

$^{126}\text{Cs}$        $Z = 55$        $N = 71$       adopted link      ENSDF link

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

BE = 1058.308 ( 0.010) MeV

Qbeta+ = 4.796 ( 0.010) MeV

	Energy T	J+	J-	J-other	T1/2
126CS 1	0.000	1+			1 1.643 M 17
126CS 2				0.218	2
126CS 3	0.234	1+			3
126CS 4				0.241	4
126CS 5				0.258	5
126CS 6				0.272	6 1 US GE
126CS 7				0.281	7
126CS 8				0.328	8
126CS 9				0.335	9
126CS 10				0.346	10
126CS 11				0.348	11
126CS 12				0.372	12
126CS 13				0.403	13
126CS 14				0.422	14
126CS 15				0.455	15
126CS 16				0.457	16
126CS 17				0.457	17
126CS 18				0.483	18
126CS 19				0.489	19
126CS 20				0.496	20
126CS 21				0.508	21
126CS 22				0.513	22
126CS 23				0.539	23
126CS 24				0.543	24
126CS 25				0.553	25
126CS 26				0.575	26
126CS 27				0.586	27
126CS 28				0.589	28
126CS 29				0.595	29 171 US 14
126CS 30				0.626	30
126CS 31				0.635	31
126CS 32				0.644	32
126CS 33				0.676	33
126CS 34	0.682	1+			34
S-alpha=	0.696 ( 0.012)				
126CS 35				0.710	35
126CS 36				0.711	36

126CS 37						0.725	(6)-	37
126CS 38						0.738	(7)-	38
126CS 39						0.760	(9+)	39
126CS 40						0.777	0,1	40
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126CS 41						0.782	0,1	41
126CS 42						0.797	(8)-	42
126CS 43						0.812	(7)-	43
126CS 44						0.819	(7)-	44
126CS 45						0.842	1,0-	45
126CS 46						0.877	1,0-	46
126CS 47						0.900	(10+)	47
126CS 48						0.904	1,0-	48
126CS 49						0.916	(8)-	49
126CS 50						0.955	(8)-	50
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126CS 51						1.028	(8)-	51
126CS 52		1.097	1+					52
126CS 53						1.126	(9)-	53
126CS 54						1.140	1,0-	54
126CS 55						1.167	(9)-	55
126CS 56						1.181	(9)-	56
126CS 57		1.211	1+					57
126CS 58						1.221	(9)-	58
126CS 59		1.234	1+					59
126CS 60						1.238	(11+)	60
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126CS 61		1.242	1+					61
126CS 62		1.293	1+					62
126CS 63						1.336	(10)-	63
126CS 64						1.397	(11+)	64
126CS 65						1.430	(10)-	65
126CS 66						1.478	(10)-	66
126CS 67						1.493	(12+)	67
126CS 68						1.595	(10)-	68
126CS 69						1.688	(10)-	69
126CS 70						1.696	(11)-	70
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126CS 71						1.731	(11)-	71
126CS 72						1.759	(12+)	72
126CS 73						1.814	(11)-	73
126CS 74						1.888	(13+)	74
126CS 75						1.893	(11)-	75
126CS 76						2.045	(12)-	76
126CS 77						2.086	(13+)	77
126CS 78						2.099	(12)-	78
126CS 79						2.205	(12)-	79
126CS 80						2.232	(14+)	80
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126CS 81						2.283		81

0.86 PS 22

126CS 82			2.305	(12)-	82		
126CS 83			2.342	(12)-	83		
126CS 84			2.420	(13)-	84		
126CS 85			2.431	(14+)	85	0.56 PS	12
126CS 86			2.476	(13)-	86		
126CS 87			2.574	(13)-	87		
126CS 88			2.695	(15+)	88	0.47 PS	+17-13
126CS 89			2.746	(13)-	89		
126CS 90			2.857	(15+)	90	0.74 PS	+28-21
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126CS 91			2.864		91		
126CS 92			2.891	(14)-	92		
126CS 93			2.934	(14)-	93		
126CS 94			3.052	(14)-	94		
126CS 95			3.082	(14)-	95		
126CS 96			3.110	(16+)	96	0.53 PS	+13-11
126CS 97			3.203	(14)-	97		
126CS 98			3.280	(15)-	98		
126CS 99			3.332	(16+)	99	0.51 PS	+15-14
126CS 100			3.342	(15)-	100		
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126CS 101			3.414	(15)-	101		
126CS 102			3.515		102		
126CS 103			3.606	(17+)	103	0.58 PS	14
126CS 104			3.651	(15)-	104		
126CS 105			3.772	(16)-	105		
126CS 106			3.793	(17+)	106	0.54 PS	12
126CS 107			3.859	(16)-	107		
126CS 108			4.071	(18+)	108	0.35 PS	7
126CS 109			4.082	(16)-	109		
126CS 110			4.086	(16)-	110		
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126CS 111			4.150	(17)-	111		
126CS 112			4.262	(17)-	112		
126CS 113			4.345	(18+)	113		
S-p = 4.440 ( 0.010)	-----						
126CS 114			4.568	(17)-	114		
126CS 115			4.579	(18)-	115		
126CS 116			4.599	(19+)	116	0.29 PS	+11-9
126CS 117			4.801	(19+)	117	0.69 PS	+20-18
126CS 118			4.827	(18)-	118		
126CS 119			4.982	(19)-	119		
126CS 120			5.097	(18)-	120		
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126CS 121			5.116	(20+)	121	0.47 PS	12
126CS 122			5.294	(19)-	122		
126CS 123			5.391	(20+)	123		
126CS 124			5.443	(20)-	124		
126CS 125			5.524	(19)-	125		
126CS 126			5.671	(21+)	126	0.35 PS	10

126CS 127				5.845	(20)-	127
126CS 128				5.867	(21+)	128
126CS 129				5.897	(21)-	129
126CS 130				6.252	(22+)	130
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126CS 131				6.390	(22)-	131
126CS 132				6.456	(22+)	132
126CS 133				6.819	(23+)	133
126CS 134				6.902	(23)-	134
126CS 135				6.974	(23+)	135
126CS 136				7.420	(24)-	136
126CS 137				7.450	(24+)	137
126CS 138				7.967	(25+)	138
S-n	=	8.332	( 0.013)	-----		
126CS 139				8.687		139

S-p = 4.440 ( 0.010)-----  
 S-n = 8.332 ( 0.013)-----  
 S-2p = 11.564 ( 0.011)-----  
 S-2n = 18.752 ( 0.014)-----  
 S-alpha= 0.696 ( 0.012)-----

S+p = -5.756 ( 0.015)  
 S+n = -9.961 ( 0.012)  
 S+2p = -8.853 ( 0.055)  
 S+2n = -17.724 ( 0.012)  
 S+alpha = 0.298 ( 0.028)

gap p = -1.316 ( 0.019)  
 gap n = -1.628 ( 0.017)  
 gap 2p = 2.712 ( 0.056)  
 gap 2n = 1.029 ( 0.018)  
 gap alpha = 0.995 ( 0.030)