

^{118}Ba $Z = 56$ $N = 62$ adopted link ENSDF link

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

BE = 970.786 (-0.236) MeV

Qbeta+ = 6.227 (0.236) MeV

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

S-alpha=	-2.479	(-0.236)	-----		
118BA 1	0.000	0+			1 5.5 S 2
118BA 2				0.194 (2+)	2
118BA 3				0.554 (4+)	3
118BA 4				1.043 (6+)	4
118BA 5				1.636 (8+)	5
118BA 6				1.658 (5-)	6
118BA 7				2.012 (7-)	7
118BA 8				2.312 (10+)	8
118BA 9				2.488 (9-)	9
S-p =	2.978	(-0.244)	-----		
118BA 10				3.051 (12+)	10

118BA 11				3.072 (11-)	11
S-2p =	3.713	(-0.236)	-----		
118BA 12				3.756 (13-)	12
118BA 13				3.836 (14+)	13
118BA 14				4.531 (15-)	14
118BA 15				4.660 (16+)	15
118BA 16				5.376 (17-)	16
118BA 17				5.532 (18+)	17
118BA 18				6.446 (20+)	18

S-p = 2.978 (-0.244)-----
S-n = 12.795 (-0.344)-----
S-2p = 3.713 (-0.236)-----
S-2n = 23.994 (-0.331)-----
S-alpha= -2.479 (-0.236)-----

S+p = -0.135 (-0.428)
S+n = -10.479 (-0.310)
S+2p = -2.174 (-0.535)
S+2n = -22.849 (-0.382)
S+alpha = 1.854 (-0.435)

gap p = 2.843 (0.493)
gap n = 2.316 (0.463)
gap 2p = 1.539 (0.585)
gap 2n = 1.145 (0.505)

gap alpha = -0.625 (0.495)