

^{149}Pm $Z = 61$ $N = 88$ adopted link ENSDF link

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

BE = 1230.968 (0.002) MeV

Qbeta- = 1.072 (0.002) MeV

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

S-alpha= -1.137 (0.007)-----					
149PM	1 0.000	7/2+			1 53.08 H 5
149PM	2 0.114	5/2+			2 2.53 NS 3
149PM	3 0.189	3/2+			3 3.27 NS 5
149PM	4 0.211	5/2+			4 80 PS 15
149PM	5		0.240	11/2-	5 35 US 3
149PM	6		0.270	7/2-	6 2.59 NS 2
149PM	7 0.288	9/2+			7
149PM	8 0.360	7/2+			8
149PM	9 0.388	1/2+			9 0.6 NS 1
149PM	10 0.397	5/2+			10

149PM	11 0.415	3/2+			11
149PM	12 0.425	7/2+			12
149PM	13		0.462	3/2-	13
149PM	14			0.498 (11/2)+	14
149PM	15			0.510 (15/2)-	15 3 NS LT
149PM	16			0.516 (9/2)-	16
149PM	17		0.538	5/2-	17 50 PS LE
149PM	18			0.547 (5/2,7/2+)	18
149PM	19			0.552 (11/2-)	19
149PM	20			0.558 (9/2)+	20

149PM	21 0.637	1/2+			21
149PM	22			0.651 (5/2+)	22
149PM	23		0.655	7/2-	23 0.18 NS LE
149PM	24			0.667 (7/2-,9/2+)	24
149PM	25			0.717 (3/2-,5/2,7/2	25+)
149PM	26 0.721	7/2+			26
149PM	27			0.745 (3/2,5/2+)	27
149PM	28			0.750 (7/2-,9/2+)	28
149PM	29 0.752	3/2+			29
149PM	30			0.759 (5/2+,7/2,9/2+)	30

149PM	31			0.768 (5/2,7/2+)	31
149PM	32			0.771 (13/2-)	32
149PM	33			0.779 (13/2)+	33
149PM	34			0.787 (3/2+,5/2+)	34
149PM	35		0.791	11/2-	35
149PM	36			0.809 (11/2)+	36

149PM	37				0.873		37
149PM	38				0.885	(5/2+)	38
149PM	39				0.886	(11/2, 13/2+)	39
149PM	40	0.907	1/2+				40

149PM	41				0.924	(5/2+, 7/2)	41
149PM	42				0.943	(3/2+, 5/2, 7/2+)	42
149PM	43				0.955	(5/2+)	43
149PM	44				0.957	(19/2-)	44
149PM	45				1.007	(13/2)-	45
149PM	46	1.008	1/2+				46
149PM	47				1.008	(15/2)+	47
149PM	48				1.032	(7/2+)	48
149PM	49				1.043	(3/2+, 5/2, 7/2)	49
149PM	50				1.050		50

149PM	51	1.142	5/2+				51
149PM	52				1.146	(15/2)-	52
149PM	53				1.156	(3/2+, 5/2, 7/2+)	53
149PM	54				1.163	(15/2+)	54
149PM	55				1.181	3/2+, 5/2+	55
149PM	56				1.190	(5/2)	56
149PM	57				1.211	(17/2-)	57
149PM	58				1.213		58
149PM	59				1.230	(17/2)+	59
149PM	60				1.234	(7/2)	60

149PM	61				1.240	(5/2+, 7/2)	61
149PM	62				1.264	(5/2, 7/2)	62
149PM	63				1.290	(3/2+, 5/2, 7/2)	63
149PM	64				1.312	(5/2)	64
149PM	65	1.329	3/2+				65
149PM	66				1.367		66
149PM	67	1.394	3/2+				67
149PM	68				1.405	9/2-, 11/2-	68
149PM	69				1.407	(17/2)-	69
149PM	70				1.412	(5/2, 7/2)	70

149PM	71				1.448	(3/2+, 5/2, 7/2+)	71
149PM	72				1.462	(7/2+, 9/2, 11/2-	72)
149PM	73				1.477	(19/2+)	73
149PM	74				1.496	(5/2, 7/2+)	74
149PM	75				1.505	(23/2-)	75
149PM	76				1.531	5/2-, 7/2-	76
149PM	77				1.550	(19/2)+	77
149PM	78				1.569	(5/2+, 7/2)	78
149PM	79				1.589	7/2+, 9/2+	79
149PM	80				1.591	(19/2-)	80

149PM	81				1.613	(21/2-)	81

149PM	82				1.642	(3/2)+	82
149PM	83				1.696	3/2+,5/2+	83
149PM	84				1.739	(21/2)+	84
149PM	85		1.765	1/2+			85
149PM	86				1.782		86
149PM	87				1.834		87
149PM	88				1.885	(21/2-)	88
149PM	89				1.924	(23/2+)	89
149PM	90				2.112	(27/2-)	90

149PM	91				2.122	(23/2)+	91

S-p = 5.945 (0.003)-----
 S-n = 7.270 (0.006)-----
 S-2p = 15.198 (0.016)-----
 S-2n = 13.165 (0.003)-----
 S-alpha= -1.137 (0.007)-----

S+p = -8.276 (0.002)
 S+n = -5.604 (0.020)
 S+2p = -13.167 (0.002)
 S+2n = -13.464 (0.005)
 S+alpha = 0.272 (0.002)

gap p = -2.330 (0.004)
 gap n = 1.666 (0.021)
 gap 2p = 2.032 (0.016)
 gap 2n = -0.299 (0.006)
 gap alpha = -0.865 (0.008)