

^{182}Hg $Z = 80$ $N = 102$ [link to full NNDC output](#)

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

BE = 1429.969 (0.010) MeV

Qbeta+ = 4.724 (0.022) MeV

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

S-alpha=	-5.996	(0.014)	-----		
182HG 1	0.000	0+			1 10.83 S 6
182HG 2				0.328 (0+)	2
182HG 3	0.352	2+			3 29.2 PS 16
182HG 4	0.548	2+			4 9.5 PS +27-22
182HG 5	0.613	4+			5 25.7 PS 8
182HG 6	0.946	6+			6 6.3 PS 4
182HG 7				1.125 (4+)	7
182HG 8				1.296	8 53 PS LT
182HG 9	1.360	8+			9 1.94 PS 21
182HG 10				1.385	10 13.5 PS 16

182HG 11				1.533	11
182HG 12				1.573	12
182HG 13				1.764	13 2.63 PS 35
182HG 14				1.768 (5-)	14 24 PS 8
182HG 15				1.824	15
182HG 16	1.847	10+			16 0.998 PS 22
182HG 17				1.946	17
182HG 18				2.008 (7-)	18 25.9 PS 14
182HG 19				2.013	19
182HG 20				2.211	20 2.1 PS 16

182HG 21				2.315	21 15.1 PS 22
182HG 22				2.323 (9-)	22 6.31 PS 35
182HG 23	2.399	12+			23
182HG 24				2.412	24
182HG 25				2.687	25
182HG 26				2.714 (11-)	26 2.15 PS 21
182HG 27				2.722	27
182HG 28				2.929	28

S-p	= 2.995	(0.022)	-----		
182HG 29	3.010	14+			29
182HG 30				3.112	30

182HG 31				3.166 (13-)	31 0.97 PS 35
182HG 32				3.290	32
182HG 33				3.486	33
182HG 34				3.573	34
182HG 35				3.647 (15-)	35 2.7 PS LT

182HG	36		3.671	16+						36
S-2p	=		3.719	(0.015)		-----				
182HG	37							3.909		37
182HG	38							4.071		38
182HG	39							4.095		39
182HG	40							4.141	(17-)	40

182HG	41		4.378	18+						41
182HG	42							4.566		42
182HG	43							4.620		43
182HG	44							5.108	(20+)	44

S-p	=	2.995	(0.022)	-----
S-n	=	10.987	(0.018)	-----
S-2p	=	3.719	(0.015)	-----
S-2n	=	19.469	(0.016)	-----
S-alpha	=	-5.996	(0.014)	-----

S+p	=	-0.299	(0.014)
S+n	=	-8.299	(0.012)
S+2p	=	-2.052	(0.016)
S+2n	=	-18.915	(0.014)
S+alpha	=	6.470	(0.015)

gap p	=	2.696	(0.026)
gap n	=	2.688	(0.022)
gap 2p	=	1.666	(0.022)
gap 2n	=	0.554	(0.021)
gap alpha	=	0.474	(0.021)