

^{121}Xe $Z = 54$ $N = 67$ adopted link ENSDF link

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

BE = 1016.864 (0.010) MeV

Qbeta+ = 3.765 (0.011) MeV

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

S-alpha=	-0.189	(0.017)	-----		
121XE 1				0.000 5/2(+)	1 40.1 M 20
121XE 2				0.154 (1/2+)	2 80 NS 15
121XE 3				0.180 7/2(+)	3
121XE 4				0.196 7/2(-)	4 6.8 NS 13
121XE 5				0.235 7/2(-),9/2(-)	5
121XE 6				0.240 (3/2+)	6
121XE 7				0.265 (11/2-)	7 6 NS 1
121XE 8				0.356 (5/2-)	8
121XE 9				0.414 (9/2+)	9
121XE 10				0.427 (3/2+,5/2+)	10

121XE 11				0.450 (5/2+)	11
121XE 12				0.460 (7/2+)	12
121XE 13				0.476 (7/2,9/2,11/2)(-)	13
121XE 14				0.497	14
121XE 15				0.553	15
121XE 16				0.561 (7/2+)	16
121XE 17				0.593	17
121XE 18				0.608	18
121XE 19				0.620	19
121XE 20				0.646	20

121XE 21				0.658 (13/2-)	21
121XE 22				0.661	22
121XE 23				0.661	23
121XE 24				0.668	24
121XE 25				0.670 (11/2+)	25
121XE 26				0.682	26
121XE 27				0.687 (15/2-)	27
121XE 28				0.697	28
121XE 29				0.706 (7/2+)	29
121XE 30				0.735 (7/2+,9/2+)	30

121XE 31				0.738	31
121XE 32				0.776	32
121XE 33				0.816	33
121XE 34				0.861	34
121XE 35				0.881 (9/2+)	35
121XE 36				0.897	36

121XE 37				0.900		37
121XE 38				0.910		38
121XE 39				0.942	(13/2-)	39
121XE 40				0.946		40

121XE 41				0.963	(13/2+)	41
121XE 42				0.978		42
121XE 43				0.999		43
121XE 44				1.021	(11/2+)	44
121XE 45				1.118		45
121XE 46				1.150		46
121XE 47				1.247		47
121XE 48				1.262		48
121XE 49				1.265	(17/2-)	49
121XE 50				1.274	(19/2-)	50

121XE 51				1.282	(15/2+)	51
121XE 52				1.300		52
121XE 53				1.310	(15/2-)	53
121XE 54				1.344		54
121XE 55				1.420		55
121XE 56				1.446	(13/2+)	56
121XE 57				1.534	(17/2-)	57
121XE 58				1.590	(15/2+)	58
121XE 59				1.596		59
121XE 60				1.618	(17/2+)	60

121XE 61				1.937	(19/2-)	61
121XE 62				1.986	(19/2+)	62
121XE 63				1.996	(23/2-)	63
121XE 64				2.015	(21/2-)	64
121XE 65				2.098	(17/2+)	65
121XE 66				2.244	(21/2-)	66
121XE 67				2.245	(19/2+)	67
121XE 68				2.271	(19/2+)	68
121XE 69				2.356	(21/2+)	69
121XE 70				2.534	(19/2+)	70

121XE 71				2.583	(21/2+)	71
121XE 72				2.623	(21/2+)	72
121XE 73				2.700	(23/2-)	73
121XE 74				2.748	(23/2+)	74
121XE 75				2.780	(23/2+)	75
121XE 76				2.820	(23/2+)	76
121XE 77				2.834	(27/2-)	77
121XE 78				2.882	(25/2-)	78
121XE 79				2.947	(23/2+)	79
121XE 80				2.995	(25/2+)	80

121XE 81				3.062	(25/2-)	81

121XE 82				3.102	(25/2+)	82
121XE 83				3.152	(25/2+)	83
121XE 84				3.268	(27/2+)	84
121XE 85				3.272	(27/2+)	85
121XE 86				3.549	(27/2-)	86
121XE 87				3.554	(27/2-)	87
121XE 88				3.592	(29/2+)	88
121XE 89				3.699	(27/2+)	89
121XE 90				3.719	(29/2+)	90

121XE 91				3.764	(31/2-)	91
121XE 92				3.837	(29/2-)	92
121XE 93				3.959	(29/2-)	93
121XE 94				3.965	(31/2+)	94
121XE 95				4.039	(31/2+)	95
121XE 96				4.356	(29/2-)	96
121XE 97				4.383	(33/2+)	97
121XE 98				4.497	(33/2+)	98
121XE 99				4.734	(31/2-)	99
121XE 100				4.754	(35/2-)	100

121XE 101				4.837	(33/2-)	101
121XE 102				4.842	(35/2+)	102
121XE 103				4.901	(35/2+)	103
121XE 104				5.102	(33/2-)	104
121XE 105				5.311	(33/2-)	105
121XE 106				5.337	(37/2+)	106
121XE 107				5.372	(37/2+)	107
121XE 108				5.501	(35/2-)	108
121XE 109				5.743	(37/2-)	109
121XE 110				5.784	(39/2-)	110

121XE 111				5.840	(39/2+)	111
121XE 112				5.853	(39/2+)	112
121XE 113				5.855	(39/2+)	113
121XE 114				5.979	(37/2-)	114
S-p = 6.023 (0.018)	-----					
121XE 115				6.344	(41/2+)	115
121XE 116				6.377	(39/2-)	116
121XE 117				6.858	(43/2+)	117
121XE 118				6.873	(43/2-)	118
121XE 119				6.927	(41/2-)	119
121XE 120				7.185	(45/2+)	120

121XE 121				7.353	(43/2-)	121
121XE 122				7.364	(45/2+)	122
121XE 123				7.927	(47/2+)	123
121XE 124				7.943	(45/2-)	124
121XE 125				8.340	(49/2+)	125
S-n = 8.380 (0.016)	-----					

121XE 126			8.984	(49/2-)	126
121XE 127			9.016	(51/2+)	127
121XE 128			9.149	(53/2+)	128
121XE 129			9.859	(53/2-)	129
121XE 130			9.870	(55/2+)	130

S-p = 6.023 (0.018)-----

S-n = 8.380 (0.016)-----

S-2p = 9.877 (0.013)-----

S-2n = 19.829 (0.015)-----

S-alpha= -0.189 (0.017)-----

S+p = -2.953 (0.035)

S+n = -10.945 (0.015)

S+2p = -7.752 (0.016)

S+2n = -18.910 (0.014)

S+alpha = 0.387 (0.015)

gap p = 3.070 (0.040)

gap n = -2.565 (0.022)

gap 2p = 2.125 (0.020)

gap 2n = 0.919 (0.020)

gap alpha = 0.198 (0.023)