

$^{205}\text{Pb}$        $Z = 82$        $N = 123$       adopted link      ENSDF link

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

BE = 1614.238 ( 0.001) MeV

Qbeta+ = 0.051 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-1.467	( 0.001)	-----		
205PB 1			0.000	5/2-	1 1.70E+7 Y 9
205PB 2			0.002	1/2-	2 24.2 US 4
205PB 3			0.263	3/2-	3
205PB 4			0.576	3/2-	4
205PB 5			0.703	7/2-	5
205PB 6			0.761	5/2-	6
205PB 7				0.803 (1/2,3/2)-	7
205PB 8			0.988	9/2-	8
205PB 9				0.998 (1/2,3/2)-	9
205PB 10	1.014	13/2+			10 5.55 MS 2
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205PB 11			1.044	7/2-	11
205PB 12			1.265	5/2-	12
205PB 13				1.374 (1/2,3/2)-	13
205PB 14			1.499	9/2-	14
205PB 15				1.541	15
205PB 16			1.575	9/2-	16
205PB 17	1.594	9/2+			17
205PB 18			1.614	7/2-	18
205PB 19				1.618 (1/2-,3/2-)	19
205PB 20	1.697	17/2+			20 0.4 NS LT
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205PB 21				1.705 (7/2,9/2)-	21
205PB 22				1.748 (1/2-,3/2-)	22
205PB 23				1.756 (7/2,9/2-)	23
205PB 24	1.759	9/2+			24
205PB 25			1.764	7/2-	25
205PB 26			1.776	7/2-	26
205PB 27				1.812 (1/2-,3/2-)	27
205PB 28				1.818 (3/2-,5/2-)	28
205PB 29				1.831	29
205PB 30				1.842 (13/2)+	30
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205PB 31				1.920 (1/2-,3/2-)	31
205PB 32				1.966 (7/2,9/2-)	32
205PB 33				2.019	33
205PB 34	2.021	19/2+			34 0.4 NS LT
205PB 35				2.087 (1/2-,3/2-)	35
205PB 36				2.118 (1/2-,3/2-)	36

205PB 37		2.204	11/2+				37
205PB 38						2.252 (7/2)+	38
205PB 39						2.291	39
205PB 40						2.353 (1/2,3/2)-	40
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205PB 41						2.361 (1/2-,3/2-)	41
205PB 42						2.420 (11/2-,13/2-)	42
205PB 43						2.486 (1/2-,3/2-)	43
205PB 44						2.488 (9/2)+	44
205PB 45						2.521 (7/2)-	45
205PB 46						2.556 (21/2+)	46
205PB 47						2.556 (1/2-,3/2-)	47
205PB 48		2.565	9/2+				48
205PB 49						2.566 (1/2-,3/2-)	49
205PB 50						2.597 (7/2+,9/2+)	50
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205PB 51		2.607	9/2+				51
205PB 52						2.633 (1/2-,3/2-)	52
205PB 53						2.634 (9/2+,7/2+)	53
205PB 54						2.657 (9/2+,7/2+)	54
205PB 55						2.667 (9/2+,7/2+)	55
205PB 56						2.686 (9/2+,7/2+)	56
205PB 57						2.692 (9/2)-	57
205PB 58						2.702 (9/2+,7/2+)	58
205PB 59		2.708	9/2+				59
205PB 60						2.745 (9/2+,7/2+)	60
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205PB 61						2.779	61
205PB 62		2.795	1/2+				62
205PB 63						2.798 (9/2+,7/2+)	63
205PB 64						2.862	64
205PB 65						2.903 (9/2)-	65
205PB 66						2.931	66
205PB 67						2.993	67
205PB 68						3.010	68
205PB 69						3.043	69
205PB 70						3.074	70
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205PB 71						3.091	71
205PB 72						3.119	72
205PB 73						3.160	73
205PB 74					3.168	21/2-	74
205PB 75						3.192	75
205PB 76					3.196	25/2-	76
205PB 77						3.220	77
205PB 78						3.249	78
205PB 79						3.306	79
205PB 80						3.334	80
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205PB 81						3.393	81

