

$^{141}\text{Ba}$        $Z = 56$        $N = 85$       adopted link      ENSDF link

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

BE = 1173.977 ( 0.005) MeV

Qbeta- = 3.197 ( 0.007) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-0.226	( 0.005)	-----		
141BA 1			0.000	3/2-	1 18.27 M 7
141BA 2				0.049 (5/2)-	2 2.3 NS 4
141BA 3				0.055 (7/2)-	3 5.2 NS 5
141BA 4				0.610 (9/2-)	4
141BA 5				0.644 (11/2-)	5
141BA 6				0.709	6
141BA 7				0.747 (9/2-)	7
141BA 8				0.827	8
141BA 9				1.056	9
141BA 10				1.117	10
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141BA 11				1.187 (13/2-)	11
141BA 12				1.196	12
141BA 13				1.202	13
141BA 14				1.214	14
141BA 15				1.227	15
141BA 16				1.230	16
141BA 17				1.232	17
141BA 18				1.249	18
141BA 19				1.257 (11/2)	19
141BA 20				1.302 (15/2-)	20
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141BA 21				1.342 (13/2+)	21
141BA 22				1.432	22
141BA 23				1.504	23
141BA 24				1.546	24
141BA 25				1.572	25
141BA 26				1.583	26
141BA 27				1.630	27
141BA 28				1.654	28
141BA 29				1.677	29
141BA 30				1.690	30
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141BA 31				1.710	31
141BA 32				1.717	32
141BA 33				1.720 (17/2-)	33
141BA 34				1.764	34
141BA 35				1.765	35
141BA 36				1.836 (17/2+)	36

141BA 37				1.845		37
141BA 38				1.854		38
141BA 39				1.874		39
141BA 40				1.942		40
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141BA 41				2.010		41
141BA 42				2.062		42
141BA 43				2.107		43
141BA 44				2.115	(19/2-)	44
141BA 45				2.143		45
141BA 46				2.172	(19/2-)	46
141BA 47				2.274		47
141BA 48				2.329	(21/2-)	48
141BA 49				2.364		49
141BA 50				2.383		50
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141BA 51				2.395		51
141BA 52				2.433	(21/2+)	52
141BA 53				2.450		53
141BA 54				2.781	(23/2-)	54
141BA 55				2.875		55
141BA 56				2.944	(23/2+)	56
141BA 57				2.950	(23/2-)	57
141BA 58				2.973		58
141BA 59				3.005		59
141BA 60				3.032		60
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141BA 61				3.043		61
141BA 62				3.078		62
141BA 63				3.088		63
141BA 64				3.100		64
141BA 65				3.112		65
141BA 66				3.120		66
141BA 67				3.128	(25/2+)	67
141BA 68				3.133		68
141BA 69				3.170		69
141BA 70				3.175	(25/2-)	70
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141BA 71				3.190		71
141BA 72				3.243		72
141BA 73				3.247		73
141BA 74				3.259		74
141BA 75				3.273		75
141BA 76				3.316		76
141BA 77				3.335		77
141BA 78				3.432		78
141BA 79				3.442		79
141BA 80				3.457		80
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141BA 81				3.472	(27/2-)	81

141BA 82				3.493	(27/2+)	82
141BA 83				3.820	(27/2-)	83
141BA 84				3.834	(29/2+)	84
141BA 85				3.908	(29/2-)	85
141BA 86				4.239	5/2+,7/2+,9/2+	86
141BA 87				4.244	(31/2+)	87
141BA 88				4.304	(31/2-)	88
141BA 89				4.364	5/2+,7/2+,9/2+	89
141BA 90				4.533	5/2+,7/2+,9/2+	90
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S-n	=	4.536	( 0.010)	-----		
141BA 91				4.545	5/2+,7/2+,9/2+	91
141BA 92				4.591	5/2+,7/2+,9/2+	92
141BA 93				4.619	(33/2+)	93
141BA 94				4.671	5/2+,7/2+,9/2+	94
141BA 95				4.932	(35/2+)	95
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S-p	=	9.972	( 0.010)	-----		
S-n	=	4.536	( 0.010)	-----		
S-2p	=	18.666	( 0.006)	-----		
S-2n	=	10.961	( 0.005)	-----		
S-alpha	=	-0.226	( 0.005)	-----		
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S+p	=	-7.580	( 0.008)			
S+n	=	-6.181	( 0.008)			
S+2p	=	-16.452	( 0.006)			
S+2n	=	-10.347	( 0.009)			
S+alpha	=	0.241	( 0.034)			
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gap p	=	2.391	( 0.013)			
gap n	=	-1.645	( 0.012)			
gap 2p	=	2.214	( 0.008)			
gap 2n	=	0.614	( 0.010)			
gap alpha	=	0.015	( 0.035)			