

$^{105}\text{In}$        $Z = 49$        $N = 56$       adopted link      ENSDF link

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

BE = 888.794 ( 0.010) MeV

Qbeta+ = 4.693 ( 0.010) MeV

	Energy T	J+	J-	J-other	T1/2
105IN 1	0.000	9/2+			1 5.07 M 7
105IN 2				0.674 (1/2-)	2 48 S 6
S-alpha= 0.731 ( 0.011)					
105IN 3	0.992	11/2+			3
105IN 4				1.210	4
105IN 5				1.282 (5/2+,7/2+)	5
105IN 6				1.303	6
105IN 7	1.342	13/2+			7
105IN 8				1.416 (7/2+)	8
105IN 9				1.417 (5/2+,7/2+)	9
105IN 10				1.466 (5/2+,7/2+)	10
105IN 11				1.591	11
105IN 12	1.826	17/2+			12 416 PS 28
105IN 13				1.882 (7/2+)	13
105IN 14				1.932 (3/2+)	14
105IN 15				1.942 (5/2+:11/2+)	15
105IN 16				1.979 (3/2+,5/2+,7/2+)	16
105IN 17				1.985 (5/2+,7/2+)	17
105IN 18				1.988	18
105IN 19	2.098	19/2+			19 2.61 PS 12
105IN 20				2.222 (3/2+,5/2+,7/2+)	20
105IN 21				2.270	21
105IN 22				2.312 (3/2+,5/2+,7/2+)	22
105IN 23				2.369	23
105IN 24				2.370	24
105IN 25				2.399 (3/2+,5/2+,7/2+)	25
105IN 26				2.426 (7/2+:13/2+)	26
105IN 27				2.471 (3/2+,5/2+,7/2+)	27
105IN 28				2.517 (3/2+,5/2+,7/2+)	28
105IN 29				2.590 (3/2+)	29
105IN 30				2.626 (7/2+)	30
105IN 31				2.665	31
105IN 32				2.752 (3/2+,5/2+,7/2+)	32
105IN 33				2.759	33
105IN 34				2.771	34
105IN 35				2.782 (3/2+)	35
105IN 36	2.938	21/2+			36 0.52 PS 10

105IN	37				2.958	(3/2+,5/2+,7/2+	37)		
S-p	=	2.961	(	0.010)					
105IN	38				2.964	(3/2+)	38		
105IN	39				3.025	(3/2+,5/2+,7/2+	39)		
105IN	40				3.082		40		
105IN	41				3.112	(7/2+)	41		
105IN	42				3.144	(3/2+,5/2+,7/2+	42)		
105IN	43				3.158	(3/2+,5/2+,7/2+	43)		
105IN	44				3.242	(3/2+,5/2+,7/2+	44)		
105IN	45				3.262	(3/2+,5/2+,7/2+	45)		
105IN	46		3.345	23/2+			46	1.59 PS	28
105IN	47				3.414	(3/2+,5/2+,7/2+	47)		
105IN	48				3.436		48		
105IN	49				3.466	(5/2+,7/2+)	49		
105IN	50				3.471	(5/2+,7/2+)	50		
105IN	51				3.525	(3/2+,5/2+,7/2+	51)		
105IN	52				3.573		52		
105IN	53				3.594	(3/2+,5/2+,7/2+	53)		
105IN	54				3.627	(3/2+)	54		
105IN	55		3.632	25/2+			55	4.09 PS	14
105IN	56				3.636	(3/2+,5/2+,7/2+	56)		
105IN	57			3.654	19/2-		57	1.4 PS	LT
105IN	58				3.656	(3/2+,5/2+,7/2+	58)		
105IN	59				3.700	(3/2+,5/2+,7/2+	59)		
105IN	60			3.828	21/2-		60	0.55 PS	7
105IN	61				3.952	(3/2+)	61		
105IN	62			3.958	23/2-		62	1.73 PS	14
105IN	63			3.971	21/2-		63		
105IN	64				4.198	(3/2+,5/2+,7/2+	64)		
105IN	65			4.310	23/2-		65		
105IN	66			4.356	25/2-		66	1.4 PS	LT
105IN	67		4.490	29/2+			67	0.97 PS	21
105IN	68			4.954	25/2-		68		
105IN	69			5.046	27/2-		69	0.35 PS	LT
105IN	70				5.250	29/2(+)	70		
105IN	71			5.274	27/2-		71		
105IN	72				5.355		72		
105IN	73			5.488	29/2-		73	1.04 PS	28
105IN	74			5.620	29/2-		74	0.62 PS	14
105IN	75			5.891	31/2-		75		
105IN	76				6.003		76		
105IN	77			6.021	31/2-		77		
105IN	78				6.126		78		
105IN	79			6.382	33/2-		79		
105IN	80			6.586	33/2-		80		

105IN 81				7.056	35/2-			81
105IN 82							7.106 (35/2-)	82
105IN 83				7.553	37/2-			83
105IN 84							7.740	84
105IN 85							7.801 33/2(+)	85
105IN 86							8.097 35/2(+)	86
105IN 87				8.479	39/2-			87
105IN 88							8.552 37/2(+)	88
105IN 89							8.562	89
105IN 90							8.917	90
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105IN 91							9.131 39/2(+)	91
105IN 92				9.297	41/2-			92
S-2p	=	9.416	( 0.011)	-----				
105IN 93							9.457 41/2(+)	93
105IN 94							9.646 41/2(+)	94
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S-p	=	2.961	( 0.010)	-----				
S-n	=	11.529	( 0.012)	-----				
S-2p	=	9.416	( 0.011)	-----				
S-2n	=	21.151	( 0.014)	-----				
S-alpha	=	0.731	( 0.011)	-----				
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S+p	=	-5.002	( 0.011)					
S+n	=	-9.039	( 0.016)					
S+2p	=	-5.591	( 0.011)					
S+2n	=	-20.069	( 0.014)					
S+alpha	=	0.965	( 0.012)					
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gap p	=	-2.041	( 0.015)					
gap n	=	2.490	( 0.020)					
gap 2p	=	3.825	( 0.016)					
gap 2n	=	1.082	( 0.020)					
gap alpha	=	1.696	( 0.016)					