

^{163}Re $Z = 75$ $N = 88$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 1282.951 (0.019) MeV

Qbeta+ = 8.906 (0.061) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-6.012	(0.027)	-----		
S-p	= -0.708	(0.026)	-----		
163RE 1	0.000	1/2+			1 390 MS 72
163RE 2			0.115	11/2-	2 214 MS 5
163RE 3				0.581 (13/2-)	3
163RE 4				0.692 (15/2-)	4
163RE 5				1.218 (17/2-)	5
163RE 6				1.380 (19/2-)	6
163RE 7				1.534	7

S-2p	= 1.802	(0.031)	-----		
163RE 8				1.802	8
163RE 9				1.828	9
163RE 10				1.886 (21/2-)	10

163RE 11				1.951	11
163RE 12				2.069	12
163RE 13				2.113 (23/2-)	13
163RE 14				2.172	14
163RE 15				2.187	15
163RE 16				2.269	16
163RE 17				2.402	17
163RE 18				2.461	18
163RE 19				2.676	19
163RE 20				2.845	20

163RE 21				3.276	21

S-p = -0.708 (0.026)-----

S-n = 11.575 (0.163)-----

S-2p = 1.802 (0.031)-----

S-2n = 21.302 (0.151)-----

S-alpha= -6.012 (0.027)-----

S+p = -1.711 (0.151)

S+n = -9.542 (0.058)

S+2p = -0.089 (0.166)

S+2n = -20.800 (0.030)

S+alpha = 6.505 (0.026)

gap p = -2.419 (0.153)
gap n = 2.034 (0.173)
gap 2p = 1.713 (0.169)
gap 2n = 0.503 (0.154)
gap alpha = 0.493 (0.038)