

$^{189}\text{Pt}$        $Z = 78$        $N = 111$       adopted link      ENSDF link

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

BE = 1500.925 ( 0.010) MeV

Qbeta+ = 1.980 ( 0.016) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-3.912 ( 0.010)				
189PT 1			0.000 3/2-		1 10.87 H 12
189PT 2			0.006 5/2-		2
189PT 3				0.046 (1/2)-	3
189PT 4			0.088 3/2-		4
189PT 5			0.173 9/2-		5 464 NS 25
189PT 6				0.191 (13/2+)	6 143 US 5
189PT 7				0.202 (11/2+)	7
189PT 8				0.222 (3/2,5/2)-	8
189PT 9				0.237 (9/2)-	9
189PT 10				0.261 1/2-,3/2-	10
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189PT 11				0.285	11
189PT 12				0.348 (5/2,3/2)-	12
189PT 13				0.357 (9/2-)	13
189PT 14				0.448 (3/2,5/2)-	14
189PT 15			0.493 11/2-		15
189PT 16				0.499 (17/2+)	16 211.4 PS 55
189PT 17				0.530 (1/2,3/2,5/2)-	17
189PT 18				0.531 (15/2+)	18
189PT 19				0.574 1/2-,3/2-	19
189PT 20				0.609 (13/2-)	20
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189PT 21				0.654 (15/2+)	21
189PT 22				0.712 (13/2-)	22
189PT 23				0.844 (13/2-)	23
189PT 24				0.903	24
189PT 25				0.944 (17/2+)	25
189PT 26				0.955 (21/2+)	26 175.4 PS 49
189PT 27				0.984 (19/2+)	27
189PT 28				1.048 (15/2-)	28
189PT 29				1.081 (17/2-)	29
189PT 30				1.161 (3/2+)	30
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189PT 31				1.185 (19/2+)	31
189PT 32				1.362 (17/2-)	32
189PT 33				1.414	33
189PT 34				1.416 (17/2-)	34
189PT 35				1.444 (21/2+)	35
189PT 36				1.490 (19/2-)	36

189PT 37				1.512	(21/2-)	37
189PT 38				1.529	(25/2+)	38
189PT 39				1.556	(23/2+)	39
189PT 40				1.696	(23/2-)	40
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189PT 41				1.714	(25/2-)	41
189PT 42				1.727	(23/2+)	42
189PT 43				2.010	(25/2+)	43
189PT 44				2.055	(27/2-)	44
189PT 45				2.190	(29/2+)	45
189PT 46				2.219	(27/2+)	46
189PT 47				2.291	(29/2-)	47
189PT 48				2.304	(29/2-)	48
189PT 49				2.540	(27/2+)	49
189PT 50				2.620	(31/2-)	50
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189PT 51				2.635	(29/2+)	51
189PT 52				2.688	(31/2-)	52
189PT 53				2.729	(29/2+)	53
189PT 54				2.819		54
189PT 55				2.840	(33/2-)	55
189PT 56				2.865	(33/2+)	56
189PT 57				2.874	(33/2-)	57
189PT 58				2.932	(31/2+)	58
189PT 59				2.979	(31/2+)	59
189PT 60				3.066	(33/2+)	60
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189PT 61				3.201	(33/2+)	61
189PT 62				3.292	(35/2-)	62
189PT 63				3.376	(37/2+)	63
189PT 64				3.420	(35/2+)	64
189PT 65				3.453	(37/2-)	65
189PT 66				3.455	(35/2+)	66
189PT 67				3.574	(37/2-)	67
189PT 68				3.582	(37/2+)	68
189PT 69				3.641	(39/2+)	69
189PT 70				3.649	(39/2-)	70
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189PT 71				3.673		71
189PT 72				3.809	(41/2-)	72
189PT 73				3.849	(43/2+)	73
189PT 74				3.947	(41/2+)	74
189PT 75				3.976		75
189PT 76				4.169	(41/2-)	76
189PT 77				4.368	(47/2+)	77
189PT 78				4.437	(43/2-)	78
189PT 79				4.647	(45/2+)	79
189PT 80				4.686	(45/2+)	80
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189PT 81				4.688	(45/2-)	81

189PT 82				4.708	(47/2+)	82
189PT 83				4.795	(45/2-)	83
189PT 84				4.849	(45/2-)	84
189PT 85				4.879	(49/2+)	85
189PT 86				5.042	(49/2-)	86
189PT 87				5.354	(53/2+)	87
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S-p	=	5.413	( 0.014)	-----		
189PT 88				5.464	(49/2+)	88
189PT 89				5.502	(53/2-)	89
189PT 90				6.475	(57/2-)	90
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189PT 91				6.477	(55/2+)	91
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S-n	=	6.720	( 0.011)	-----		
189PT 92				6.762		92
189PT 93				6.842	(57/2+)	93
189PT 94				7.272		94
189PT 95				7.358		95
189PT 96				7.582		96
189PT 97				7.765		97
189PT 98				8.135		98
189PT 99				8.843		99
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S-p	=	5.413	( 0.014)	-----		
S-n	=	6.720	( 0.011)	-----		
S-2p	=	9.828	( 0.010)	-----		
S-2n	=	15.927	( 0.026)	-----		
S-alpha	=	-3.912	( 0.010)	-----		
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S+p	=	-3.653	( 0.011)			
S+n	=	-8.908	( 0.010)			
S+2p	=	-8.700	( 0.024)			
S+2n	=	-15.372	( 0.011)			
S+alpha	=	2.982	( 0.018)			
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gap p	=	1.760	( 0.017)			
gap n	=	-2.189	( 0.015)			
gap 2p	=	1.128	( 0.026)			
gap 2n	=	0.555	( 0.028)			
gap alpha	=	-0.929	( 0.021)			