

$^{146}\text{Ba}$        $Z = 56$        $N = 90$       adopted link      ENSDF link

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

BE = 1199.467 ( 0.002) MeV

Qbeta- = 4.355 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2
146BA 1	0.000	0+			1 2.21 S 6
146BA 2	0.181	2+			2 0.859 NS 26
146BA 3	0.514	4+			3 18 PS 15
146BA 4			0.739 1-		4 160 PS 10
146BA 5			0.821 3-		5 237 PS 8
146BA 6	0.958	6+			6
146BA 7			1.025 5-		7
146BA 8	1.052	0+			8 26 PS LT
146BA 9				1.115 (1,2)+	9
146BA 10				1.158	10
146BA 11				1.256 (1,2)+	11
146BA 12	1.309	3+			12
146BA 13				1.342 (0+)	13
146BA 14			1.349 7-		14
146BA 15	1.399	2+			15
146BA 16				1.411	16
146BA 17	1.483	8+			17
146BA 18			1.511 1-		18
146BA 19				1.528 (3)	19
146BA 20				1.566 (2+)	20
146BA 21				1.632	21
146BA 22				1.638	22
146BA 23				1.656 (1,2+)	23
146BA 24				1.669	24
146BA 25				1.683	25
146BA 26				1.715 (1,2+)	26
146BA 27			1.778 9-		27
146BA 28				1.780	28
146BA 29			1.875 6-		29
146BA 30				1.933	30
146BA 31			1.945 7-		31
146BA 32				1.969 (1,2+)	32
146BA 33				1.974	33
146BA 34				1.980	34
146BA 35				1.996 (1,2+)	35
146BA 36				2.029 (8+)	36
146BA 37				2.038	37

146BA 38		2.052	10+						38
146BA 39							2.060		39
S-alpha= 2.062 ( 0.003)-----									
146BA 40					2.090	8-			40
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146BA 41								2.097 (7-)	41
146BA 42								2.135	42
146BA 43								2.162	43
146BA 44								2.171	44
146BA 45					2.191	9-			45
146BA 46								2.209	46
146BA 47								2.213 (8,9-)	47
146BA 48					2.293	11-			48
146BA 49								2.344 (1,2+)	49
146BA 50								2.350 (9-)	50
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146BA 51								2.389 (10-)	51
146BA 52								2.443 (10+)	52
146BA 53					2.516	11-			53
146BA 54								2.530 (10,11-)	54
146BA 55		2.632	12+						55
146BA 56								2.710	56
146BA 57								2.791 (12-)	57
146BA 58					2.876	13-			58
146BA 59					2.939	13-			59
146BA 60								2.954	60
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146BA 61		3.193	14+						61
146BA 62								3.298 (14-)	62
146BA 63								3.452 (15-)	63
146BA 64								3.524	64
146BA 65								3.737 (16+)	65
146BA 66								4.072 (17-)	66

S-p = 12.101 ( 0.009)-----  
S-n = 5.421 ( 0.009)-----  
S-2p = 22.572 ( 0.006)-----  
S-2n = 9.242 ( 0.007)-----  
S-alpha= 2.062 ( 0.003)-----

S+p = -9.101 ( 0.011)  
S+n = -3.469 ( 0.020)  
S+2p = -20.110 ( 0.011)  
S+2n = -8.821 ( 0.002)  
S+alpha = -2.406 ( 0.012)

gap p = 3.000 ( 0.014)  
gap n = 1.952 ( 0.022)  
gap 2p = 2.462 ( 0.013)

gap 2n = 0.421 ( 0.008)  
gap alpha = -0.344 ( 0.012)