

^{131}Xe $Z = 54$ $N = 77$ adopted link ENSDF link

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

BE = 1103.510 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
131XE 1	0.000	3/2+			1 STABLE
131XE 2	0.080	1/2+			2 0.48 NS 3
131XE 3			0.164 11/2-		3 11.84 D 4
131XE 4			0.341 9/2-		4 1.6 NS 4
131XE 5	0.364	5/2+			5 69 PS 2
131XE 6	0.405	3/2+			6 18 PS 3
131XE 7				0.565 (1/2,3/2)+	7 5.9 PS 11
131XE 8	0.637	7/2+			8 6.1 PS 5
131XE 9			0.667 7/2-		9 0.5 NS LT
131XE 10	0.700	3/2+			10
131XE 11	0.723	5/2+			11 0.53 PS 5
131XE 12			0.806 15/2-		12
131XE 13				0.914	13
131XE 14				0.952	14
131XE 15				0.971 (9/2+)	15
131XE 16	0.973	7/2+			16 4.9 PS 9
131XE 17				0.994	17
131XE 18				1.034 (5/2)+	18
131XE 19				1.046 (13/2)-	19
131XE 20				1.113 (9/2)-	20
131XE 21				1.157 (11/2)-	21
131XE 22				1.191 (11/2)-	22
131XE 23				1.245	23
131XE 24				1.320 (13/2-)	24
131XE 25	1.397	11/2+			25
131XE 26				1.456 (9/2)+	26
131XE 27				1.584 (13/2+)	27
131XE 28			1.601 17/2-		28
131XE 29			1.616 19/2-		29
131XE 30				1.621	30
131XE 31				1.641 (11/2+)	31
131XE 32				1.654 (13/2+)	32
131XE 33				1.665	33
131XE 34				1.722 (11/2)	34
131XE 35				1.804	35
131XE 36	1.805	19/2+			36 14 NS 3
131XE 37				1.861 (17/2)-	37
131XE 38				1.998 (17/2+)	38

131XE	39				2.007		39
131XE	40				2.089	(19/2)	40

131XE	41				2.194	(23/2+)	41
131XE	42				2.249	(21/2+)	42
131XE	43				2.297	(15/2+)	43
131XE	44				2.359		44
131XE	45				2.378		45
131XE	46				2.396		46
131XE	47				2.518		47
S-alpha=	2.558	(0.001)	-----			
131XE	48				2.570		48
131XE	49				2.601		49
131XE	50				2.662		50

131XE	51				2.675		51
131XE	52				2.833		52
131XE	53				2.848		53
131XE	54				2.852		54
131XE	55				3.088		55
131XE	56				3.126		56
131XE	57				3.175		57
131XE	58				3.186		58

S-p = 8.766 (0.003)-----
 S-n = 6.604 (0.000)-----
 S-2p = 15.987 (0.001)-----
 S-2n = 15.860 (0.000)-----
 S-alpha= 2.558 (0.001)-----

S+p = -6.028 (0.001)
 S+n = -8.937 (0.000)
 S+2p = -13.718 (0.001)
 S+2n = -15.373 (0.002)
 S+alpha = -1.862 (0.000)

gap p = 2.738 (0.003)
 gap n = -2.332 (0.000)
 gap 2p = 2.269 (0.001)
 gap 2n = 0.488 (0.002)
 gap alpha = 0.696 (0.001)