^{170}Ir ε decay (0.87 s) 2001Ki10,2002Ro17

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. M. Baglin[1], E. A. Mccutchan[2], S. Basunia[1]	NDS 153, 1 (2018)	1-Oct-2018

Parent: ^{170}Ir: E=0.0; $J^{\pi}=(3^-)$; $T_{1/2}$=0.87 s *+18−12*; Q(ε)=10567 *SY*; $\%\varepsilon+\%\beta^+$ decay=94.8 *17*

^{170}Ir-Q(ε): 10567 (syst) *89* (2017Wa10).

^{170}Ir-$\%\varepsilon+\%\beta^+$ decay: from (100−$\%\alpha$), where $\%\alpha$=5.2 *17* (from 2002Ro17).

2001Ki10: ^{170}Ir source produced using ^{144}Sm(^{31}P,5n), E(^{31}P)=150 MeV for use in a study of the ε decay of the ^{170}Re granddaughter. No details are reported for ^{170}Ir ε decay (2001Ki10).

2002Ro17: ^{170}Ir parent produced In sequential α decay of ^{178}Tl and ^{174}Au; Si strip detector; measured Eα, parent-daughter α correlations; ε decay of ^{170}Ir inferred from observed intensity of ^{170}Os α decay after making allowance for ^{170}Os production via the alternative ^{178}Tl(α)-^{174}Au(ε)-^{174}Pt(α)-^{170}Os sequence.

^{170}Os Levels

E(level)	J^{π}
0.0	0^+