

$^{163}\text{Dy}[+66] \beta^-$  decay (48 d) [1992Ju01,1997K106](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich, Balraj Singh		NDS 111, 1211 (2010)	12-Apr-2010

Parent:  $^{163}\text{Dy}$ :  $E=0$ ;  $J^\pi=5/2^-$ ;  $T_{1/2}=48$  d 3;  $Q(\beta^-)=-2.565$  I4;  $\% \beta^-$  decay=100.0

$^{163}\text{Dy}$ -E: g.s. of  $^{163}\text{Dy}^{66+}$  ion ( $66^+$  charge state).

$^{163}\text{Dy}$ -Q( $\beta^-$ ) for K-shell bound-state decay= 50.3 I0; for L-shell Q( $\beta^-$ )= 1.7 keV ([1992Ju01](#)).

Bound state  $\beta^-$  decay of  $^{163}\text{Dy}^{66+}$  ion with  $T_{1/2}=48$  d.

[1992Ju01,1997K106](#) (also [1993Ju02,1995Bo34](#)):  $T_{1/2}$  measured by storing  $^{163}\text{Dy}$ , fully-stripped ( $66^+$  charge state) ions in a heavy-ion storage ring.

$T_{1/2}(^{163}\text{Dy}^{66+})=48$  d 3 ([1997K106](#)). Other from the same group: 47 d +5-4 ([1992Ju01](#)).

[Additional information 1](#).

 $^{163}\text{Ho}$  Levels

E(level)	$J^\pi$	$T_{1/2}$	Comments
0	$7/2^-$	stable	ion=+66

 $\beta^-$  radiations

E(decay)	E(level)	$I\beta^{-\dagger}$
(-2.565 I4)	0	100

$\dagger$  Absolute intensity per 100 decays.