^{165}Ir α decay (0.30 ms) 1997Da07

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich	NDS 112,2497 (2011)	1-Jun-2011

Parent: ^{165}Ir: E=180 *51*; $J^{\pi}=11/2^{-}$; $T_{1/2}$=0.30 ms *6*; Q(α)=6826 *51*; %α decay=13 *4*

^{165}Ir-Q(α): Q(α) (for the ^{165}Ir g.s.) is from 2009AuZZ.

^{165}Ir-E: Energy of this level above the presumed $s_{1/2}$ g.s. was computed from the energy separation of the $h_{11/2}$ and $s_{1/2}$ states In ^{161}Re and the energy of the α transition connecting the two $11/2^{-}$ states.

^{165}Ir-$T_{1/2}$: Weighted average of 0.29 ms *6*, from p(t), and 0.39 ms *16*, from α(t), (1997Da07).

^{165}Ir-%α decay: from the measured relative intensity of the protons and α particles deexciting this level. (see ^{165}Ir Adopted Levels.).

Additional information 1.

1997Da07: ^{165}Ir source produced in ^{92}Mo(^{78}Kr,p4n) at E(^{78}Kr)=384 MeV. Used recoil mass separator with PPAC/DSSD detectors.

^{161}Re Levels

E(level)	J^{π}	$T_{1/2}$
123.8 *13*	$11/2^{-}$	15.6 ms *9*

α radiations

Eα	E(level)	Iα[†]	Comments
6715 *7*	123.8	100	Eα: from 1997Da07.

[†] For absolute intensity per 100 decays, multiply by 0.13 *4*.