

^{118}Xe $Z = 54$ $N = 64$ adopted link ENSDF link

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

BE = 988.248 (0.010) MeV

Qbeta+ = 2.892 (0.022) MeV

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

S-alpha=	-1.386	(0.027)	-----		
118XE 1	0.000	0+			1 3.8 M 9
118XE 2	0.337	2+			2 45 PS 2
118XE 3	0.810	4+			3 7.48 PS 12
118XE 4	0.830	0+			4
118XE 5	0.928	2+			5
118XE 6	1.228	2+			6
118XE 7				1.366 (3)+	7
118XE 8	1.397	6+			8 3.2 PS 8
118XE 9	1.441	4+			9
118XE 10				1.640 1,2+	10

118XE 11				1.702 3,4+	11
118XE 12	1.721	0+			12
118XE 13				1.730 (4+)	13
118XE 14				1.838 1,2+	14
118XE 15				1.896	15
118XE 16				1.922 (5+)	16
118XE 17				1.995 (5)-	17
118XE 18	1.997	6+			18
118XE 19	2.073	8+			19 2.8 PS 10
118XE 20				2.129 1,2+	20

118XE 21				2.143 (3-,4+)	21
118XE 22				2.164	22
118XE 23				2.419 (7)-	23
118XE 24				2.487	24
118XE 25				2.540 (5,6+)	25
118XE 26				2.560 (7)+	26
118XE 27				2.625 (8+)	27
118XE 28	2.816	10+			28 1.2 PS LT
118XE 29				2.919 (9)-	29
118XE 30				2.997	30

118XE 31				3.206 (9-)	31
118XE 32				3.240 (9)+	32
118XE 33				3.255 (10+)	33
118XE 34				3.261	34
118XE 35				3.452	35
118XE 36				3.535	36

118XE	37					3.542	(11)-	37
118XE	38		3.592	12+				38
118XE	39					3.721		39
118XE	40					3.847	(12+)	40

118XE	41					4.040		41
118XE	42					4.173		42
118XE	43					4.261	(13)-	43
118XE	44		4.368	14+				44
118XE	45					4.385		45
118XE	46					4.539	(14+)	46
118XE	47					4.910		47
S-p	=		4.929	(0.028)	-----			
118XE	48					5.058		48
118XE	49					5.156	(16+)	49
118XE	50					5.355		50

118XE	51					5.925		51
118XE	52					6.003		52
118XE	53					6.811		53
118XE	54					6.934		54
S-2p	=		7.393	(0.026)	-----			
118XE	55					7.671		55
118XE	56					7.957		56
118XE	57					9.072		57

S-p = 4.929 (0.028)-----
S-n = 11.965 (0.015)-----
S-2p = 7.393 (0.026)-----
S-2n = 21.175 (0.017)-----
S-alpha= -1.386 (0.027)-----

S+p = -1.515 (0.017)
S+n = -8.787 (0.015)
S+2p = -5.388 (0.300)
S+2n = -20.236 (0.016)
S+alpha = 1.045 (0.030)

gap p = 3.414 (0.033)
gap n = 3.178 (0.021)
gap 2p = 2.006 (0.302)
gap 2n = 0.939 (0.023)
gap alpha = -0.341 (0.040)