

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

Based on ensdf\_240402 (Apr 2024), 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	
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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,	10	
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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	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	
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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	
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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
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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
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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
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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
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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
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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
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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-alpha=		7.273	( 0.001)	-----	
S-p	=	11.377	( 0.019)	-----	
S-n	=	6.838	( 0.001)	-----	
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63NI 101			11.850 (7/2)-		101
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)		