

^{121}In $Z = 49$ $N = 72$ adopted link ENSDF link

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

BE = 1024.129 (0.027) MeV

Qbeta- = 3.362 (0.027) MeV

	Energy T	J+	J-	J-other	T1/2	
121IN 1	0.000	9/2+			1	23.1 S 6
121IN 2			0.314	1/2-	2	3.88 M 10
121IN 3			0.638	3/2-	3	
121IN 4				0.987 (3/2+)	4	5.5 NS 3
121IN 5				0.988 (9/2+)	5	
121IN 6				1.021 (9/2,11/2,13/2)+	6	
121IN 7				1.040 (5/2+)	7	
121IN 8			1.079	5/2-	8	
121IN 9				1.182 (13/2+)	9	
121IN 10				1.197 (1/2+)	10	2 NS LT
121IN 11				1.315 (5/2+)	11	
121IN 12				1.408 (9/2+)	12	
121IN 13				1.461	13	
121IN 14				1.483 (5/2+)	14	
121IN 15				1.487 (9/2+)	15	
121IN 16				1.504	16	
121IN 17				1.614	17	
121IN 18				1.760	18	
121IN 19				1.792	19	
121IN 20				1.961 (1/2+,3/2+)	20	
121IN 21				1.966 (1/2+,3/2+,5/2+)	21	
121IN 22				1.977	22	
121IN 23				1.989	23	
121IN 24				2.048 (11/2+,13/2+)	24	
121IN 25				2.059 (11/2-)	25	
121IN 26				2.115 (9/2-,11/2-)	26	
121IN 27				2.129	27	
121IN 28				2.134 (15/2-)	28	
121IN 29				2.136 (3/2+)	29	
121IN 30				2.160 (11/2-)	30	
121IN 31				2.222 (1/2+,3/2+,5/2+)	31	
121IN 32				2.247	32	
121IN 33				2.265 (5/2+)	33	
121IN 34				2.292 (11/2-)	34	
121IN 35				2.299 (1/2+,3/2+,5/2+)	35	
121IN 36				2.332 (9/2-,11/2-)	36	
121IN 37				2.337 (1/2+,3/2+)	37	

121IN	38				2.358	(9/2-,11/2-,13/2	38-)
121IN	39				2.365	(11/2-)	39
121IN	40				2.367		40

121IN	41				2.370	(9/2-,11/2-)	41
121IN	42				2.382	(3/2+,5/2+)	42
121IN	43				2.396		43
121IN	44				2.455	(9/2-,11/2-)	44
121IN	45				2.473	(1/2+,3/2+,5/2+)	45
121IN	46				2.478	(11/2-,13/2-)	46
121IN	47				2.492	(1/2+,3/2+,5/2+)	47
121IN	48				2.504		48
121IN	49				2.511	(9/2-,11/2-)	49
121IN	50				2.523	(3/2+,5/2+)	50

121IN	51				2.539		51
121IN	52				2.562	(11/2-)	52
121IN	53				2.581	(11/2-,13/2-)	53
121IN	54				2.612	(1/2+,3/2+,5/2+)	54

S-p = 9.166 (0.028)-----
 S-n = 8.178 (0.049)-----
 S-2p = 21.767 (0.031)-----
 S-2n = 14.279 (0.028)-----
 S-alpha= 6.078 (0.031)-----

S+p = -11.394 (0.028)
 S+n = -5.808 (0.057)
 S+2p = -17.966 (0.027)
 S+2n = -13.737 (0.034)
 S+alpha = -4.845 (0.028)

gap p = -2.228 (0.039)
 gap n = 2.370 (0.075)
 gap 2p = 3.801 (0.041)
 gap 2n = 0.542 (0.044)
 gap alpha = 1.232 (0.041)