

^{166}Dy $Z = 66$ $N = 100$ adopted link ENSDF link

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

BE = 1350.788 (0.001) MeV

Qbeta- = 0.486 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
166DY 1	0.000	0+			1 81.6 H 1
166DY 2	0.077	2+			2
166DY 3	0.254	4+			3
166DY 4	0.527	6+			4

S-alpha=	0.729 (0.004)				
166DY 5				0.857 (2)+	5
166DY 6	0.892	8+			6
166DY 7				0.929 (3)+	7
166DY 8				1.023 (4)+	8
166DY 9				1.030 (2-)	9
166DY 10				1.095 (3-)	10

166DY 11				1.141 (5+)	11
166DY 12	1.149	0+			12
166DY 13				1.181 (4-)	13
166DY 14				1.189 (2+,3,4-)	14
166DY 15				1.208 (2+)	15
166DY 16				1.274	16
166DY 17				1.334	17
166DY 18	1.341	10+			18
166DY 19				1.351	19
166DY 20				1.515	20

166DY 21				1.556	21
166DY 22				1.616	22
166DY 23				1.645	23
166DY 24				1.674	24
166DY 25				1.770	25
166DY 26				1.864	26
166DY 27	1.868	12+			27
166DY 28				1.891	28
166DY 29				2.029	29
166DY 30				2.048	30

166DY 31				2.070 (LE3-)	31
166DY 32				2.120	32
166DY 33				2.183	33
166DY 34				2.252	34
166DY 35				2.311	35
166DY 36				2.383	36

166DY	37		2.467		14+							37
166DY	38								3.119	(16+)		38

S-p = 9.285 (0.002)-----
 S-n = 7.043 (0.001)-----
 S-2p = 17.469 (0.001)-----
 S-2n = 12.759 (0.001)-----
 S-alpha= 0.729 (0.004)-----

S+p = -6.984 (0.005)
 S+n = -5.398 (0.004)
 S+2p = -14.983 (0.001)
 S+2n = -12.117 (0.140)
 S+alpha = 0.052 (0.002)

gap p = 2.301 (0.006)
 gap n = 1.645 (0.004)
 gap 2p = 2.486 (0.002)
 gap 2n = 0.643 (0.140)
 gap alpha = 0.781 (0.004)