

$^{125}\text{Cs}$        $Z = 55$        $N = 70$       adopted link      ENSDF link

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

BE = 1049.975 ( 0.008) MeV

Qbeta+ = 3.110 ( 0.008) MeV

	Energy T	J+	J-	J-other	T1/2	
125CS	1			0.000	1/2(+)	1 46.7 M 1
125CS	2			0.077	3/2(+)	2 1.2 NS 1
125CS	3			0.085	(5/2+)	3 14.5 NS 15
125CS	4			0.140	(3/2-)	4
125CS	5			0.185	1/2(+), 3/2, 5/2	5
125CS	6			0.253	(7/2+)	6
125CS	7			0.266	(11/2-)	7 0.90 MS 3
S-alpha=	0.269 ( 0.009)	-----				
125CS	8			0.541	(9/2+)	8
125CS	9			0.632	(15/2-)	9
125CS	10			0.683	(11/2+)	10
125CS	11			0.850	(11/2+)	11
125CS	12			1.197	(13/2+)	12
125CS	13			1.204	(19/2-)	13
125CS	14			1.279	(17/2-)	14
125CS	15			1.294	(15/2+)	15
125CS	16			1.575	(15/2+)	16
125CS	17			1.754	(19/2-)	17
125CS	18			1.899	(21/2-)	18
125CS	19			1.963	(23/2-)	19
125CS	20			1.987	(17/2+)	20
125CS	21			2.055	(19/2+)	21
125CS	22			2.318	(17/2+)	22
125CS	23			2.397	(19/2+)	23
125CS	24			2.424	(23/2-)	24
125CS	25			2.425	(19/2+)	25
125CS	26			2.519	(21/2+)	26
125CS	27			2.571	(23/2-)	27
125CS	28			2.691	(25/2-)	28
125CS	29			2.699	(23/2+)	29
125CS	30			2.833	(27/2-)	30
125CS	31			2.896	(21/2+)	31
125CS	32			2.920	(23/2+)	32
125CS	33			2.944	(23/2+)	33
125CS	34			2.946	(25/2+)	34
125CS	35			3.178	(27/2-)	35
125CS	36			3.241	(25/2+)	36

125CS 37				3.244	(27/2-)	37
125CS 38				3.257	(27/2+)	38
125CS 39				3.385	(23/2-)	39
125CS 40				3.500	(27/2+)	40
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125CS 41				3.553	(29/2-)	41
125CS 42				3.617	(29/2+)	42
S-p	=	3.711	( 0.008)	-----		
125CS 43				3.724	(31/2-)	43
125CS 44				3.841	(29/2+)	44
125CS 45				3.976	(31/2-)	45
125CS 46				4.010	(31/2+)	46
125CS 47				4.213	(31/2+)	47
125CS 48				4.358	(33/2-)	48
125CS 49				4.451	(33/2+)	49
125CS 50				4.593	(35/2-)	50
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125CS 51				4.604	(33/2+)	51
125CS 52				4.920	(35/2-)	52
125CS 53				4.926	(35/2+)	53
125CS 54				5.028	(35/2+)	54
125CS 55				5.213	(37/2-)	55
125CS 56				5.429	(37/2+)	56
125CS 57				5.496	(37/2+)	57
125CS 58				5.519	(39/2-)	58
125CS 59				5.937	(39/2+)	59
125CS 60				6.189	(41/2-)	60
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125CS 61				6.469	(41/2+)	61
125CS 62				6.520	(43/2-)	62
125CS 63				7.273	(45/2-)	63
125CS 64				7.600	(47/2-)	64
125CS 65				8.759	(51/2-)	65

S-p = 3.711 ( 0.008)-----  
S-n = 10.420 ( 0.012)-----  
S-2p = 10.725 ( 0.009)-----  
S-2n = 19.189 ( 0.014)-----  
S-alpha= 0.269 ( 0.009)-----

S+p = -5.869 ( 0.015)  
S+n = -8.332 ( 0.013)  
S+2p = -8.384 ( 0.027)  
S+2n = -18.293 ( 0.010)  
S+alpha = 0.341 ( 0.023)

gap p = -2.158 ( 0.017)  
gap n = 2.088 ( 0.018)  
gap 2p = 2.341 ( 0.028)

gap 2n = 0.896 ( 0.017)  
gap alpha = 0.610 ( 0.024)