

^{125}I $Z = 53$ $N = 72$ adopted link ENSDF link

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

BE = 1056.286 (0.001) MeV

Qbeta+ = 0.186 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
125I	1	0.000	5/2+		1 59.407 D 10
125I	2	0.114	7/2+		2 0.61 NS 2
125I	3	0.188	3/2+		3 0.344 NS 9
125I	4	0.243	1/2+		4 0.230 NS 10
125I	5	0.372	3/2+		5
125I	6	0.454	3/2+		6
125I	7	0.536	7/2+		7
125I	8	0.596	9/2+		8
125I	9			0.625 (+)	9
125I	10	0.704	9/2+		10
125I	11	0.768	11/2+		11
125I	12			0.936 9/2(+)	12 0.2 NS 1
125I	13	1.007	3/2+		13
125I	14			1.066 3/2+,5/2+	14
125I	15			1.083	15
125I	16			1.085 (11/2)-	16 0.2 NS LE
125I	17			1.090 (1/2)+	17
125I	18			1.150	18
125I	19	1.173	11/2+		19
125I	20	1.181	3/2+		20
125I	21			1.198 3/2+,5/2+	21
125I	22	1.204	13/2+		22
125I	23			1.252 7/2+,9/2+	23
125I	24			1.264 (1/2,3/2)	24
125I	25			1.270 11/2(+)	25
125I	26			1.289	26
125I	27			1.332	27
125I	28			1.337 3/2+,5/2+	28
125I	29			1.365	29
125I	30			1.382 1/2+,3/2+	30
125I	31			1.392 3/2+,5/2+,(1/2+)	31
125I	32	1.443	3/2+		32
125I	33			1.481	33
125I	34			1.512	34
125I	35			1.543	35
125I	36			1.554 15/2	36
125I	37			1.562 1/2,3/2	37

125I	38					1.580	(1/2+)	38
125I	39					1.610	(1/2+)	39
125I	40					1.617	13/2(+)	40

S-alpha= 1.662 (0.003)-----								
125I	41					1.663	3/2+,5/2+	41
125I	42					1.665	(15/2)-	42
125I	43		1.690	1/2+				43
125I	44					1.733	7/2+,9/2+	44
125I	45					1.778	+	45
125I	46					1.827	+	46
125I	47					1.869		47
125I	48					1.871	15/2	48
125I	49		1.888	17/2+				49
125I	50		1.916	1/2+				50

125I	51					1.938	3/2+,5/2+	51
125I	52					1.978	3/2+,5/2+	52
125I	53					1.997	(15/2)	53
125I	54					2.031	3/2+,5/2+	54
125I	55		2.069	1/2+				55
125I	56		2.142	1/2+				56
125I	57		2.183	1/2+				57
125I	58					2.222		58
125I	59					2.231	(3/2+,5/2+)	59
125I	60					2.278	(19/2)-	60

125I	61					2.302	(3/2+,5/2+)	61
125I	62					2.351	(17/2)	62 1.6 NS 3
125I	63					2.354	(3/2+,5/2+)	63
125I	64					2.397		64
125I	65		2.399	1/2+				65
125I	66					2.438	3/2+,5/2+	66
125I	67					2.463		67
125I	68		2.472	1/2+				68
125I	69					2.502	19/2	69
125I	70					2.517	3/2+,5/2+	70

125I	71					2.553	(3/2+,5/2+)	71
125I	72					2.555	19/2	72
125I	73					2.589		73
125I	74					2.624		74
125I	75		2.654	1/2+				75
125I	76		2.694	1/2+				76
125I	77					2.713		77
125I	78					2.731	3/2+,5/2+	78
125I	79					2.738	21/2	79
125I	80					2.784	(23/2-)	80

125I	81					2.791	(21/2)	81 0.3 NS 1

125I	82				2.796		82
125I	83				2.815		83
125I	84				2.838		84
125I	85				2.884		85
125I	86				2.916		86
125I	87				2.919		87
125I	88	2.932	1/2+				88
125I	89	2.982	1/2+				89
125I	90				3.026		90

125I	91	3.060	1/2+				91
125I	92				3.060		92
125I	93				3.073		93
125I	94				3.099	(23/2)	94
125I	95				3.100		95
125I	96	3.149	1/2+				96
125I	97				3.159		97
125I	98				3.195		98
125I	99				3.241		99
125I	100				3.259		100

125I	101				3.260		101
125I	102				3.284		102
125I	103				3.293		103
125I	104				3.303		104
125I	105				3.312		105
125I	106				3.343		106
125I	107				3.375		107
125I	108				3.413		108
125I	109				3.447		109
125I	110				3.459		110

125I	111				3.474		111
125I	112				3.497		112
125I	113				3.500		113
125I	114				3.547		114
125I	115	3.585	1/2+				115
125I	116	3.621	1/2+				116
125I	117				3.654		117
125I	118				3.674	27/2	118
125I	119				3.685		119
125I	120	3.728	1/2+				120

125I	121				3.768		121
125I	122				3.775		122
125I	123				3.800		123
125I	124	3.829	1/2+				124
125I	125	3.859	1/2+				125
125I	126				3.868		126
125I	127	3.894	1/2+				127

125I	128				3.930	128
125I	129				3.964	129
125I	130				4.006	130

125I	131				4.042	131
125I	132				4.082	132

S-p = 5.601 (0.002)-----
 S-n = 9.543 (0.003)-----
 S-2p = 14.191 (0.002)-----
 S-2n = 17.036 (0.004)-----
 S-alpha= 1.662 (0.003)-----

S+p = -7.599 (0.001)
 S+n = -7.146 (0.004)
 S+2p = -11.982 (0.006)
 S+2n = -16.290 (0.004)
 S+alpha = -1.088 (0.005)

gap p = -1.998 (0.002)
 gap n = 2.397 (0.005)
 gap 2p = 2.209 (0.006)
 gap 2n = 0.746 (0.006)
 gap alpha = 0.574 (0.006)