

$^{107}\text{In}$        $Z = 49$        $N = 58$       adopted link      ENSDF link

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

BE = 908.863 ( 0.010) MeV

Qbeta+ = 3.424 ( 0.010) MeV

	Energy T	J+	J-	J-other	T1/2
107IN 1	0.000	9/2+			1 32.4 M 3
107IN 2			0.678 1/2-		2 50.4 S 6
107IN 3	1.001	11/2+			3
107IN 4				1.107 (3/2)-	4
107IN 5				1.129 (5/2)+	5
107IN 6				1.166 (1/2)+	6
S-alpha= 1.189 ( 0.010)-----					
107IN 7				1.396 (5/2+)	7
107IN 8	1.415	13/2+			8
107IN 9				1.423 (9/2)+	9
107IN 10				1.491 (3/2)+	10
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107IN 11				1.519 (1/2,3/2,5/2)-	11
107IN 12				(+)	12
107IN 13				1.733	13
107IN 14				1.806	14
107IN 15				1.840 (1/2+)	15
107IN 16	1.854	17/2+			16 1.7 NS 3
107IN 17				1.865 -	17
107IN 18				1.911 -	18
107IN 19				1.937	19
107IN 20				1.941	20
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107IN 21				1.973 (7/2,9/2,11/2)	21
107IN 22	2.004	19/2+			22 0.6 NS 2
107IN 23				2.200	23
107IN 24				2.290	24
107IN 25				2.315	25
107IN 26				2.320 (17/2,19/2,21/2)	26+
107IN 27				2.340	27
107IN 28				2.395	28
107IN 29				2.417 (17/2,19/2,21/2)	29
107IN 30				2.431 (17/2,19/2)+	30
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107IN 31				2.466	31
107IN 32				2.705	32
107IN 33	2.795	21/2+			33
107IN 34				2.889	34
107IN 35				3.224	35
107IN 36			3.283 19/2-		36 0.2 NS LT

107IN	37				3.315	(19/2,21/2)+	37	
107IN	38				3.442	21/2-	38	0.2 NS LT
107IN	39				3.537	21/2-	39	
107IN	40				3.646	23/2-	40	

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S-p = 3.724 ( 0.010)-----

107IN	41				3.743	(17/2 TO 23/2)	41	
107IN	42				3.752		42	
107IN	43				3.852		43	
107IN	44				3.853	23/2-	44	
107IN	45				4.039	25/2-	45	
107IN	46				4.103		46	
107IN	47				4.213	25/2-	47	
107IN	48				4.651	27/2-	48	
107IN	49				4.723	27/2-	49	
107IN	50				4.787		50	

107IN	51				4.890		51	
107IN	52				4.902	29/2(-)	52	
107IN	53				5.075		53	
107IN	54				5.183	29/2(-)	54	
107IN	55				5.211	29/2(-)	55	
107IN	56				5.502		56	
107IN	57				5.566	31/2(-)	57	
107IN	58				5.655	31/2(-)	58	
107IN	59				6.070	33/2(-)	59	
107IN	60				6.989	(33/2)	60	

107IN	61		9.402	5/2+			61	
107IN	62		9.815	1/2+			62	

S-p = 3.724 ( 0.010)-----

S-n = 11.030 ( 0.016)-----

S-2p = 11.074 ( 0.011)-----

S-2n = 20.069 ( 0.014)-----

S-alpha= 1.189 ( 0.010)-----

S+p = -5.792 ( 0.011)

S+n = -8.625 ( 0.013)

S+2p = -7.262 ( 0.011)

S+2n = -19.065 ( 0.010)

S+alpha = 0.305 ( 0.013)

gap p = -2.069 ( 0.015)

gap n = 2.405 ( 0.020)

gap 2p = 3.811 ( 0.015)

gap 2n = 1.003 ( 0.018)

gap alpha = 1.494 ( 0.017)