

$^{161}\text{Dy}$        $Z = 66$        $N = 95$       adopted link      ENSDF link

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

BE = 1315.903 ( 0.001) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-0.344	( 0.001)	-----		
161DY 1	0.000	5/2+			1 STABLE
161DY 2			0.026	5/2-	2 29.1 NS 3
161DY 3	0.044	7/2+			3 0.83 NS 6
161DY 4			0.075	3/2-	4 3.14 NS 4
161DY 5	0.100	9/2+			5 0.22 NS 3
161DY 6			0.103	7/2-	6 0.60 NS 4
161DY 7			0.132	5/2-	7 0.145 NS 15
161DY 8	0.184	11/2+			8 156 PS 14
161DY 9			0.201	9/2-	9 0.17 NS
161DY 10			0.213	7/2-	10 0.066 NS
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161DY 11	0.267	13/2+			11 100 PS 9
161DY 12			0.315	9/2-	12
161DY 13			0.321	11/2-	13 0.125 NS
161DY 14			0.367	1/2-	14
161DY 15	0.407	15/2+			15 42 PS 5
161DY 16			0.418	3/2-	16
161DY 17			0.443	11/2-	17
161DY 18			0.451	5/2-	18
161DY 19			0.457	13/2-	19
161DY 20			0.486	11/2-	20
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161DY 21	0.508	17/2+			21 33 PS 3
161DY 22				0.512	22
161DY 23				0.521	23
161DY 24				0.534	24
161DY 25	0.550	3/2+			25
161DY 26			0.568	7/2-	26
161DY 27			0.587	13/2-	27
161DY 28	0.608	1/2+			28
161DY 29	0.610	5/2+			29
161DY 30			0.617	15/2-	30
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161DY 31			0.628	9/2-	31
161DY 32	0.633	5/2+			32
161DY 33				0.642 (13/2-)	33
161DY 34				0.642	34
161DY 35	0.678	3/2+			35
161DY 36				0.688	36
161DY 37	0.696	7/2+			37

161DY 38		0.699	3/2+						38
161DY 39						0.717			39
161DY 40		0.718	19/2+						40 11.2 PS 12
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161DY 41		0.731	5/2+						41
161DY 42					0.761	15/2-			42
161DY 43							0.772	5/2+,7/2,9/2+	43
161DY 44		0.773	1/2+						44
161DY 45					0.777	1/2-			45
161DY 46					0.788	17/2-			46
161DY 47					0.791	5/2-			47
161DY 48		0.801	3/2+						48
161DY 49					0.804	3/2-			49
161DY 50							0.808	(11/2-)	50
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161DY 51							0.819	(15/2-)	51
161DY 52		0.826	21/2+						52 10.3 PS 10
161DY 53		0.826	3/2+						53
161DY 54		0.849	5/2+						54
161DY 55							0.858	(7/2)+	55
161DY 56					0.859	3/2-			56
161DY 57					0.868	5/2-			57
161DY 58					0.873	1/2-			58
161DY 59					0.878	7/2-			59
161DY 60		0.899	9/2+						60
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161DY 61							0.922	5/2-,7/2-	61
161DY 62					0.941	17/2-			62
161DY 63							0.942		63
161DY 64					0.957	7/2-			64
161DY 65					0.970	5/2-			65
161DY 66							0.973		66
161DY 67					0.986	19/2-			67
161DY 68					0.988	9/2-			68
161DY 69							1.005	1/2+,3/2+	69
161DY 70							1.017	(17/2-)	70
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161DY 71							1.026		71
161DY 72							1.040		72
161DY 73							1.062	1/2+,3/2+	73
161DY 74							1.067	7/2	74
161DY 75					1.071	3/2-			75
161DY 76		1.098	3/2+						76
161DY 77							1.111		77
161DY 78		1.117	23/2+						78 3.5 PS 4
161DY 79							1.125		79
161DY 80							1.136		80
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161DY 81							1.142		81
161DY 82							1.147		82

