

^{149}Dy $Z = 66$ $N = 83$ adopted link ENSDF link

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

BE = 1218.686 (0.009) MeV

Qbeta+ = 3.795 (0.010) MeV

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

S-alpha=	-2.808	(0.022)	-----		
149DY 1				0.000 (7/2-)	1 4.20 M 14
149DY 2				1.035 (3/2-)	2
149DY 3				1.073 (13/2+)	3 12.5 NS 15
149DY 4				1.091 (9/2-)	4
149DY 5				1.407 (1/2+)	5
149DY 6				1.501 (3/2+)	6
149DY 7				1.573 (3/2+)	7
149DY 8				1.584 (11/2-)	8
149DY 9				1.626 (5/2+)	9
149DY 10				1.663 (9/2+)	10

149DY 11				1.704 (11/2+)	11
149DY 12				1.713 (9/2-)	12
149DY 13				1.727 (1/2-)	13
149DY 14				1.776 (1/2+)	14
149DY 15				1.782 (7/2)	15
149DY 16				2.166 (9/2+, 11/2+, 13/2)	16+)
149DY 17				2.252 (17/2+)	17
149DY 18				2.292	18
149DY 19				2.312	19
149DY 20				2.321	20

149DY 21				2.358	21
149DY 22				2.402	22
149DY 23				2.409	23
149DY 24				2.466	24
149DY 25				2.487	25
149DY 26				2.550 (21/2+)	26
149DY 27				2.607	27
149DY 28				2.661 (27/2-)	28 0.490 S 15
149DY 29				2.718	29
149DY 30				2.729	30

149DY 31				2.771 (1/2+, 3/2+)	31
149DY 32				2.789 (1/2+, 3/2+)	32
149DY 33				2.789	33
149DY 34				2.827	34
149DY 35				2.883	35
149DY 36				2.938 (1/2+, 3/2+)	36

149DY 37				2.980		37
149DY 38				3.014		38
149DY 39				3.050		39
149DY 40				3.079		40

149DY 41				3.130		41
149DY 42				3.180		42
149DY 43				3.203		43
149DY 44				3.313		44
149DY 45				3.349		45
149DY 46				3.363		46
149DY 47				3.490		47
149DY 48				3.646	(29/2+)	48
149DY 49				3.886	(31/2+)	49
149DY 50				4.085	(33/2+)	50

S-p	=	4.446	(0.015)	-----		
149DY 51				5.223	(35/2+)	51
149DY 52				5.478	(37/2+)	52
149DY 53				5.748	(39/2+)	53
149DY 54				5.930		54
149DY 55				6.178	(41/2+)	55
149DY 56				6.329		56
149DY 57				6.669		57
149DY 58				6.679		58
149DY 59				6.892		59
S-2p	=	6.915	(0.009)	-----		
149DY 60				7.157	(41/2+)	60

149DY 61				7.242		61
149DY 62				7.411	(43/2+)	62
S-n	=	7.906	(0.013)	-----		
149DY 63				8.045		63
149DY 64				8.271		64
149DY 65				8.521	(49/2+)	65 28 NS 2
149DY 66				9.116	(51/2)	66
149DY 67				9.410	(53/2)	67
149DY 68				9.783	(53/2)	68

S-p	=	4.446	(0.015)	-----		
S-n	=	7.906	(0.013)	-----		
S-2p	=	6.915	(0.009)	-----		
S-2n	=	19.641	(0.013)	-----		
S-alpha	=	-2.808	(0.022)	-----		

S+p	=	-1.541	(0.017)			
S+n	=	-9.687	(0.010)			
S+2p	=	-5.150	(0.019)			
S+2n	=	-17.201	(0.010)			

S+alpha = 4.802 (0.013)

gap p = 2.905 (0.023)

gap n = -1.781 (0.016)

gap 2p = 1.765 (0.021)

gap 2n = 2.440 (0.016)

gap alpha = 1.995 (0.025)