

^{21}F $Z = 9$ $N = 12$ adopted link ENSDF link

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

BE = 162.504 (0.002) MeV

Qbeta- = 5.684 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
21F 1	0.000	5/2+			1 4.158 S 20
21F 2	0.280	1/2+			2 6.1 NS 6
21F 3			1.101 1/2-		3 0.30 FS 6
21F 4	1.730	3/2+			4 0.05 PS 4
21F 5				1.755 (7/2+,9/2+)	5 2.4 PS 3
21F 6			2.040 3/2-		6 35 FS LT
21F 7				2.071	7 55 FS 21
21F 8				2.410 (1/2,3/2)-	8
21F 9				3.460 (3/2,5/2)+	9 0.7 PS LT
21F 10				3.518 (3/2,5/2)+	10 0.7 PS LT
21F 11				3.639 (3/2+,5/2+)	11
21F 12				3.966	12
21F 13				3.996	13
21F 14				4.064	14
21F 15				4.172 (3/2,5/2)+	15
21F 16				4.451	16
21F 17				4.572 (3/2,5/2,7/2)+	17
21F 18				4.584 (3/2,5/2)+	18
21F 19				4.669	19
21F 20				4.924	20
21F 21			5.029 3/2-		21
21F 22				5.079 (3/2,5/2)+	22
21F 23				5.350	23
21F 24				5.486	24
21F 25				5.566	25
21F 26				5.592 (3/2,5/2)+	26
21F 27				5.787	27
21F 28				5.881	28
21F 29				6.590 (3/2+,5/2+)	29
21F 30				7.190 (1/2,3/2)-	30
21F 31			7.470 3/2-		31
21F 32				7.740 (1/2,3/2)-	32
21F 33				8.090 (3/2+,5/2+)	33
S-n =	8.101 (0.002)				
21F 34				8.170 (1/2,3/2)-	34
21F 35				8.560 (1/2,3/2)-	35
21F 36				8.820 (3/2+,5/2+)	36

21F 37 | | | 9.430 (1/2,3/2)- 37

S-p = 11.133 (0.002)-----
S-n = 8.101 (0.002)-----
S-2p = 30.482 (0.017)-----
S-2n = 14.703 (0.002)-----
S-alpha= 10.343 (0.015)-----

S+p = -15.266 (0.002)
S+n = -5.230 (0.013)
S+2p = -24.060 (0.002)
S+2n = -12.810 (0.033)
S+alpha = -11.735 (0.002)

gap p = -4.133 (0.003)
gap n = 2.871 (0.013)
gap 2p = 6.422 (0.017)
gap 2n = 1.893 (0.033)
gap alpha = -1.393 (0.015)