^{153}Yb β^+p decay 1988Wi05

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. J. Martin	NDS 114, 1497 (2013)	31-Aug-2013

Parent: ^{153}Yb: E=0.0; $J^\pi=7/2^-$; $T_{1/2}$=4.2 s *2*; Q(β^+p)=6150 *SY*; %β^+p decay=0.008 *2*
^{153}Yb-%β^+p decay: %β^+p=0.008 *2* (1988Wi05).
Assignment: ms, (Tm K x ray)p coin, known ^{152}Er γ, p coin.
Measured: γ, p, Tm K x ray, γp, (Tm K x ray)p.
Mean E(p)=3.9 MeV.
Proton energy deduced by the evaluator from the average proton energy measured as 3900, and the deduced branchings to the g.s. and 808 level. The branching to the 1481 level was neglected.

^{152}Er Levels

E(level)	J^π[†]
0.0	0^+
808	2^+
1481	4^+

[†] From Adopted Levels.

$\gamma(^{152}Er)$

E_γ	E_i(level)	J_i^π	E_f	J_f^π
673	1481	4^+	808	2^+
808	808	2^+	0.0	0^+

Delayed Protons (^{152}Er)

E(p)	E(^{152}Er)	I(p)[†]
2625	1481	3 *3*
3300	808	40 *12*
4100	0.0	57 *17*

[†] For absolute intensity per 100 decays, multiply by 0.00008 *2*.

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Decay Scheme