

^{178}Yb $Z = 70$ $N = 108$ adopted link ENSDF link

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

BE = 1431.608 (0.007) MeV

Qbeta- = 0.661 (0.007) MeV

	Energy T	J+	J-	J-other	T1/2
178YB 1	0.000	0+			1 74 M 3
178YB 2	0.084	2+			2
S-alpha= 0.176 (0.348)-----					
178YB 3	0.278	4+			3
178YB 4				0.578 (6+)	4
178YB 5				0.981 (8+)	5
178YB 6				1.221 (2+)	6
178YB 7	1.315	0+			7
178YB 8				1.335	8
178YB 9				1.387 (2+)	9
178YB 10	1.404	2+			10

178YB 11				1.436	11
178YB 12				1.484 (10+)	12
178YB 13				1.559 (4+)	13
178YB 14				1.705	14
178YB 15				1.813	15
178YB 16				1.869	16
178YB 17				1.969	17
178YB 18				2.080 (12+)	18
178YB 19				2.111	19
178YB 20				2.131 (4+,5-)	20

178YB 21				2.351	21
178YB 22				2.371	22
178YB 23				2.390 (4+)	23
178YB 24				2.405	24
178YB 25				2.690 (4+)	25
178YB 26				2.770 (14+)	26
178YB 27			2.899 3-		27
178YB 28				2.996 (4+)	28
178YB 29			3.037 1-		29

S-p	= 9.413 (0.177)-----				
S-n	= 6.762 (0.007)-----				
S-2p	= 17.624 (0.352)-----				
S-2n	= 12.328 (0.007)-----				
S-alpha	= 0.176 (0.348)-----				

S+p = -6.671 (0.008)
S+n = -5.047 (0.179)
S+2p = -14.680 (0.007)
S+2n = -11.272 (0.360)
S+alpha = 1.203 (0.009)

gap p = 2.742 (0.177)
gap n = 1.716 (0.179)
gap 2p = 2.943 (0.352)
gap 2n = 1.056 (0.360)
gap alpha = 1.379 (0.348)