

$^{205}\text{At}$        $Z = 85$        $N = 120$       adopted link      ENSDF link

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

BE = 1601.105 ( 0.012) MeV

Qbeta+ = 4.537 ( 0.016) MeV

	Energy T	J+	J-	J-other	T1/2
-----					
S-alpha=	-6.020	( 0.017)	-----		
205AT 1			0.000	9/2-	1 26.9 M 8
205AT 2				0.265 (7/2)-	2
205AT 3				0.620 (5/2-,7/2)	3
205AT 4			0.638	11/2-	4
205AT 5			0.664	13/2-	5
205AT 6				0.730 (5/2-,7/2)	6
205AT 7				0.940 (3/2-,5/2,7/2)	7
205AT 8	0.970	13/2+			8
205AT 9			1.132	15/2-	9
205AT 10			1.231	17/2-	10
-----					
205AT 11	1.441	15/2+			11
205AT 12			1.564	21/2-	12
205AT 13	1.756	17/2+			13
205AT 14			1.862	19/2-	14
205AT 15	1.878	17/2+			15
-----					
S-p	=	1.932	( 0.016)	-----	
205AT 16			1.936	23/2-	16
205AT 17	2.054	21/2+			17
205AT 18	2.063	25/2+			18 66.6 NS 12
205AT 19	2.340	29/2+			19 7.76 US 14
205AT 20			2.499	27/2-	20
-----					

S-p = 1.932 ( 0.016)-----  
 S-n = 9.181 ( 0.026)-----  
 S-2p = 6.038 ( 0.018)-----  
 S-2n = 16.964 ( 0.016)-----  
 S-alpha= -6.020 ( 0.017)-----

S+p = -3.437 ( 0.015)  
 S+n = -7.526 ( 0.018)  
 S+2p = -4.443 ( 0.021)  
 S+2n = -16.386 ( 0.017)  
 S+alpha = 6.777 ( 0.017)

gap p = -1.505 ( 0.022)  
 gap n = 1.654 ( 0.031)

gap 2p = 1.595 ( 0.028)  
gap 2n = 0.579 ( 0.024)  
gap alpha = 0.758 ( 0.024)