

^{155}Dy $Z = 66$ $N = 89$ adopted link ENSDF link

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

BE = 1268.575 (0.010) MeV

Qbeta+ = 2.094 (0.014) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-2.608 (0.010)				
155DY 1			0.000 3/2-		1 9.9 H 2
155DY 2			0.039 5/2-		2 3.34 NS 3
155DY 3			0.087 7/2-		3 1.1 NS 2
155DY 4	0.132	9/2+			4 51 NS 3
155DY 5			0.136 5/2-		5 0.4 NS LT
155DY 6	0.154	13/2+			6
155DY 7			0.202 3/2-		7 0.4 NS LT
155DY 8			0.225 7/2-		8 5 NS LE
155DY 9			0.225 9/2-		9 75 PS 17
155DY 10			0.234 11/2-		10 6 US 1

155DY 11	0.240	3/2+			11 0.7 NS LE
155DY 12	0.248	5/2+			12 1 NS LE
155DY 13	0.321	1/2+			13
155DY 14				0.325 5/2-, (3/2)-	14
155DY 15				0.345 1/2-, 3/2-	15
155DY 16	0.349	5/2+			16
155DY 17				0.351 5/2+, 7/2+	17
155DY 18				0.375 5/2-, 7/2-	18
155DY 19	0.382	17/2+			19 77.6 PS 28
155DY 20				0.383 3/2-, (1/2)-	20

155DY 21				0.409 3/2+, 5/2+	21
155DY 22				0.423 5/2-, 7/2-	22
155DY 23			0.437 13/2-		23 9.3 PS 15
155DY 24				0.440 5/2+, 7/2+	24
155DY 25				0.449 1/2-, 3/2-	25
155DY 26			0.456 5/2-		26
155DY 27	0.484	5/2+			27
155DY 28				0.515 (1/2+)	28
155DY 29				0.547	29
155DY 30				0.558 5/2-, 7/2-	30

155DY 31				0.569 3/2-, 5/2-, 7/2-	31
155DY 32			0.578 13/2-		32
155DY 33				0.594	33
155DY 34	0.645	15/2+			34
155DY 35				0.656 (3/2+, 5/2+)	35
155DY 36			0.658 15/2-		36 4.85 PS 55

155DY 37						0.703				37
155DY 38		0.745	21/2+							38 7.90 PS 21
155DY 39						0.753		3/2+,5/2+		39
155DY 40						0.774		(9/2-,11/2-)		40

155DY 41						0.803				41
155DY 42						0.874		(1/2+)		42
155DY 43		0.892	17/2+							43 8.8 PS 23
155DY 44						0.895		(1/2-,3/2-)		44
155DY 45					0.896	17/2-				45 2.70 PS 42
155DY 46						0.902		3/2+,5/2+		46
155DY 47						0.925				47
155DY 48		1.005	19/2+							48
155DY 49					1.032	17/2-				49 2.70 PS 28
155DY 50						1.033		3/2+,5/2+		50

155DY 51						1.037		5/2-,7/2-		51
155DY 52						1.061				52
155DY 53						1.084		5/2-,7/2-		53
155DY 54						1.119				54
155DY 55						1.145		3/2+,5/2,7/2-		55
155DY 56					1.151	19/2-				56 1.18 PS 28
155DY 57						1.207				57
155DY 58		1.209	25/2+							58 2.36 PS 21
155DY 59						1.218		3/2+,5/2+		59
155DY 60		1.225	21/2+							60 5.48 PS 49

155DY 61						1.295				61
155DY 62						1.325				62
155DY 63					1.419	21/2-				63
155DY 64						1.424		(9/2-,11/2-)		64
155DY 65						1.441		5/2-,7/2-		65
155DY 66		1.462	23/2+							66
155DY 67					1.534	21/2-				67 1.59 PS 28
155DY 68						1.547		(9/2-,11/2-)		68
155DY 69						1.573				69
155DY 70						1.625				70

155DY 71		1.650	25/2+							71 2.91 PS 21
155DY 72						1.688		(11/2-)		72
155DY 73						1.688		23/2		73
155DY 74					1.700	23/2-				74
155DY 75		1.719	23/2+							75
155DY 76						1.731				76
155DY 77		1.753	29/2+							77 1.07 PS 31
155DY 78					1.991	25/2-				78
155DY 79		1.999	27/2+							79
155DY 80					2.012	25/2-				80

