

^{189}Bi $Z = 83$ $N = 106$ adopted link ENSDF link

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

BE = 1470.609 (0.021) MeV

Qbeta+ = 7.779 (0.025) MeV

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

S-alpha=	-7.268	(0.029)	-----		
S-p	-0.457	(0.023)	-----		
189Bi	1			0.000 (9/2-)	1 688 MS 5
189Bi	2			0.100 (7/2-)	2 10 NS LT
189Bi	3			0.184 (1/2+)	3 5.0 MS 1
189Bi	4			0.358 (13/2+)	4 886 NS 32
189Bi	5			0.778 (17/2+)	5
189Bi	6			1.091 (21/2+)	6
189Bi	7			1.466 (25/2+)	7
189Bi	8			1.912 (29/2+)	8
S-2p	2.198	(0.022)	-----		
189Bi	9			2.422 (33/2+)	9
189Bi	10			2.973 (37/2+)	10

S-p = -0.457 (0.023)-----
 S-n = 10.941 (0.024)-----
 S-2p = 2.198 (0.022)-----
 S-2n = 19.824 (0.023)-----
 S-alpha= -7.268 (0.029)-----

S+p = -1.787 (0.025)
 S+n = -8.603 (0.030)
 S+2p = -0.649 (0.026)
 S+2n = -19.317 (0.022)
 S+alpha = 7.572 (0.030)

gap p = -2.244 (0.034)
 gap n = 2.339 (0.038)
 gap 2p = 1.549 (0.035)
 gap 2n = 0.507 (0.032)
 gap alpha = 0.304 (0.042)