

$^{146}\text{Pm}$        $Z = 61$        $N = 85$       adopted link      ENSDF link

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

BE      =    1210.144 ( 0.004) MeV  
 Qbeta- =      1.542 ( 0.005) MeV  
 Qbeta+ =      1.471 ( 0.004) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-1.907	( 0.005)	-----		
146PM 1			0.000	3-	1 5.53 Y 5
146PM 2				0.017 [4-,5-]	2
146PM 3				0.033 (6-)	3
146PM 4				0.073 (4-)	4
146PM 5				0.083	5
146PM 6				0.089	6
146PM 7				0.094 (5-)	7
146PM 8				0.108 (6+)	8
146PM 9				0.136 (2,3,4)-	9
146PM 10				0.150 (3-,4-,5-)	10
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146PM 11				0.167	11
146PM 12				0.188	12
146PM 13				0.201	13
146PM 14				0.212 (2,3,4)-	14
146PM 15				0.232 (6-)	15
146PM 16				0.236 (5-)	16
146PM 17				0.285 (2,3,4)-	17
146PM 18				0.293	18
146PM 19				0.302	19
146PM 20				0.311 (5-)	20
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146PM 21				0.353 (5+)	21
146PM 22				0.392 (3,4,5)-	22
146PM 23				0.418	23
146PM 24				0.453	24
146PM 25				0.518 (6-)	25
146PM 26				0.532	26
146PM 27				0.564	27
146PM 28				0.582	28
146PM 29				0.589	29
146PM 30				0.649	30
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146PM 31				0.666	31
146PM 32				0.676	32
146PM 33				0.700	33
146PM 34				0.703	34
146PM 35				0.758	35

146PM 36				0.765		36
146PM 37				0.767	(8-)	37
146PM 38				0.791		38
146PM 39				0.811		39
146PM 40				0.821	(7+)	40
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146PM 41				0.834		41
146PM 42				0.873	(9+)	42
146PM 43				0.874		43
146PM 44				0.921		44
146PM 45				1.028		45
146PM 46				1.112		46
146PM 47				1.353	(10)	47
146PM 48				1.440		48
146PM 49				1.512	(11+)	49
146PM 50				1.967	(12)	50
-----						
146PM 51				2.005	(12)	51
146PM 52				2.236	(13+)	52
146PM 53				2.551	(14)	53
146PM 54				2.606	(14)	54
146PM 55				3.038	(16)	55
146PM 56				3.055	(14,15)	56
146PM 57				3.247	(16)	57
146PM 58				3.791	(18)	58
146PM 59				4.099		59
146PM 60				4.111		60
-----						
146PM 61				4.181	(20)	61
146PM 62				4.220	(19)	62
146PM 63				4.873	(20)	63
146PM 64				4.969		64
146PM 65				5.251	(21)	65
S-p	=	5.311	( 0.004)	-----		
146PM 66				5.339	(22)	66
146PM 67				5.379		67
146PM 68				5.454	(21,23)	68
146PM 69				5.640	(21)	69
146PM 70				5.686	(22)	70
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146PM 71				5.787		71
146PM 72				5.893	(23)	72
146PM 73				5.987	(24)	73
S-n	=	6.258	( 0.005)	-----		
146PM 74				6.292		74
146PM 75				6.433		75
146PM 76				6.514		76
146PM 77				6.619	(25)	77
146PM 78				6.838	(25,27)	78
146PM 79				6.877		79

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S-p    =  5.311 ( 0.004)-----  
S-n    =  6.258 ( 0.005)-----  
S-2p   = 13.282 ( 0.005)-----  
S-2n   = 14.181 ( 0.005)-----  
S-alpha= -1.907 ( 0.005)-----  
  
S+p    = -7.101 ( 0.004)  
S+n    = -7.659 ( 0.004)  
S+2p   = -11.421 ( 0.011)  
S+2n   = -13.554 ( 0.007)  
S+alpha =  2.237 ( 0.008)  
  
gap p   = -1.789 ( 0.006)  
gap n   = -1.401 ( 0.007)  
gap 2p  =  1.861 ( 0.012)  
gap 2n  =  0.627 ( 0.009)  
gap alpha =  0.330 ( 0.009)
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