

^{98}Pd $Z = 46$ $N = 52$ adopted link ENSDF link

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

BE = 836.322 (0.005) MeV

Qbeta+ = 1.854 (0.013) MeV

	Energy T	J+	J-	J-other	T1/2
98PD 1	0.000	0+			1 17.7 M 4
98PD 2	0.863	2+			2 11.3 PS LT
S-alpha=	1.162 (0.006)				
98PD 3	1.541	4+			3 11.7 PS 21
98PD 4				1.966 (2+)	4 145 FS LT
98PD 5	2.112	6+			5 19.3 PS 14
98PD 6				2.222 (2+)	6 90 FS LT
98PD 7				2.289 (4+)	7
98PD 8				2.300	8
98PD 9				2.408 (4,5,6+)	9
98PD 10				2.564 (5,6+)	10
98PD 11				2.617 (5,6+)	11
98PD 12				2.620 (5-)	12
98PD 13				2.701	13
98PD 14				2.724 (5,6+)	14
98PD 15				2.767 (4+)	15
98PD 16	2.773	8+			16 66.3 PS 14
98PD 17				2.784 (4,5,6+)	17
98PD 18				2.864	18
98PD 19				3.004 (4+)	19
98PD 20				3.009 (5,6+)	20
98PD 21				3.022	21
98PD 22				3.076 (6+,7)	22
98PD 23				3.091 (4,5,6+)	23
98PD 24				3.118	24
98PD 25				3.125 (5+,6+)	25
98PD 26				3.173	26
98PD 27				3.219 (6+,7,8+)	27
98PD 28				3.301	28
98PD 29				3.345 (5,6+)	29
98PD 30				3.348 (4+)	30
98PD 31				3.349	31
98PD 32				3.378 (7-)	32
98PD 33				3.401 (4+)	33
98PD 34				3.441 (5,6+)	34
98PD 35				3.489 (6+,7,8)	35
98PD 36				3.553 (4+)	36

98PD 37						3.583		37
98PD 38						3.602	(5,6+)	38
98PD 39						3.633	(5,6,7)	39
98PD 40		3.644		10+				40

98PD 41						3.709	(4,5,6+)	41
98PD 42						3.740		42
98PD 43						3.753	(9+)	43
98PD 44						3.760	(5,6,7)	44
98PD 45						3.763	(5,6,7)	45
98PD 46						3.816	(5,6,7)	46
98PD 47						3.853	(5,6+)	47
98PD 48						3.894		48
98PD 49						3.905	(5,6,7)	49
98PD 50						3.928		50

98PD 51						3.951	(5,6,7)	51
98PD 52						3.965	(5,6,7)	52
98PD 53						3.969	(5,6+)	53
98PD 54						3.976	(6+,7)	54
98PD 55						3.988	(10+)	55
98PD 56						3.992		56
98PD 57						4.050	(6+,7)	57
98PD 58						4.082	(5,6,7)	58
98PD 59						4.091	(5,6,7)	59
98PD 60						4.092	(4,5,6+)	60

98PD 61						4.105		61
98PD 62						4.125	(5,6+)	62
98PD 63						4.136		63
98PD 64						4.145	(9-)	64
98PD 65						4.153	(6+,7+)	65
98PD 66						4.164	(5,6,7)	66
98PD 67						4.181	(5,6+)	67
98PD 68						4.186	(10+)	68
98PD 69						4.222	(5+,6+)	69
98PD 70						4.265	(6+)	70

98PD 71						4.278	(6+,7)	71
98PD 72						4.285	(5+,6+)	72
98PD 73						4.292		73
98PD 74						4.315		74
98PD 75						4.321	(5,6,7)	75
98PD 76						4.332	(7+)	76
98PD 77						4.354	(5,6,7)	77
98PD 78						4.364	(11+)	78
98PD 79						4.373		79
98PD 80						4.388	(7+)	80

98PD 81						4.406	(5,6,7)	81

98PD 82				4.411	(6+,7)	82
98PD 83				4.412	(5,6,7)	83
98PD 84				4.417	(5,6+)	84
98PD 85				4.445		85
98PD 86		4.446	12+			86
98PD 87				4.464	(5,6+)	87
98PD 88				4.500	(5,6+)	88
98PD 89				4.515	(5,6,7)	89
98PD 90				4.522	(7+)	90

98PD 91				4.542		91
98PD 92				4.543	(6+,7+)	92
98PD 93				4.559	(5+,6+)	93
98PD 94				4.599	(5,6,7)	94
98PD 95				4.609	(5,6,7)	95
98PD 96				4.611	(5,6,7)	96
98PD 97				4.615	(5,6+)	97
98PD 98				4.638	(5,6,7)	98
98PD 99				4.640	(11-)	99
98PD 100				4.665		100

