

$^{120}\text{Sn}$        $Z = 50$        $N = 70$       adopted link      ENSDF link

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

BE = 1020.539 ( 0.001) MeV

	Energy T	J+	J-	J-other	T1/2
120SN 1	0.000	0+			1 STABLE
120SN 2	1.171	2+			2 0.640 PS 12
120SN 3	1.875	0+			3 7.4 PS 10
120SN 4	2.097	2+			4 1.3 PS 4
120SN 5	2.160	0+			5 4 PS GT
120SN 6				2.173	6
120SN 7	2.194	4+			7 1.4 PS 2
120SN 8			2.284 5-		8 5.55 NS 3
120SN 9				2.297 0+,1+	9
120SN 10	2.355	2+			10 0.33 PS +10-7
120SN 11			2.400 3-		11 0.116 PS 8
120SN 12	2.421	2+			12 0.46 PS +21-10
120SN 13	2.466	4+			13 0.32 PS +7-4
120SN 14			2.482 7-		14 11.8 US 5
120SN 15				2.540 (5-)	15
120SN 16	2.587	0+			16 0.34 PS GT
120SN 17	2.643	4+			17 1.0 PS GT
120SN 18	2.685	6+			18
120SN 19				2.691 (2+&6+)	19
120SN 20			2.696 4-		20
120SN 21	2.728	2+			21 0.24 PS +5-8
120SN 22			2.750 6-		22
120SN 23	2.751	4+			23
120SN 24			2.800 5-		24
120SN 25				2.802 (7-,8+)	25
120SN 26	2.835	1+			26 0.13 PS +6-3
120SN 27				2.837 (8+)	27 0.09 PS +4-2
120SN 28				2.844 (6)-	28
120SN 29				2.858 (0+)	29
120SN 30				2.902 (10+)	30 6.26 US 11
120SN 31	2.931	2+			31 0.11 PS 2
120SN 32			2.976 4-		32
120SN 33				2.997	33
120SN 34	3.009	2+			34
120SN 35				3.035 (0+)	35
120SN 36	3.058	4+			36
120SN 37				3.070 (6+)	37
120SN 38	3.077	3+			38

120SN	39					3.100	(1-)	39
120SN	40	3.158	2+					40 0.050 PS +13-10
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120SN	41	3.179	4+					41
120SN	42	3.209	0+					42
120SN	43					3.210	1+,2+,3+	43
120SN	44					3.232	1+,2+,3+	44
120SN	45					3.237	(1,2)	45
120SN	46			3.252	5-			46
120SN	47					3.263		47
120SN	48					3.279	(1-)	48 0.012 PS +4-3
120SN	49	3.285	2+					49 0.9 PS 3
120SN	50					3.330	(6+,7-)	50
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120SN	51					3.341		51
120SN	52					3.350	(4)+	52
120SN	53	3.386	2+					53
120SN	54	3.438	4+					54
120SN	55					3.446	(7-,8-)	55
120SN	56					3.455		56
120SN	57			3.472	3-			57
120SN	58					3.548	1,2	58
120SN	59					3.559		59
120SN	60					3.582	(1,2)	60 0.06 PS +6-3
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120SN	61					3.600		61
120SN	62	3.631	2+					62
120SN	63					3.644	(6+,7-)	63
120SN	64					3.711	(1,2)	64 0.09 PS +17-4
120SN	65					3.765	1+,2+	65 0.089 PS 17
120SN	66					3.772	+	66
120SN	67	3.777	4+					67
120SN	68	3.835	2+					68 0.13 PS 6
120SN	69					3.858	(4)	69
120SN	70	3.875	2+					70
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120SN	71					3.907	-	71
120SN	72					3.928		72
120SN	73					3.955		73
120SN	74					3.990	(2)+	74
120SN	75					4.006	(1,2)	75 0.17 PS 5
120SN	76					4.011	(1,2)	76
120SN	77					4.079	1+,2+,3+	77
120SN	78					4.096		78
120SN	79			4.110	1-			79
120SN	80					4.147		80
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120SN	81					4.180	-	81
120SN	82					4.190	1+,2+,3+	82
120SN	83					4.230	+	83

120SN 84				4.318	0-,1-	84
120SN 85				4.360	-	85
120SN 86				4.410	-	86
120SN 87				4.460	-	87
120SN 88				4.580	-	88
120SN 89				4.650	-	89
120SN 90				4.690	-	90
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120SN 91				4.720	-	91
120SN 92				4.770	-	92
S-alpha=	4.810	(	0.001)	-----		
120SN 93				4.870	-	93
120SN 94				4.920	-	94
120SN 95				4.970	-	95
120SN 96				5.030	-	96
120SN 97				5.090	-	97
120SN 98				5.170	-	98
120SN 99				5.230	+	99
120SN 100				6.300	-	100
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120SN 101				6.729	1	101
120SN 102				6.900	-	102
120SN 103				7.310	1	103
120SN 104		7.687	1-			104
120SN 105				8.400	-	105
120SN 106				8.993	1	106
S-n =	9.104	(	0.001)	-----		
120SN 107				9.900	-	107
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S-p =	10.688	(	0.007)	-----		
S-n =	9.104	(	0.001)	-----		
S-2p =	18.974	(	0.020)	-----		
S-2n =	15.588	(	0.001)	-----		
S-alpha=	4.810	(	0.001)	-----		
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S+p =	-5.790	(	0.003)	-----		
S+n =	-6.170	(	0.001)	-----		
S+2p =	-13.793	(	0.002)	-----		
S+2n =	-14.985	(	0.003)	-----		
S+alpha =	-1.851	(	0.002)	-----		
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gap p =	4.898	(	0.008)	-----		
gap n =	2.934	(	0.002)	-----		
gap 2p =	5.181	(	0.020)	-----		
gap 2n =	0.603	(	0.003)	-----		
gap alpha =	2.959	(	0.002)	-----		