^{71}Co β^-n decay 2012Ra10

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal, E. A. Mccutchan	NDS 136, 1 (2016)	1-Jul-2016

Parent: ^{71}Co: E=0.0; J^π=(7/2$^-$); $T_{1/2}$=80 ms *3*; Q(β^-n)=6.77×10^3 *47*; %β^-n decay<3.6

^{71}Co-%β^-n decay: %β^-n < 2.7 *9* estimated from γ-ray intensity measurements (2012Ra10).

2012Ra10: ^{71}Co activity from fragmentation of a ^{86}Kr beam with E=140 MeV/nucleon on a ^{9}Be target. Recoil products separated with the A1900 spectrometer and identified by TOF and ΔE techniques. Measured Eγ, Iγ, $\beta\gamma$ coincidences using a DSSD positioned within a Si detector telescope surrounded by the SeGA array consisting of 12 segmented HPGe detectors. Preliminary results presented in 2005Ma95, 2005MaZX.

^{70}Ni Levels

E(level)	J^π[†]
0.0	0$^+$
1259.7 *9*	2$^+$

[†] From the Adopted Levels.

$\gamma(^{70}Ni)$

E_γ	I_γ	E_i(level)	J_i^π	E_f	J_f^π	Comments
1259.7 *9*	5 *2*	1259.7	2$^+$	0.0	0$^+$	I_γ: relative to Iγ(566.9γ)=100 from ^{71}Co β^- decay.

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Decay Scheme

Intensities: Type not specified