

^{124}Cs $Z = 55$ $N = 69$ adopted link ENSDF link

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

BE = 1039.555 (0.009) MeV

Qbeta+ = 5.926 (0.009) MeV

	Energy T	J+	J-	J-other	T1/2
124CS 1	0.000	1+			1 30.9 S 4
124CS 2				0.170 (1)+	2
124CS 3				0.189 (2)+	3
124CS 4				0.212 (3)+	4
124CS 5				0.243 (3)+	5
124CS 6				0.253 (1)+	6
124CS 7				0.270 (3)+	7
124CS 8				0.272 (0,1)+	8
124CS 9				0.273 (2,3)+	9
124CS 10	0.283	3+			10
124CS 11				0.301 (4)-	11 69 NS 3
124CS 12				0.312 (2)+	12
124CS 13				0.338	13
124CS 14				0.349	14
124CS 15				0.363 (3)+	15
124CS 16				0.374 (5)+	16
124CS 17				0.379 (4)+	17
124CS 18				0.398 (5)-	18
124CS 19				0.400 (4)+	19
124CS 20				0.401 (1,2)+	20
124CS 21				0.404 (1+,2+)	21
124CS 22				0.417 (3,4)+	22
S-alpha=	0.419 (0.018)				
124CS 23				0.428 (6+)	23
124CS 24	0.441	4+			24
124CS 25				0.444 (1,2)+	25
124CS 26				0.463 (7)+	26 6.3 S 2
124CS 27				0.465 1,2	27
124CS 28				0.479 (5)+	28
124CS 29				0.491 (6+)	29
124CS 30				0.495 (6)-	30
124CS 31				0.506 (1,2,3)+	31
124CS 32				0.512 (1,2,3)+	32
124CS 33				0.530 (5)-	33
124CS 34				0.530 (7+)	34
124CS 35				0.558 (1,2)+	35
124CS 36				0.566 (6-)	36

124CS 37				0.586	(6-)	37
124CS 38				0.589	(8+)	38
124CS 39				0.596		39
124CS 40				0.597	+	40

124CS 41				0.614	(0,1,2)+	41
124CS 42				0.649	(7)-	42
124CS 43				0.660	(9+)	43
124CS 44				0.671	0,1,2	44
124CS 45				0.677	(7-)	45
124CS 46				0.743	(7-)	46
124CS 47				0.752	(1+)	47
124CS 48				0.757	(8-)	48
124CS 49				0.771	(1,2,3)+	49
124CS 50				0.784	(10+)	50

124CS 51				0.797	(8-)	51
124CS 52				0.846		52
124CS 53				0.864	1,2	53
124CS 54				0.896	0,1,2	54
124CS 55				0.921	(0 TO 3)+	55
124CS 56				0.934	0,1	56
124CS 57				0.950		57
124CS 58				0.974	(9-)	58
124CS 59				1.001	0,1,2	59
124CS 60				1.014		60

124CS 61				1.040	0,1,2	61
124CS 62				1.049	0,1	62
124CS 63				1.091	(9-)	63
124CS 64				1.096	(11+)	64
124CS 65				1.098	0,1	65
124CS 66				1.132	1	66
124CS 67				1.142	0,1,2	67
124CS 68				1.169	0,1	68
124CS 69				1.196	(10-)	69
124CS 70				1.217	(1+)	70

124CS 71				1.245	(1)+	71
124CS 72				1.260	(1+)	72
124CS 73				1.290	(10-)	73
124CS 74				1.300	(11+)	74
124CS 75				1.316	(12+)	75
124CS 76				1.389	(1+)	76
124CS 77				1.433	0,1,2	77
124CS 78				1.495	(11-)	78
124CS 79				1.534		79
124CS 80				1.589	0,1,2	80

124CS 81				1.612	(11-)	81

124CS 82				1.623	0,1,2	82
124CS 83				1.638	0,1,2	83
124CS 84				1.671	(12+)	84
124CS 85				1.707	0,1,2	85
124CS 86				1.713	(13+)	86
124CS 87				1.806	(12-)	87
124CS 88				1.846		88
124CS 89				1.933	(13+)	89
124CS 90				1.949	(12-)	90

124CS 91				2.029	(14+)	91
124CS 92				2.170	(13-)	92
124CS 93				2.178		93
124CS 94				2.263	(13-)	94
124CS 95				2.305	(14+)	95
124CS 96				2.486	(15+)	96
124CS 97				2.545	(14-)	97
124CS 98				2.706	(15+)	98
124CS 99				2.710		99
124CS 100				2.710	(14-)	100

124CS 101				2.898	(16+)	101
124CS 102				2.908		102
124CS 103				2.945	(15-)	103
124CS 104				3.009	(15-)	104
124CS 105				3.130	(16+)	105
124CS 106				3.350	(16-)	106
124CS 107				3.384	(17+)	107
124CS 108				3.614	(17+)	108
124CS 109				3.768	(17-)	109
S-p = 3.782 (0.013)	-----					
124CS 110				3.817	(17-)	110

124CS 111				3.872	(18+)	111
124CS 112				4.207	(18-)	112
124CS 113				4.382	(19+)	113
124CS 114				4.642	(19-)	114
124CS 115				4.688	(19-)	115
124CS 116				4.947	(20+)	116
124CS 117				5.128	(20-)	117
124CS 118				5.464	(21+)	118
124CS 119				6.127	(22+)	119

S-p = 3.782 (0.013)	-----					
S-n = 8.769 (0.015)	-----					
S-2p = 10.240 (0.011)	-----					
S-2n = 19.739 (0.035)	-----					
S-alpha= 0.419 (0.018)	-----					

S+p = -5.217 (0.014)
S+n = -10.420 (0.012)
S+2p = -7.810 (0.091)
S+2n = -18.752 (0.014)
S+alpha = 0.691 (0.055)

gap p = -1.435 (0.019)
gap n = -1.651 (0.019)
gap 2p = 2.429 (0.092)
gap 2n = 0.987 (0.038)
gap alpha = 1.109 (0.058)