

^{249}Bk $Z = 97$ $N = 152$ adopted link ENSDF link

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

BE = 1864.024 (0.001) MeV

Qbeta- = 0.124 (0.002) MeV

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

S-alpha=	-5.521	(0.002)	-----		
249BK 1	0.000	7/2+			1 330 D 4
249BK 2			0.009	3/2-	2 0.3 MS
249BK 3				0.040 (5/2-)	3
249BK 4	0.042	9/2+			4 9 PS 2
249BK 5			0.083	7/2-	5
249BK 6	0.094	11/2+			6 5 PS 1
249BK 7				0.138 (9/2-)	7
249BK 8	0.156	13/2+			8
249BK 9				0.205 (11/2-)	9
249BK 10				0.229 (15/2+)	10

249BK 11				0.283 (13/2-)	11
249BK 12				0.312 (17/2+)	12
249BK 13				0.373 (15/2-)	13
249BK 14				0.378 (1/2+)	14
249BK 15	0.389	5/2+			15
249BK 16				0.411 (3/2+)	16
249BK 17				0.421 (5/2+)	17
249BK 18	0.429	7/2+			18
249BK 19			0.474	17/2-	19
249BK 20				0.475 (9/2+)	20

249BK 21	0.499	7/2+			21
249BK 22				0.519 (7/2+)	22
249BK 23				0.542 (11/2+)	23
249BK 24				0.553 (1/2)	24
249BK 25				0.558 (3/2-)	25
249BK 26				0.569 (1/2-)	26
249BK 27				0.570	27
249BK 28				0.598 (13/2+)	28
249BK 29				0.607 (7/2-)	29
249BK 30				0.624 (5/2)	30

249BK 31				0.625 (5/2-)	31
249BK 32				0.625 (9/2-)	32
249BK 33				0.643 (1/2-)	33
249BK 34				0.654	34
249BK 35				0.662 (3/2-)	35
249BK 36	0.671	13/2+			36

249BK 37		0.673	5/2+				37
249BK 38						0.682 (11/2-)	38
249BK 39						0.702 (15/2+)	39
249BK 40						0.703 (7/2-)	40

249BK 41					0.705 11/2-		41
249BK 42					0.709 5/2-		42
249BK 43						0.711 7/2	43
249BK 44					0.723 9/2-		44
249BK 45						0.750 (9/2-)	45
249BK 46						0.768 (9/2-)	46
249BK 47						0.769 (9/2)	47
249BK 48						0.794	48
249BK 49						0.836 (11/2-)	49
249BK 50						0.840	50

249BK 51						0.900 (3/2,5/2)	51
249BK 52						0.909	52
249BK 53						0.911 (13/2-)	53
249BK 54						0.932 (7/2-)	54
249BK 55						0.935 (3/2-,5/2,7/2)	55
249BK 56						0.947	56
249BK 57						0.988 (9/2-)	57
249BK 58						1.056 (11/2-)	58
249BK 59						1.075 (9/2+)	59
249BK 60						1.134 (13/2-)	60

249BK 61						1.144 (11/2+)	61
249BK 62						1.151 (5/2-)	62
249BK 63						1.186	63
249BK 64						1.223 (7/2+)	64
249BK 65						1.228 (13/2+)	65
249BK 66						1.311	66
249BK 67						1.347	67
249BK 68						1.390	68

S-p = 4.836 (0.003)-----
S-n = 6.356 (0.050)-----
S-2p = 11.771 (0.001)-----
S-2n = 11.786 (0.005)-----
S-alpha= -5.521 (0.002)-----

S+p = -5.965 (0.002)
S+n = -4.966 (0.003)
S+2p = -9.913 (0.005)
S+2n = -10.761 (0.011)
S+alpha = 6.739 (0.002)

gap p = -1.129 (0.003)

gap n = 1.391 (0.050)
gap 2p = 1.859 (0.006)
gap 2n = 1.025 (0.012)
gap alpha = 1.219 (0.003)