

$^{129}\text{Cs}$        $Z = 55$        $N = 74$       adopted link      ENSDF link

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

BE = 1085.670 ( 0.005) MeV

Qbeta+ = 1.197 ( 0.005) MeV

	Energy T	J+	J-	J-other	T1/2	
129CS	1	0.000	1/2+		1	32.06 H 6
129CS	2	0.007	5/2+		2	72 NS 6
129CS	3	0.136	3/2+		3	
129CS	4	0.189	7/2+		4	2.26 NS 6
129CS	5			0.209 (5/2)+	5	
129CS	6	0.221	3/2+		6	
129CS	7			0.426 (9/2)+	7	
129CS	8			0.552 (5/2+)	8	
129CS	9			0.554 (1/2,3/2)+	9	
129CS	10			0.555 (5/2,7/2)+	10	
129CS	11			0.575 (11/2-)	11	0.718 US 21
129CS	12			0.603 (7/2+)	12	
129CS	13			0.648 (11/2+)	13	
129CS	14			0.690 (9/2+)	14	
129CS	15			0.755 (5/2,7/2)+	15	
129CS	16			0.879 (5/2+,7/2+)	16	
129CS	17			0.969 (5/2+,7/2+)	17	
129CS	18			0.992 (7/2+,9/2+,11/2+)	18	
129CS	19			1.023 (15/2-)	19	
129CS	20			1.033 (13/2+)	20	
S-alpha=	1.088 ( 0.005)					
129CS	21			1.150 (13/2-)	21	
129CS	22			1.156 (5/2+,7/2+)	22	
129CS	23			1.165 (1/2,3/2)+	23	
129CS	24			1.232 (11/2+)	24	
129CS	25			1.256 (5/2+,7/2+)	25	
129CS	26			1.279 (15/2+)	26	0.53 PS +12-11
129CS	27			1.340 (13/2+)	27	
129CS	28			1.610 (1/2,3/2)	28	
129CS	29			1.628 (19/2-)	29	1.64 PS +53-35
129CS	30			1.648 (9/2)+	30	
129CS	31			1.649 (1/2+,3/2)	31	
129CS	32			1.682 (5/2+,7/2+,9/2+)	32	
129CS	33			1.692 (17/2-)	33	
129CS	34			1.694 (1/2,3/2)	34	
129CS	35			1.701 (1/2+,3/2)	35	
129CS	36			1.718 (15/2-)	36	

129CS	37				1.793	(17/2+)	37		
129CS	38				1.813	(9/2)+	38		
129CS	39				1.830	(1/2,3/2)	39		
129CS	40				1.891	(15/2+)	40		
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129CS	41				1.923	(1/2+,3/2)	41		
129CS	42				1.941	(7/2+,9/2,11/2+)	42		
129CS	43				1.954	(1/2+,3/2+)	43		
129CS	44				2.019	(9/2,11/2+)	44		
129CS	45				2.047	(19/2+)	45	0.30 PS	+12-8
129CS	46				2.078	(1/2+,3/2)	46		
129CS	47				2.123	(17/2+)	47		
129CS	48				2.214	(19/2-)	48		
129CS	49				2.255		49		
129CS	50				2.319	(21/2-)	50		
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129CS	51				2.396	(23/2-)	51	0.49 PS	+15-14
129CS	52				2.501	(19/2+)	52		
129CS	53				2.633	(21/2+)	53	0.15 PS	+4-6
129CS	54				2.667	(19/2+)	54		
129CS	55				2.677	(19/2+)	55		
129CS	56				2.813	(21/2+)	56		
129CS	57				2.842	(23/2-)	57		
129CS	58				2.908	(23/2+)	58	0.15 PS	+10-7
129CS	59				2.943	(21/2+)	59		
129CS	60				2.953	(21/2+)	60		
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129CS	61				2.981	(19/2+,21/2+)	61		
129CS	62				3.043	(23/2+)	62		
129CS	63				3.096	(25/2-)	63		
129CS	64				3.157	(23/2+)	64		
129CS	65				3.236	(27/2-)	65	0.33 PS	10
129CS	66				3.291	(25/2+)	66		
129CS	67				3.297	(25/2+)	67	0.18 PS	LT
129CS	68				3.406	(25/2+)	68		
129CS	69	3.419	25/2+				69		
129CS	70				3.518	(25/2-)	70		
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129CS	71				3.591	(27/2-)	71		
129CS	72				3.682	(27/2+)	72		
129CS	73				3.685	(27/2-)	73		
129CS	74				3.730	(27/2+)	74	0.11 PS	LT
129CS	75				3.733	(23/2:27/2+)	75		
129CS	76				3.734	(27/2+)	76		
129CS	77				3.810	(25/2+)	77		
129CS	78				3.920	(25/2)	78		
129CS	79				3.924	(29/2-)	79		
129CS	80				3.949	(29/2+)	80		
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129CS	81				3.994	(29/2+)	81		

129CS 82				4.027	(29/2-)	82	
129CS 83				4.115	(31/2-)	83	0.139 PS +49-20
129CS 84				4.130	(29/2+)	84	
129CS 85				4.199	(29/2)	85	
129CS 86				4.367	(31/2+)	86	
129CS 87				4.421	(31/2-)	87	
129CS 88				4.437	(31/2+)	88	
129CS 89				4.445	(31/2-)	89	
129CS 90				4.599	(31/2+)	90	
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129CS 91				4.764	(33/2-)	91	
129CS 92				4.900	(33/2-)	92	
S-p	=	4.927	( 0.005)	-----			
129CS 93				5.024	(33/2+)	93	
129CS 94				5.033	(35/2-)	94	0.40 PS LT
129CS 95				5.067	(33/2+)	95	
129CS 96				5.213	(35/2+)	96	
129CS 97				5.282	(35/2+)	97	
129CS 98				5.402	(35/2-)	98	
129CS 99				5.547	(35/2+)	99	
129CS 100				5.567	(31/2,33/2,35/2+100)		
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129CS 101				5.692	(37/2-)	101	
129CS 102				5.990	(39/2-)	102	
129CS 103				6.051	(35/2:39/2+)	103	
129CS 104				6.200	(39/2+)	104	
129CS 105				6.271	(39/2+)	105	
129CS 106				7.001	(43/2-)	106	
129CS 107				7.380	(43/2+)	107	
129CS 108				8.099	(47/2-)	108	
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S-p	=	4.927	( 0.005)	-----			
S-n	=	9.639	( 0.007)	-----			
S-2p	=	13.094	( 0.006)	-----			
S-2n	=	17.402	( 0.007)	-----			
S-alpha	=	1.088	( 0.005)	-----			
S+p	=	-7.047	( 0.005)				
S+n	=	-7.472	( 0.010)				
S+2p	=	-10.848	( 0.028)				
S+2n	=	-16.699	( 0.005)				
S+alpha	=	-0.420	( 0.028)				
gap p	=	-2.119	( 0.006)				
gap n	=	2.167	( 0.012)				
gap 2p	=	2.246	( 0.029)				
gap 2n	=	0.703	( 0.009)				
gap alpha	=	0.668	( 0.029)				