

^{204}Bi $Z = 83$ $N = 121$ adopted link ENSDF link

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

BE = 1602.260 (0.009) MeV

Qbeta+ = 4.464 (0.009) MeV

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

S-alpha=	-3.976	(0.011)	-----					
204BI 1	0.000	6+						1 11.22 H 10
204BI 2	0.006	5+						2
204BI 3	0.015	4+						3
204BI 4	0.053	7+						4
204BI 5	0.078	3+						5
204BI 6						0.201 (4)+		6
204BI 7	0.215	2+						7
204BI 8	0.332	3+						8
204BI 9				0.805	10-			9 13.0 MS 1
204BI 10	0.816	8+						10

204BI 11						0.876 (9-)		11
204BI 12	0.896	1+						12
204BI 13	0.942	9+						13
204BI 14						0.983 (2-,3-)		14
204BI 15						1.018 (3)+		15
204BI 16				1.095	2-			16 3.96 NS 8
204BI 17						1.099 1-,2-		17
204BI 18	1.255	1+						18
204BI 19				1.369	1-			19
204BI 20				1.404	1-			20

204BI 21				1.414	11-			21
204BI 22				1.455	12-			22
204BI 23						1.478 (1,2)+		23
204BI 24				1.526	2-			24
204BI 25						1.546 (1)-		25
204BI 26				1.634	1-			26
204BI 27						1.640 12		27
204BI 28						1.775		28
204BI 29						1.789		29
204BI 30				1.822	13-			30

204BI 31				1.915	14-			31
204BI 32						1.968		32
204BI 33						2.223 (13)-		33
204BI 34				2.483	14-			34
204BI 35				2.652	15-			35
204BI 36						2.684 (15-)		36

204BI	37						2.705	(14)-	37
204BI	38						2.820	(12,13,14)-	38
204BI	39		2.833	17+					39 1.07 MS 3
204BI	40						2.835	(15)-	40

S-p	=		3.148	(0.011)	-----				
204BI	41						3.388	(18)+	41
204BI	42				3.516	16-			42
204BI	43						3.809	(19)+	43
S-p	=		3.148	(0.011)	-----				
S-n	=		7.192	(0.016)	-----				
S-2p	=		9.243	(0.009)	-----				
S-2n	=		16.038	(0.017)	-----				
S-alpha	=		-3.976	(0.011)	-----				
S+p	=		-4.165	(0.014)					
S+n	=		-8.491	(0.010)					
S+2p	=		-6.371	(0.016)					
S+2n	=		-15.525	(0.012)					
S+alpha	=		5.751	(0.013)					
gap p	=		-1.016	(0.018)					
gap n	=		-1.299	(0.019)					
gap 2p	=		2.872	(0.019)					
gap 2n	=		0.513	(0.021)					
gap alpha	=		1.775	(0.017)					