

$^{197}\text{Bi}$        $Z = 83$        $N = 114$       adopted link      ENSDF link

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

BE = 1544.802 ( 0.008) MeV

Qbeta+ = 5.058 ( 0.010) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-5.365 ( 0.011)				
197BI	1			0.000 (9/2-)	1 9.33 M 50
197BI	2			0.500 (1/2+)	2 5.04 M 16
197BI	3			1.001 (13/2-)	3
197BI	4			1.009 (11/2-)	4
197BI	5			1.196 (13/2+)	5
197BI	6			1.601 (17/2+)	6 15.3 NS 30
S-p =	1.628 ( 0.011)				
197BI	7   1.967	21/2+			7

S-p = 1.628 ( 0.011)-----  
 S-n = 9.749 ( 0.026)-----  
 S-2p = 6.110 ( 0.014)-----  
 S-2n = 17.804 ( 0.010)-----  
 S-alpha= -5.365 ( 0.011)-----

S+p = -3.075 ( 0.019)  
 S+n = -7.758 ( 0.029)  
 S+2p = -3.714 ( 0.010)  
 S+2n = -17.253 ( 0.013)  
 S+alpha = 6.473 ( 0.012)

gap p = -1.447 ( 0.022)  
 gap n = 1.991 ( 0.039)  
 gap 2p = 2.396 ( 0.017)  
 gap 2n = 0.551 ( 0.017)  
 gap alpha = 1.108 ( 0.016)