

^{131}I $Z = 53$ $N = 78$ adopted link ENSDF link

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

BE = 1103.321 (0.001) MeV

Qbeta- = 0.971 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2	
131I	1	0.000	7/2+		1	8.0252 D 6
131I	2	0.150	5/2+		2	0.95 NS 5
131I	3			0.493	3	3/2+,5/2+
131I	4			0.602	4	3/2+,5/2+
131I	5			0.774	5	9/2+,11/2+
131I	6	0.852	9/2+		6	
131I	7	0.877	1/2+		7	
131I	8			1.006	8	
131I	9			1.060	9	9/2(+)
131I	10			1.098	10	3/2,5/2
131I	11			1.147	11	3/2+,5/2+
131I	12			1.149	12	5/2+,7/2,9/2+
131I	13			1.284	13	
131I	14			1.298	14	3/2+,5/2+
131I	15			1.315	15	5/2+,7/2,9/2+
131I	16			1.346	16	1/2+,3/2+,5/2+
131I	17			1.377	17	
131I	18			1.404	18	3/2+,5/2+
131I	19			1.427	19	3/2+,5/2+
131I	20			1.444	20	1/2+,3/2+,5/2+
131I	21			1.494	21	
131I	22			1.501	22	3/2+,5/2+
131I	23			1.548	23	
131I	24			1.556	24	+
131I	25			1.596	25	+
131I	26			1.623	26	
131I	27		1.646	11/2-	27	
131I	28			1.677	28	1/2,3/2,5/2
131I	29			1.697	29	
131I	30	1.718	1/2+		30	
131I	31			1.758	31	1/2,3/2,5/2
131I	32			1.762	32	
131I	33			1.797	33-	9/2-,11/2-,13/2 5.9 NS 2
131I	34			1.801	34	3/2+,5/2+
131I	35			1.831	35	
131I	36			1.880	36	
131I	37			1.888	37	9/2,11/2,13/2

131I	38	|		|		|	1.899	9/2-,11/2-,13/2-	38
131I	39	|		|		|	1.915		39
131I	40	|		|	1.925	11/2-			40

131I	41	|		|		|	1.932		41
131I	42	|		|		|	1.936		42
131I	43	|		|		|	1.974		43
131I	44	|		|		|	1.980	9/2-,11/2-,13/2	44-
131I	45	|		|		|	1.985		45
131I	46	|		|		|	2.001	9/2,11/2	46
131I	47	|		|		|	2.011	9/2,11/2,13/2	47
131I	48	|		|		|	2.041	3/2,5/2	48
131I	49	|		|		|	2.063	9/2,11/2,13/2	49
131I	50	|		|		|	2.073	3/2+,5/2+	50

131I	51	|		|		|	2.114	9/2,11/2,13/2	51
131I	52	|		|		|	2.134		52
131I	53	|		|		|	2.168	9/2,11/2,13/2	53
131I	54	|		|		|	2.171	9/2,11/2,13/2	54
131I	55	|	2.175	1/2+	|	|			55
131I	56	|		|		|	2.177	9/2,11/2,13/2	56
131I	57	|		|		|	2.235		57
131I	58	|		|		|	2.242	9/2,11/2,13/2	58
131I	59	|		|		|	2.271	9/2,11/2,13/2	59
131I	60	|	2.308	1/2+	|	|			60

131I	61	|		|		|	2.329		61
131I	62	|		|		|	2.333		62
131I	63	|	2.346	1/2+	|	|			63
131I	64	|		|		|	2.352		64
131I	65	|		|		|	2.408	3/2+,5/2+	65
131I	66	|		|		|	2.444		66
131I	67	|		|		|	2.567		67
131I	68	|		|		|	2.595		68
131I	69	|		|		|	2.638		69
131I	70	|		|		|	2.699		70

131I	71	|	2.744	1/2+	|	|			71
131I	72	|	2.807	1/2+	|	|			72
131I	73	|		|		|	2.854		73
131I	74	|		|		|	2.870		74
131I	75	|		|		|	2.894		75
131I	76	|	2.940	1/2+	|	|			76
131I	77	|		|		|	2.985		77
131I	78	|	3.040	1/2+	|	|			78
131I	79	|		|		|	3.090		79

S-alpha=	3.169	(	0.005)	-----					
131I	80	|		|		|	3.170		80

131I	81	|	3.700	1/2+	|	|			81

S-p	=	7.379	(	0.001)	-----		
131I	82	|	7.974	3/2+	|		82
131I	83	|	8.278	1/2+	|		83

S-p	=	7.379	(	0.001)	-----	
S-n	=	8.578	(	0.003)	-----	
S-2p	=	17.391	(	0.021)	-----	
S-2n	=	15.078	(	0.003)	-----	
S-alpha	=	3.169	(	0.005)	-----	

S+p	=	-9.125	(	0.001)
S+n	=	-6.332	(	0.004)
S+2p	=	-15.206	(	0.001)
S+2n	=	-14.557	(	0.006)
S+alpha	=	-2.564	(	0.001)

gap p	=	-1.746	(	0.001)
gap n	=	2.246	(	0.005)
gap 2p	=	2.185	(	0.021)
gap 2n	=	0.521	(	0.007)
gap alpha	=	0.605	(	0.005)