

^{186}Au $Z = 79$ $N = 107$ adopted link ENSDF link

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

BE = 1471.175 (0.021) MeV

Qbeta+ = 6.150 (0.030) MeV

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

S-alpha=	-4.912	(0.030)	-----		
186AU 1			0.000 3-		1 10.7 M 5
186AU 2			0.036 2-		2 80 PS 15
186AU 3			0.114 1-		3 1.6 NS 2
186AU 4			0.190 1-		4
186AU 5				0.228 3+, (2+)	5 110 NS 10
186AU 6			0.252 2-		6 70 PS 20
186AU 7	0.288	2+			7 870 PS 50
186AU 8				0.338	8
186AU 9			0.349 2-		9
186AU 10	0.351	1+			10

186AU 11	0.364	1+			11 210 PS 30
186AU 12				0.393	12
186AU 13				0.405 (1-)	13
186AU 14				0.439 (1+)	14
186AU 15				0.442	15
186AU 16				0.464 (1-)	16
186AU 17				0.487 (1+)	17
186AU 18				0.497 (1+)	18
186AU 19				0.557 (1,2)-	19
186AU 20				0.596	20

186AU 21				0.598 (1-)	21
186AU 22				0.612	22
186AU 23				0.664 (1-)	23
186AU 24				0.689 (1-)	24
186AU 25				0.715 (0+, 1+)	25
186AU 26				0.733	26
186AU 27				0.800	27
186AU 28				0.805	28
186AU 29				0.943	29
186AU 30				1.032	30

186AU 31				1.044	31
186AU 32				1.144	32
186AU 33				1.145	33
186AU 34				1.283	34
186AU 35				1.301	35
186AU 36				1.504	36

186AU	37				1.609	37
186AU	38				1.687	38
186AU	39				1.691	39

S-p = 2.316 (0.033)-----
 S-n = 7.928 (0.021)-----
 S-2p = 6.682 (0.035)-----
 S-2n = 17.539 (0.031)-----
 S-alpha= -4.912 (0.030)-----

S+p = -3.693 (0.025)
 S+n = -9.385 (0.031)
 S+2p = -5.199 (0.037)
 S+2n = -16.799 (0.021)
 S+alpha = 4.924 (0.022)

gap p = -1.377 (0.041)
 gap n = -1.457 (0.037)
 gap 2p = 1.483 (0.051)
 gap 2n = 0.740 (0.037)
 gap alpha = 0.012 (0.037)