

$^{197}\text{Hg}$        $Z = 80$        $N = 117$       adopted link      ENSDF link

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

BE = 1558.002 ( 0.003) MeV

Qbeta+ = 0.600 ( 0.003) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-1.515 ( 0.003)				
197HG 1			0.000	1/2-	1 64.14 H 5
197HG 2			0.134	5/2-	2 8.07 NS 16
197HG 3				0.152 (3/2)-	3
197HG 4				0.250	4
197HG 5	0.299	13/2+			5 23.8 H 1
197HG 6				0.308 (5/2)-	6
197HG 7				0.308 (3/2)-	7
197HG 8				0.478 9/2+,11/2+,13/2+	8
197HG 9				0.509	9
197HG 10				0.558 (5/2-,7/2-)	10
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197HG 11				0.578 (3/2)-	11
197HG 12				0.585 (3/2)-	12
197HG 13	0.653	17/2+			13
197HG 14				0.675 (5/2-,7/2-)	14
197HG 15				0.677 1/2-,3/2-	15
197HG 16			0.715	9/2-	16
197HG 17				0.792 1/2-,3/2-	17
197HG 18	0.829	11/2+			18
197HG 19				0.893 (3/2)-	19
197HG 20				0.904 (7/2)-	20
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197HG 21				0.922	21
197HG 22				0.941	22
197HG 23				0.983 1/2-,3/2-	23
197HG 24				1.009 (1/2-)	24
197HG 25	1.026	15/2+			25
197HG 26				1.032	26
197HG 27				1.120 (5/2-,7/2-)	27
197HG 28				1.129	28
197HG 29				1.145 (1/2-,3/2-)	29
197HG 30				1.175 (13/2+)	30
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197HG 31				1.180	31
197HG 32				1.259	32
197HG 33	1.273	21/2+			33
197HG 34				1.306	34
197HG 35				1.344	35
197HG 36			1.382	13/2-	36

197HG 37					1.438	1/2-, 3/2-	37
197HG 38					1.537	(19/2+)	38
197HG 39					1.563	1/2-, 3/2-	39
197HG 40					1.634	(21/2)+	40
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197HG 41					1.635		41
197HG 42			1.682	21/2-			42
197HG 43					1.694	1/2(-), 3/2(-)	43
197HG 44					1.702	(17/2)+	44
197HG 45			1.833	25/2-			45 1.13 NS 6
197HG 46					1.865		46
197HG 47					1.919		47
197HG 48					1.956		48
197HG 49		2.037	25/2+				49
197HG 50					2.081		50
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197HG 51					2.096		51
197HG 52			2.162	29/2-			52
197HG 53					2.196		53
197HG 54					2.229		54
197HG 55					2.253		55
197HG 56					2.296	(23/2)+	56
197HG 57		2.710	29/2+				57
197HG 58				2.769	33/2-		58
197HG 59		3.045	33/2+				59 0.2 NS LE
197HG 60		3.464	37/2+				60
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197HG 61		4.061	41/2+				61

S-p = 6.690 ( 0.004)-----  
S-n = 6.786 ( 0.004)-----  
S-2p = 12.324 ( 0.003)-----  
S-2n = 15.669 ( 0.023)-----  
S-alpha= -1.515 ( 0.003)-----

S+p = -4.278 ( 0.008)  
S+n = -8.485 ( 0.003)  
S+2p = -9.270 ( 0.008)  
S+2n = -15.149 ( 0.003)  
S+alpha = 2.844 ( 0.014)

gap p = 2.413 ( 0.009)  
gap n = -1.700 ( 0.005)  
gap 2p = 3.055 ( 0.008)  
gap 2n = 0.521 ( 0.024)  
gap alpha = 1.330 ( 0.015)