

^{213}Fr $Z = 87$ $N = 126$ adopted link ENSDF link

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

BE = 1654.681 (0.005) MeV

Qbeta+ = 2.142 (0.006) MeV

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

S-alpha=	-6.905 (0.007)				
213FR 1			0.000 9/2-		1 34.17 S 6
213FR 2				0.498 (7/2-)	2
213FR 3				1.105 (13/2)+	3
213FR 4			1.189 13/2-		4 2.1 NS LT
213FR 5			1.411 17/2-		5 18 NS 1
213FR 6			1.590 21/2-		6 505 NS 14
213FR 7			1.856 23/2-		7 1.4 NS LT

S-p	= 2.184 (0.006)				
213FR 8	2.538	29/2+			8 238 NS 6
213FR 9			2.740 27/2-		9 7 NS LT
213FR 10			2.951 31/2-		10 2.1 NS LT

213FR 11	3.427	33/2+			11 2.1 NS LT
213FR 12				3.489 (33/2)	12
213FR 13	3.655	37/2+			13 2.4 NS 7
213FR 14				4.029	14
213FR 15	4.083	39/2+			15 1.4 NS LT
213FR 16				4.654	16
213FR 17				4.675	17 2.1 NS LT
213FR 18			4.696 39/2-		18 2.1 NS LT
213FR 19			4.898 41/2-		19 2.8 NS LT
213FR 20				4.982	20

213FR 21			4.993 45/2-		21 13 NS 2
213FR 22				5.002	22
213FR 23				5.220	23
213FR 24			5.506 43/2-		24 2.1 NS LT
213FR 25			5.786 47/2-		25 1.4 NS LT
213FR 26				5.815 (45/2+)	26
213FR 27				5.951	27
213FR 28				6.103 (49/2-)	28
213FR 29				6.334	29

S-2p	= 6.485 (0.005)				
213FR 30	6.573	49/2+			30 2.1 NS LT

213FR 31	6.715	53/2+			31 6.2 NS 14
213FR 32				6.725 (55/2+)	32
213FR 33				6.803 (55/2)	33
213FR 34				6.813	34

213FR	35				7.135		35		
213FR	36				7.247		36		
213FR	37				7.288	(57/2+)	37	2.1 NS	LT
213FR	38				7.374	(57/2,59/2)	38		
213FR	39				7.542	(57/2)	39		
213FR	40				7.724	(59/2+)	40		

213FR	41				7.984	(61/2-)	41	3.5 NS	LT
213FR	42				8.095	(65/2-)	42	3.1 US	2

S-p = 2.184 (0.006)-----
 S-n = 8.109 (0.010)-----
 S-2p = 6.485 (0.005)-----
 S-2n = 15.557 (0.013)-----
 S-alpha= -6.905 (0.007)-----

S+p = -3.642 (0.007)
 S+n = -5.475 (0.010)
 S+2p = -4.993 (0.013)
 S+2n = -12.270 (0.008)
 S+alpha = 9.832 (0.012)

gap p = -1.458 (0.009)
 gap n = 2.634 (0.014)
 gap 2p = 1.492 (0.014)
 gap 2n = 3.286 (0.015)
 gap alpha = 2.927 (0.014)