

$^{180}\text{Hg}$        $Z = 80$        $N = 100$       adopted link      ENSDF link

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

BE = 1410.500 ( 0.013) MeV

Qbeta+ = 5.375 ( 0.013) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-6.258	( 0.018)	-----		
180HG 1	0.000	0+			1 2.59 S 1
180HG 2	0.420	0+			2
180HG 3	0.434	2+			3 12 PS 2
180HG 4	0.602	2+			4
180HG 5	0.706	4+			5 19.5 PS 8
180HG 6	1.032	6+			6 8.8 PS 4
180HG 7				1.092 (2+,1)	7
180HG 8				1.176	8
180HG 9				1.204	9
180HG 10				1.224 (3-,4+)	10
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180HG 11				1.399 (3-)	11
180HG 12	1.437	8+			12 2.29 PS 21
180HG 13				1.469 (3-,4+)	13
180HG 14				1.504 (6+)	14
180HG 15				1.663	15
180HG 16				1.797 5(-)	16
180HG 17				1.840	17
180HG 18				1.869	18
180HG 19	1.914	10+			19
180HG 20				2.022	20
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180HG 21				2.042 7(-)	21
180HG 22				2.057 (6+)	22
180HG 23				2.069 (6)	23
180HG 24				2.323 (8+)	24
180HG 25				2.349 (4,5-)	25
180HG 26				2.359 9(-)	26 7.1 PS 8
180HG 27				2.369	27
180HG 28				2.372 (8)	28
180HG 29	2.456	12+			29
180HG 30				2.488	30
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180HG 31				2.524 (8+)	31
S-p	= 2.551	( 0.017)	-----		
180HG 32				2.741 (10)	32
180HG 33				2.749 11(-)	33
S-2p	= 2.831	( 0.016)	-----		
180HG 34				3.041 (10+)	34

180HG	35		3.056	14+					35
180HG	36						3.162	(12)	36
180HG	37						3.200	13(-)	37
180HG	38						3.616	(14)	38
180HG	39						3.689	15(-)	39
180HG	40		3.704	16+					40
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180HG	41						4.107	(16)	41
180HG	42						4.195	17(-)	42
180HG	43		4.389	18+					43
180HG	44						4.627	(18)	44
180HG	45						4.734	(19-)	45
180HG	46						5.091	(20+)	46
180HG	47						5.310	(21-)	47
180HG	48						5.803	(22+)	48

S-p = 2.551 ( 0.017)-----  
S-n = 11.389 ( 0.031)-----  
S-2p = 2.831 ( 0.016)-----  
S-2n = 20.078 ( 0.017)-----  
S-alpha= -6.258 ( 0.018)-----

S+p = 0.163 ( 0.016)  
S+n = -8.482 ( 0.020)  
S+2p = -1.152 ( 0.017)  
S+2n = -19.469 ( 0.016)  
S+alpha = 6.774 ( 0.018)

gap p = 2.714 ( 0.023)  
gap n = 2.907 ( 0.037)  
gap 2p = 1.679 ( 0.024)  
gap 2n = 0.609 ( 0.023)  
gap alpha = 0.516 ( 0.025)