

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

Based on ENSDF from Oct 2022, 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
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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
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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
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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
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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

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)