

^{63}Ni $Z = 28$ $N = 35$ adopted link ENSDF link

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

BE = 552.100 (0.000) MeV

Qbeta- = 0.067 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
63NI 1			0.000	1/2-	1 101.2 Y 15
63NI 2			0.087	5/2-	2 1.67 US 3
63NI 3			0.156	3/2-	3
63NI 4			0.518	3/2-	4
63NI 5			1.001	1/2-	5 0.29 PS +21-16
63NI 6				1.069 (5/2)-	6
63NI 7				1.251	7
63NI 8				1.292 (9/2)+	8 3.33 NS 21
63NI 9			1.324	3/2-	9
63NI 10				1.452 (5/2,7/2,9/2)-	10
63NI 11				1.657	11
63NI 12				1.677	12
63NI 13				1.787 5/2-,7/2-	13
63NI 14				1.899 5/2-,7/2-	14
63NI 15			2.149	3/2-	15
63NI 16				2.184 (11/2+,13/2+)	16 3.60 PS 55
63NI 17				2.262 (5/2,7/2)-	17
63NI 18	2.297	5/2+			18
63NI 19				2.353	19
63NI 20				2.519 (9/2)+	20
63NI 21				2.573 (7/2+,9/2+)	21
63NI 22				2.675 (3/2+,5/2+)	22
63NI 23			2.697	1/2-	23
63NI 24				2.815	24 0.49 PS 21
63NI 25				2.822 (1/2-,3/2-)	25
63NI 26	2.953	1/2+			26
63NI 27				2.980	27
63NI 28				3.013	28
63NI 29				3.022	29
63NI 30				3.075	30
63NI 31				3.104 3/2+,5/2+	31
63NI 32				3.179 5/2-,7/2-	32
63NI 33				3.237	33
63NI 34				3.254	34
63NI 35				3.284	35
63NI 36	3.292	5/2+			36
63NI 37				3.336 3/2+,5/2+	37

63NI 38						3.427	(1/2-, 3/2-)	38
63NI 39						3.471		39
63NI 40						3.522	3/2+, 5/2+	40

63NI 41						3.551	5/2-, 7/2-	41
63NI 42						3.594	(5/2-, 7/2-)	42
63NI 43						3.608		43
63NI 44						3.633		44
63NI 45						3.680		45
63NI 46						3.694		46
63NI 47						3.723	3/2+, 5/2+	47
63NI 48						3.740		48
63NI 49						3.769		49
63NI 50						3.780		50

63NI 51						3.792		51
63NI 52						3.804		52
63NI 53						3.836		53
63NI 54						3.889		54
63NI 55		3.932	5/2+					55
63NI 56		3.951	5/2+					56
63NI 57						4.022		57
63NI 58						4.033	(1/2-, 3/2-)	58
63NI 59						4.056		59
63NI 60		4.074	1/2+					60

63NI 61						4.106		61
63NI 62		4.267	1/2+					62
63NI 63						4.313	(1/2-, 3/2-)	63
63NI 64						4.331		64
63NI 65						4.358	(5/2-, 7/2-)	65
63NI 66		4.387	5/2+					66
63NI 67						4.449	3/2+, 5/2+	67
63NI 68						4.461		68
63NI 69						4.488	(1/2-, 3/2-)	69
63NI 70						4.555		70

63NI 71						4.586		71
63NI 72						4.622	3/2+, 5/2+	72
63NI 73		4.692	1/2+					73
63NI 74						4.722		74
63NI 75						4.799		75
63NI 76						4.812		76
63NI 77						4.828		77
63NI 78		4.876	1/2+					78
63NI 79						4.919		79
63NI 80		4.957	1/2+					80

63NI 81						5.026		81
63NI 82						5.060	(3/2+, 5/2+)	82

63NI 83				5.093		83
63NI 84				5.123		84
63NI 85				5.142	(5/2-,7/2-)	85
63NI 86				5.178	(1/2+)	86
63NI 87				5.240	3/2+,5/2+	87
63NI 88				5.370	3/2+,5/2+	88
63NI 89				5.450	3/2+,5/2+	89
63NI 90				5.600	3/2+,5/2+	90

63NI 91				5.710	3/2+,5/2+	91
63NI 92				5.860		92
63NI 93				5.930	3/2+,5/2+	93
63NI 94				6.000		94
63NI 95				6.070	3/2+,5/2+	95
63NI 96				6.160		96
63NI 97				6.280	3/2+,5/2+	97
63NI 98				6.320		98
63NI 99	6.440	1/2+				99
63NI 100				6.500	3/2+,5/2+	100

S-p = 11.377 (0.019)-----
S-n = 6.838 (0.001)-----
S-2p = 21.170 (0.003)-----
S-2n = 17.433 (0.001)-----
S-alpha= 7.273 (0.001)-----

S+p = -7.201 (0.001)
S+n = -9.658 (0.001)
S+2p = -14.977 (0.001)
S+2n = -15.756 (0.001)
S+alpha = -4.792 (0.001)

gap p = 4.177 (0.019)
gap n = -2.820 (0.001)
gap 2p = 6.193 (0.003)
gap 2n = 1.678 (0.001)
gap alpha = 2.480 (0.001)