

^{74}Co β^- decay (31.3 ms) [2005Ma59](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	31-Mar-2017

Parent: ^{74}Co : $E=0$; $T_{1/2}=31.3$ ms *15*; $Q(\beta^-)=15640$ SY; $\% \beta^-$ decay=100.0

^{74}Co - $Q(\beta^-)$: 15640 540 (syst,[2017Wa10](#)).

^{74}Co - $T_{1/2}$: From ^{74}Co Adopted Levels.

[2005Ma59](#) (also [2005Ma95](#)): ^{74}Co produced by fragmentation of ^{86}Kr beam at 140 MeV/nucleon in a ^9Be target, followed by analysis of reaction products using A1900 spectrometer. Measured γ , β , γ (implanted ion) coin, $\beta\gamma$ coin.

 ^{74}Ni Levels

E(level)	J^π [†]
0	0 ⁺
1024 <i>1</i>	2 ⁺
1763? <i>1</i>	(4 ⁺)

[†] From Adopted Levels.

 $\gamma(^{74}\text{Ni})$

E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π
739 [‡] <i>1</i>	1763?	(4 ⁺)	1024	2 ⁺
1024 <i>1</i>	1024	2 ⁺	0	0 ⁺

[†] Weak peaks in $\beta\gamma$ coin spectrum correlated with implanted ^{74}Co ions. The assignments in level scheme are tentative ([2005Ma59](#)). A 240 γ seen in this spectrum is assigned to ^{73}Ni from β^-n decay of ^{74}Co .

[‡] Placement of transition in the level scheme is uncertain.

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Decay Scheme

Legend

