

$^{180}\text{Lu}$        $Z = 71$        $N = 109$       adopted link      ENSDF link

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

BE = 1443.967 ( 0.071) MeV

Qbeta- = 3.103 ( 0.071) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-0.270	( 0.122)	-----		
180LU 1	0.000	5+			1 5.7 M 1
180LU 2			0.014 3-		2
180LU 3				0.103 (4+)	3
180LU 4				0.141 (6+)	4
180LU 5				0.187 (2,3+,1-)	5
180LU 6				0.306 (7+)	6
180LU 7	0.442	3+			7
180LU 8	0.453	2+			8
180LU 9				0.496 (8+)	9
180LU 10	0.562	1+			10
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180LU 11				0.624 (9-)	11 1 MS GE
180LU 12	0.948	1+			12
180LU 13	0.982	1+			13

S-p = 7.313 ( 0.192)-----

S-n = 5.689 ( 0.071)-----

S-2p = 16.941 ( 0.363)-----

S-2n = 12.481 ( 0.071)-----

S-alpha= -0.270 ( 0.122)-----

S+p = -8.015 ( 0.071)

S+n = -6.192 ( 0.144)

S+2p = -14.332 ( 0.071)

S+2n = -11.305 ( 0.195)

S+alpha = 1.412 ( 0.075)

gap p = -0.702 ( 0.205)

gap n = -0.503 ( 0.161)

gap 2p = 2.609 ( 0.370)

gap 2n = 1.177 ( 0.208)

gap alpha = 1.142 ( 0.144)