## $^{130}$In $\beta^-$n decay:mixed 1993Ru01,1986Wa17,1981En05

History

| Type | Author | Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | Janos Timar and Zoltan Elekes, Balraj Singh | NDS 121, 143 (2014) | 31-May-2014 |

Parent: $^{130}$In: E=50 *50*; $J^\pi$=(10$^-$); $T_{1/2}$=0.54 s *1*; Q($\beta^-$n)=2650 *40*; %$\beta^-$n decay=1.65 *15*

Parent: $^{130}$In: E=400 *60*; $J^\pi$=(5$^+$); $T_{1/2}$=0.54 s *1*; Q($\beta^-$n)=2650 *40*; %$\beta^-$n decay=1.65 *15*

$^{130}$In(50)-Q($\beta^-$n): From 2012Wa38.

$^{130}$In(50)-$J^\pi$,$T_{1/2}$: From $^{130}$In Adopted Levels.

$^{130}$In(400)-Q($\beta^-$n): From 2012Wa38.

$^{130}$In(400)-$J^\pi$,$T_{1/2}$: From $^{130}$In Adopted Levels.

$^{130}$In(400)-%$\beta^-$n decay: %$\beta^-$n=1.65 *15*; combined for (10$^-$) isomer at 50 *50* and (5$^+$) isomer at 400. Weighted average of 2.03 *12* (1993Ru01), 1.67 *9* (1986Wa17), 4.3 *15* (1981En05), 1.40 *9* (1980Lu04). 1993Ru01 and 2002Pf04 recommend 1.65 *18*, combined for both isomers.

1993Ru01, 1986Wa17, 1981En05: measured delayed neutron emission probability and half-life.

The details of the decay scheme are not known.

### $^{129}$Sn Levels

| E(level) | $J^\pi$ | Comments |
|---|---|---|
| 0 | 3/2$^+$ | Assumed that g.s. is populated in this decay. |