

^{103}Pd $Z = 46$ $N = 57$ adopted link ENSDF link

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

BE = 882.815 (0.001) MeV

Qbeta+ = 0.575 (0.002) MeV

	Energy T	J+		J-		J-other		T1/2
103PD 1	0.000	5/2+						1 16.991 D 19
103PD 2	0.119	3/2+						2 0.70 NS 3
103PD 3	0.244	7/2+						3
103PD 4	0.267	5/2+						4
103PD 5						0.499	(1/2+)	5
103PD 6						0.504	(3/2)+	6
103PD 7	0.532	7/2+						7
103PD 8						0.535	3/2+,5/2+	8
103PD 9						0.626	3/2+,5/2+	9
103PD 10	0.699	5/2+						10

103PD 11	0.718	9/2+						11
103PD 12	0.727	1/2+						12
103PD 13				0.785	11/2-			13 25 NS 2
103PD 14						0.815	3/2+,5/2+	14
103PD 15						0.885	3/2+,5/2+	15
103PD 16	0.900	9/2+						16
103PD 17	0.904	11/2+						17
103PD 18						0.913	3/2-,5/2-,7/2-	18
103PD 19						1.044	3/2+,5/2+	19
103PD 20						1.069	(3/2+,5/2+)	20

103PD 21						1.155	(3/2,5/2)+	21
103PD 22						1.183	(5/2)+	22
103PD 23				1.262	15/2-			23
103PD 24						1.274	(5/2)+	24 52 FS +10-7
103PD 25	1.277	5/2+						25 45 FS +10-7
103PD 26						1.280	(11/2)-	26
103PD 27						1.309	(9/2)+	27
103PD 28	1.329	11/2+						28
103PD 29						1.386	(5/2)	29 24 FS +7-4
103PD 30	1.527	13/2+						30

103PD 31						1.547	(5/2+,7/2+)	31
103PD 32						1.570	3/2+,5/2+	32
103PD 33	1.581	5/2+						33 42 FS +10-7
103PD 34						1.592	(5/2+,7/2,9/2+)	34 194 FS +62-42
103PD 35						1.595		35
103PD 36						1.605	5/2	36 55 FS +14-7
103PD 37	1.641	1/2+						37

103PD 38						1.676				38		
103PD 39						1.679	(7/2)			39	14 FS	+4-3
103PD 40						1.690	(3/2+,5/2,7/2+)			40		

103PD 41						1.750	3/2+,5/2+			41		
103PD 42						1.776	(5/2+)			42	97 FS	+17-10
103PD 43		1.777		15/2+						43		
103PD 44						1.781				44		
103PD 45		1.820		1/2+						45		
103PD 46						1.833	3/2+,5/2+			46		
103PD 47						1.886				47		
103PD 48						1.900	1/2-,3/2-			48		
103PD 49						1.954	(5/2)			49	48 FS	+10-7
103PD 50						1.964	7/2			50	73 FS	+17-14

103PD 51						1.975	19/2-			51		
103PD 52						2.100	1/2-,3/2-			52		
103PD 53		2.178		15/2+						53		
103PD 54						2.180	1/2-,3/2-			54		
103PD 55						2.234	(5/2+)			55	21 FS	+5-4

S-alpha=		2.257 (0.001)										
103PD 56						2.275	7/2+,9/2+			56		
103PD 57						2.343	5/2+,7/2+,9/2+			57		
103PD 58						2.408	5/2+,7/2+,9/2+			58		
103PD 59						2.418	5/2+,7/2+,9/2+			59		
103PD 60						2.447	5/2+,7/2+,9/2+			60		

103PD 61						2.465	5/2+,7/2+,9/2+			61		
103PD 62		2.468		17/2+						62		
103PD 63						2.487	7/2+,9/2+			63		
103PD 64						2.511	5/2+,7/2+,9/2+			64		
103PD 65						2.600	7/2+,9/2+			65		
103PD 66						2.601	(15/2+)			66		
103PD 67						2.660	7/2+,9/2+			67		
103PD 68						2.760	1/2-,3/2-			68		
103PD 69		2.764		19/2+						69		
103PD 70						2.822	23/2-			70		

103PD 71						2.834	(17/2)+			71		
103PD 72						2.880	1/2-,3/2-			72		
103PD 73						2.924				73		
103PD 74						3.020	(21/2)+			74		
103PD 75						3.071	(19/2+)			75		
103PD 76						3.382	(21/2)+			76		
103PD 77						3.714	(23/2+)			77		
103PD 78						3.792	27/2-			78		
103PD 79		4.056		25/2+						79		
103PD 80						4.160	(25/2)+			80		

103PD 81						4.587	(27/2+)			81		

103PD 82			4.886	31/2-		82
103PD 83					5.025 (29/2)+	83
103PD 84					5.458 (31/2+)	84
103PD 85					5.983 (33/2)+	85
103PD 86			6.048	35/2-		86
103PD 87					6.452 (35/2+)	87
103PD 88					7.056 (37/2+)	88
103PD 89			7.316	39/2-		89
103PD 90					7.593 (39/2+)	90

S-p = 7.963 (0.006)-----
S-n = 7.625 (0.001)-----

103PD 91					8.212 (41/2)+	91
103PD 92			8.668	43/2-		92
103PD 93					8.831 (43/2+)	93
103PD 94					9.442 (45/2)+	94

S-p = 7.963 (0.006)-----
S-n = 7.625 (0.001)-----
S-2p = 14.077 (0.001)-----
S-2n = 18.167 (0.005)-----
S-alpha= 2.257 (0.001)-----

S+p = -4.948 (0.004)
S+n = -10.009 (0.002)
S+2p = -11.455 (0.002)
S+2n = -17.104 (0.001)
S+alpha = -1.958 (0.002)

gap p = 3.014 (0.008)
gap n = -2.384 (0.002)
gap 2p = 2.622 (0.002)
gap 2n = 1.064 (0.005)
gap alpha = 0.298 (0.002)