

^{16}F $Z = 9$ $N = 7$ adopted link ENSDF link

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

BE = 111.425 (0.005) MeV

Qbeta+ = 15.412 (0.005) MeV

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

S-p	= -0.531	(0.005)	-----		
16F 1			0.000 1 0-		1 40 KEV 20
16F 2			0.193 1-		2 40 KEV LT
16F 3			0.424 2-		3 40 KEV 30
16F 4			0.721 3-		4 15 KEV LT
16F 5	3.758	1+			5 40 KEV LT
16F 6	3.870	2+			6 20 KEV LT
16F 7	4.372	3+			7 50 KEV 20
16F 8	4.654	1+			8 60 KEV 20
16F 9				4.710	9
16F 10				4.977 (2+)	10 60 KEV 40

16F 11				5.272 (1-)	11
16F 12				5.404 4	12
16F 13				5.449	13
16F 14				5.524 +	14
16F 15				5.570	15
16F 16			5.856 2-		16
16F 17				6.050	17
16F 18				6.224	18
16F 19			6.372 4-		19
16F 20				6.559	20

16F 21				6.679	21 45 KEV LE
S-2p	= 6.766	(0.005)	-----		
16F 22				6.930	22
16F 23				7.110	23
16F 24			7.500 2-		24 950 KEV 100
16F 25				7.900	25 100 KEV LT

S-alpha	= 9.088	(0.005)	-----		
16F 26				9.500 1-(& 2-)	26 1050 KEV 100
16F 27				9.600	27 250 KEV 50

S-p	= -0.531	(0.005)	-----		
S-n	= 13.963	(0.015)	-----		
S-2p	= 6.766	(0.005)	-----		
S-2n	= 37.432	(0.041)	-----		
S-alpha	= 9.088	(0.005)	-----		

S+p = -1.464 (0.005)
S+n = -16.795 (0.005)
S+2p = -0.215 (0.094)
S+2n = -25.945 (0.005)
S+alpha = -6.250 (0.005)

gap p = -1.994 (0.008)
gap n = -2.832 (0.016)
gap 2p = 6.551 (0.094)
gap 2n = 11.487 (0.042)
gap alpha = 2.838 (0.008)