^{53}Ni ε decay 1976Vi02,1979ViZY

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Huo Junde	NDS 110,2689 (2009)	31-Mar-2007

Parent: ^{53}Ni: E=0.0; J^{π}=(7/2$^-$); $T_{1/2}$=45 ms *15*; Q(ε)=1328×10^1 *16*; %ε+%$β^+$ decay=100.0
Produced in ^{40}Ca(^{16}O,3n) at E=65 MeV.
Measured: delayed protons with E(p)(c.m.)=1940 *50* and I(p)≈0.45 per decay (if log *ft*=3.3 for ε to IAS of ^{53}Ni(g.s.)) were observed.

^{53}Co Levels

E(level)	J^{π}†	Comments
0	(7/2$^-$)	
≈4390	(7/2$^-$)	E(level): responsible for emission of delayed protons with E(p)(c.m.)=1940 keV *50*.

† From adopted values.

ε,$β^+$ radiations

E(decay)	E(level)	I$β^+$ †	Iε†	Log *ft*	I(ε+$β^+$)†	Comments
(8.89×10^3 *16*)	≈4390	45.0	0.0	3.4	45.0	av Eβ= 3697 *89*; εK= 0.00086 *7*; εL= 9.3×10^{-5} *7*; εM+= 1.61×10^{-5} *12* I$β^+$: if log *ft*=3.4.
(1.328×10^4 *16*)	0					

† Absolute intensity per 100 decays.