

$^{104}\text{Pd}$        $Z = 46$        $N = 58$       adopted link      ENSDF link

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

BE = 892.824 ( 0.001) MeV

	Energy T	J+	J-	J-other	T1/2
104PD 1	0.000	0+			1 STABLE
104PD 2	0.556	2+			2 9.9 PS 5
104PD 3	1.324	4+			3 1.5 PS 2
104PD 4	1.334	0+			4 5.2 PS 5
104PD 5	1.342	2+			5 1.60 PS 4
104PD 6	1.793	0+			6 0.25 PS LT
104PD 7	1.794	2+			7 1.4 PS LT
104PD 8	1.821	3+			8
104PD 9				1.941	9
104PD 10				1.948	10
104PD 11				1.999 (1,2)	11
104PD 12				2.070	12
104PD 13	2.082	4+			13 1.2 PS 12
104PD 14	2.103	0+			14
104PD 15				2.125	15
104PD 16	2.139	0+			16
104PD 17				2.178	17
104PD 18	2.182	4+			18
104PD 19				2.193 (4+)	19
104PD 20	2.228	4+			20
104PD 21	2.245	2+			21
104PD 22	2.250	6+			22
104PD 23	2.265	4+			23
104PD 24				2.276 1+,2+	24
104PD 25				2.290	25
104PD 26			2.299 4-		26
104PD 27				2.338 1+,2+	27
104PD 28				2.352	28
104PD 29				2.444 4+,5+,6+	29
104PD 30				2.457 (1,2,3)	30
104PD 31				2.465	31
104PD 32				2.479 1,2	32
104PD 33			2.491 5-		33
104PD 34				2.492	34
104PD 35	2.521	2+			35
104PD 36				2.533 (2,3)+	36
104PD 37	2.570	4+			37
104PD 38				2.572	38

S-alpha=		2.593 ( 0.001)		-----		
104PD	39			2.613	2+,3+	39
104PD	40			2.622	(1,2,3)	40
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104PD	41			2.627	(1,2+)	41
104PD	42	2.643	4+			42
104PD	43			2.668	5-	43
104PD	44	2.678	4+			44
104PD	45	2.695	2+			45
104PD	46					46
104PD	47			2.734	4-	47
104PD	48					48
104PD	49	2.767	4+			49
104PD	50					50
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104PD	51	2.774	4+			51
104PD	52					52
104PD	53	2.800	4+			53
104PD	54					54
104PD	55					55
104PD	56					56
104PD	57			2.901	6-	57
104PD	58					58
104PD	59					59
104PD	60					60
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104PD	61					61
104PD	62					62
104PD	63					63
104PD	64					64
104PD	65			2.988	7-	65
104PD	66	2.994	4+			66
104PD	67					67
104PD	68					68
104PD	69					69
104PD	70					70
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104PD	71					71
104PD	72					72
104PD	73					73
104PD	74					74
104PD	75			3.094	3-	75
104PD	76					76
104PD	77	3.105	4+			77
104PD	78					78
104PD	79					79
104PD	80					80
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104PD	81					81
104PD	82	3.137	4+			82

104PD 83				3.152	8-			83	
104PD 84		3.158	4+					84	
104PD 85							3.179	85	
104PD 86		3.187	2+					86	
104PD 87							3.193	(3-,4-)	87
104PD 88							3.214	1+,2+,3+	88
104PD 89		3.221	8+					89	
104PD 90		3.224	2+					90	
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104PD 91		3.230	6+					91	
104PD 92		3.253	2+					92	
104PD 93		3.271	6+					93	
104PD 94		3.280	4+					94	
104PD 95		3.285	4+					95	
104PD 96							3.310	4,5,6	96
104PD 97		3.321	2+					97	
104PD 98							3.334	(3-,4-)	98
104PD 99		3.349	2+					99	
104PD 100		3.362	4+					100	
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104PD 101				3.368	9-			101	
104PD 102		3.376	6+					102	
104PD 103		3.381	2+					103	
104PD 104							3.408	1+,2+,3+	104
104PD 105		3.417	2+					105	
104PD 106							3.422	(8+)	106
104PD 107				3.432	3-			107	
104PD 108							3.447		108
104PD 109							3.461	(2+)	109
104PD 110		3.474	4+					110	
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104PD 111							3.502	(9-)	111
104PD 112							3.515		112
104PD 113		3.522	2+					113	
104PD 114							3.556	(5-)	114
104PD 115							3.578		115
104PD 116							3.590		116
104PD 117		3.602	2+					117	
104PD 118							3.622	(2+)	118
104PD 119		3.647	2+					119	
104PD 120		3.666	4+					120	
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104PD 121							3.704		121
104PD 122							3.726	(4+)	122
104PD 123		3.738	4+					123	
104PD 124							3.744	(5-)	124
104PD 125		3.758	2+					125	
104PD 126				3.770	10-			126	
104PD 127		3.787	4+					127	
104PD 128		3.833	2+					128	

104PD 129		3.849	2+						129
104PD 130							3.873	(2+)	130
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104PD 131							3.903	(3-)	131
104PD 132		3.934	4+						132
104PD 133					3.959		3-		133
104PD 134							4.009	1+,2+,3+	134
104PD 135		4.023	10+						135
104PD 136							4.030	1+,2+,3+	136
104PD 137					4.048		11-		137
104PD 138							4.202	(11-)	138
104PD 139		4.635	12+						139
104PD 140					4.648		12-		140
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104PD 141					4.963		13-		141
104PD 142		5.432	14+						142
104PD 143					5.681		14-		143
104PD 144					6.022		15-		144
104PD 145		6.358	16+						145
104PD 146		7.422	18+						146
104PD 147							8.616	(20+)	147
S-p	=	8.652	( 0.003)	-----					
104PD 148							9.873	(22+)	148

S-p = 8.652 ( 0.003)-----  
S-n = 10.009 ( 0.002)-----  
S-2p = 14.867 ( 0.001)-----  
S-2n = 17.635 ( 0.001)-----  
S-alpha= 2.593 ( 0.001)-----

S+p = -4.965 ( 0.005)  
S+n = -7.094 ( 0.002)  
S+2p = -12.315 ( 0.002)  
S+2n = -16.655 ( 0.002)  
S+alpha = -2.282 ( 0.002)

gap p = 3.688 ( 0.005)  
gap n = 2.915 ( 0.002)  
gap 2p = 2.552 ( 0.002)  
gap 2n = 0.980 ( 0.002)  
gap alpha = 0.311 ( 0.002)