

$^{206}\text{Bi}$        $Z = 83$        $N = 123$       adopted link      ENSDF link

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

BE = 1617.785 ( 0.008) MeV

Qbeta+ = 3.757 ( 0.008) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-3.527	( 0.008)	-----		
206BI 1	0.000	6+			1 6.243 D 3
206BI 2	0.060	4+			2 7.7 US 2
206BI 3				0.071 (3)+	3
206BI 4				0.083 (5)+	4
206BI 5	0.141	7+			5
206BI 6	0.166	5+			6
206BI 7				0.200 (4)+	7
206BI 8				0.282 (4+,5+)	8
206BI 9				0.353 (3,4)+	9
206BI 10				0.409 (2)+	10
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206BI 11				0.523 (3,4)+	11
206BI 12				0.734 (3+)	12
206BI 13	0.816	8+			13
206BI 14				0.878 (2)+	14
206BI 15				0.897 (3)+	15
206BI 16				0.932 (1)+	16
206BI 17			1.045 10-		17 0.89 MS 1
206BI 18				1.067	18
206BI 19	1.078	2+			19
206BI 20				1.081 (8)-	20
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206BI 21	1.103	2+			21
206BI 22				1.258 9	22
206BI 23	1.267	9+			23
206BI 24				1.389 (1)+	24
206BI 25				1.524 (1)+	25
206BI 26				1.568 (1)+	26
206BI 27				1.600 (1)+	27
206BI 28			1.639 11-		28
206BI 29			1.789 12-		29
206BI 30			2.056 13-		30
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206BI 31			2.499 13-		31
206BI 32				2.542 (9-)	32
206BI 33			2.604 14-		33
206BI 34				2.838	34
206BI 35				2.860 (10-)	35
206BI 36	3.147	15+			36 15.6 NS 3

206BI	37			3.170	(8-)	37
S-p	=	3.547	( 0.008)	-----		
206BI	38			3.568	(11+)	38
206BI	39			3.603	(17)+	39
206BI	40			3.632	(12+)	40
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206BI	41			3.652	(16)+	41
206BI	42			4.023		42
206BI	43			4.076		43
206BI	44			4.305	(18)+	44
206BI	45			4.843	(14-)	45
206BI	46			5.110		46

S-p = 3.547 ( 0.008)-----  
 S-n = 7.034 ( 0.009)-----  
 S-2p = 10.260 ( 0.008)-----  
 S-2n = 15.525 ( 0.012)-----  
 S-alpha= -3.527 ( 0.008)-----

S+p = -4.406 ( 0.010)  
 S+n = -8.098 ( 0.008)  
 S+2p = -7.020 ( 0.012)  
 S+2n = -14.985 ( 0.008)  
 S+alpha = 5.631 ( 0.011)

gap p = -0.860 ( 0.013)  
 gap n = -1.064 ( 0.012)  
 gap 2p = 3.240 ( 0.014)  
 gap 2n = 0.540 ( 0.014)  
 gap alpha = 2.104 ( 0.013)