155DY 81					2.083	25/2-				81

155DY 82		2.169	29/2+				82	1.46 PS	21
155DY 83					2.292	27/2-	83		
155DY 84		2.358	33/2+				84		
155DY 85					2.476	29/2-	85		
155DY 86					2.600	29/2-	86		
155DY 87		2.602	31/2+				87		
155DY 88					2.688	29/2-	88		
155DY 89		2.784	33/2+				89		
155DY 90					2.911	31/2-	90		

155DY 91					2.990	33/2-	91	1.09 PS	19
155DY 92		3.012	37/2+				92	396 FS	53
155DY 93					3.212	33/2-	93		
155DY 94					3.241	33/2-	94		
155DY 95		3.256	35/2+				95		
155DY 96					3.304	35/2-	96		
155DY 97					3.473	35/2-	97		
155DY 98		3.481	37/2+				98		
155DY 99					3.556	37/2-	99	0.64 PS	12
155DY 100		3.711	41/2+				100	265 FS	20

155DY 101					3.736	37/2-	101		
155DY 102					3.832	37/2-	102		
155DY 103					3.912	39/2-	103		
155DY 104		3.951	39/2+				104		
155DY 105					4.015	39/2-	105		
155DY 106					4.180	41/2-	106	448 FS	45
155DY 107		4.228	41/2+				107		
155DY 108					4.315	41/2-	108		
155DY 109		4.454	45/2+				109	166 FS	25
155DY 110					4.472	41/2-	110		

155DY 111					4.574	43/2-	111		
155DY 112					4.635	43/2-	112		
155DY 113		4.686	43/2+				113		
155DY 114					4.866	45/2-	114	223 FS	32
155DY 115					4.975	45/2-	115		
155DY 116		5.011	45/2+				116		
155DY 117					5.158	45/2-	117		
155DY 118		5.238	49/2+				118	159 FS	31
155DY 119					5.290	47/2-	119		
155DY 120					5.332	47/2-	120		

155DY 121		5.459	47/2+				121		
155DY 122					5.610	49/2-	122	157 FS	24
155DY 123					5.707	49/2-	123		
155DY 124					5.897	49/2-	124		
155DY 125					6.062	51/2-	125		
155DY 126		6.067	53/2+				126	0.13 PS	5
155DY 127					6.099	51/2-	127		

155DY 128		6.272	51/2+		128		
S-p = 6.288 (0.046)-----							
155DY 129				6.405	53/2-	129	128 FS 19
155DY 130				6.506	53/2-	130	

155DY 131				6.685	53/2-	131	
S-n = 6.833 (0.012)-----							
155DY 132				6.892	55/2-	132	
155DY 133				6.929	55/2-	133	
155DY 134		6.943	57/2+			134	0.15 PS 4
155DY 135				7.241	57/2-	135	116 FS 17
155DY 136				7.365	57/2-	136	
155DY 137				7.504	57/2-	137	
155DY 138				7.778	59/2-	138	
155DY 139				7.816	59/2-	139	
155DY 140		7.870	61/2+			140	0.12 PS +76-7

155DY 141				8.110	61/2-	141	110 FS 41
155DY 142				8.280	61/2-	142	
155DY 143				8.696	63/2-	143	
155DY 144				8.757	63/2-	144	
155DY 145		8.849	65/2+			145	0.06 PS +28-3
155DY 146				9.008	65/2-	146	0.12 PS +7-10
155DY 147				9.250	65/2-	147	
155DY 148				9.624	67/2-	148	
155DY 149				9.752	67/2-	149	
155DY 150		9.882	69/2+			150	0.8 PS LE

155DY 151				9.965	69/2-	151	0.15 PS LE

S-p = 6.288 (0.046)-----
S-n = 6.833 (0.012)-----
S-2p = 10.851 (0.010)-----
S-2n = 16.155 (0.010)-----
S-alpha= -2.608 (0.010)-----

S+p = -3.671 (0.040)
S+n = -9.445 (0.010)
S+2p = -8.836 (0.028)
S+2n = -16.411 (0.011)
S+alpha = 2.170 (0.010)

gap p = 2.617 (0.061)
gap n = -2.612 (0.016)
gap 2p = 2.015 (0.030)
gap 2n = -0.256 (0.015)
gap alpha = -0.438 (0.014)