

^{113}Xe $Z = 54$ $N = 59$ adopted link ENSDF link

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

BE = 932.016 (0.007) MeV

Qbeta+ = 8.916 (0.011) MeV

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

S-alpha=	-3.087 (0.008)	-----			
113XE 1				0.000 (5/2+)	1 2.74 S 8
113XE 2	0.126	7/2+			2
113XE 3	0.146	5/2+			3
113XE 4			0.405 11/2-		4
113XE 5	0.549	9/2+			5
113XE 6	0.711	11/2+			6
113XE 7			0.820 15/2-		7
113XE 8	1.242	13/2+			8
113XE 9	1.472	15/2+			9
113XE 10			1.476 19/2-		10

113XE 11	2.023	17/2+			11
113XE 12	2.142	17/2+			12
113XE 13	2.285	19/2+			13
113XE 14			2.302 23/2-		14
113XE 15	2.379	19/2+			15
113XE 16				2.393	16

S-p	= 2.429 (0.012)	-----			
113XE 17	2.542	21/2+			17
113XE 18	2.788	21/2+			18
113XE 19	2.968	23/2+			19
113XE 20	3.022	23/2+			20

113XE 21	3.068	25/2+			21

S-2p	= 3.194 (0.009)	-----			
113XE 22			3.243 27/2-		22
113XE 23	3.289	25/2+			23
113XE 24			3.289 25/2-		24
113XE 25	3.585	27/2+			25
113XE 26	3.587	29/2+			26
113XE 27	3.605	27/2+			27
113XE 28			4.242 31/2-		28
113XE 29	4.264	33/2+			29
113XE 30	4.277	31/2+			30

113XE 31			4.278 31/2-		31
113XE 32	4.315	31/2+			32
113XE 33				5.028 (33/2+)	33
113XE 34			5.069 35/2-		34

113XE 35		5.092	37/2+					35
113XE 36		5.098	35/2+					36
113XE 37		5.150	35/2+					37
113XE 38				5.167	35/2-			38
113XE 39						5.390	(35/2-)	39
113XE 40						5.611	(37/2+)	40

113XE 41				6.041	39/2-			41
113XE 42						6.077	(41/2+)	42
113XE 43						6.219	(41/2+)	43
113XE 44						6.647		44
113XE 45						6.662	(39/2-)	45
113XE 46						6.957	(45/2+)	46
113XE 47				7.109	43/2-			47
113XE 48						7.243	(45/2+)	48
113XE 49						7.832	(49/2+)	49
113XE 50						7.846	(43/2-)	50

113XE 51						8.099	(43/2-)	51
113XE 52						8.341	(47/2-)	52
113XE 53						8.566	(49/2+)	53
113XE 54						8.896	(53/2+)	54
113XE 55						9.190	(47/2-)	55
113XE 56						9.711	(51/2-)	56

S-p = 2.429 (0.012)-----
S-n = 10.249 (0.011)-----
S-2p = 3.194 (0.009)-----
S-2n = 23.814 (0.111)-----
S-alpha= -3.087 (0.008)-----

S+p = 0.229 (0.085)
S+n = -12.954 (0.013)
S+2p = -1.324 (0.230)
S+2n = -22.596 (0.014)
S+alpha = 2.321 (0.250)

gap p = 2.658 (0.086)
gap n = -2.705 (0.017)
gap 2p = 1.870 (0.230)
gap 2n = 1.218 (0.112)
gap alpha = -0.766 (0.251)