

^{216}Fr $Z = 87$ $N = 129$ adopted link ENSDF link

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

BE = 1672.370 (0.004) MeV

Qbeta+ = 2.718 (0.007) MeV

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

S-alpha=	-9.174	(0.005)	-----		
216FR 1			0.000	(1-)	1 0.70 US 2
216FR 2			0.133	(3-)	2 71 NS 5
216FR 3			0.142	(0-,1-,2-)	3
216FR 4			0.191	(5-)	4
216FR 5			0.212		5
216FR 6			0.226	(3-,4,5-)	6
216FR 7			0.248		7
216FR 8			0.249		8
216FR 9			0.254	(1-,2,3-)	9
216FR 10			0.290		10

216FR 11			0.344		11
216FR 12			0.349		12
216FR 13			0.409		13
216FR 14			0.493		14
216FR 15			0.532		15
216FR 16			0.539		16
216FR 17			0.551		17
216FR 18			0.569		18
216FR 19			0.581	(3-,4,5-)	19

S-p = 3.149 (0.007)-----
 S-n = 5.418 (0.008)-----
 S-2p = 8.228 (0.006)-----
 S-2n = 12.213 (0.009)-----
 S-alpha= -9.174 (0.005)-----

S+p = -4.370 (0.008)
 S+n = -6.728 (0.008)
 S+2p = -6.698 (0.058)
 S+2n = -12.054 (0.006)
 S+alpha = 8.348 (0.007)

gap p = -1.221 (0.011)
 gap n = -1.309 (0.011)
 gap 2p = 1.530 (0.058)
 gap 2n = 0.159 (0.011)
 gap alpha = -0.826 (0.009)