

$^{187}\text{Pt}$        $Z = 78$        $N = 109$       adopted link      ENSDF link

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

BE = 1484.999 ( 0.024) MeV

Qbeta+ = 2.864 ( 0.037) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-4.553	( 0.055)	-----		
187PT 1			0.000	3/2-	1    2.35 H 3
187PT 2			0.009	3/2-	2    1 NS    LE
187PT 3				0.026 (5/2-)	3    0.7 NS 1
187PT 4				0.051 (1/2,3/2)-	4    0.30 NS 8
187PT 5				0.057 (7/2-)	5    18 NS 2
187PT 6			0.075	3/2-	6    0.50 NS 6
187PT 7				0.174 (11/2+)	7    311 US 15
187PT 8			0.190	3/2-	8
187PT 9				0.203 (13/2+)	9
187PT 10				0.204 (7/2-)	10
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187PT 11				0.226 (9/2-)	11
187PT 12				0.242 (9/2+)	12    0.5 NS LE
187PT 13			0.261	3/2-	13    148 PS 7
187PT 14			0.288	5/2-	14
187PT 15				0.306 (9/2-)	15
187PT 16				0.426 (3/2-)	16
187PT 17				0.427 (9/2+)	17
187PT 18				0.431 (11/2-)	18
187PT 19				0.465 (15/2+)	19
187PT 20				0.474	20
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187PT 21				0.481 (1/2-,3/2-)	21
187PT 22				0.500 (11/2-)	22
187PT 23				0.505 (17/2+)	23
187PT 24			0.508	1/2-	24
187PT 25				0.510	25
187PT 26				0.525 (3/2-)	26
187PT 27				0.573 (1/2-,3/2-)	27
187PT 28				0.588 (7/2+)	28
187PT 29				0.599 (5/2-)	29
187PT 30				0.621 (1/2-,3/2-)	30
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187PT 31				0.633 (5/2+,7/2+)	31
187PT 32				0.635 (3/2-)	32
187PT 33				0.651 (13/2-)	33
187PT 34				0.689 (3/2-)	34
187PT 35				0.694 (13/2-)	35
187PT 36				0.781 (3/2-)	36

187PT	37			0.845		37
187PT	38			0.883	(5/2+)	38
187PT	39			0.887	(15/2-)	39
187PT	40			0.895	(15/2-)	40
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187PT	41			0.903	(19/2+)	41
187PT	42			0.928	(17/2+)	42
187PT	43			0.943	(21/2+)	43
187PT	44			0.969		44
187PT	45			1.102		45
187PT	46			1.115		46
187PT	47			1.153	(17/2-)	47
187PT	48			1.161	(17/2-)	48
187PT	49			1.179		49
187PT	50			1.212	(19/2+)	50
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187PT	51			1.304		51
187PT	52			1.328	(1/2+, 3/2+)	52
187PT	53			1.335		53
187PT	54	1.341	1/2+			54
187PT	55			1.350	(19/2-)	55
187PT	56			1.365		56
187PT	57			1.388		57
187PT	58			1.399		58
187PT	59			1.400		59
187PT	60			1.409	(17/2-)	60
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187PT	61			1.418	(21/2)	61
187PT	62			1.430	(19/2-)	62
187PT	63			1.434	(3/2+)	63
187PT	64			1.443	(21/2-)	64
187PT	65			1.453	(23/2+)	65
187PT	66			1.478	(3/2+)	66
187PT	67			1.496	(25/2+)	67
187PT	68			1.571		68
187PT	69			1.598		69
187PT	70			1.616		70
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187PT	71			1.658	(21/2-)	71
187PT	72			1.692	(21/2-)	72
187PT	73			1.717	(21/2-)	73
187PT	74			1.778		74
187PT	75			1.790	(23/2+)	75
187PT	76			1.840	(23/2-)	76
187PT	77			1.870	(23/2-)	77
187PT	78			1.886		78
187PT	79			1.891		79
187PT	80			1.896	(25/2-)	80
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187PT	81			1.970		81

