

⁹⁹Pd Z = 46 N = 53 adopted link ENSDF link

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

BE = 845.255 (0.005) MeV

Qbeta+ = 3.402 (0.020) MeV

	Energy T	J+	J-	J-other	T1/2
99PD 1				0.000 (5/2)+	1 21.4 M 2
99PD 2				0.220 (3/2)+	2
99PD 3				0.264 (7/2)+	3
99PD 4				0.464 (3/2+)	4
99PD 5				0.555 (5/2,7/2+)	5
99PD 6				0.687 (5/2+)	6
99PD 7				0.815 (7/2)+	7
99PD 8				0.816 (7/2+)	8
99PD 9				0.832 (9/2)+	9
99PD 10				1.070 (11/2)+	10
99PD 11				1.103 (9/2)+	11
S-alpha=	1.150 (0.011)				
99PD 12				1.183 (3/2,5/2)+	12
99PD 13				1.420	13
99PD 14				1.424 (5/2-,7/2,9/2+)	14
99PD 15				1.468 (11/2)+	15
99PD 16				1.540 (9/2)+	16
99PD 17				1.650 (13/2)+	17
99PD 18				1.697 (9/2+)	18
99PD 19				1.719 (15/2)+	19
99PD 20				1.850 (7/2,9/2+)	20
99PD 21				1.854 (9/2+)	21
99PD 22				1.912 (7/2,9/2,11/2)	22
99PD 23				2.007 (7/2,9/2)	23
99PD 24				2.018 (11/2-)	24
99PD 25				2.062	25
99PD 26				2.138 (7/2+,9/2+,11/2+)	26
99PD 27				2.145 (11/2)	27
99PD 28				2.172 (7/2+,9/2+,11/2+)	28
99PD 29				2.193 (15/2+)	29
99PD 30				2.206 (15/2+)	30
99PD 31				2.240 (7/2,9/2,11/2+)	31
99PD 32				2.264 (7/2,9/2+)	32
99PD 33				2.269 (7/2+)	33
99PD 34				2.333 (7/2,9/2,11/2+)	34
99PD 35				2.422 (17/2+)	35
99PD 36				2.427 (13/2+)	36

99PD 37				2.486	(7/2+,9/2+,11/2+	37)			
99PD 38				2.509	(17/2+)	38			
99PD 39				2.601	(19/2+)	39			
99PD 40				2.602	(7/2+,9/2+,11/2+	40)			

99PD 41				2.635	(21/2+)	41			
99PD 42				2.707	(15/2-)	42			
99PD 43				3.210	(7/2+,9/2+,11/2+	43)			
99PD 44				3.326	(21/2+)	44			
99PD 45				3.328	(21/2+)	45			
99PD 46				3.340	(23/2+)	46			
99PD 47				3.396	(19/2-)	47			
99PD 48				3.446	(7/2+,9/2+,11/2+	48)			
99PD 49				3.517	(17/2+)	49			
99PD 50				3.547	(25/2+)	50			

99PD 51				3.594	(7/2+,9/2+,11/2+	51)			
99PD 52				3.936	(25/2+)	52			
99PD 53				4.015	(23/2-)	53			
99PD 54				4.040	(27/2+)	54	4 NS		LT
99PD 55				4.760	(29/2+)	55			
99PD 56				4.773	(27/2-)	56			
99PD 57				5.016	(29/2+)	57			
99PD 58				5.332	(31/2+)	58			
99PD 59				5.511	(33/2+)	59			
99PD 60				5.781	(31/2-)	60			

S-p	=	6.297	(0.013)	-----				
99PD 61				6.541	(35/2+)	61			
99PD 62				6.599		62			
99PD 63				6.804	(35/2-)	63			
99PD 64				7.075	(37/2+)	64			
99PD 65				7.125		65			
99PD 66				7.300	(37/2+)	66			
99PD 67				7.915		67			
99PD 68				8.011	(39/2+)	68			
99PD 69				8.183	(39/2-)	69			
99PD 70				8.455		70			

S-n	=	8.933	(0.007)	-----				
99PD 71				9.413	(43/2-)	71			
99PD 72				9.514	(43/2)	72			
99PD 73				9.844	(45/2)	73			
99PD 74				9.981		74			

S-p	=	6.297	(0.013)	-----				
S-n	=	8.933	(0.007)	-----				
S-2p	=	10.640	(0.006)	-----				
S-2n	=	20.520	(0.007)	-----				

S-alpha= 1.150 (0.011)-----

S+p = -3.244 (0.007)

S+n = -11.101 (0.018)

S+2p = -8.231 (0.005)

S+2n = -19.392 (0.007)

S+alpha = -0.894 (0.005)

gap p = 3.053 (0.015)

gap n = -2.168 (0.020)

gap 2p = 2.409 (0.008)

gap 2n = 1.128 (0.010)

gap alpha = 0.256 (0.012)