

$^{138}\text{Cs}$        $Z = 55$        $N = 83$       adopted link      ENSDF link

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

BE = 1153.700 ( 0.009) MeV

Qbeta- = 5.375 ( 0.009) MeV

	Energy T	J+	J-	J-other	T1/2
138CS 1			0.000 3-		1 32.5 M 2
138CS 2			0.011 2-		2
138CS 3				0.016 (1)-	3
138CS 4			0.080 6-		4 2.91 M 10
138CS 5				0.254 (7-)	5
138CS 6				0.258 1-,2-	6
138CS 7				0.335	7
138CS 8				0.404	8
138CS 9			0.412 1-		9
138CS 10				0.450 0-,1-	10
138CS 11				0.541	11
138CS 12				0.556 1-,2-	12
138CS 13				0.691 1-,2-	13
138CS 14				0.912 (1-,2)	14
138CS 15				0.952 (0-,1)	15
138CS 16				1.110 (0-,1)	16
138CS 17				1.122 (8-)	17
138CS 18				1.157	18
138CS 19				1.161 (1-,2)	19
138CS 20				1.205 (1-,2-)	20
138CS 21				1.206 (8-)	21
S-alpha=	1.268 ( 0.010)				
138CS 22				1.312 (8-)	22
138CS 23				1.372	23
138CS 24				1.411 (9-)	24
138CS 25				1.489	25
138CS 26				1.538	26
138CS 27				1.560	27
138CS 28				1.597 (10-)	28
138CS 29				1.794 (0-,1)	29
138CS 30				1.833 (11-)	30
138CS 31				1.918 (12-)	31
138CS 32				2.022 (0-,1)	32
138CS 33	2.027	1+			33
138CS 34	2.263	1+			34
138CS 35	2.338	1+			35
138CS 36	2.491	1+			36

138CS	37		2.508	1+				37
138CS	38						2.732	38
138CS	39						2.813 (11+)	39
138CS	40						3.158	40
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138CS	41						3.260 (12+)	41
138CS	42						3.349 (13+)	42
138CS	43						4.165 (14+)	43
138CS	44						4.259	44
S-n	=		4.412	( 0.009)	-----			
138CS	45						4.626 (16+)	45
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S-p	=		7.792	( 0.009)	-----			
S-n	=		4.412	( 0.009)	-----			
S-2p	=		17.920	( 0.017)	-----			
S-2n	=		12.691	( 0.009)	-----			
S-alpha	=		1.268	( 0.010)	-----			
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S+p	=		-9.316	( 0.009)				
S+n	=		-5.885	( 0.010)				
S+2p	=		-16.003	( 0.009)				
S+2n	=		-10.305	( 0.012)				
S+alpha	=		0.438	( 0.011)				
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gap p	=		-1.524	( 0.013)				
gap n	=		-1.473	( 0.013)				
gap 2p	=		1.916	( 0.019)				
gap 2n	=		2.385	( 0.015)				
gap alpha	=		1.706	( 0.015)				