

^{148}Dy $Z = 66$ $N = 82$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 1210.780 (0.009) MeV

Qbeta+ = 2.677 (0.015) MeV

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

S-alpha=	-1.475	(0.029)	-----		

148DY 1	0.000	0+			1 3.3 M 2
148DY 2	1.677	2+			2
148DY 3			1.688	3-	3
148DY 4			2.348	5-	4
148DY 5	2.427	4+			5
148DY 6	2.731	6+			6
148DY 7			2.738	7-	7
148DY 8	2.832	8+			8 65 NS 10
148DY 9				2.854 (5,6)-	9
148DY 10	2.919	10+			10 471 NS 20

148DY 11				2.970 (5,6,7)-	11
148DY 12			2.995	(4)-	12
148DY 13				3.115 (6,7)-	13
148DY 14				3.172 (5,6,7)-	14
148DY 15				3.189 (5,6,7)-	15
148DY 16			3.280	(6)-	16
148DY 17			3.323	(6)-	17
148DY 18			3.328	(5)-	18
148DY 19			3.405	(8)-	19
148DY 20				3.756 (5,6,7)-	20

148DY 21			3.981	(11-)	21
148DY 22				4.290 (5,6,7)-	22
148DY 23				4.393 (5,6,7)-	23
S-p	4.406	(0.012)	-----		

148DY 24				4.460 (5,6,7)-	24
148DY 25			4.477	(12-)	25
148DY 26				4.634 (5,6,7)-	26
148DY 27				4.762 (5,6,7)-	27
148DY 28	4.851	(12+)			28
148DY 29				5.055 (5,6,7)-	29
148DY 30				5.261 (5,6,7)-	30

148DY 31				5.270 (13)	31
148DY 32	5.411	(14+)			32
148DY 33			5.523	(14-)	33
148DY 34			5.772	(15-)	34

148DY	35				5.985	(16-)			35
148DY	36				6.265	(17-)			36
S-2p	=	6.352	(0.010)	-----					
148DY	37							6.592 (18)	37
148DY	38							6.601	38
148DY	39				7.116	(17-)			39
148DY	40		7.435	(18+)					40
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148DY	41							8.198 (19)	41
148DY	42							8.532 (20)	42
148DY	43							8.785	43
148DY	44							9.017	44
148DY	45							9.170	45
148DY	46							9.290 (21)	46
148DY	47							9.704	47
148DY	48							10.058	48
148DY	49							10.103	49
148DY	50							10.111 (23)	50
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148DY	51							10.456	51
148DY	52							10.934	52
S-n	=	11.735	(0.012)	-----					
148DY	53							11.816	53
148DY	54							12.537	54
148DY	55							12.651	55
148DY	56							13.220	56
148DY	57							14.235	57
S-p	=	4.406	(0.012)	-----					
S-n	=	11.735	(0.012)	-----					
S-2p	=	6.352	(0.010)	-----					
S-2n	=	21.447	(0.011)	-----					
S-alpha	=	-1.475	(0.029)	-----					
S+p	=	-1.075	(0.015)						
S+n	=	-7.906	(0.013)						
S+2p	=	-4.550	(0.019)						
S+2n	=	-17.593	(0.010)						
S+alpha	=	4.934	(0.012)						
gap p	=	3.330	(0.019)						
gap n	=	3.829	(0.018)						
gap 2p	=	1.802	(0.022)						
gap 2n	=	3.854	(0.015)						
gap alpha	=	3.459	(0.032)						