

^{200}Hg $Z = 80$ $N = 120$ adopted link ENSDF link

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

BE = 1581.179 (0.001) MeV

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

S-alpha=	-0.716	(0.001)	-----		
200HG 1	0.000	0+			1 STABLE
200HG 2	0.368	2+			2 46.4 PS 4
200HG 3	0.947	4+			3 3.24 PS 5
200HG 4	1.029	0+			4
200HG 5	1.254	2+			5 3.5 PS 8
200HG 6	1.515	0+			6
200HG 7	1.570	1+			7
200HG 8	1.574	2+			8
200HG 9	1.593	2+			9
200HG 10				1.629	10

200HG 11	1.631	1+			11
200HG 12	1.641	2+			12
200HG 13	1.659	3+			13
200HG 14	1.707	6+			14 0.70 PS 6
200HG 15	1.718	1+			15
200HG 16	1.731	2+			16
200HG 17	1.734	3+			17
200HG 18	1.776	3+			18
200HG 19	1.846	3+			19
200HG 20			1.851	5-	20

200HG 21	1.857	0+			21
200HG 22	1.883	2+			22
200HG 23			1.963	7-	23 0.8 NS LE
200HG 24	1.972	2+			24
200HG 25				1.974 (3)+	25
200HG 26			2.049	6-	26
200HG 27	2.061	1+			27
200HG 28				2.074 1+,2	28
200HG 29				2.114 (2,3)+	29
200HG 30	2.117	0+			30

200HG 31	2.127	2+			31
200HG 32				2.128 (2,3)+	32
200HG 33			2.135	8-	33
200HG 34			2.144	9-	34 1.07 NS 4
200HG 35			2.151	3-	35
200HG 36	2.189	1+			36
200HG 37	2.229	1+			37

200HG	38						2.239	(3)		38
200HG	39						2.246	(1,2)+		39
200HG	40						2.274	(1,2)+		40

200HG	41						2.284	5-,6,7-		41
200HG	42		2.289	2+						42
200HG	43		2.296	1+						43
200HG	44						2.299	5-,6,7-		44
200HG	45		2.332	2+						45
200HG	46						2.344	(3)+		46
200HG	47		2.370	1+						47
200HG	48						2.377	6-,7,8-		48
200HG	49						2.389	(1,2,3)+		49
200HG	50						2.412	(1,2)+		50

200HG	51					2.443	1-			51
200HG	52						2.462	1(+)		52
200HG	53						2.491	(1,2)+		53
200HG	54						2.515			54
200HG	55					2.523	10-			55
200HG	56						2.565	(0,1,2)		56
200HG	57					2.591	1-			57
200HG	58						2.597	(9)		58
200HG	59					2.609	3-			59
200HG	60		2.640	1+					25.1 PS 6	60

200HG	61					2.642	11-			61
200HG	62						2.659			62
200HG	63		2.680	8+					0.19 PS 4	63
200HG	64						2.692	(1,2)+		64
200HG	65		2.697	0+						65
200HG	66						2.701	(2)+		66
200HG	67						2.763	(1,2)+		67
200HG	68						2.794	(1,2)+		68
200HG	69						2.832	(1-)		69
200HG	70					2.848	1-			70

200HG	71						2.853	(1,2)+		71
200HG	72						2.862	1,2+		72
200HG	73		2.878	1+						73
200HG	74						2.893	(1+)		74
200HG	75		2.938	1+						75
200HG	76					2.960	1-			76
200HG	77		2.978	1+						77
200HG	78						2.989			78
200HG	79						3.028	(0,1,2)		79
200HG	80						3.042	(0,1,2)		80

200HG	81		3.053	1+						81
200HG	82						3.063	(0,1,2)		82

200HG 83		3.074	1+						83
200HG 84							3.104	(0,1,2)	84
200HG 85		3.121	10+						85
200HG 86					3.123	12-			86
200HG 87							3.131	(0,1,2)	87
200HG 88							3.169		88
200HG 89							3.180	(0,1,2)	89
200HG 90		3.186	1+						90

200HG 91							3.199	(0,1,2)	91
200HG 92		3.215	12+						92
200HG 93							3.217	(1)+	93
200HG 94							3.229	(1)+	94
200HG 95							3.258	(0,1,2)	95
200HG 96		3.269	1+						96
200HG 97		3.289	1+						97
200HG 98							3.323	(0,1,2)	98
200HG 99							3.338	(0,1,2)	99
200HG 100							3.353	(1+)	100

200HG 101							3.370	(0,1,2)	101
200HG 102							3.386	(0,1,2)	102
200HG 103					3.398	13-			103
200HG 104							3.401	(0,1,2)	104
200HG 105							3.413	(0,1,2)	105
200HG 106							3.441	(0,1,2)	106
200HG 107							3.453	(1+)	107
200HG 108							3.459	(0,1,2)	108
200HG 109							3.476	(0,1,2)	109
200HG 110							3.492	(1+)	110

200HG 111							3.512	(0,1,2)	111
200HG 112							3.536	(0,1,2)	112
200HG 113							3.554	(0,1,2)	113
200HG 114							3.569	(1+)	114
200HG 115							3.575	(0,1,2)	115
200HG 116							3.586	(0,1,2)	116
200HG 117		3.612	14+						117
200HG 118							3.643	(0,1,2)	118
200HG 119							3.655	(1+)	119
200HG 120		3.673	14+						120

200HG 121							3.684	(0,1,2)	121
200HG 122							3.701	(0,1,2)	122
200HG 123							3.781	(0,1,2)	123
200HG 124							3.826	(0,1,2)	124
200HG 125							3.873	(14+)	125
200HG 126					4.025	14-			126
200HG 127							4.095	(15)	127
200HG 128		4.196	16+						128

200HG 129		4.297	16+						129
200HG 130					4.444	15-			130

200HG 131		4.541	16+						131
200HG 132		4.919	18+						132
200HG 133							4.928	(17,18+)	133
200HG 134		5.182	18+						134
200HG 135							5.260	(17-)	135
200HG 136		5.344	18+						136
200HG 137							5.568	(19-)	137
200HG 138		5.916	20+						138
200HG 139							6.162	(21-)	139

S-p = 7.698 (0.001)-----
 S-n = 8.028 (0.001)-----
 S-2p = 14.177 (0.002)-----
 S-2n = 14.692 (0.001)-----
 S-alpha= -0.716 (0.001)-----

S+p = -4.967 (0.014)
 S+n = -6.231 (0.001)
 S+2p = -11.015 (0.004)
 S+2n = -13.985 (0.001)
 S+alpha = 1.969 (0.001)

gap p = 2.732 (0.014)
 gap n = 1.798 (0.001)
 gap 2p = 3.162 (0.004)
 gap 2n = 0.707 (0.001)
 gap alpha = 1.252 (0.001)