

^{202}Hg $Z = 80$ $N = 122$ [link to full NNDC output](#)

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

BE = 1595.164 (0.001) MeV

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

S-alpha=	-0.134	(0.002)	-----		
202HG 1	0.000	0+			1 STABLE
202HG 2	0.440	2+			2 27.26 PS 22
202HG 3	0.960	2+			3 14 PS 3
202HG 4	1.120	4+			4 2.05 PS 6
202HG 5	1.182	2+			5
202HG 6	1.312	4+			6
202HG 7				1.348 (1+,2+)	7
202HG 8	1.390	2+			8
202HG 9	1.411	0+			9
202HG 10				1.457	10

202HG 11				1.524	11
202HG 12	1.562	3+			12
202HG 13	1.565	0+			13
202HG 14	1.575	2+			14
202HG 15	1.624	4+			15
202HG 16	1.644	0+			16
202HG 17				1.679 1+,2+	17
202HG 18				1.725 (4+)	18
202HG 19				1.746 1,2+	19
202HG 20	1.788	2+			20

202HG 21	1.794	2+			21
202HG 22				1.801	22
202HG 23	1.824	2+			23
202HG 24	1.852	2+			24
202HG 25				1.862 (3)+	25
202HG 26	1.901	0+			26
202HG 27				1.959 1,2+	27
202HG 28			1.966 5-		28
202HG 29	1.966	2+			29
202HG 30	1.989	6+			30 0.65 PS 6

202HG 31				1.991	31
202HG 32				2.071 (2)+	32
202HG 33				2.115	33
202HG 34				2.126 (2)+	34
202HG 35				2.134	35
202HG 36				2.142	36
202HG 37				2.162	37

202HG	38				2.222		38
202HG	39				2.250	(2+)	39
202HG	40				2.280	(1+,2)	40

202HG	41				2.283		41
202HG	42				2.292	(4+)	42
202HG	43				2.293	(3,4)	43
202HG	44				2.309	(3,4)	44
202HG	45				2.323		45
202HG	46				2.339		46
202HG	47		2.357	3-			47
202HG	48				2.367		48
202HG	49				2.417		49
202HG	50				2.428		50

202HG	51				2.456		51
202HG	52				2.468		52
202HG	53				2.516	(1,2)	53
202HG	54				2.523		54
202HG	55				2.533	(1-)	55
202HG	56				2.550		56
202HG	57				2.564	(4+)	57
202HG	58				2.568		58
202HG	59				2.610		59
202HG	60				2.705		60

202HG	61		2.709	3-			61 18.9 PS 18
202HG	62				2.728		62
202HG	63				2.751		63
202HG	64				2.830		64
202HG	65				2.845		65
202HG	66				2.858		66
202HG	67				2.908		67
202HG	68				2.918		68
202HG	69				2.950		69
202HG	70				2.970		70

202HG	71				2.997		71
202HG	72				3.017		72
202HG	73				3.027		73
202HG	74				3.058		74
202HG	75		3.059	5-			75
202HG	76				3.080		76
202HG	77				3.118		77
202HG	78		3.166	3-			78
202HG	79				3.179		79
202HG	80				3.200		80

202HG	81				3.223		81
202HG	82				3.254		82

202HG	83				3.264		83
202HG	84				3.295		84
202HG	85				3.311		85
202HG	86				3.350		86
202HG	87				3.416		87
202HG	88				3.481		88
202HG	89				3.606		89
202HG	90		4.922	1-			90 0.30 EV 5

S-p = 8.234 (0.003)-----
S-n = 7.754 (0.001)-----
S-2p = 15.324 (0.020)-----
S-2n = 13.985 (0.001)-----
S-alpha= -0.134 (0.002)-----

S+p = -5.705 (0.001)
S+n = -5.995 (0.002)
S+2p = -12.342 (0.001)
S+2n = -13.487 (0.001)
S+alpha = 1.135 (0.001)

gap p = 2.528 (0.004)
gap n = 1.759 (0.002)
gap 2p = 2.982 (0.020)
gap 2n = 0.497 (0.001)
gap alpha = 1.001 (0.003)