

$^{111}\text{Pd}$        $Z = 46$        $N = 65$       adopted link      ENSDF link

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

BE = 945.914 ( 0.001) MeV

Qbeta- = 2.230 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2
111PD 1	0.000	5/2+			1 23.4 M 2
111PD 2	0.072	1/2+			2
111PD 3			0.172	11/2-	3 5.5 H 1
111PD 4				0.191 +	4
111PD 5				0.195 +	5
111PD 6				0.231 7/2+,9/2+	6
111PD 7				0.259	7
111PD 8				0.275 (3/2+,5/2+)	8
111PD 9				0.384 3/2+,5/2+	9
111PD 10				0.412 7/2+,9/2+	10
111PD 11				0.450 3/2-,5/2-,7/2-	11
111PD 12	0.508	1/2+			12
111PD 13				0.524	13
111PD 14				0.534 5/2-,7/2-	14
111PD 15				0.567 (7/2+,9/2+)	15
111PD 16				0.585 (15/2-)	16
111PD 17				0.587 1/2-,3/2-	17
111PD 18				0.603	18
111PD 19				0.664 3/2+,5/2+	19
111PD 20				0.715 3/2+,5/2+	20
111PD 21				0.740 3/2+,5/2+	21
111PD 22				0.789	22
111PD 23				0.866	23
111PD 24				0.887 (7/2+,9/2+)	24
111PD 25	0.929	1/2+			25
111PD 26				1.000 1/2-,3/2-	26
111PD 27				1.020	27
111PD 28				1.083	28
111PD 29				1.090	29
111PD 30				1.117 (1/2+)	30
111PD 31				1.133 -	31
111PD 32				1.204 (19/2-)	32
111PD 33				1.207	33
111PD 34				1.356 (1/2-,3/2-)	34
111PD 35				1.453 (5/2-,7/2-)	35
111PD 36	1.493	1/2+			36
111PD 37				1.521 1/2-,3/2-	37

111PD	38				1.600	1/2-,3/2-	38
111PD	39				1.624	5/2-,7/2-	39
111PD	40				1.673	5/2-,7/2-	40
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111PD	41				1.713	1/2-,3/2-	41
111PD	42				1.808	5/2-,7/2-	42
111PD	43				1.928	(1/2-,3/2-)	43
111PD	44				1.981	(23/2-)	44
111PD	45				2.018	5/2-,7/2-	45
111PD	46				2.878	(27/2-)	46
111PD	47				3.831	(31/2-)	47

S-p = 10.446 ( 0.018)-----  
 S-n = 5.726 ( 0.001)-----  
 S-2p = 19.825 ( 0.009)-----  
 S-2n = 14.522 ( 0.001)-----  
 S-alpha= 4.548 ( 0.009)-----

S+p = -7.887 ( 0.003)  
 S+n = -8.406 ( 0.007)  
 S+2p = -17.635 ( 0.001)  
 S+2n = -13.747 ( 0.007)  
 S+alpha = -4.524 ( 0.001)

gap p = 2.559 ( 0.018)  
 gap n = -2.680 ( 0.007)  
 gap 2p = 2.190 ( 0.009)  
 gap 2n = 0.775 ( 0.007)  
 gap alpha = 0.025 ( 0.009)