

^{126}I $Z = 53$ $N = 73$ adopted link ENSDF link

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

BE = 1063.432 (0.004) MeV
 Qbeta- = 1.236 (0.004) MeV
 Qbeta+ = 2.154 (0.004) MeV

	Energy T	J+	J-	J-other	T1/2
126I 1			0.000 2-		1 12.93 D 5
126I 2	0.056	1+			2 15.9 NS 14
126I 3				0.111 (3+)	3 56 NS 3
126I 4			0.122 4-		4 13.5 NS 11
126I 5				0.146	5
126I 6				0.166	6
126I 7				0.179	7
126I 8				0.204 (4+)	8
126I 9				0.223 1+,2+	9
126I 10	0.228	2+			10
126I 11			0.237 6-		11 16 NS
126I 12	0.237	3+			12
126I 13				0.245 (4)+	13
126I 14				0.291 (5+)	14
126I 15				0.305 (7-)	15
126I 16				0.311 (2+)	16
126I 17				0.329 (6+)	17
126I 18				0.331 (3-)	18
126I 19				0.338 -	19
126I 20				0.343 -	20
126I 21	0.348	2+			21
126I 22				0.365 (2+,3+,4+)	22
126I 23				0.370 -	23
126I 24				0.374 +	24
126I 25				0.394 (3)+	25
126I 26				0.398 2-,3-	26
126I 27				0.410	27
126I 28				0.411 (8-)	28
126I 29				0.422	29
126I 30				0.434 +	30
126I 31				0.448	31
126I 32				0.458	32
126I 33				0.465	33
126I 34	0.479	2+			34
126I 35				0.491 +	35
126I 36				0.502 (7+)	36

126I	37				0.507		37
126I	38				0.513	+	38
126I	39				0.536	+	39
126I	40				0.545	+	40

126I	41				0.550		41
126I	42				0.565	(4+)	42
126I	43				0.567		43
126I	44				0.570		44
126I	45				0.578	(8-)	45
126I	46				0.581		46
126I	47				0.591		47
126I	48				0.618	+	48
126I	49				0.658		49
126I	50				0.677	+	50

126I	51				0.688	2-,3-	51
126I	52				0.703	+	52
126I	53				0.715		53
126I	54				0.735	(9-)	54
126I	55				0.749		55
126I	56				0.795	(6+)	56
126I	57				0.800		57
126I	58				0.813		58
126I	59				0.819		59
126I	60				0.866	(5+)	60

126I	61				0.869	(2+,3,4+)	61
126I	62				0.890		62
126I	63				0.907	(8+)	63
126I	64				0.922	(7+)	64
126I	65				0.941		65
126I	66				0.945		66
126I	67				0.957		67
126I	68				0.979		68
126I	69				1.000		69
126I	70				1.003		70

126I	71				1.077	(9-)	71
126I	72				1.083		72
126I	73				1.102		73
126I	74				1.130	(10-)	74
126I	75				1.211		75
126I	76				1.239		76
126I	77				1.304	(10-)	77
126I	78				1.353	(9+)	78
126I	79				1.379	(10-)	79
126I	80				1.431	(8+)	80

126I	81				1.433	(10+)	81

126I	82				1.469	(11-)	82
126I	83				1.567	(7+)	83
126I	84				1.614	(9+)	84
126I	85				1.832	(11+)	85
126I	86				1.894	(12-)	86
126I	87				1.948		87
S-alpha= 2.001 (0.005)-----							
126I	88				2.079	(11)	88
126I	89				2.131	(12+)	89
126I	90				2.137	(12-)	90

126I	91				2.171	(12-)	91
126I	92				2.214	(11+)	92
126I	93				2.322	(13-)	93
126I	94				2.427	(11+)	94
126I	95				2.433	(12+)	95
126I	96				2.498	(13+)	96
126I	97				2.598	(13-)	97
126I	98				2.644	(13+)	98
126I	99				2.708	(13+)	99
126I	100				2.759	(14-)	100

126I	101				2.801	(14+)	101
126I	102				2.960	(14+)	102
126I	103				3.018	(14+)	103
126I	104				3.020	(15+)	104
126I	105				3.025	(14-)	105
126I	106				3.171	(14-)	106
126I	107				3.291	(15-)	107
126I	108				3.359	(15+)	108
126I	109				3.410	(16+)	109
126I	110				3.428	(15+)	110

126I	111				3.576	(15-)	111
126I	112				3.603	(15-)	112
126I	113				3.675	(16-)	113
126I	114				3.687		114
126I	115				3.746	(16+)	115
126I	116				3.843		116
126I	117				3.848	(16+)	117
126I	118				4.019	(17+)	118
126I	119				4.097	(16-)	119
126I	120				4.130		120

126I	121				4.184	(17-)	121
126I	122				4.236	(17+)	122
126I	123				4.294		123
126I	124				4.314	(17-)	124
126I	125				4.328		125
126I	126				4.502	(18+)	126

126I 127			4.534	(18-)	127
126I 128			4.651	(18+)	128
126I 129			4.768		129
126I 130			4.886	(19-)	130

126I 131			4.982	(19+)	131
126I 132			5.143	(19-)	132
126I 133			5.217		133
126I 134			5.425	(20+)	134
126I 135			5.529	(20-)	135
126I 136			5.570	(20-)	136
126I 137			5.611		137
126I 138			5.707	(21-)	138
126I 139			5.954	(21+)	139
126I 140			6.104		140

S-p	=	6.178 (0.004)	-----		
126I 141			6.232		141
126I 142			6.506	(22-)	142
126I 143			6.660		143
126I 144			6.806	(23-)	144
126I 145			7.045		145
126I 146			7.117		146

S-p	=	6.178 (0.004)	-----		
S-n	=	7.146 (0.004)	-----		
S-2p	=	14.869 (0.004)	-----		
S-2n	=	16.689 (0.004)	-----		
S-alpha	=	2.001 (0.005)	-----		
S+p	=	-7.699 (0.006)			
S+n	=	-9.144 (0.005)			
S+2p	=	-12.599 (0.007)			
S+2n	=	-15.970 (0.005)			
S+alpha	=	-1.414 (0.009)			
gap p	=	-1.522 (0.007)			
gap n	=	-1.998 (0.007)			
gap 2p	=	2.270 (0.008)			
gap 2n	=	0.718 (0.007)			
gap alpha	=	0.587 (0.010)			