

^{205}Bi $Z = 83$ $N = 122$ adopted link ENSDF link

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

BE = 1610.751 (0.005) MeV

Qbeta+ = 2.705 (0.005) MeV

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

S-alpha=	-3.690	(0.015)	-----					
205BI 1				0.000	9/2-			1 14.91 D 7
205BI 2				0.796	11/2-			2
205BI 3				0.850	7/2-			3
205BI 4				0.872	5/2-			4
205BI 5				0.881	13/2-			5
205BI 6				1.001	7/2-			6
205BI 7							1.044 (9/2)-	7
205BI 8				1.110	13/2-			8
205BI 9				1.168	15/2-			9
205BI 10							1.194 (9/2,11/2,13/2)-	10

205BI 11				1.239	7/2-			11
205BI 12							1.310 (13/2)-	12
205BI 13				1.336	5/2-			13
205BI 14				1.344	17/2-			14
205BI 15							1.437 (13/2,15/2)-	15
205BI 16				1.472	1/2-			16
205BI 17							1.487 3/2-,5/2-	17
205BI 18		1.497		1/2+				18 7.9 US 7
205BI 19							1.572 (17/2)-	19
205BI 20		1.592		13/2+				20

205BI 21				1.701	15/2-			21
205BI 22		1.709		3/2+				22 105 PS 10
205BI 23				1.838	15/2-			23
205BI 24							1.960 (3/2)-	24
205BI 25		1.970		5/2+				25
205BI 26		2.041		17/2+				26
205BI 27		2.065		21/2+				27 100 NS 6
205BI 28		2.139		25/2+				28 220 NS 25
205BI 29							2.140 (5/2)-	29
205BI 30							2.196 (3/2-,5/2-,7/2)	30-

205BI 31							2.310 (5/2-,7/2-)	31
205BI 32							2.386 (3/2)-	32
205BI 33							2.424 (3/2,5/2)+	33
205BI 34							2.448 (3/2,5/2,7/2)	34
205BI 35							2.574 (5/2-,7/2)	35
205BI 36							2.579 (3/2-,5/2,7/2)	36

205BI 37						2.640	5/2-,7/2-	37
205BI 38						2.684	(5/2,7/2)	38
205BI 39						2.740		39
205BI 40		2.780	27/2+					40

205BI 41						2.790	(3/2,5/2)-	41
205BI 42						2.870	(5/2)-	42
205BI 43						2.893	(3/2,5/2)+	43
205BI 44				2.951	5/2-			44
205BI 45						3.010	(5/2)-	45
205BI 46						3.060	(5/2)-	46
205BI 47						3.170	(3/2)-	47
205BI 48						3.198	(27/2)+	48
205BI 49		3.201	29/2+					49
205BI 50						3.220	(3/2)-	50

S-p	=	3.245	(0.005)	-----				
205BI 51						3.300		51
205BI 52						3.360		52
205BI 53				3.380	29/2-			53 2.54 NS 6
205BI 54						3.390		54
205BI 55						3.410		55
205BI 56				3.896	31/2-			56
205BI 57				4.019	33/2-			57
205BI 58				4.172	35/2-			58
205BI 59		4.181	31/2+					59
205BI 60				4.650	35/2-			60

205BI 61				4.695	37/2-			61
205BI 62				4.934	37/2-			62
205BI 63		4.958	33/2+					63
205BI 64		5.164	35/2+					64
205BI 65						5.393	(35/2,37/2)+	65
205BI 66						5.406	39/2(-)	66
205BI 67						5.485	(37/2)+	67
205BI 68						5.581		68
205BI 69						5.876		69
205BI 70						5.931	(39/2)+	70

205BI 71						5.942		71
205BI 72						5.948		72
205BI 73						6.452		73
205BI 74						6.719		74

S-p = 3.245 (0.005)-----
S-n = 8.491 (0.010)-----
S-2p = 9.882 (0.005)-----
S-2n = 15.683 (0.014)-----
S-alpha= -3.690 (0.015)-----

S+p = -4.412 (0.006)
S+n = -7.034 (0.009)
S+2p = -6.740 (0.013)
S+2n = -15.132 (0.005)
S+alpha = 5.757 (0.007)

gap p = -1.167 (0.008)
gap n = 1.457 (0.014)
gap 2p = 3.142 (0.014)
gap 2n = 0.552 (0.015)
gap alpha = 2.067 (0.016)