

^{152}Dy $Z = 66$ $N = 86$ adopted link ENSDF link

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

BE = 1245.323 (0.005) MeV

Qbeta+ = 0.599 (0.040) MeV

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

S-alpha=	-3.727	(0.005)	-----		
152DY 1	0.000	0+			1 2.38 H 2
152DY 2	0.614	2+			2 10 PS 5
152DY 3			1.228	3-	3
152DY 4	1.261	4+			4 10.6 PS 16
152DY 5				1.314 (2+)	5
152DY 6				1.448 (2+)	6
152DY 7				1.453 1+,2+	7
152DY 8			1.698	1-	8
152DY 9	1.751	4+			9
152DY 10			1.782	5-	10

152DY 11				1.841 1-,2-,3-	11
152DY 12	1.945	6+			12 5.1 PS 21
152DY 13	2.071	6+			13
152DY 14				2.297 (7)+	14
152DY 15			2.343	7-	15
152DY 16	2.437	8+			16 10 PS 3
152DY 17	2.703	8+			17
152DY 18				2.727 (8)-	18
152DY 19			2.906	9-	19
152DY 20				2.930 (7)-	20

152DY 21			3.150	8-	21
152DY 22				3.161 (10)-	22 3.9 NS 9
152DY 23				3.173 (10-)	23
152DY 24	3.173	10+			24
152DY 25	3.184	10+			25
152DY 26			3.228	8-	26
152DY 27				3.244 (9)+	27
152DY 28	3.395	10+			28
152DY 29				3.487 (11-)	29
152DY 30				3.535 8-,9-	30

152DY 31	3.820	12+			31
152DY 32				3.969 (12-)	32
152DY 33				3.992 (12-)	33
152DY 34	4.016	8+			34
152DY 35	4.017	12+			35
152DY 36				4.126 (13-)	36


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152DY 81 |           |           | 9.118 (24-)      81
152DY 82 |           |           | 9.180 (26+:30+)  82
152DY 83 | 9.399   30+ |           |           | 83 7 PS      1
S-n    = 9.437 ( 0.006)-----
152DY 84 | 9.523   28+ |           |           | 84 0.168 PS 14
152DY 85 |           |           | 9.688 (27-)      85

S-p    = 5.783 ( 0.006)-----
S-n    = 9.437 ( 0.006)-----
S-2p   = 8.932 ( 0.008)-----
S-2n   = 16.951 ( 0.006)-----
S-alpha= -3.727 ( 0.005)-----

S+p    = -2.183 ( 0.007)
S+n    = -7.097 ( 0.006)
S+2p   = -7.065 ( 0.007)
S+2n   = -16.419 ( 0.009)
S+alpha = 3.481 ( 0.025)

gap p   = 3.600 ( 0.009)
gap n   = 2.340 ( 0.008)
gap 2p  = 1.867 ( 0.010)
gap 2n  = 0.532 ( 0.011)
gap alpha = -0.245 ( 0.026)

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