^{187}Re[+75] β^- decay (32.9 y) 1996Bo37

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 110,999 (2009)	1-Nov-2008

Parent: ^{187}Re: E=0.0; $J^\pi=5/2^+$; $T_{1/2}$=32.9 y *20*; Q(β^-)=2.469 *4*; %β^- decay=100

^{187}Re-E: g.s. of ^{187}Re ion (75^+ charge state).

^{187}Re-Q(β^-) for K−shell bound−state decay=+72.97 keV (1996Bo37).

Others: 1997No07, 1997We08, 1996Ki23.

1996Bo37: Bound state β^- decay of $^{187}Re^{75+}$ ion with $T_{1/2}$=32.9 y *20*,

$T_{1/2}$ measured by storing ^{187}Re, fully-stripped (75^+ charge state) ions, in an experimental storage ring.

$T_{1/2}$=32.9 y *20* (1996Bo37); Others: 33 y *2* (1997No07), 31.2 y *+30−25* (1997We08), and 33 y *6* (1996Ki23).

^{187}Os Levels

E(level)	J^π	$T_{1/2}$	Comments
0	$1/2^-$	stable	ion=+75
0	$1/2^-$	stable	ion=+75
9.75	$3/2^-$		ion=+75

β^- radiations

E(decay)	E(level)	Log *ft*[†]
	9.75	7.87 *3*
(2.5 *14*)	0	
(2.5 *14*)	0	11.0

[†] Deduced by 1996Bo37 from the measured $T_{1/2}$. The ^{187}Re[+75] β^- decay into the L shell is about 4 orders of magnitude less probable (1996Bo37).