98PD 101				4.675	(12+)	101
98PD 102				4.691	(5,6+)	102
98PD 103				4.718	(6+,7)	103
98PD 104				4.756	(5,6,7)	104
98PD 105				4.767	(6+,7)	105
98PD 106				4.813		106
98PD 107				4.845		107
98PD 108				4.847	(6+,7+)	108
98PD 109				4.877	(5,6,7)	109
98PD 110				4.888		110

98PD 111				4.892	(6+,7)	111
98PD 112				4.918	(5,6+)	112
98PD 113				4.930		113
98PD 114				4.931		114
98PD 115				4.961	(5,6,7)	115
98PD 116				5.009	(5,6+)	116
98PD 117				5.051	(6+)	117
98PD 118				5.060	(5+,6+)	118
98PD 119				5.062	(5,6,7)	119
98PD 120				5.131	(5,6+)	120

98PD 121				5.173	(5+,6+)	121
98PD 122				5.182	(5,6,7)	122
98PD 123				5.206	(5+,6+)	123
98PD 124				5.208		124
98PD 125				5.213		125
98PD 126				5.237	(5+,6+,7+)	126
98PD 127				5.248	(5,6,7)	127

98PD 128				5.269		128
98PD 129				5.283		129
98PD 130				5.287	(5,6,7-)	130

98PD 131				5.304	(5+,6+)	131
98PD 132				5.314	(6+,7)	132
98PD 133				5.352		133
98PD 134				5.400	(5,6,7)	134
98PD 135				5.417	(5,6,7)	135
98PD 136				5.436	(5,6+)	136
98PD 137				5.451	(5,6,7)	137
98PD 138				5.463	(13+)	138
98PD 139				5.477	(5+,6+)	139
98PD 140				5.487	(5+,6+)	140

98PD 141				5.504		141
98PD 142				5.505		142
98PD 143				5.507	(5+,6+,7+)	143
98PD 144				5.509	(5,6+)	144
98PD 145				5.536		145
98PD 146				5.574	(5,6+)	146
98PD 147				5.575		147
98PD 148				5.577		148
98PD 149				5.583		149
98PD 150				5.585		150

98PD 151				5.620		151
98PD 152				5.628		152
98PD 153	5.699	14+				153
98PD 154				5.706		154
98PD 155				5.708		155
98PD 156				5.716		156
98PD 157				5.718	(5+,6+)	157
98PD 158				5.723		158
98PD 159				5.735	(12-)	159
98PD 160				5.756	(5+,6+,7+)	160

98PD 161				5.779		161
98PD 162				5.815	(5+,6+)	162
98PD 163				5.817		163
98PD 164				5.834	(5+,6+,7+)	164
98PD 165				5.845		165
98PD 166				5.852	(5+,6+)	166
98PD 167				5.857	(14+)	167
98PD 168				5.884	(5+,6+)	168
98PD 169				5.903		169
98PD 170				5.938	(5+,6+,7+)	170

98PD 171				5.952		171
98PD 172				5.964	(6+,7+)	172

98PD 173			5.971		173
98PD 174			5.982	(13-)	174
98PD 175			5.982	(5,6+)	175
98PD 176			6.000	(5+,6+)	176

S-p	=	6.012 (0.036)			
98PD 177			6.047	(5+,6+)	177
98PD 178			6.062		178
98PD 179			6.085		179
98PD 180			6.097		180

98PD 181			6.108		181
98PD 182			6.141		182
98PD 183			6.143		183
98PD 184			6.187		184
98PD 185			6.200		185
98PD 186			6.230		186
98PD 187			6.263	(5+,6+)	187
98PD 188			6.316		188
98PD 189			6.319	(14)	189
98PD 190			6.350		190

98PD 191			6.424		191
98PD 192			6.450		192
98PD 193			6.626	(15+)	193
98PD 194			6.748	(16+)	194
98PD 195			6.802	(15+)	195
98PD 196			7.157	(15)	196
98PD 197			7.232	(15)	197
98PD 198			7.346	(16+)	198
98PD 199			7.865		199
98PD 200			8.340	(17+)	200

98PD 201			8.506	(18+)	201
98PD 202			8.613		202
98PD 203			9.135		203

S-p = 6.012 (0.036)-----
S-n = 11.586 (0.007)-----
S-2p = 9.819 (0.005)-----
S-2n = 21.280 (0.006)-----
S-alpha= 1.162 (0.006)-----

S+p = -2.681 (0.008)
S+n = -8.933 (0.007)
S+2p = -7.452 (0.005)
S+2n = -20.034 (0.018)
S+alpha = -0.764 (0.005)

gap p = 3.332 (0.037)

gap n = 2.653 (0.010)
gap 2p = 2.367 (0.007)
gap 2n = 1.246 (0.019)
gap alpha = 0.399 (0.008)