

^{51}Fe $Z = 26$ $N = 25$ adopted link ENSDF link

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

BE = 431.485 (0.001) MeV

Qbeta+ = 8.054 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
51FE 1			0.000	5/2-	1 305 MS 2
51FE 2				0.254 (7/2-)	2
51FE 3				1.146 (9/2-)	3
51FE 4				1.218	4
51FE 5				1.516 (11/2-)	5
51FE 6				1.866	6
51FE 7				2.063 (3/2+)	7
51FE 8				2.489 (1/2+)	8
51FE 9				2.953 (13/2-)	9
51FE 10				3.013	10
51FE 11				3.127	11
51FE 12				3.276 (15/2-)	12
51FE 13				3.310	13
51FE 14				3.590 (17/2-)	14 1.99 NS +6-8
51FE 15				3.964	15
51FE 16				4.098 (19/2-)	16
51FE 17				4.456	17
S-p	=	4.851 (0.001)	-----		
51FE 18				5.608 (21/2-)	18
51FE 19				6.492 (23/2-)	19
51FE 20				7.269 (27/2-)	20 48.3 PS 24
51FE 21				7.933 (25/2-)	21

S-p = 4.851 (0.001)-----

S-n = 13.784 (0.009)-----

S-2p = 9.435 (0.003)-----

S-2n = 31.581 (0.024)-----

S-alpha= 8.051 (0.005)-----

S+p = -1.444 (0.005)

S+n = -16.214 (0.001)

S+2p = -4.020 (0.025)

S+2n = -26.901 (0.002)

S+alpha = -7.572 (0.002)

gap p = 3.408 (0.006)

gap n = -2.430 (0.009)

gap 2p = 5.415 (0.025)
gap 2n = 4.680 (0.024)
gap alpha = 0.479 (0.006)