^{175}Ir α decay 1967Si02,1986Ke03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin, E. A. Mccutchan	NDS 151, 334 (2018)	30-Jun-2018

Parent: ^{175}Ir: E=0.0; J^π=(5/2$^-$); $T_{1/2}$=9 s *2*; Q(α)=5430 *30*; %α decay=0.85 *28*

1967Si02: sources from ^{16}O on ^{169}Tm and ^{19}F on ^{162,164,166}Er (recoil collection); enriched targets; measured Eα, Iα (silicon surface-barrier detector).

1986Ke03: sources from ^{90}Zr on Y, Zr and Mo (E(^{90}Zr)=321-390 MeV); velocity-filter, evaporation-residue separation; enriched targets; measured Eα, Iα (silicon surface-barrier detector).

^{171}Re Levels

E(level)†	J^π†	$T_{1/2}$†	Comments
0.0	(9/2$^-$)	15.2 s *4*	
189.8 *4*	(5/2$^-$)		J^π: unhindered α decay from (5/2$^-$) ^{175}Ir.

† From Adopted Levels.

α radiations

Eα	E(level)	Iα‡	HF†	Comments
5393 *5*	189.8	100	0.15 *7*	Eα: from 1967Si02.

† If r_0=1.545 *15* (unweighted average of r_0(^{170}W)=1.53 *4* and r_0(^{172}Os)=1.559 *10* (1998Ak04)).

‡ For absolute intensity per 100 decays, multiply by 0.0085 *28*.