187PT 82			1.988	(25/2)	82
187PT 83			2.007	(23/2-)	83
187PT 84			2.017	(3/2+,5/2+)	84
187PT 85			2.028		85
187PT 86			2.039		86
187PT 87			2.071	(25/2-)	87
187PT 88			2.082		88
187PT 89			2.092	(27/2+)	89
187PT 90			2.095		90
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187PT 91			2.120		91
187PT 92			2.143	(29/2+)	92
187PT 93			2.158		93
187PT 94			2.170		94
187PT 95			2.175	(27/2-)	95
187PT 96			2.231	(27/2-)	96
187PT 97			2.264	(25/2-)	97
187PT 98			2.323	(25/2-)	98
187PT 99			2.393	(27/2-)	99
187PT 100			2.425	(27/2)	100
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187PT 101			2.434	(29/2-)	101
187PT 102			2.482	(29/2-)	102
187PT 103			2.493	(27/2-)	103
187PT 104			2.519	(29/2)	104
187PT 105			2.519	(29/2)	105
187PT 106			2.571		106
187PT 107			2.609	(31/2-)	107
187PT 108			2.626	(29/2)	108
187PT 109			2.632	(31/2-)	109
187PT 110			2.654	(29/2)	110
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187PT 111			2.745	(31/2+)	111
187PT 112			2.745	(29/2-)	112
187PT 113			2.782	(31/2-)	113
187PT 114			2.793	(31/2-)	114
187PT 115			2.852		115
187PT 116			2.852	(33/2+)	116
187PT 117			2.871	(31/2+)	117
187PT 118			2.901	(31/2)	118
187PT 119			2.915	(31/2-)	119
187PT 120			2.943	(33/2-)	120
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187PT 121			2.996	(33/2-)	121
187PT 122			3.013	(31/2-)	122
187PT 123			3.017	(31/2)	123
187PT 124			3.038	(33/2)	124
187PT 125			3.039	(33/2)	125
187PT 126			3.069	(35/2-)	126
187PT 127			3.076	(33/2)	127

187PT 128			3.116		128
187PT 129			3.211	(33/2)	129
187PT 130			3.287	(33/2-)	130
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187PT 131			3.297	(35/2-)	131
187PT 132			3.332	(35/2+)	132
187PT 133			3.415	(35/2)	133
187PT 134			3.489	(37/2+)	134
187PT 135			3.507		135
187PT 136			3.532	(35/2)	136
187PT 137			3.552	(37/2-)	137
187PT 138			3.574		138
187PT 139			3.575	(35/2+)	139
187PT 140			3.598	(37/2+)	140
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187PT 141			3.607	(37/2-)	141
187PT 142			3.613	(35/2)	142
187PT 143			3.617	(39/2-)	143
187PT 144			3.721	(37/2)	144
187PT 145			3.784	(37/2)	145
187PT 146			3.839		146
187PT 147			3.848	(39/2+)	147
187PT 148			3.889	(39/2-)	148
187PT 149			3.977		149
187PT 150			3.992	37/2	150
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187PT 151			4.045	(41/2+)	151
187PT 152			4.076	(39/2)	152
187PT 153			4.250	(41/2-)	153
187PT 154			4.256		154
187PT 155			4.307	(41/2-)	155
187PT 156			4.318		156
187PT 157			4.555	(43/2-)	157
187PT 158			4.723	(45/2+)	158
S-p	=	4.802 ( 0.029)	-----		
187PT 159			4.986	(45/2-)	159
187PT 160			5.274	(47/2-)	160
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187PT 161			5.510	(49/2+)	161
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S-p	=	4.802 ( 0.029)	-----		
S-n	=	6.892 ( 0.032)	-----		
S-2p	=	8.457 ( 0.024)	-----		
S-2n	=	16.140 ( 0.035)	-----		
S-alpha	=	-4.553 ( 0.055)	-----		
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S+p	=	-2.975 ( 0.024)	-----		
S+n	=	-9.207 ( 0.025)	-----		
S+2p	=	-7.519 ( 0.040)	-----		

S+2n = -15.927 ( 0.026)  
S+alpha = 3.669 ( 0.033)

gap p = 1.827 ( 0.038)  
gap n = -2.315 ( 0.041)  
gap 2p = 0.938 ( 0.046)  
gap 2n = 0.213 ( 0.044)  
gap alpha = -0.885 ( 0.064)