

$^{63}\text{Ni}$   $\beta^-$  decay

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Jun Chen	NDS 196,17 (2024)	30-Sep-2023

Parent:  $^{63}\text{Ni}$ :  $E=0.0$ ;  $J^\pi=1/2^-$ ;  $T_{1/2}=100.8$  y 15;  $Q(\beta^-)=66.977$  15;  $\% \beta^-$  decay=100

$^{63}\text{Ni}$ - $J^\pi, T_{1/2}$ : From Adopted Levels of  $^{63}\text{Ni}$ .

$^{63}\text{Ni}$ - $Q(\beta^-)$ : From [2021Wa16](#).

$T_{1/2}$  measurements: [2008Co01](#), [1996Co25](#).

$\beta$  spectrum measurements: [1999Ho09](#), [1998An03](#), [1996Ga05](#), [1996Ga37](#), [1994Va14](#), [1994Wa35](#), [1993Oh02](#), [1992Ka29](#), [1992Ol01](#), [1989Co13](#), [1987He14](#), [1985Ru09](#).

$^{63}\text{Ni}$  activity measurements: [1997Zi02](#), [1996Ch28](#), [1983Yo02](#).

 $^{63}\text{Cu}$  Levels

<u>E(level)</u>	<u><math>J^\pi</math></u>	<u><math>T_{1/2}</math></u>
0.0	$3/2^-$	stable

 $\beta^-$  radiations

<u>E(decay)</u>	<u>E(level)</u>	<u><math>I\beta^{-\dagger}</math></u>	<u>Log <math>ft</math></u>	<u>Comments</u>
66.945 4	0.0	100	6.6597 1	av $E\beta=17.4394$ 14 E(decay): from 66.9451 23(stat)32(syst) from <a href="#">1992Ka29</a> . Others: 66.946 20 ( <a href="#">1987He14</a> ), 65.87 15 ( <a href="#">1966Hs01</a> ), 67.0 5 ( <a href="#">1957Pr48</a> ).

$\dagger$  Absolute intensity per 100 decays.