

$^{111}\text{Ag}$        $Z = 47$        $N = 64$       adopted link      ENSDF link

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

BE = 947.362 ( 0.001) MeV

Qbeta- = 1.037 ( 0.001) MeV

	Energy T	J+	J-	J-other	T1/2
111AG 1			0.000	1/2-	1 7.45 D 1
111AG 2	0.060	7/2+			2 64.8 S 8
111AG 3	0.130	9/2+			3 1.22 NS 2
111AG 4			0.290	3/2-	4
111AG 5	0.377	3/2+			5 16 NS 1
111AG 6			0.391	5/2-	6
111AG 7	0.405	1/2+			7
111AG 8	0.546	7/2+			8
111AG 9	0.569	5/2+			9
111AG 10	0.569	5/2+			10
111AG 11	0.607	5/2+			11
111AG 12			0.642	3/2-	12
111AG 13	0.683	9/2+			13
111AG 14				0.705 11/2(+)	14
111AG 15				0.710 (5/2+,7/2+)	15
111AG 16			0.809	5/2-	16
111AG 17				0.817	17
111AG 18				0.824 11/2+,13/2+	18
111AG 19			0.846	7/2-	19
111AG 20	0.877	9/2+			20
111AG 21	0.959	11/2+			21
111AG 22			0.987	5/2-	22
111AG 23	1.013	9/2+			23
111AG 24			1.024	9/2-	24
111AG 25	1.062	3/2+			25
111AG 26			1.082	1/2-	26
111AG 27				1.085 (7/2+)	27
111AG 28				1.087 (3/2+,5/2+)	28
111AG 29				1.120 (3/2+)	29
111AG 30	1.125	11/2+			30
111AG 31				1.147	31
111AG 32			1.153	7/2-	32
111AG 33				1.160	33
111AG 34				1.170 (3/2+,5/2+)	34
111AG 35	1.180	5/2+			35
111AG 36				1.199 (1/2)	36
111AG 37				1.201 3/2-,5/2-	37

111AG 38						1.202	11/2,13/2	38
111AG 39		1.210	3/2+					39
111AG 40						1.263		40
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111AG 41		1.277	9/2+					41
111AG 42						1.278	1/2-,3/2-	42
111AG 43						1.285	(7/2-,5/2-)	43
111AG 44						1.299	5/2-,7/2-	44
111AG 45						1.300	1/2-,3/2-	45
111AG 46						1.301		46
111AG 47					1.377	7/2-		47
111AG 48						1.388	(11/2)	48
111AG 49					1.418	5/2-		49
111AG 50						1.419	1/2-,3/2-	50
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111AG 51						1.440	7/2+,9/2	51
111AG 52						1.442	(5/2-)	52
111AG 53		1.443	1/2+					53
111AG 54						1.448	(1/2-)	54
111AG 55						1.452		55
111AG 56						1.464	(5/2-,7/2-)	56
111AG 57						1.467	(1/2)	57
111AG 58						1.471		58
111AG 59						1.475	(15/2+,13/2+)	59
111AG 60		1.476	1/2+					60
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111AG 61						1.496	(1/2)	61
111AG 62						1.506		62
111AG 63						1.519	5/2+,7/2+	63
111AG 64						1.540	1/2-,3/2-	64
111AG 65						1.543	(13/2)	65
111AG 66						1.545	(5/2+,7/2+)	66
111AG 67						1.546	1/2-,3/2-	67
111AG 68						1.550	9/2-,11/2-	68
111AG 69						1.574	(11/2+,13/2+)	69
111AG 70						1.588	3/2+,5/2+	70
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111AG 71		1.602	5/2+					71
111AG 72						1.612		72
111AG 73		1.621	3/2+					73
111AG 74						1.630	3/2-,5/2-	74
111AG 75						1.639		75
111AG 76						1.654	3/2+,5/2+	76
111AG 77						1.665		77
111AG 78						1.674	(3/2)-	78
111AG 79						1.682	5/2+,3/2+	79
111AG 80						1.705	(5/2+,7/2+)	80
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111AG 81						1.706	(9/2-)	81
111AG 82					1.719	1/2-		82

111AG 83				1.727	3/2+,5/2+	83
111AG 84				1.749	11/2-,13/2-	84
111AG 85				1.752	11/2+,13/2+	85
111AG 86				1.752	3/2-,5/2-	86
111AG 87				1.765	11/2+,13/2	87
111AG 88				1.768		88
111AG 89				1.770	7/2+,9/2+	89
111AG 90				1.782	(9/2+,11/2+)	90
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111AG 91				1.799	7/2,9/2	91
111AG 92				1.802	(3/2,5/2)	92
111AG 93				1.819	3/2-,5/2	93
111AG 94				1.822	(9/2-,11/2-)	94
111AG 95				1.832	3/2+,5/2+	95
111AG 96				1.862	3/2-,5/2-	96
111AG 97				1.906	(9/2-,11/2-)	97
111AG 98				1.934	7/2-,9/2-	98
111AG 99	1.941	1/2+				99
111AG 100				1.956	(5/2+,7/2+)	100
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111AG 101				1.960		101
111AG 102				1.965		102
111AG 103				1.966		103
111AG 104	1.985	5/2+				104
111AG 105				1.988	(13/2-)	105
111AG 106				2.068	5/2+,7/2+	106
111AG 107				2.069		107
111AG 108				2.087		108
111AG 109	2.093	7/2+				109
111AG 110				2.101	(11/2)	110
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111AG 111				2.125	7/2-,9/2-	111
111AG 112				2.131	11/2,13/2	112
111AG 113				2.136		113
111AG 114				2.165	5/2+,7/2+	114
111AG 115				2.188	+	115
111AG 116				2.197	(7/2-,9/2-)	116
111AG 117				2.222	(7/2-,9/2-)	117
111AG 118				2.223	+	118
111AG 119				2.258	9/2+,11/2+	119
111AG 120				2.282	7/2-,9/2-	120
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111AG 121				2.298	(3/2+,5/2+)	121
111AG 122				2.308	(7/2-,9/2-)	122
111AG 123				2.342	(1/2-,3/2-)	123
111AG 124				2.353	(15/2,17/2)	124
111AG 125				2.375	(1/2+)	125

S-p = 7.174 ( 0.002)-----

S-n = 8.830 ( 0.002)-----  
S-2p = 17.794 ( 0.004)-----  
S-2n = 15.639 ( 0.002)-----  
S-alpha= 3.777 ( 0.012)-----

S+p = -9.648 ( 0.001)  
S+n = -6.440 ( 0.003)  
S+2p = -15.730 ( 0.001)  
S+2n = -14.954 ( 0.017)  
S+alpha = -3.746 ( 0.001)

gap p = -2.475 ( 0.002)  
gap n = 2.390 ( 0.003)  
gap 2p = 2.065 ( 0.005)  
gap 2n = 0.685 ( 0.017)  
gap alpha = 0.031 ( 0.012)