

$^{210}\text{At}$        $Z = 85$        $N = 125$       adopted link      ENSDF link

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

BE = 1640.449 ( 0.008) MeV

Qbeta+ = 3.981 ( 0.008) MeV

	Energy T	J+	J-	J-other	T1/2
-----					
S-alpha=	-5.631 ( 0.011)				
210AT 1				0.000 (5)+	1 8.1 H 4
210AT 2				0.073 (4)+	2
210AT 3				0.496 (4)+	3
210AT 4				0.507 (6)+	4
210AT 5				0.531 (3)+	5
210AT 6				0.576 (7)+	6
210AT 7				0.594	7
210AT 8				0.604	8
210AT 9				0.721 (3)+	9
210AT 10				0.769 (2)+	10
-----					
210AT 11				0.837	11
210AT 12				0.847	12
210AT 13				0.966	13
210AT 14				0.985 (3+)	14
210AT 15				1.037 (3)+	15
210AT 16				1.053 (2)+	16
210AT 17				1.129 (2)+	17
210AT 18				1.222 (8+)	18
210AT 19				1.252 (9)+	19
210AT 20				1.292 (2)+	20
-----					
210AT 21				1.363 (11)+	21 24.8 NS 7
210AT 22				1.403 (8+)	22
210AT 23				1.489 (1)+	23
210AT 24				1.495 (10)+	24
210AT 25				1.526 (1)+	25
210AT 26				1.689 (10)-	26 15.5 NS 10
210AT 27				1.740 (10)+	27
210AT 28				1.819 (11)+	28
210AT 29				1.905 (12)+	29
210AT 30				1.913	30
-----					
210AT 31				1.928 (11+)	31
210AT 32				1.967 (1,2)-	32
210AT 33				1.970 (12)+	33
210AT 34				2.043 (13)+	34
210AT 35				2.281 (0,1)-	35
210AT 36				2.459	36

210AT 37				2.467	(13+)	37		
210AT 38				2.550	(15)-	38	0.482 US 6	
210AT 39				2.572	(14-)	39	1 NS LE	
210AT 40				2.600	(13-)	40		
-----								
210AT 41				2.641		41		
210AT 42				2.650		42		
210AT 43				2.665	(14)-	43		
210AT 44				2.684	(13)-	44		
210AT 45				2.783	(14)-	45		
210AT 46				2.877	(14+)	46		
S-p =	2.895	(	0.008)	-----				
210AT 47				3.071	(14-)	47		
210AT 48				3.107	(16)-	48		
210AT 49				3.112		49		
210AT 50				3.177	(15-)	50		
-----								
210AT 51				3.263	(15-)	51		
210AT 52				3.323	(15-)	52		
210AT 53				3.349		53		
210AT 54				3.416	(16-)	54		
210AT 55				3.423	(15-)	55		
210AT 56				3.542	(17)-	56		
210AT 57				3.552	(15)-	57		
210AT 58				3.578	(15-)	58		
210AT 59				3.655	(16)-	59		
210AT 60				3.774		60		
-----								
210AT 61				4.028	(19)+	61	5.66 US 7	
210AT 62				4.078	(17+)	62		
210AT 63				4.199	(18+)	63		
210AT 64				4.236		64		
210AT 65				4.427		65		
210AT 66				4.468	(20)+	66		
210AT 67				4.751		67		
210AT 68				4.786		68		
210AT 69				4.814	(20+)	69		
210AT 70				4.976		70		
-----								
210AT 71				4.986		71		
210AT 72				5.064	(21-)	72		
210AT 73				5.175	(22-)	73		
210AT 74				5.248		74		
210AT 75				5.333		75		
210AT 76				5.353		76		
210AT 77				5.453		77		
210AT 78				5.578		78		
210AT 79				5.719		79		
210AT 80				5.836		80		
-----								

210AT 81			5.840		81
210AT 82			5.848		82
210AT 83			5.894		83
210AT 84			5.933		84
210AT 85			5.949	(22)	85
210AT 86			5.970	(23-)	86
210AT 87			6.199	(22-)	87
210AT 88			6.275	(23-)	88
210AT 89			6.287		89
210AT 90			6.414		90
-----					
210AT 91			6.428		91
210AT 92			6.468	(-)	92
210AT 93			6.525	(24-)	93
210AT 94			6.635		94
210AT 95			6.644		95
210AT 96			6.931		96
210AT 97			6.959	(26-)	97 98 NS 2
S-n = 7.160 ( 0.009)	-----				
210AT 98			7.204		98
210AT 99			7.262		99
210AT 100			7.369		100
-----					
210AT 101			7.409		101
210AT 102			7.414		102
210AT 103			7.472		103
210AT 104			7.476		104
210AT 105			7.603		105
210AT 106			7.659		106
S-2p = 7.680 ( 0.008)	-----				
210AT 107			7.719		107
210AT 108			7.775		108
210AT 109			7.803		109
210AT 110			7.831		110
-----					
210AT 111			7.847	(29+)	111 36.0 NS 14
210AT 112			7.955		112
210AT 113			8.011		113
210AT 114			8.019		114
210AT 115			8.045		115
210AT 116			8.064		116
210AT 117			8.122		117
210AT 118			8.212		118
210AT 119			8.280		119
210AT 120			8.376		120
-----					
210AT 121			8.557		121
210AT 122			8.565		122
210AT 123			8.956		123
210AT 124			9.067		124

```
S-p    =  2.895 ( 0.008)-----  
S-n    =  7.160 ( 0.009)-----  
S-2p   =  7.680 ( 0.008)-----  
S-2n   = 15.645 ( 0.012)-----  
S-alpha= -5.631 ( 0.011)-----  
  
S+p    = -4.072 ( 0.010)  
S+n    = -7.746 ( 0.008)  
S+2p   = -6.122 ( 0.012)  
S+2n   = -12.799 ( 0.008)  
S+alpha =  8.589 ( 0.011)  
  
gap p   = -1.177 ( 0.013)  
gap n   = -0.587 ( 0.012)  
gap 2p  =  1.558 ( 0.014)  
gap 2n  =  2.846 ( 0.014)  
gap alpha =  2.958 ( 0.016)
```