

$^{51}\text{Fe}$        $Z = 26$        $N = 25$       [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 431.499 ( 0.009) MeV

Qbeta+ = 8.041 ( 0.009) 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	= 4.864 ( 0.009)				
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-alpha=	8.065 ( 0.011)				
S-2p	= 9.447 ( 0.009)				
51FE 22				11.468 (29/2-)	22
51FE 23				11.712 (29/2-)	23
51FE 24				12.650 (31/2-)	24
S-p	= 4.864 ( 0.009)				
S-n	= 13.797 ( 0.012)				
S-2p	= 9.447 ( 0.009)				
S-2n	= 31.594 ( 0.026)				
S-alpha=	8.065 ( 0.011)				
S+p	= -1.447 ( 0.012)				
S+n	= -16.199 ( 0.010)				
S+2p	= -4.006 ( 0.027)				

S+2n = -26.888 ( 0.009)  
S+alpha = -7.558 ( 0.009)

gap p = 3.416 ( 0.015)  
gap n = -2.402 ( 0.016)  
gap 2p = 5.441 ( 0.028)  
gap 2n = 4.707 ( 0.027)  
gap alpha = 0.507 ( 0.014)