

$^{147}\text{Dy}$        $Z = 66$        $N = 81$       adopted link      ENSDF link

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

BE = 1199.045 ( 0.009) MeV

Qbeta+ = 6.547 ( 0.012) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-1.610	( 0.200)	-----		
147DY 1				0.000 (1/2+)	1 67 S 7
147DY 2				0.072 (3/2+)	2
147DY 3				0.751 (11/2-)	3 55.2 S 5
147DY 4				0.956 (5/2+)	4
147DY 5				1.145 (7/2-)	5
147DY 6				1.336 (7/2+)	6
147DY 7				1.632 (9/2-,11/2-)	7
147DY 8				1.781	8
147DY 9				1.925 (9/2-)	9
147DY 10				2.063	10
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147DY 11				2.404 (15/2-)	11
147DY 12				2.462 (15/2+)	12
147DY 13				2.659 (17/2+)	13
147DY 14				2.681 (19/2+)	14 7 NS 1
147DY 15				2.693 (21/2+)	15
147DY 16				2.938 (21/2+)	16
147DY 17				3.081 (19/2-)	17
147DY 18				3.325 (23/2-)	18
147DY 19				3.407 (27/2-)	19 0.40 US 1
147DY 20				3.558	20
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147DY 21				3.651 (27/2-)	21 16 NS 3
147DY 22				0.000 (1/2+)	22 67 S 7

S-p = 3.721 ( 0.046)-----

S-n = 9.712 ( 0.011)-----

S-2p = 5.847 ( 0.022)-----

S-2n = 22.096 ( 0.011)-----

S-alpha= -1.610 ( 0.200)-----

S+p = -1.084 ( 0.084)

S+n = -11.735 ( 0.012)

S+2p = -4.123 ( 0.029)

S+2n = -19.641 ( 0.013)

S+alpha = 3.505 ( 0.019)

gap p = 2.637 ( 0.096)

gap n = -2.022 ( 0.017)  
gap 2p = 1.724 ( 0.036)  
gap 2n = 2.456 ( 0.017)  
gap alpha = 1.895 ( 0.201)