

$^{149}\text{Pr}$        $Z = 59$        $N = 90$       adopted link      ENSDF link

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

BE = 1227.507 ( 0.010) MeV

Qbeta- = 3.336 ( 0.010) MeV

	Energy T	J+	J-	J-other	T1/2
149PR 1				0.000 (5/2+)	1 2.26 M 7
149PR 2				0.040	2
149PR 3				0.058	3
149PR 4				0.058 (11/2-)	4 22.9 NS 18
149PR 5				0.086	5
149PR 6				0.162 (15/2-)	6
149PR 7				0.220	7
149PR 8				0.260	8
149PR 9				0.380	9
149PR 10				0.382 (19/2-)	10
149PR 11				0.440	11
149PR 12				0.550	12
149PR 13				0.590	13
S-alpha=	0.629 ( 0.016)				
149PR 14				0.660	14
149PR 15				0.713 (23/2-)	15
149PR 16				0.864	16
149PR 17				0.893	17
149PR 18				0.980	18
149PR 19				1.129 (27/2-)	19
149PR 20				1.609 (31/2-)	20
149PR 21				2.131 (35/2-)	21
149PR 22				2.666 (39/2-)	22
149PR 23				3.186 (43/2-)	23

S-p = 7.930 ( 0.015)

S-n = 6.575 ( 0.018)

S-2p = 18.939 ( 0.015)

S-2n = 11.738 ( 0.019)

S-alpha= 0.629 ( 0.016)

S+p = -9.930 ( 0.010)

S+n = -5.333 ( 0.013)

S+2p = -16.925 ( 0.011)

S+2n = -11.883 ( 0.015)

S+alpha = -2.034 ( 0.013)

gap p = -2.000 ( 0.018)  
gap n = 1.243 ( 0.022)  
gap 2p = 2.014 ( 0.018)  
gap 2n = -0.145 ( 0.024)  
gap alpha = -1.405 ( 0.021)