

^{100}Pd $Z = 46$ $N = 54$ adopted link ENSDF link

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

BE = 856.357 (0.018) MeV

Qbeta+ = 0.378 (0.025) MeV

	Energy T	J+	J-	J-other	T1/2
100PD 1	0.000	0+			1 3.63 D 9
100PD 2	0.665	2+			2 6.24 PS 28
100PD 3	1.416	4+			3 2.50 PS 21
100PD 4				1.524 (1,2+)	4
S-alpha= 1.557 (0.018)					
100PD 5				1.588 2(+)	5
100PD 6				1.926 3(+)	6
100PD 7				2.055 (4-)	7
100PD 8	2.189	6+			8 2.56 PS 35
100PD 9				2.278 5(+)	9
100PD 10				2.351 (4+)	10
100PD 11				2.359 (2+)	11
100PD 12				2.431 4	12
100PD 13				2.470 6(+)	13
100PD 14			2.505 5-		14 13.97 PS 35
100PD 15				2.519 (0+:4+)	15
100PD 16				2.532 (2+)	16
100PD 17				2.617 (0+:4+)	17
100PD 18				2.622 (1-:4+)	18
100PD 19				2.679 (0+:4+)	19
100PD 20				2.694 (4)	20
100PD 21				2.784 (1+,2+,3+)	21
100PD 22				2.821 (4)	22
100PD 23				2.880 (4+)	23
100PD 24				2.887 (4+,5,6+)	24
100PD 25				2.920 (4)+	25
100PD 26				2.939 (2+:6+)	26
100PD 27				2.977 (0+:4+)	27
100PD 28	2.988	8+			28 3.47 PS 28
100PD 29				3.022 (6-)	29
100PD 30				3.080 (4+,5+,6+)	30
100PD 31	3.178	8+			31 0.9 NS 2
100PD 32			3.231 7-		32
100PD 33				3.236 (2+,3+)	33
100PD 34				3.297 (6+)	34
100PD 35				3.312 (4,5,6)	35
100PD 36				3.372 (2+:6+)	36

100PD 37						3.440	8(+)	37
100PD 38						3.468	(2:6)	38
100PD 39						3.548	(2:6)	39
100PD 40						3.622	(4+:8+)	40

100PD 41						3.647	(3-:7-)	41
100PD 42						3.823	(4,5,6)	42
100PD 43		3.869		10+				43 1.94 PS 42
100PD 44						3.879	8(-)	44
100PD 45				4.054		9-		45
100PD 46						4.093	9(-)	46
100PD 47						4.146	10(+)	47
100PD 48						4.635	(10-)	48
100PD 49		4.762		12+				49 3.60 PS 28
100PD 50						4.779	11(+)	50

100PD 51				4.864		11-		51
100PD 52						4.926	12(+)	52
100PD 53						4.947	(11-)	53
100PD 54						5.078	12(+)	54
100PD 55		5.453		13+				55
100PD 56						5.574	(12-)	56
100PD 57				5.669		13-		57
100PD 58		5.707		14+				58
100PD 59						5.880	(11,12,13+)	59
100PD 60		5.919		14+				60

100PD 61						6.069	(13-)	61
100PD 62						6.134	(14+)	62
100PD 63						6.459	(15)+	63
100PD 64						6.689	(14-)	64
100PD 65				6.705		15-		65 0.90 PS 10

S-p	=	6.917	(0.026)	-----			
100PD 66						6.938	(16)+	66
100PD 67						7.086	(16+)	67
100PD 68						7.275	(16+)	68
100PD 69						7.342	(16+)	69
100PD 70						7.645	(17)-	70 0.55 PS 7

100PD 71						7.835	(17+)	71
100PD 72						7.970	(18+)	72
100PD 73						8.304	(18+)	73
100PD 74						8.565	(19-)	74
100PD 75						8.716	(19)-	75 0.42 PS 5
100PD 76						9.389	(20+)	76
100PD 77						9.689	(20+)	77
100PD 78						9.871	(20-)	78

S-p = 6.917 (0.026)-----

S-n = 11.101 (0.018)-----
S-2p = 11.566 (0.019)-----
S-2n = 20.034 (0.018)-----
S-alpha= 1.557 (0.018)-----

S+p = -3.411 (0.018)
S+n = -8.291 (0.018)
S+2p = -9.025 (0.018)
S+2n = -18.833 (0.018)
S+alpha = -1.181 (0.018)

gap p = 3.506 (0.032)
gap n = 2.810 (0.026)
gap 2p = 2.541 (0.026)
gap 2n = 1.201 (0.025)
gap alpha = 0.377 (0.025)