4 *1* (1997Da07). Implied %ε+%β^+=9.6 *30*.

Others: 1981Ho10, 1979Ho10.

^{163}Re Levels

E(level)	J^π	Comments
115 *4*	$11/2^-$	E(level): from the energetics of the α and p decays of the two ^{167}Ir activities (2001Da31). J^π: fed by the favored α decay of the ^{167}Ir isomer ($J^\pi=11/2^-$) (2001Da31).

α radiations

Eα	E(level)	Comments
6402 *4*	115	Eα: weighted average of: 6404 *6* (2005Sc22); 6410 *5* (1997Da07); 6394 *4* (2004Ke06); and 6410 *11* (1996Pa01). 2001Da31 (same group as 1997Da07) report Eα=6410 *3*. 2004Ke06 actually report ΔEα=2, but the evaluators have increased this so that the weight associated with this value will not exceed half of the summed weights of all the values used in the weighted average. Other: 6386 *10* 1981Ho10).