

^{157}Lu $Z = 71$ $N = 86$ adopted link ENSDF link

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

BE = 1258.090 (0.012) MeV

Qbeta+ = 6.980 (0.016) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-5.108 (0.017)				
157LU 1				0.000 (1/2+,3/2+)	1 6.8 S 18
157LU 2				0.021 (11/2-)	2 4.79 S 12
S-p =	0.463 (0.015)				
157LU 3				0.558 (15/2-)	3
157LU 4				1.164 (19/2-)	4
157LU 5				1.797 (23/2-)	5
157LU 6				2.129 (25/2-)	6
157LU 7				2.396 (27/2-)	7
157LU 8				2.803 (29/2+)	8
157LU 9				2.877 (29/2-)	9
157LU 10				2.937 (31/2+)	10

157LU 11				3.108 (31/2-)	11
157LU 12				3.488 (33/2+)	12
157LU 13				3.625 (33/2-)	13
157LU 14				3.644 (33/2+)	14
157LU 15				3.753 (35/2+)	15
157LU 16				3.825 (35/2-)	16
157LU 17				4.222 (37/2+)	17
S-2p =	4.392 (0.016)				
157LU 18				4.422 (39/2+)	18
157LU 19				4.555	19
157LU 20				4.717 (41/2+)	20

157LU 21				4.845 (43/2+)	21
157LU 22				4.947 (43/2+)	22
157LU 23				5.107 (45/2+)	23
157LU 24				5.115 (47/2+)	24
157LU 25				5.323	25
157LU 26				5.427 (47/2+)	26
157LU 27				6.089	27
157LU 28				6.176	28
157LU 29				6.185	29
157LU 30				6.790	30

157LU 31				7.090	31
157LU 32				8.225	32
157LU 33				8.538	33

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S-p    =  0.463 ( 0.015)-----  
S-n    = 10.812 ( 0.055)-----  
S-2p   =  4.392 ( 0.016)-----  
S-2n   = 20.037 ( 0.023)-----  
S-alpha= -5.108 ( 0.017)-----  
  
S+p     = -2.952 ( 0.021)  
S+n     = -8.844 ( 0.019)  
S+2p    = -2.577 ( 0.023)  
S+2n    = -19.411 ( 0.040)  
S+alpha =  5.236 ( 0.027)  
  
gap p   = -2.488 ( 0.026)  
gap n   =  1.968 ( 0.059)  
gap 2p  =  1.815 ( 0.028)  
gap 2n  =  0.626 ( 0.046)  
gap alpha =  0.128 ( 0.032)
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