

$^{147}\text{Ce}$        $Z = 58$        $N = 89$       adopted link      ENSDF link

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

BE = 1213.121 ( 0.009) MeV

Qbeta- = 3.430 ( 0.018) MeV

	Energy T	J+	J-	J-other	T1/2
147CE 1				0.000 (5/2-)	1 56.4 S 10
147CE 2				0.118 (7/2-)	2
147CE 3				0.186 (5/2-,7/2-)	3 0.4 NS
147CE 4				0.215 (3/2-,5/2-,7/2-)	4
147CE 5				0.274 (3/2-,5/2-,7/2-)	5
147CE 6				0.333 (5/2-,7/2-)	6
147CE 7				0.353 (5/2-,7/2-)	7
147CE 8				0.359	8
147CE 9				0.401 (9/2+)	9
147CE 10				0.402	10
147CE 11				0.433	11
147CE 12				0.438 (5/2+,7/2+)	12
147CE 13				0.484 (13/2+)	13
147CE 14				0.495	14
S-alpha=	0.501 ( 0.011)				
147CE 15				0.505	15
147CE 16				0.509	16
147CE 17				0.517	17
147CE 18				0.558	18
147CE 19				0.598	19
147CE 20				0.609	20
147CE 21				0.625	21
147CE 22				0.634	22
147CE 23				0.673	23
147CE 24				0.677	24
147CE 25				0.710	25
147CE 26				0.735 (17/2+)	26
147CE 27				0.770	27
147CE 28				0.786	28
147CE 29				0.831	29
147CE 30				0.861	30
147CE 31				0.907	31
147CE 32				0.921	32
147CE 33				0.924	33
147CE 34				1.127 (21/2+)	34
147CE 35				1.156	35
147CE 36				1.369 (19/2-)	36

147CE 37				1.628	(25/2+)	37
147CE 38				1.714	(23/2-)	38
147CE 39				1.745	(23/2-)	39
147CE 40				1.770		40
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147CE 41				1.870	(21/2)	41
147CE 42				2.154	(25/2)	42
147CE 43				2.194	(27/2-)	43
147CE 44				2.216	(29/2+)	44
147CE 45				2.614	(29/2)	45
147CE 46				2.703	(31/2-)	46
147CE 47				2.777		47
147CE 48				2.876	(33/2+)	48
147CE 49				3.264	(35/2-)	49
147CE 50				3.355		50
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147CE 51				3.472	(37/2+)	51
147CE 52				3.852	(39/2-)	52
147CE 53				3.955	(41/2+)	53
S-n	=	4.459	( 0.017)	-----		
147CE 54				4.551	(45/2+)	54
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S-p	=	10.082	( 0.009)	-----		
S-n	=	4.459	( 0.017)	-----		
S-2p	=	19.076	( 0.012)	-----		
S-2n	=	11.089	( 0.035)	-----		
S-alpha	=	0.501	( 0.011)	-----		
S+p	=	-7.811	( 0.017)			
S+n	=	-6.456	( 0.014)			
S+2p	=	-16.940	( 0.009)			
S+2n	=	-10.799	( 0.013)			
S+alpha	=	-1.354	( 0.009)			
gap p	=	2.271	( 0.019)			
gap n	=	-1.997	( 0.022)			
gap 2p	=	2.136	( 0.015)			
gap 2n	=	0.291	( 0.037)			
gap alpha	=	-0.853	( 0.014)			