

^{129}I $Z = 53$ $N = 76$ adopted link ENSDF link

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

BE = 1088.243 (0.003) MeV

Qbeta- = 0.189 (0.003) MeV

	Energy T	J+	J-	J-other	T1/2
129I	1	0.000	7/2+		1 1.57E+7 Y 4
129I	2	0.028	5/2+		2 16.8 NS 2
129I	3	0.278	3/2+		3 0.104 NS 12
129I	4	0.487	5/2+		4 11.6 PS 27
129I	5	0.560	1/2+		5
129I	6	0.696	11/2+		6 4.3 PS 5
129I	7			0.730 (9/2)+	7 3.8 PS 4
129I	8			0.769 (7/2)+	8
129I	9			0.830 3/2+,5/2+	9
129I	10			0.845 (7/2)+	10
129I	11			1.047 3/2+,5/2+	11
129I	12			1.050 (7/2)+	12
129I	13	1.112	5/2+		13
129I	14			1.197	14
129I	15			1.204 (7/2+)	15
129I	16	1.210	1/2+		16
129I	17			1.261 3/2+,5/2+	17
129I	18			1.282 (7/2+)	18
129I	19			1.292 (3/2+,5/2+)	19
129I	20			1.376 (13/2+)	20
129I	21			1.401 (9/2)-	21
129I	22			1.470 (15/2+)	22
129I	23	1.483	1/2+		23
129I	24			1.521 (7/2:11/2)	24
129I	25			1.566 3/2+,5/2+	25
129I	26			1.621 3/2+,5/2+	26
129I	27			1.667 (13/2+)	27
129I	28			1.741	28
129I	29	1.823	1/2+		29
129I	30			1.834 (15/2+)	30
129I	31			1.850 (15/2)	31
129I	32			1.861 3/2+,5/2+	32
129I	33			1.909	33
129I	34			1.940	34
129I	35			1.963	35
129I	36			2.002	36
129I	37	2.012	1/2+		37

129I	38						2.026		38
129I	39						2.050		39
129I	40						2.073	3/2+,5/2+	40

129I	41						2.099	(17/2+)	41
129I	42						2.150		42
129I	43		2.208	1/2+					43
129I	44						2.325	(19/2+)	44
129I	45		2.400	1/2+					45
129I	46						2.530		46
129I	47						2.569		47
129I	48		2.590	1/2+					48
129I	49						2.633	(23/2+)	49

S-alpha=	2.677		(0.004)	-----					
129I	50		2.790	1/2+					50

129I	51						2.850	3/2+,5/2+	51
129I	52						2.882		52
129I	53		2.910	1/2+					53
129I	54						2.924		54
129I	55						2.934	(25/2+)	55
129I	56		2.950	1/2+					56
129I	57		3.200	1/2+					57
129I	58		3.250	1/2+					58
129I	59		3.350	1/2+					59
129I	60						3.408		60

129I	61		3.450	1/2+					61

S-p	=	6.802	(0.003)	-----					
S-n	=	8.841	(0.005)	-----					
S-2p	=	16.387	(0.006)	-----					
S-2n	=	15.667	(0.005)	-----					
S-alpha=	2.677		(0.004)	-----					

S+p	=	-8.662	(0.003)						
S+n	=	-6.500	(0.004)						
S+2p	=	-14.126	(0.003)						
S+2n	=	-15.078	(0.003)						
S+alpha	=	-1.989	(0.003)						

gap p	=	-1.860	(0.005)						
gap n	=	2.340	(0.007)						
gap 2p	=	2.261	(0.007)						
gap 2n	=	0.589	(0.006)						
gap alpha	=	0.689	(0.005)						