Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde	NDS 128, 185 (2015)	10-Jul-2015

Q(β^-)=−10520 *SY*; S(n)=14720 *SY*; S(p)=1080 *SY*; Q(α)=−7090 *SY* 2012Wa38
ΔQ(β^-)=730$ ΔS(n)=200$ ΔS(p)=200$ ΔQ(α)=260 (2012Wa38)$.
Populated by ^{40}Ca(^{14}N,2n) (1997Ha04,1990MiZK), and Ni(^{58}Ni,X) (1987Po04,2007Do17).

^{52}Co Levels

Cross Reference (XREF) Flags

A ^{52}Ni ε decay

E(level)	J^π	$T_{1/2}$	XREF	Comments
0	(6^+)	104 ms *7*	A	%ε+%β^+=100; %β^+p=? $T_{1/2}$: from weighted average of 115 MS 23 (1997Ha04) and 103 ms *7* (2013Su07). J^π: based on apparently allowed ε to 6^+ state in ^{52}Fe and analogy to ^{44}V (4 particles in f7/2 shell, 4 holes in f7/2 shell for ^{52}Co).
(370 *30*)	2^+		A	E(level),J^π: Based on 378, 2^+ in mirror nucleus ^{52}Mn.
512	1^+		A	E(level),J^π: Based on 546, 1^+ in mirror nucleus ^{52}Mn.
2931 *30*	0^+		A	J^π: Based on G to 1^+ and B+ (from 0^+) to the state.

γ(^{52}Co)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π
512	1^+	142.3 *1*		370?	2^+
2931	0^+	2418.3 *3*	100	512	1^+

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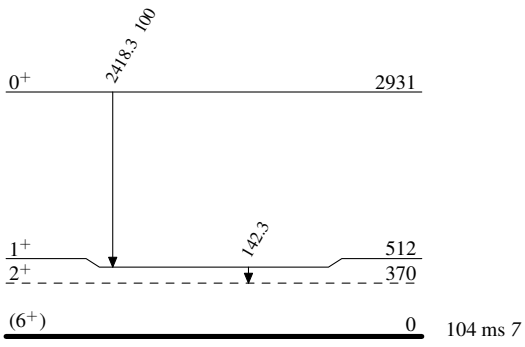
Level Scheme

Intensities: Relative photon branching from each level



$^{52}_{27}Co_{25}$