

^{151}Pm $Z = 61$ $N = 90$ adopted link ENSDF link

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

BE = 1244.432 (0.005) MeV

Qbeta- = 1.190 (0.005) MeV

	Energy T	J+	J-	J-other	T1/2

151PM	1 0.000	5/2+			1 28.40 H 4
151PM	2 0.085	7/2+			2
151PM	3		0.117	5/2-	3 89 PS 15
151PM	4		0.175	7/2-	4 0.2 NS LT
151PM	5 0.197	9/2+			5
151PM	6 0.256	3/2+			6 0.93 NS 2
151PM	7			0.261 (9/2-)	7
151PM	8 0.325	5/2+			8
151PM	9			0.330 (11/2)+	9
151PM	10		0.344	11/2-	10

S-alpha=	0.367 (0.017)				
151PM	11 0.426	1/2+			11 0.2 NS LT
151PM	12			0.427 (7/2)+	12
151PM	13 0.487	13/2+			13
151PM	14			0.498 (13/2)-	14
151PM	15 0.508	5/2+			15
151PM	16			0.524 (3/2)+	16
151PM	17			0.532 (7/2-)	17
151PM	18		0.540	3/2-	18 0.1 NS LT
151PM	19			0.552 (9/2+)	19
151PM	20			0.577 (5/2)-	20

151PM	21			0.596	21
151PM	22			0.597 (15/2)-	22
151PM	23		0.640	11/2-	23
151PM	24			0.658 (15/2+)	24
151PM	25			0.701 (11/2+)	25
151PM	26 0.719	7/2+			26
151PM	27			0.747 (3/2-)	27
151PM	28			0.756 (5/2,7/2-)	28
151PM	29			0.774 (1/2,3/2,5/2+)	29
151PM	30 0.781	7/2+			30

151PM	31			0.809 (5/2+,7/2-)	31
151PM	32			0.827 (17/2-)	32
151PM	33			0.841 (3/2)+	33
151PM	34 0.852	1/2+			34
151PM	35			0.853 5/2(+)	35 0.1 NS LT
151PM	36			0.854 (17/2+)	36

151PM 37						0.866	(13/2+)	37
151PM 38						0.871	(5/2+, 7/2-)	38
151PM 39		0.875	3/2+					39
151PM 40						0.898	(3/2, 5/2)	40

151PM 41		0.914	5/2+					41
151PM 42						0.943	(7/2+)	42
151PM 43						0.943	(3/2+, 5/2)	43
151PM 44						0.945	(19/2-)	44
151PM 45						0.958	(5/2+)	45
151PM 46		0.990	5/2+					46
151PM 47						0.998	(5/2+)	47
151PM 48						1.011	(3/2 TO 9/2)	48
151PM 49						1.037	(7/2+)	49
151PM 50						1.058	(19/2+)	50

151PM 51						1.073	(3/2+)	51
151PM 52						1.102	(3/2+)	52
151PM 53						1.133	(5/2+)	53
151PM 54						1.176	(LE 7/2)	54
151PM 55						1.183	(3/2, 5/2)+	55
151PM 56						1.201	(3/2+, 5/2)	56
151PM 57						1.205	(11/2-)	57
151PM 58		1.222	1/2+					58
151PM 59						1.239	(21/2-)	59
151PM 60						1.245		60

151PM 61						1.262	(3/2, 5/2)+	61
151PM 62						1.288	(21/2+)	62
151PM 63		1.298	5/2+					63 48 PS 10
151PM 64						1.312		64
151PM 65						1.330	(5/2+)	65
151PM 66						1.356	(LE 7/2)	66
151PM 67						1.377	(23/2-)	67
151PM 68						1.395	(3/2-)	68
151PM 69						1.425	(5/2-)	69
151PM 70						1.445	(5/2+)	70

