^{199}Bi $Z = 83$ $N = 116$ adopted link   ENSDF link

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

BE   =   1562.055 (0.011) MeV
Qbeta+ =   4.434 (0.013) MeV

	Energy T	J+		J-		J-other		T1/2	
S-alpha= -4.933 (0.015)									
199BI 1			0.000	9/2-			1	27 M	1
199BI 2					0.667	(1/2+)	2	24.70 M	15
199BI 3					0.846	(5/2)-	3		
199BI 4					0.880	(7/2)-	4		
199BI 5					0.913	(3/2+)	5		
199BI 6			1.002	13/2-			6		
199BI 7			1.034	11/2-			7		
199BI 8					1.119	(5/2+)	8		
199BI 9					1.197	(11/2,13/2)-	9		
199BI 10					1.248	(-)	10		
199BI 11					1.321	(-)	11		
199BI 12					1.396	(13/2)+	12		
199BI 13					1.459	(1/2+,3/2+,5/2+ 13)			
199BI 14			1.502	17/2-			14		
199BI 15					1.524		15		
199BI 16					1.619		16		
199BI 17					1.636	(13/2)+	17		
199BI 18	1.648	17/2+					18	34.1 NS	24
199BI 19					1.663		19		
199BI 20					1.683		20		
199BI 21					1.706		21		
199BI 22					1.822		22		
199BI 23					1.922	(21/2+)	23	50 NS	LT

S-p   =   2.019 (0.014)--
S-n   =   9.495 (0.030)--
S-2p   =   7.021 (0.017)--
S-2n   = 17.253 (0.013)--
S-alpha= -4.933 (0.015)--

S+p   = -3.433 (0.013)
S+n   = -7.644 (0.025)
S+2p   = -4.570 (0.013)
S+2n   = -16.774 (0.016)
S+alpha =   6.210 (0.015)

```
gap p      =  -1.414 ( 0.019)
gap n      =   1.851 ( 0.039)
gap 2p     =   2.452 ( 0.022)
gap 2n     =   0.479 ( 0.021)
gap alpha  =   1.277 ( 0.021)
```