

^{125}Sn $Z = 50$ $N = 75$ adopted link ENSDF link

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

BE = 1055.691 (0.001) MeV

Qbeta- = 2.361 (0.003) MeV

	Energy T	J+	J-	J-other	T1/2
125SN 1			0.000	11/2-	1 9.64 D 3
125SN 2	0.027	3/2+			2 9.52 M 5
125SN 3	0.215	1/2+			3
125SN 4				0.618 (9/2-)	4
125SN 5	0.855	7/2+			5
125SN 6				0.930 1/2,3/2	6
125SN 7				0.936 (7/2)-	7
125SN 8	1.059	7/2+			8
125SN 9				1.072 1/2,3/2	9
125SN 10				1.087 (15/2-)	10
125SN 11				1.188 1/2+,3/2+,5/2+	11
125SN 12				1.219 (13/2-)	12
125SN 13				1.259 (5/2)+	13
125SN 14	1.363	7/2+			14
125SN 15				1.540 (5/2)+	15
125SN 16				1.757 1/2,3/2	16
125SN 17				1.803	17
125SN 18				1.875	18
125SN 19				1.880 (15/2+)	19
125SN 20				1.893 (19/2+)	20 6.2 US 2
125SN 21				2.059 (23/2+)	21 0.6 US 2
125SN 22				2.076 (19/2-)	22
125SN 23				2.136 (19/2-)	23
125SN 24				2.176 7/2,9/2,11/2	24
125SN 25				2.250 (3/2+,5/2+)	25
125SN 26				2.284	26
125SN 27				2.308 (21/2+)	27
125SN 28				2.332	28
125SN 29				2.347	29
125SN 30				2.355 (1/2-,3/2-)	30
125SN 31				2.462 (23/2-)	31
125SN 32				2.519	32
125SN 33				2.533	33
125SN 34				2.589 (5/2-,7/2-)	34
125SN 35				2.624 (27/2-)	35 0.23 US 2
125SN 36			2.760	7/2-	36
125SN 37				2.800	37

125SN 38				2.883	(5/2-,7/2-)	38
125SN 39				2.990		39
125SN 40				3.020		40

125SN 41				3.080	5/2-,7/2-	41
125SN 42				3.109		42
125SN 43				3.150		43
125SN 44				3.180		44
125SN 45				3.195	5/2-,7/2-	45
125SN 46				3.247		46
125SN 47				3.344	(3/2-)	47
125SN 48				3.375		48
125SN 49				3.416	(3/2)-	49
125SN 50				3.482	1/2-,3/2-	50

125SN 51				3.530	(9/2-,11/2-)	51
125SN 52				3.610	(5/2-,7/2-)	52
125SN 53				3.703		53
125SN 54				3.738		54
125SN 55				3.774		55
125SN 56				3.820	(1/2)-	56
125SN 57				3.850		57
125SN 58				3.870		58
125SN 59				3.920		59
125SN 60				3.970	(-)	60

125SN 61				4.030	(9/2-,11/2-)	61
125SN 62				4.100	(1/2-,3/2-)	62
125SN 63				4.160	(5/2-,7/2-)	63
125SN 64				4.200	(5/2-,7/2-)	64
125SN 65				4.290		65
125SN 66				4.320		66
125SN 67				4.430		67
125SN 68				4.510		68
125SN 69				4.550	(9/2-,11/2-)	69
125SN 70				4.650	(5/2-,7/2-)	70

125SN 71				4.730	(5/2-,7/2-)	71
125SN 72				4.780		72
125SN 73				4.830	(5/2-,7/2-)	73
125SN 74				4.880		74
125SN 75				4.900	(9/2-,11/2-)	75
125SN 76				4.980		76
125SN 77				5.060	(9/2-,11/2-)	77
125SN 78				5.120	(9/2-,11/2-)	78
125SN 79				5.230	(9/2-,11/2-)	79

S-p = 12.315 (0.031)-----
S-n = 5.734 (0.002)-----

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S-2p = 23.057 ( 0.003)-----  
S-2n = 14.222 ( 0.003)-----  
S-alpha= 7.245 ( 0.002)-----  
  
S+p = -7.788 ( 0.032)  
S+n = -8.193 ( 0.011)  
S+2p = -16.965 ( 0.002)  
S+2n = -13.719 ( 0.009)  
S+alpha = -3.536 ( 0.002)  
  
gap p = 4.526 ( 0.044)  
gap n = -2.459 ( 0.011)  
gap 2p = 6.093 ( 0.004)  
gap 2n = 0.503 ( 0.010)  
gap alpha = 3.709 ( 0.003)
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