161DY 83						1.154	(1/2-,3/2-)	83
161DY 84				1.160		19/2-		84
161DY 85						1.163		85
161DY 86						1.178	5/2,7/2-	86
161DY 87				1.187		5/2-		87
161DY 88				1.187		21/2-		88
161DY 89						1.198		89
161DY 90						1.205		90
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161DY 91				1.207		5/2-		91
161DY 92						1.211		92
161DY 93		1.221		25/2+				93 3.0 PS 6
161DY 94						1.234	(19/2-)	94
161DY 95						1.240		95
161DY 96				1.269		1/2-		96
161DY 97						1.279		97
161DY 98						1.288		98
161DY 99				1.303		3/2-		99
161DY 100						1.313		100
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161DY 101						1.358	1/2-,3/2-	101
161DY 102				1.363		5/2-		102
161DY 103				1.365		21/2-		103
161DY 104				1.379		3/2-		104
161DY 105						1.401	5/2,7/2+	105
161DY 106		1.416		7/2+				106
161DY 107				1.416		23/2-		107
161DY 108						1.436		108
161DY 109				1.446		7/2-		109
161DY 110						1.460		110
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161DY 111						1.470	(21/2-)	111
161DY 112						1.477		112
161DY 113						1.493		113
161DY 114						1.516		114
161DY 115						1.535		115
161DY 116						1.562		116
161DY 117						1.598		117
161DY 118		1.600		27/2+				118
161DY 119				1.626		23/2-		119
161DY 120				1.646		25/2-		120
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161DY 121						1.648		121
161DY 122		1.691		29/2+				122
161DY 123						1.712		123
161DY 124						1.724	(23/2-)	124
161DY 125						1.743		125
161DY 126						1.765		126
161DY 127						1.780		127
161DY 128						1.821		128

161DY 129			1.838	25/2-		129	
161DY 130					1.859	130	
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161DY 131					1.871	131	
161DY 132					1.892	132	
161DY 133			1.897	27/2-		133	
161DY 134					1.921	134	
161DY 135					1.946	135	
161DY 136			1.977	3/2-		136	
161DY 137					1.994	(25/2-)	137
161DY 138					1.996		138
161DY 139			2.039	5/2-		139	
161DY 140					2.113	(7/2-)	140
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161DY 141			2.138	27/2-		141	
161DY 142			2.157	29/2-		142	
161DY 143		2.159	31/2+			143	
161DY 144					2.215	144	
161DY 145					2.230	145	
161DY 146		2.233	33/2+			146	
161DY 147					2.237	3/2,5/2,7/2	147
161DY 148					2.250	3/2,5/2,7/2	148
161DY 149					2.280	(27/2-)	149
161DY 150			2.333	29/2-		150	
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161DY 151					2.346	3/2,5/2,7/2	151
161DY 152			2.413	31/2-		152	
161DY 153					2.576	(29/2-)	153
161DY 154			2.666	31/2-		154	
161DY 155			2.704	33/2-		155	
161DY 156					2.740	3/2,5/2,7/2	156
161DY 157					2.748	3/2,5/2,7/2	157
161DY 158					2.753	3/2,5/2,7/2	158
161DY 159					2.775	3/2,5/2,7/2-	159
161DY 160		2.788	35/2+			160	
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161DY 161					2.812	3/2,5/2,7/2-	161
161DY 162					2.820	3/2+,5/2,7/2	162
161DY 163					2.838	3/2,5/2,7/2-	163
161DY 164		2.839	37/2+			164	
161DY 165					2.849	3/2,5/2,7/2	165
161DY 166			2.849	33/2-		166	
161DY 167					2.864	3/2,5/2,7/2-	167
161DY 168					2.905	5/2+,7/2+	168
161DY 169			2.955	35/2-		169	
161DY 170					2.994	3/2,5/2,7/2	170
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161DY 171					3.113	3/2,5/2,7/2	171
161DY 172					3.155	3/2,5/2,7/2	172
161DY 173			3.272	37/2-		173	

161DY 174		3.480	39/2+					174
161DY 175		3.504	41/2+					175
161DY 176				3.529	39/2-			176
161DY 177						3.644	3/2,5/2,7/2	177
161DY 178				3.867	41/2-			178
161DY 179		4.223	45/2+					179
161DY 180		4.227	43/2+					180
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161DY 181				4.505	45/2-			181
161DY 182		4.989	49/2+					182
161DY 183		5.026	47/2+					183
161DY 184				5.191	49/2-			184
161DY 185		5.799	53/2+					185

S-p = 7.508 ( 0.001)-----  
 S-n = 6.454 ( 0.001)-----  
 S-2p = 14.071 ( 0.001)-----  
 S-2n = 15.031 ( 0.002)-----  
 S-alpha= -0.344 ( 0.001)-----

S+p = -5.274 ( 0.003)  
 S+n = -8.197 ( 0.001)  
 S+2p = -11.690 ( 0.005)  
 S+2n = -14.468 ( 0.001)  
 S+alpha = 1.109 ( 0.001)

gap p = 2.234 ( 0.003)  
 gap n = -1.743 ( 0.001)  
 gap 2p = 2.381 ( 0.005)  
 gap 2n = 0.563 ( 0.002)  
 gap alpha = 0.766 ( 0.002)