

$^{178}\text{Lu}$        $Z = 71$        $N = 107$       adopted link      ENSDF link

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

BE = 1431.486 ( 0.002) MeV

Qbeta- = 2.098 ( 0.003) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-1.102	( 0.045)	-----		
178LU 1				0.000 1(+)	1 28.4 M 2
178LU 2				0.042 (2+)	2
178LU 3				0.096 (3+)	3
178LU 4				0.124 (9-)	4 23.1 M 3
178LU 5		0.133	7-		5
178LU 6				0.187 (8+)	6
178LU 7				0.215	7
178LU 8				0.300 (5+)	8
178LU 9				0.332 (8-)	9
178LU 10				0.334 (10-)	10
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178LU 11				0.366	11
178LU 12				0.391 (1+)	12
178LU 13				0.403	13
178LU 14				0.475	14
178LU 15				0.499 (7+)	15
178LU 16				0.553 (9-)	16
178LU 17				0.656 (4+)	17
178LU 18				0.756 (5+)	18
178LU 19				0.821 (10-)	19
178LU 20				0.834 (5+)	20
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178LU 21				0.878 (6+)	21
178LU 22				0.906	22
178LU 23				0.974 (6+)	23
178LU 24				1.033	24
178LU 25				1.068	25
178LU 26				1.133	26
178LU 27				1.167	27
178LU 28				1.198	28
178LU 29				1.215	29
178LU 30				1.255	30
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178LU 31				1.290	31
178LU 32				1.341	32
178LU 33		1.364	7-		33
178LU 34				1.451	34
178LU 35				1.512	35
178LU 36				1.671	36

178LU	37				1.692	37
178LU	38				1.726	38
178LU	39				1.854	39
178LU	40				1.886	40
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178LU	41				1.958	41

S-p = 6.641 ( 0.002)-----  
 S-n = 6.025 ( 0.003)-----  
 S-2p = 15.544 ( 0.100)-----  
 S-2n = 13.098 ( 0.003)-----  
 S-alpha= -1.102 ( 0.045)-----

S+p = -7.414 ( 0.003)  
 S+n = -6.792 ( 0.006)  
 S+2p = -13.174 ( 0.003)  
 S+2n = -12.481 ( 0.071)  
 S+alpha = 1.482 ( 0.003)

gap p = -0.774 ( 0.004)  
 gap n = -0.767 ( 0.006)  
 gap 2p = 2.371 ( 0.100)  
 gap 2n = 0.617 ( 0.071)  
 gap alpha = 0.381 ( 0.045)