

$^{186}\text{Hg}$        $Z = 80$        $N = 106$       [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 1467.216 ( 0.012) MeV

Qbeta+ = 3.176 ( 0.024) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-5.204	( 0.018)	-----		
186HG 1	0.000	0+			1 1.38 M 6
186HG 2	0.405	2+			2 18 PS 3
186HG 3	0.523	0+			3 52 PS LE
186HG 4	0.621	2+			4 48 PS 27
186HG 5	0.808	4+			5 9 PS 3
186HG 6	1.080	4+			6
186HG 7	1.097	2+			7
186HG 8	1.165	6+			8 5 PS 2
186HG 9				1.228 (3-)	9
186HG 10				1.434 (3+)	10
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186HG 11				1.578 (5-)	11
186HG 12	1.589	8+			12 3 PS AP
186HG 13				1.615	13
186HG 14				1.660 (2+)	14
186HG 15	1.678	6+			15
186HG 16				1.868 (5+)	16
186HG 17				1.907 (5)	17
186HG 18				1.966 4+,5,6+	18
186HG 19				1.976 (7-)	19
186HG 20				2.056	20
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186HG 21	2.078	10+			21
186HG 22				2.130	22
186HG 23				2.138 (3+)	23
186HG 24				2.156 (8+)	24
186HG 25				2.186 (6-)	25
186HG 26				2.212	26
186HG 27				2.217 (8-)	27 82 US 5
186HG 28				2.268 (7)	28
186HG 29				2.349 (6+,7+)	29
186HG 30				2.394 (9-)	30
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186HG 31				2.428 (9-)	31
186HG 32				2.428 (7+)	32
186HG 33				2.465 (8-)	33
186HG 34				2.574 (9)	34
186HG 35				2.592 (10-)	35
186HG 36	2.620	12+			36

186HG	37					2.636	(10+)	37
186HG	38					2.810	(11-)	38
186HG	39	2.834	10+					39
186HG	40					2.848	(10-)	40
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186HG	41					2.928	(11-)	41
186HG	42					3.017	(11)	42
186HG	43					3.049	(12-)	43
186HG	44			3.089	11-			44
186HG	45	3.202	14+					45
186HG	46					3.267	(12-)	46
186HG	47					3.305	(13-)	47
186HG	48					3.315		48
186HG	49			3.471	13-			49
186HG	50					3.471	(13-)	50
-----								
186HG	51					3.503	(13)	51
186HG	52					3.583	(14-)	52
186HG	53					3.735	(14-)	53
186HG	54	3.813	16+					54
186HG	55					3.828	(15-)	55
186HG	56					3.874	(15-)	56
186HG	57					3.970		57
S-p	=	3.970 ( 0.012)		-----				
186HG	58					4.041	(15)	58
186HG	59					4.053	(15-)	59
186HG	60					4.184	(16-)	60
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186HG	61					4.265	(16-)	61
186HG	62					4.269	(17-)	62
186HG	63	4.449	18+					63
186HG	64					4.502	(17-)	64
186HG	65					4.625		65
186HG	66					4.642	(17)	66
186HG	67					4.643	(17-)	67
186HG	68					4.775	(19-)	68
186HG	69					4.838	(18-)	69
186HG	70					4.839	(18-)	70
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186HG	71					4.866		71
186HG	72	5.116	20+					72
186HG	73					5.190	(19-)	73
186HG	74					5.267	(19-)	74
186HG	75					5.293	(19)	75
186HG	76					5.318		76
186HG	77					5.342	(21-)	77
186HG	78					5.404		78
186HG	79					5.430	(20-)	79
S-2p	=	5.783 ( 0.020)		-----				
186HG	80					5.817	(22+)	80

186HG 81			5.963	(23-)	81
186HG 82			6.039	(22-)	82
186HG 83			6.556	(24+)	83
186HG 84			6.634	(25-)	84
186HG 85			6.680	(24-)	85
186HG 86			7.330	(26+)	86
186HG 87			7.356	(27-)	87
186HG 88			8.097	(29-)	88
186HG 89			8.134	(28+)	89
186HG 90			8.873	(31-)	90

S-p = 3.970 ( 0.012)-----  
S-n = 10.427 ( 0.018)-----  
S-2p = 5.783 ( 0.020)-----  
S-2n = 18.333 ( 0.015)-----  
S-alpha= -5.204 ( 0.018)-----

S+p = -1.194 ( 0.014)  
S+n = -7.650 ( 0.018)  
S+2p = -3.854 ( 0.016)  
S+2n = -17.805 ( 0.017)  
S+alpha = 5.698 ( 0.017)

gap p = 2.776 ( 0.019)  
gap n = 2.777 ( 0.026)  
gap 2p = 1.929 ( 0.025)  
gap 2n = 0.528 ( 0.023)  
gap alpha = 0.493 ( 0.025)