

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Wang Jimin and Huang Xiaolong		NDS 144, 1 (2017)	1-Mar-2016

$Q(\beta^-) = -1.54 \times 10^4$  SY;  $S(n) = 1.78 \times 10^4$  SY;  $S(p) = 1.5 \times 10^2$  5;  $Q(\alpha) = -7.20 \times 10^3$  6    [2017Wa10](#)  
 Estimated uncertainties ([2017Wa10](#)):  $\Delta Q(\beta^-) = 500$ ,  $\Delta S(n) = 400$ .

 $^{51}\text{Co}$  LevelsCross Reference (XREF) Flags

- A** Ni( $^{58}\text{Ni}, X$ )  
**B**  $^{12}\text{C}(^{50}\text{Fe}, ^{51}\text{Co}\gamma)$

E(level)	$J^\pi$	$T_{1/2}$	XREF	Comments
0	$7/2^-$	68.8 ms 19	<b>AB</b>	$\% \epsilon + \% \beta^+ = 100$ ; $\% \epsilon p < 3.8$ ( <a href="#">2007Do17</a> ) $\% \epsilon p$ : No delayed protons were detected. The total proton branching ratio is from time spectrum of events with energy $> 900$ keV in the charged-particle spectrum. Thus $^{51}\text{Co}$ decays mostly by $\beta^+ + \epsilon$ decay to $^{51}\text{Fe}$ ( <a href="#">2007Do17</a> ). $T_{1/2}$ : By time correlation of implantation events due to $^{51}\text{Co}$ and subsequent emission of protons and $\gamma$ rays ( <a href="#">2007Do17</a> ). Other: $> 200$ ns (TOF, <a href="#">1987Po04</a> ). $J^\pi$ : from analysis of cross section data and parallel momentum distribution ( <a href="#">2012Mc01</a> ). $\Sigma_{\text{exp}}^{\text{inc}}(^{12}\text{C}) = 0.53$ mb 13, $\Sigma_{\text{exp}}^{\text{inc}}(^9\text{Be}) = 0.57$ mb 8 ( <a href="#">2012Mc01</a> ).