

$^{62}\text{Ni}$        $Z = 28$        $N = 34$       adopted link      ENSDF link

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

BE = 545.262 ( 0.000) MeV

	Energy T	J+	J-	J-other	T1/2
62NI 1	0.000	0+			1 STABLE
62NI 2	1.173	2+			2 1.45 PS 4
62NI 3	2.049	0+			3 0.76 PS +76-28
62NI 4	2.302	2+			4 0.58 PS +16-9
62NI 5	2.337	4+			5 0.86 PS +24-13
62NI 6	2.891	0+			6 3.1 PS GT
62NI 7	3.059	3+			7 2.3 PS +14-7
62NI 8	3.158	2+			8 0.62 PS +11-10
62NI 9	3.177	4+			9 0.73 PS 17
62NI 10	3.258	2+			10 0.71 PS 17
62NI 11				3.262 (2,4)+	11
62NI 12				3.270 1+,2+	12 0.125 PS 14
62NI 13	3.278	4+			13 0.195 PS +34-18
62NI 14	3.370	1+			14 0.19 PS 9
62NI 15				3.378	15
62NI 16				3.462 1+:4+	16
62NI 17				3.486	17
62NI 18	3.518	2+			18 0.201 PS 38
62NI 19				3.523 2+,3+	19 0.15 PS +6-5
62NI 20	3.524	0+			20 0.7 PS +5-2
62NI 21			3.757 3-		21 0.149 PS +34-22
62NI 22				3.849 0+,1+,2+	22
62NI 23				3.860 1+,2+	23 0.277 PS +17-9
62NI 24				3.967 +	24
62NI 25	3.973	2+			25 0.111 PS 35
62NI 26	4.001	4+			26 0.042 PS +28-21
62NI 27				4.011	27 0.90 PS GT
62NI 28				4.019 (6)+	28 0.62 PS 28
62NI 29				4.035 (0:3)+	29
62NI 30	4.055	4+			30 0.042 PS +15-10
62NI 31				4.062 1+,2+	31
62NI 32				4.146 (4+)	32 0.34 PS +21-11
62NI 33				4.151 2+,3+	33 0.034 PS 9
62NI 34				4.154 (4+)	34
62NI 35				4.161 (5-)	35 1.4 PS LT
62NI 36				4.179	36
62NI 37				4.201 (3,4)-	37
62NI 38				4.209	38

62NI	39	4.230	0+					39
62NI	40					4.317	1+,2+	40
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62NI	41					4.393	(1:5)+	41
62NI	42	4.407	2+					42
62NI	43					4.416	1+,2+	43
62NI	44					4.424		44
62NI	45					4.437	(3-)	45
62NI	46					4.455		46
62NI	47					4.503	(3-)	47
62NI	48	4.623	0+					48
62NI	49					4.628	2+,3+	49
62NI	50					4.649	(7-)	50 509 PS 24
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62NI	51			4.655	3-			51
62NI	52					4.704		52
62NI	53	4.712	2+					53
62NI	54					4.720	(3-)	54
62NI	55	4.781	2+					55
62NI	56					4.835		56
62NI	57					4.847	(1:5)(+)	57
62NI	58					4.861	(2+)	58
62NI	59					4.863	5-,6-	59 8.39 PS 14
62NI	60	4.882	4+					60
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62NI	61					4.949		61
62NI	62					4.967		62
62NI	63					4.981	(4+)	63
62NI	64			4.994	3-			64
62NI	65					5.000	1+,2+	65
62NI	66	5.016	4+					66
62NI	67					5.041	(3-:6-)	67
62NI	68					5.071		68
62NI	69					5.121		69
62NI	70					5.148	(2+)	70
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62NI	71					5.154	(2+,4+)	71
62NI	72	5.203	2+					72
62NI	73					5.222		73
62NI	74					5.233		74
62NI	75					5.280		75
62NI	76					5.286	(2+)	76
62NI	77	5.310	2+					77
62NI	78					5.331	(3-)	78
62NI	79	5.355	4+					79
62NI	80					5.393		80
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62NI	81					5.420	(4+)	81
62NI	82	5.447	0+					82
62NI	83					5.465		83

62NI 84						5.488				84
62NI 85						5.511				85
62NI 86		5.530	6+							86
62NI 87		5.541	2+							87
62NI 88						5.545	3-:6-			88
62NI 89						5.565				89
62NI 90		5.574	2+							90
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62NI 91						5.587				91
62NI 92						5.601				92
62NI 93					5.628	3-				93
62NI 94					5.673	5-				94
62NI 95						5.679				95
62NI 96						5.709				96
62NI 97						5.739				97
62NI 98						5.751	(9-)		0.55 PS	21
62NI 99						5.772				99
62NI 100						5.806	(7,8,9)		1.4 PS	LT
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62NI 101						5.808	(3-)			101
62NI 102						5.834	-			102
62NI 103						5.846				103
62NI 104						5.859				104
62NI 105						5.870				105
62NI 106						5.888	(4+)			106
62NI 107						5.901				107
62NI 108		5.912	4+							108
62NI 109		5.930	2+							109
62NI 110						5.961				110
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62NI 111						5.979				111
62NI 112						5.993	(1-,2-)			112
62NI 113						6.023				113
62NI 114						6.026				114
62NI 115						6.047	(3-)			115
62NI 116					6.059	7-				116
62NI 117						6.073				117
62NI 118						6.103	1-:4-			118
62NI 119						6.126				119
62NI 120						6.133				120
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62NI 121						6.143				121
62NI 122						6.160				122
62NI 123						6.170				123
62NI 124						6.253	(4+)			124
62NI 125						6.313	1-:4-			125
62NI 126		6.354	2+							126
62NI 127		6.398	4+							127
62NI 128						6.454				128
62NI 129					6.520	3-				129

62NI 130				6.540	1-,2-	130
62NI 131				6.647	(9-)	131
62NI 132				6.680		132
62NI 133				6.750	1-,2-	133
62NI 134				6.900	(1-,2-)	134
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S-alpha=	7.016	( 0.001)	-----			
62NI 135		7.030	3-			135
62NI 136					7.080	136
62NI 137	7.170	8+				137
62NI 138					7.260	138
62NI 139					7.559	139
62NI 140	7.620	6+			(11-)	140
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62NI 141		7.646	1-			141
62NI 142					7.700	142
62NI 143					7.800	143
62NI 144					8.130	144
62NI 145					8.460	145

S-p = 11.137 ( 0.001)-----  
 S-n = 10.596 ( 0.001)-----  
 S-2p = 19.911 ( 0.003)-----  
 S-2n = 18.416 ( 0.001)-----  
 S-alpha= 7.016 ( 0.001)-----

S+p = -6.122 ( 0.001)  
 S+n = -6.838 ( 0.001)  
 S+2p = -13.836 ( 0.001)  
 S+2n = -16.495 ( 0.001)  
 S+alpha = -4.578 ( 0.001)

gap p = 5.015 ( 0.001)  
 gap n = 3.758 ( 0.001)  
 gap 2p = 6.076 ( 0.004)  
 gap 2n = 1.921 ( 0.001)  
 gap alpha = 2.438 ( 0.001)