

^{130}Xe $Z = 54$ $N = 76$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 1096.905 (0.000) MeV

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

130XE 1	0.000	0+			1 STABLE
130XE 2	0.536	2+			2 8.6 PS 15
130XE 3	1.122	2+			3 3 NS LT
130XE 4	1.205	4+			4 2 NS LT
130XE 5				1.590	5
130XE 6	1.633	3+			6 2 NS LT
130XE 7	1.794	0+			7
130XE 8				1.808 (4+)	8
130XE 9	1.944	6+			9 2 NS LT
130XE 10	2.017	0+			10

130XE 11				2.060 (5)-	11 0.20 NS 10
130XE 12				2.082 (4+)	12
130XE 13				2.103 (4)-	13 0.50 NS 10
130XE 14				2.150 (2+)	14
130XE 15				2.172 (4+,5+)	15
130XE 16				2.224	16
S-alpha=	2.240 (0.002)				-----
130XE 17				2.243	17
130XE 18				2.296 1,2	18
130XE 19				2.308 1,2	19
130XE 20				2.310 (5)-	20 3 NS LT

130XE 21				2.346 (6)-	21 3 NS LT
130XE 22	2.362	5+			22 9.4 PS 14
130XE 23				2.375 (7)-	23 0.30 NS 10
130XE 24				2.386	24
130XE 25				2.427 (4+)	25
130XE 26				2.442 (6)-	26 2 NS LT
130XE 27				2.494	27
130XE 28				2.502 1,2	28
130XE 29				2.533	29
130XE 30				2.544	30

130XE 31				2.608	31
130XE 32				2.622	32
130XE 33				2.628	33
130XE 34				2.629	34
130XE 35				2.633	35
130XE 36				2.638	36
130XE 37				2.645	37

130XE 38						2.659	(7-)	38	2 NS	LT
130XE 39						2.693	(4+,5+)	39		
130XE 40		2.697	8+					40	3 NS	LT

130XE 41						2.705		41		
130XE 42						2.752		42		
130XE 43						2.763	1,2	43		
130XE 44						2.812	(4+)	44		
130XE 45						2.842	(8-)	45	4 NS	LT
130XE 46						2.886	1,2	46		
130XE 47						2.931	(8)+	47		
130XE 48						2.954		48		
130XE 49		2.972	10+					49	5.13 NS	11
130XE 50						2.978	1,2	50		

130XE 51						3.058		51		
130XE 52						3.071		52		
130XE 53						3.071	(9-)	53		
130XE 54						3.151		54		
130XE 55						3.189		55		
130XE 56		3.230	2+					56		
130XE 57						3.243		57		
130XE 58						3.278	(9+)	58		
130XE 59						3.299		59		
130XE 60						3.326		60		

130XE 61						3.342		61		
130XE 62						3.406		62		
130XE 63						3.461	(10+)	63	3 NS	LT
130XE 64						3.535		64		
130XE 65						3.542	(10-)	65		
130XE 66						3.623		66		
130XE 67						3.688		67		
130XE 68		3.693	12+					68	2 NS	LT
130XE 69						3.780		69		
130XE 70						3.814		70		

130XE 71						3.893	(11-)	71		
130XE 72						3.894		72		
130XE 73						3.957		73		
130XE 74						3.960		74		
130XE 75						3.977	1,2	75		
130XE 76						3.988		76		
130XE 77						4.185		77		
130XE 78						4.217	(12+)	78		
130XE 79						4.347	(12-)	79		
130XE 80						4.371		80		

130XE 81						4.540	(13-)	81		
130XE 82						4.551		82		

130XE 83			4.590	(14+)	83
130XE 84			4.628		84
130XE 85			4.635		85
130XE 86			4.828		86
130XE 87			4.933		87
130XE 88			4.943	(14-)	88
130XE 89			4.972	(15-)	89
130XE 90			5.070	(14+)	90

130XE 91			5.121		91
130XE 92			5.297		92
130XE 93			5.438		93
130XE 94			5.561		94
130XE 95			5.588	(16+)	95
130XE 96			5.605	(16-)	96
130XE 97			5.892		97
130XE 98			5.953	(17-)	98
130XE 99			5.960		99
130XE 100			6.291		100

130XE 101			6.606		101
130XE 102			6.643		102
130XE 103			6.971		103

S-p = 8.662 (0.003)-----
S-n = 9.256 (0.000)-----
S-2p = 15.465 (0.001)-----
S-2n = 16.163 (0.001)-----
S-alpha= 2.240 (0.002)-----

S+p = -5.467 (0.005)
S+n = -6.604 (0.000)
S+2p = -13.132 (0.001)
S+2n = -15.541 (0.000)
S+alpha = -1.494 (0.000)

gap p = 3.195 (0.006)
gap n = 2.651 (0.000)
gap 2p = 2.333 (0.001)
gap 2n = 0.622 (0.001)
gap alpha = 0.746 (0.002)