205PB 82				3.422		82
205PB 83				3.435		83
205PB 84				3.481		84
205PB 85				3.511		85
205PB 86				3.521	(23/2-)	86
205PB 87				3.533		87
205PB 88				3.566		88
205PB 89				3.592		89
205PB 90				3.613		90
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205PB 91			3.626	29/2-		91 0.7 NS LT
205PB 92				3.640		92
205PB 93				3.651	(25/2-)	93
205PB 94				3.659		94
205PB 95				3.764		95
205PB 96				3.834		96
205PB 97				3.857		97
205PB 98				3.889		98
205PB 99				3.910	(27/2-)	99
205PB 100				3.933	(7/2)-	100
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205PB 101				3.950		101
205PB 102				3.961		102
205PB 103				3.988		103
205PB 104				4.002		104
205PB 105	4.016	1/2+				105
205PB 106	4.055	1/2+				106
205PB 107				4.074		107
205PB 108				4.097		108
205PB 109				4.116		109
205PB 110				4.127		110
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205PB 111				4.156		111
205PB 112				4.187		112
205PB 113				4.199		113
205PB 114				4.214		114
205PB 115				4.239		115
205PB 116				4.254		116
205PB 117				4.299		117
205PB 118				4.320		118
205PB 119				4.326		119
205PB 120				4.337		120
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205PB 121				4.342		121
205PB 122				4.361		122
205PB 123				4.372		123
205PB 124				4.389		124
205PB 125				4.412		125
205PB 126				4.428		126
205PB 127				4.443		127

205PB 128			4.447		128
205PB 129			4.452		129
205PB 130			4.490		130
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205PB 131			4.497		131
205PB 132			4.532		132
205PB 133			4.539		133
205PB 134			4.552		134
205PB 135			4.558		135
205PB 136			4.583		136
205PB 137			4.590		137
205PB 138			4.624		138
205PB 139			4.642		139
205PB 140			4.656		140
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205PB 141			4.693		141
205PB 142			4.709		142
205PB 143			4.722		143
205PB 144			4.745		144
205PB 145			4.760		145
205PB 146			4.777		146
205PB 147			4.787		147
205PB 148			4.803		148
205PB 149			4.840		149
205PB 150			4.874		150
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205PB 151			4.891		151
205PB 152			4.913		152
205PB 153			4.936		153
205PB 154			4.954		154
205PB 155			4.978		155
205PB 156			4.990		156
205PB 157			4.996		157
205PB 158			5.004		158
205PB 159			5.014		159
205PB 160			5.040		160
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205PB 161			5.065	(29/2+)	161 3.5 NS LT
205PB 162			5.065		162
205PB 163			5.076		163
205PB 164			5.083		164
205PB 165			5.100		165
205PB 166			5.120		166
205PB 167			5.139		167
205PB 168			5.162	(33/2+)	168 63 NS 3
205PB 169			5.167		169
205PB 170			5.173		170
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205PB 171			5.180		171
205PB 172			5.192		172

205PB 173			5.204		173			
205PB 174			5.209		174			
205PB 175			5.226		175			
205PB 176			5.242		176			
205PB 177			5.256		177			
205PB 178			5.285	(27/2-)	178	0.7 NS	LT	
205PB 179			5.285		179			
205PB 180			5.304		180			
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205PB 181			5.317		181			
205PB 182			5.325		182			
205PB 183			5.344		183			
205PB 184			5.364		184			
205PB 185			5.378		185			
205PB 186			5.390	(29/2-)	186			
205PB 187			5.399		187			
205PB 188			5.418		188			
205PB 189			5.439		189			
205PB 190			5.452		190			
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205PB 191			5.473		191			
205PB 192			5.486		192			
205PB 193			5.514		193			
205PB 194			5.534		194			
205PB 195			5.572		195			
205PB 196			5.598		196			
205PB 197			5.623		197			
205PB 198			5.735	(29/2-)	198	0.7 NS	LT	
205PB 199			5.760		199			
205PB 200			5.903	(31/2-)	200	14 NS	LT	
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205PB 201			6.140	(33/2+)	201			
205PB 202			6.200		202			
205PB 203			6.319	(33/2-)	203	14 NS	LT	
205PB 204			6.450		204			
205PB 205			6.534	(35/2+)	205	14 NS	LT	
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S-p	=	6.713	( 0.002)	-----				
S-n	=	6.732	( 0.002)	-----				
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205PB 206			6.866	(37/2+)	206			
205PB 207			6.900		207			
205PB 208			7.200		208			
205PB 209			7.500		209			
205PB 210			7.800		210			
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S-p = 6.713 ( 0.002)-----  
S-n = 6.732 ( 0.002)-----  
S-2p = 13.079 ( 0.002)-----  
S-2n = 15.126 ( 0.007)-----

S-alpha= -1.467 ( 0.001)-----

S+p = -3.547 ( 0.008)

S+n = -8.086 ( 0.002)

S+2p = -7.953 ( 0.007)

S+2n = -14.824 ( 0.002)

S+alpha = 4.979 ( 0.002)

gap p = 3.166 ( 0.008)

gap n = -1.355 ( 0.002)

gap 2p = 5.126 ( 0.007)

gap 2n = 0.302 ( 0.007)

gap alpha = 3.512 ( 0.003)