

^{203}At $Z = 85$ $N = 118$ adopted link ENSDF link

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

BE = 1584.141 (0.011) MeV

Qbeta+ = 5.148 (0.012) MeV

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

S-alpha=	-6.210 (0.015)				
203AT 1			0.000 9/2-		1 7.4 M 2
203AT 2			0.221 7/2-		2
203AT 3			0.649 13/2-		3
203AT 4			0.660 11/2-		4
203AT 5	0.683	1/2+			5 3.5 MS 6
203AT 6				0.861 (3/2+)	6
203AT 7	0.872	13/2+			7 2.8 NS 21
203AT 8				1.018 (5/2+)	8
203AT 9			1.225 17/2-		9
203AT 10				1.304 (7/2+)	10

203AT 11	1.379	15/2+			11
203AT 12				1.504 (9/2+)	12

S-p	= 1.510 (0.014)				
203AT 13	1.633	17/2+			13
203AT 14			1.636 21/2-		14
203AT 15	1.695	17/2+			15
203AT 16				1.870 (11/2+)	16
203AT 17				1.942 (19/2+)	17
203AT 18			1.964 23/2-		18
203AT 19				1.980 (21/2+)	19
203AT 20				1.993 (23/2+)	20

203AT 21	2.044	25/2+			21 13.9 NS 14
203AT 22			2.072 21/2-		22
203AT 23				2.099 (13/2+)	23
203AT 24	2.330	29/2+			24 9.77 US 21
203AT 25				2.491	25
203AT 26				2.537 (25/2+)	26
203AT 27				2.640 (25/2-)	27
203AT 28				2.751	28
203AT 29				2.756	29
203AT 30				2.888	30

203AT 31				2.953	31
203AT 32				2.989	32
203AT 33				3.013	33
203AT 34				3.071	34
203AT 35				3.175	35

203AT 36				3.250	(33/2+)	36
203AT 37				3.311		37
203AT 38				3.319		38
203AT 39				3.349	(29/2-)	39
203AT 40				3.486	(27/2+)	40

203AT 41				3.548		41
203AT 42				3.616		42
203AT 43				3.619	(29/2+)	43
203AT 44				3.769		44
203AT 45		3.770	37/2+			45
203AT 46				3.773		46
203AT 47				3.843	(31/2+)	47
203AT 48				3.947		48
203AT 49				4.102	(33/2+)	49
203AT 50				4.385	(35/2+)	50

203AT 51				4.639	(37/2+)	51
203AT 52				4.818	(39/2+)	52
203AT 53				5.011	(41/2+)	53
S-2p	=	5.312	(0.016)	-----		
203AT 54				5.333	(43/2+)	54
203AT 55				5.714	(45/2+)	55

S-p	=	1.510	(0.014)	-----		
S-n	=	9.639	(0.030)	-----		
S-2p	=	5.312	(0.016)	-----		
S-2n	=	17.516	(0.013)	-----		
S-alpha	=	-6.210	(0.015)	-----		

S+p	=	-3.096	(0.013)			
S+n	=	-7.784	(0.025)			
S+2p	=	-3.725	(0.013)			
S+2n	=	-16.964	(0.016)			
S+alpha	=	6.889	(0.021)			

gap p	=	-1.586	(0.019)			
gap n	=	1.855	(0.039)			
gap 2p	=	1.587	(0.021)			
gap 2n	=	0.551	(0.021)			
gap alpha	=	0.679	(0.025)			