151PM 71						1.455		71
151PM 72						1.464		72
151PM 73		1.489	1/2+					73
151PM 74						1.520	(23/2+)	74
151PM 75						1.531		75
151PM 76		1.557	1/2+					76
151PM 77						1.562	(3/2-, 5/2+)	77
151PM 78						1.570		78
151PM 79						1.584	(3/2+, 5/2+)	79
151PM 80						1.590	(3/2-, 5/2)	80

151PM 81						1.618	(3/2, 5/2)	81

151PM 82				1.618	(3/2+,5/2+)	82
151PM 83				1.640	(1/2+,3/2,5/2+)	83
151PM 84				1.652	(3/2+,5/2)	84
151PM 85				1.673	(3/2+,5/2+)	85
151PM 86		1.711	1/2+			86
151PM 87				1.713	(3/2+,5/2)	87
151PM 88				1.721	(25/2-)	88
151PM 89				1.734	3/2+,5/2+	89
151PM 90				1.741	(1/2+,3/2,5/2+)	90

151PM 91				1.762		91
151PM 92				1.779	(25/2+)	92
151PM 93				1.794	(5/2)	93
151PM 94				1.795	(3/2,5/2)	94
151PM 95				1.806	(1/2+,3/2,5/2+)	95
151PM 96				1.810	(3/2,5/2)+	96
151PM 97				1.822	1/2,3/2,5/2	97
151PM 98				1.849	(5/2)	98
151PM 99				1.854	(5/2)+	99
151PM 100				1.855	(3/2+,5/2)	100

151PM 101				1.874	(5/2)+	101
151PM 102				1.878	(27/2-)	102
151PM 103				1.879	(5/2)	103
151PM 104				1.892	(5/2)+	104
151PM 105				1.897	(3/2+,5/2+)	105
151PM 106				1.903	(5/2)+	106
151PM 107				1.911	(3/2+,5/2+)	107
151PM 108				1.928	(5/2+)	108
151PM 109				1.933	(1/2+,3/2,5/2)	109
151PM 110				1.960	(1/2+,3/2,5/2)	110

151PM 111				1.973	(1/2+,3/2,5/2)	111
151PM 112				1.990	(3/2,5/2)	112
151PM 113				1.994	(5/2)+	113
151PM 114				1.998	(5/2)+	114
151PM 115				2.011	(5/2)+	115
151PM 116				2.016	(3/2,5/2)	116
151PM 117				2.019	(1/2+,3/2,5/2+)	117
151PM 118				2.022	(3/2+,5/2)	118
151PM 119				2.023	(5/2)	119
151PM 120				2.024	(1/2,3/2,5/2)	120

151PM 121				2.030	(7/2+,9/2+)	121
151PM 122				2.038	(1/2,3/2,5/2)	122
151PM 123				2.053	(5/2+)	123
151PM 124				2.085	(1/2,3/2,5/2)	124
151PM 125				2.107	(3/2,5/2)	125
151PM 126				2.119	(1/2+,3/2,5/2+)	126
151PM 127				2.204	(1/2+,3/2+,5/2+	127)

151PM 128			2.269	(5/2+)	128
151PM 129			2.304	1/2+,3/2+,5/2+	129
151PM 130			2.434	(31/2-)	130

151PM 131			2.447		131
151PM 132			2.700	(7/2+,9/2+)	132

S-p = 6.995 (0.005)-----
 S-n = 7.860 (0.021)-----
 S-2p = 16.925 (0.011)-----
 S-2n = 13.464 (0.005)-----
 S-alpha= 0.367 (0.017)-----

S+p = -8.666 (0.005)
 S+n = -5.939 (0.026)
 S+2p = -14.559 (0.005)
 S+2n = -13.404 (0.010)
 S+alpha = -0.857 (0.005)

gap p = -1.670 (0.007)
 gap n = 1.921 (0.033)
 gap 2p = 2.366 (0.012)
 gap 2n = 0.060 (0.011)
 gap alpha = -0.490 (0.017)