

$^{137}\text{Cs}$        $Z = 55$        $N = 82$       adopted link      ENSDF link

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

BE = 1149.287 ( 0.000) MeV

Qbeta- = 1.176 ( 0.000) MeV

	Energy T	J+	J-	J-other	T1/2
137CS 1	0.000	7/2+			1 30.08 Y 9
137CS 2	0.455	5/2+			2 0.1 NS LE
137CS 3				0.849	3
137CS 4				1.185 (11/2+)	4
137CS 5				1.273	5
137CS 6	1.490	1/2+			6
137CS 7				1.564	7
137CS 8				1.570	8
137CS 9				1.575	9
137CS 10				1.651	10
137CS 11				1.672 (15/2+)	11
137CS 12				1.783	12
137CS 13			1.868 9/2-		13
137CS 14				1.894 (17/2+)	14
137CS 15				1.916	15
137CS 16				2.068 (3/2+,5/2+)	16
137CS 17				2.099	17
137CS 18	2.150	1/2+			18
137CS 19				2.217	19
137CS 20				2.368	20
137CS 21				2.784 (21/2+)	21
137CS 22				2.796	22
137CS 23				2.849	23
137CS 24				2.850	24
137CS 25				2.876 (19/2+)	25
137CS 26				2.945	26
137CS 27				3.037	27
137CS 28				3.104	28
S-alpha=	3.113 ( 0.006)				
137CS 29				3.159	29
137CS 30				3.168 (19/2+)	30
137CS 31				3.304 (19/2-)	31
137CS 32				3.377	32
137CS 33				3.465 (23/2+)	33
137CS 34				3.496 (23/2-)	34
137CS 35				3.503 (21/2-)	35
137CS 36				3.584	36

137CS 37				3.694		37
137CS 38				3.737		38
137CS 39				3.787		39
137CS 40				3.824		40
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137CS 41				3.907		41
137CS 42				3.938		42
137CS 43				3.939		43
137CS 44				3.952		44
137CS 45				3.956		45
137CS 46				3.977		46
137CS 47				4.118	(19/2+)	47
137CS 48				4.291	(21/2+)	48
137CS 49				4.352	(23/2+)	49
137CS 50				4.408	(27/2-)	50
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137CS 51				4.777	(25/2+)	51
137CS 52				5.023	(29/2-)	52
137CS 53				5.494	(31/2-)	53

S-p = 7.406 ( 0.000)-----  
S-n = 8.278 ( 0.002)-----  
S-2p = 17.344 ( 0.002)-----  
S-2n = 15.106 ( 0.000)-----  
S-alpha= 3.113 ( 0.006)-----

S+p = -9.005 ( 0.000)  
S+n = -4.412 ( 0.009)  
S+2p = -15.255 ( 0.001)  
S+2n = -10.298 ( 0.003)  
S+alpha = 1.191 ( 0.004)

gap p = -1.599 ( 0.000)  
gap n = 3.866 ( 0.009)  
gap 2p = 2.090 ( 0.002)  
gap 2n = 4.808 ( 0.003)  
gap alpha = 4.304 ( 0.007)