

$^{133}\text{Sb}$        $Z = 51$        $N = 82$       adopted link      ENSDF link

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

BE = 1112.509 ( 0.003) MeV

Qbeta- = 4.014 ( 0.004) MeV

	Energy T	J+	J-	J-other	T1/2
133SB	1			0.000 (7/2+)	1 2.34 M 5
133SB	2			0.962 (5/2+)	2
133SB	3			2.440 (3/2+)	3
133SB	4			2.792 (11/2-)	4 11.4 PS 45
133SB	5			3.823	5
133SB	6			4.029	6
133SB	7			4.150 (11/2)	7
133SB	8			4.184	8
133SB	9			4.192 (11/2+)	9
133SB	10			4.210	10
133SB	11			4.215	11
133SB	12			4.245	12
133SB	13			4.290	13
133SB	14			4.294 (9/2,11/2,13/2)	14
133SB	15			4.296	15
133SB	16			4.297 (13/2-)	16
133SB	17			4.302 (13/2+)	17
133SB	18			4.307	18
133SB	19			4.359 (15/2-)	19
133SB	20			4.464 (15/2+)	20
133SB	21			4.525 (17/2+)	21
133SB	22			4.537	22
133SB	23			4.560 (21/2+)	23 16.54 US 19
133SB	24			4.573	24
133SB	25			4.625	25
133SB	26			4.635	26
133SB	27			4.650	27
133SB	28			4.786	28
133SB	29			4.801	29
133SB	30			4.830 (5/2,7/2,9/2)	30
133SB	31			4.898 (7/2,9/2)	31
133SB	32			4.902 (5/2,7/2,9/2)	32
133SB	33			4.937	33
133SB	34			5.002 (5/2,7/2,9/2)	34
133SB	35			5.040	35
133SB	36			5.119	36
133SB	37			5.125 (5/2,7/2)	37

133SB	38			5.150	(7/2,9/2)	38
133SB	39			5.168	(7/2,9/2)	39
133SB	40			5.191	(5/2,7/2,9/2)	40
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133SB	41			5.277	(5/2,7/2,9/2)	41
133SB	42			5.303		42
133SB	43			5.376		43
133SB	44			5.413		44
133SB	45			5.422		45
133SB	46			5.483		46
133SB	47			5.485		47
133SB	48			5.494	(5/2,7/2,9/2)	48
133SB	49			5.560	(5/2,7/2,9/2)	49
133SB	50			5.593		50
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133SB	51			5.604		51
133SB	52			5.612	(7/2,9/2)	52
133SB	53			5.645	(5/2,7/2)	53
133SB	54			5.684		54
133SB	55			5.742		55
133SB	56			5.750		56
133SB	57			5.790		57
133SB	58			5.835		58
133SB	59			5.841		59
133SB	60			5.849		60
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133SB	61			5.881	(7/2,9/2)	61
133SB	62			5.921	(7/2,9/2)	62
133SB	63			5.929		63
133SB	64			5.938		64
133SB	65			5.960		65
133SB	66			5.971		66
133SB	67			5.978		67
133SB	68			6.060		68
133SB	69			6.068	(7/2,9/2)	69
133SB	70			6.075		70
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133SB	71			6.093		71
133SB	72			6.103		72
133SB	73			6.113		73
133SB	74			6.124		74
133SB	75			6.136		75
133SB	76			6.170		76
133SB	77			6.201		77
133SB	78			6.239		78
133SB	79			6.252		79
133SB	80			6.265		80
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133SB	81			6.286		81
133SB	82			6.315		82

133SB	83				6.327		83
133SB	84				6.349		84
133SB	85				6.364		85
133SB	86				6.412		86
133SB	87				6.445		87
133SB	88				6.458		88
133SB	89				6.498		89
133SB	90				6.506		90
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133SB	91				6.515		91
133SB	92				6.576		92
133SB	93				6.706		93
133SB	94				6.771	(9/2)	94
133SB	95				6.795		95
133SB	96				6.951		96

S-p = 9.666 ( 0.004)-----  
S-n = 7.360 ( 0.004)-----  
S-2p = 25.477 ( 0.004)-----  
S-2n = 13.085 ( 0.004)-----  
S-alpha= 8.514 ( 0.004)-----

S+p = -10.899 ( 0.004)  
S+n = -3.167 ( 0.004)  
S+2p = -19.434 ( 0.004)  
S+2n = -6.909 ( 0.004)  
S+alpha = 0.142 ( 0.009)

gap p = -1.233 ( 0.006)  
gap n = 4.193 ( 0.006)  
gap 2p = 6.044 ( 0.005)  
gap 2n = 6.176 ( 0.006)  
gap alpha = 8.656 ( 0.010)