

$^{117}\text{Pd}$        $Z = 46$        $N = 71$       adopted link      ENSDF link

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

BE = 984.780 ( 0.007) MeV

Qbeta- = 5.758 ( 0.015) MeV

	Energy T	J+	J-	J-other	T1/2
117PD 1				0.000 (5/2+)	1 4.3 S 3
117PD 2				0.035 (7/2+)	2
117PD 3				0.132 (7/2+)	3
117PD 4				0.203 (11/2-)	4 19.1 MS 7
117PD 5				0.641 (15/2-)	5
117PD 6				1.259 (19/2-)	6
117PD 7				2.027 (23/2-)	7
117PD 8				2.891 (27/2-)	8
117PD 9				3.053	9
117PD 10				3.221	10
117PD 11				3.292	11
117PD 12				3.499	12
117PD 13				3.739 (31/2-)	13
117PD 14				3.794	14
117PD 15				3.843	15
117PD 16				3.886	16

S-p = 12.977 ( 0.074)-----

S-n = 4.664 ( 0.010)-----

S-2p = 24.896 ( 0.026)-----

S-2n = 12.141 ( 0.015)-----

S-alpha= 6.981 ( 0.039)-----

S+p = -10.419 ( 0.008)

S+n = -7.036 ( 0.008)

S+2p = -22.131 ( 0.038)

S+2n = -11.126 ( 0.011)

S+alpha = -7.075 ( 0.008)

gap p = 2.558 ( 0.075)

gap n = -2.372 ( 0.013)

gap 2p = 2.765 ( 0.046)

gap 2n = 1.015 ( 0.019)

gap alpha = -0.094 ( 0.040)