

^{110}In $Z = 49$ $N = 61$ adopted link ENSDF link

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

BE = 935.980 (0.012) MeV

Qbeta+ = 3.878 (0.012) MeV

	Energy T	J+	J-	J-other	T1/2	
110IN 1	0.000	7+			1	4.92 H 8
110IN 2	0.062	2+			2	69.1 M 5
110IN 3	0.202	3+			3	
110IN 4	0.321	4+			4	
110IN 5	0.334	2+			5	4.9 PS GE
110IN 6	0.343	1+			6	4.9 PS GE
110IN 7	0.346	4+			7	
110IN 8				0.367 (5+)	8	
110IN 9	0.413	7+			9	
110IN 10				0.437 (5)+	10	
110IN 11	0.541	3+			11	2.4 PS +17-6
110IN 12				0.568 (6)+	12	1.9 PS +9-6
110IN 13	0.714	8+			13	1.4 PS +15-5
110IN 14				0.756 (4,5)+	14	1.0 PS +4-2
110IN 15			0.757 2-		15	
110IN 16	0.793	4+			16	1.7 PS +10-5
110IN 17			0.800 7-		17	2.0 PS GE
110IN 18			0.808 8-		18	2.4 PS GE
110IN 19				0.856 6,7-	19	
110IN 20				0.886 5+,6+,7+	20	
110IN 21				0.887 4+,5+,6+	21	
110IN 22	0.958	3+			22	
110IN 23				0.971 3+,4,5+	23	
110IN 24			0.990 2-		24	
110IN 25				1.006 (5,6)	25	1.7 PS GE
110IN 26			1.018 9-		26	1.2 PS GE
110IN 27				1.021 5+,6+	27	
110IN 28			1.023 3-		28	
110IN 29				1.050 1+,2+	29	1.0 PS +9-4
110IN 30				1.063 4,5,6+	30	
110IN 31				1.118	31	
110IN 32				1.120 (0)-	32	
110IN 33				1.134 3-,4-	33	
110IN 34				1.176 2+,3	34	
110IN 35				1.191 1-,2-,3-	35	
110IN 36				1.205 4-,5-,6-	36	1.1 PS GE
110IN 37				1.217 2+,3+,4+	37	

110IN 38						1.230		3-,4,5,6+		38
110IN 39						1.240		1-,2-,3-		39
110IN 40						1.255		0-,1-,2-		40

110IN 41						1.259				41
110IN 42						1.280		+		42
110IN 43						1.303				43
110IN 44						1.391				44
110IN 45		1.396		9+						45
110IN 46						1.442				46
110IN 47						1.482				47 1.8 PS GE
110IN 48						1.494		-		48
110IN 49						1.507				49
110IN 50						1.530				50

110IN 51				1.562		10-				51
110IN 52						1.563				52 0.97 PS +21-14
110IN 53				1.617		8-				53
110IN 54						1.694				54
110IN 55				1.886		10-				55

S-alpha= 1.953 (0.012)-----										
110IN 56		2.110		10+						56
110IN 57				2.129		10-				57
110IN 58				2.175		11-				58
110IN 59				2.202		10-				59
110IN 60				2.221		9-				60

110IN 61				2.276		10-				61
110IN 62						2.493		(11)-		62
110IN 63				2.597		12-				63
110IN 64				2.607		11-				64
110IN 65						2.687		(10+)		65
110IN 66				2.765		12-				66
110IN 67				2.798		11-				67
110IN 68				2.838		13-				68
110IN 69						2.854		(11+)		69
110IN 70						2.902				70

110IN 71						2.908		(12-)		71
110IN 72				3.080		12-				72
110IN 73				3.192		14-				73 0.868 PS +24-25
110IN 74						3.197		(13-)		74
110IN 75						3.245		(10,11)-		75
110IN 76		3.327		11+						76
110IN 77						3.345		(14)-		77
110IN 78				3.371		13-				78
110IN 79						3.374				79
110IN 80						3.438				80

110IN 81		3.512		12+						81

110IN 82				3.629	13-				82	
110IN 83				3.698	12-				83	
110IN 84				3.713	15-				84 0.50 PS +4-3	
110IN 85		3.720	13+						85	
110IN 86							3.733	(14-)	86	
110IN 87							3.821	(15-)	87	
110IN 88							3.833	(14-)	88	
110IN 89		3.915	13+						89	
110IN 90		3.943	14+						90	

110IN 91				3.996	13-				91	
110IN 92		4.082	14+						92	
110IN 93				4.156	14-				93	
110IN 94		4.229	15+						94 0.435 PS +17-16	
110IN 95				4.264	14-				95	
110IN 96							4.323	13-,14-,15-	96	
110IN 97		4.371	15+						97	
110IN 98				4.528	16-				98	
110IN 99							4.562	15(-)	99	
110IN 100		4.598	16+						100 0.297 PS +6-11	

110IN 101							4.602	(16-)	101	
110IN 102				4.606	15-				102	
110IN 103							4.803	(17-)	103	
110IN 104		4.803	16+						104	
110IN 105				4.942	16-				105	
110IN 106							4.996	16(-)	106	
110IN 107							5.046	13+,14+,15+	107	
110IN 108		5.085	17+						108 0.159 PS +24-18	
110IN 109				5.181	16-				109	
S-p =	5.255	(0.012)	-----							
110IN 110				5.265	17-				110	

110IN 111							5.283	17(+)	111	
110IN 112				5.403	17-				112	
110IN 113							5.546	(17-)	113	
110IN 114							5.556	17(-)	114 0.54 PS +7-6	
110IN 115							5.562	(17-)	115	
110IN 116		5.650	18+						116 0.136 PS +15-13	
110IN 117							5.687	16-,17-,18-	117	
110IN 118							5.825	(16+,17+,18+)	118	
110IN 119							5.833	(18+)	119	
110IN 120							5.839	(18+)	120	

110IN 121				6.062	18-				121	
110IN 122							6.095	(19)-	122	
110IN 123		6.223	19+						123 0.073 PS +6-9	
110IN 124							6.297	(19)+	124	
110IN 125							6.446	19(-)	125 0.38 PS +4-3	
110IN 126							6.707	(20+)	126	

110IN 127				6.992	(20+)	127
110IN 128		6.999	20-			128
110IN 129				7.241	(19)+	129
110IN 130				7.273	(21+)	130

110IN 131				7.392	21(-)	131 0.279 PS +16-12
110IN 132				7.981	(22+)	132
S-n	=	8.052	(0.012)	-----		
110IN 133				8.088	(22-)	133
110IN 134				8.464	(23-)	134 0.142 PS +13-10
110IN 135				8.748	(23+)	135
110IN 136		8.768	0+			136
110IN 137				9.398	(24-)	137
110IN 138		9.438	2+			138
110IN 139				9.699	(25-)	139

S-p = 5.255 (0.012)-----
 S-n = 8.052 (0.012)-----
 S-2p = 13.441 (0.012)-----
 S-2n = 18.493 (0.014)-----
 S-alpha= 1.953 (0.012)-----

S+p = -6.758 (0.013)
 S+n = -9.993 (0.012)
 S+2p = -9.707 (0.021)
 S+2n = -17.663 (0.012)
 S+alpha = -0.452 (0.023)

gap p = -1.503 (0.017)
 gap n = -1.942 (0.017)
 gap 2p = 3.734 (0.024)
 gap 2n = 0.830 (0.019)
 gap alpha = 1.501 (0.026)