

^{50}Mn $Z = 25$ $N = 25$ [link to full NNDC output](#)

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

BE = 426.635 (0.000) MeV

Qbeta+ = 7.634 (0.001) MeV

	Energy	T	J+	J-	J-other	T1/2
50MN	1	0.000	1 0+			1 283.19 MS 10
50MN	2	0.225	5+			2 1.75 M 3
50MN	3	0.651	1+			3
50MN	4				0.659 (6+)	4
50MN	5	0.800	1 2+			5 0.7 PS GT
50MN	6				1.031 0 (7+)	6
50MN	7	1.143	0 3+			7 0.33 PS +11-8
50MN	8			1.727 1-		8
50MN	9				1.765 (3+:7+)	9
50MN	10				1.798 (3+)	10
50MN	11				1.875 2(+)	11
50MN	12	1.917	0 5+			12 0.7 PS GT
50MN	13	1.931	1 4+			13 0.090 PS LT
50MN	14				2.120 0 (8+)	14 0.73 PS LT
50MN	15				2.157 (1+:5+)	15
50MN	16				2.301 (0+:4+)	16
50MN	17				2.340 (3-,4+)	17
50MN	18				2.411 (1)+	18
50MN	19				2.478 (3)	19
50MN	20				2.534 0 (9+)	20 0.52 PS 8
50MN	21				2.557 (5+)	21
50MN	22				2.615 (0:3-)	22
50MN	23				2.694 (1)+	23
50MN	24				2.716 (4+)	24
50MN	25				2.790 (1)+	25
50MN	26				2.980 (0:3+)	26
50MN	27				3.177	27
50MN	28				3.256 (1) (6+)	28 0.07 PS LT
50MN	29				3.370 (5-,6+)	29
50MN	30				3.392 (1)+	30
50MN	31				3.439 (2+:6+)	31
50MN	32				3.478 (0+:3-)	32
50MN	33				3.520	33
50MN	34				3.562	34
50MN	35				3.638 (2+:5+)	35
50MN	36				3.654 (1)+	36
50MN	37				3.724 (3:6+)	37

50MN	38				3.850		38	
50MN	39				4.028	(1)+	39	
50MN	40				4.254	(8-)	40	

50MN	41				4.333	(1)+	41	
S-p	=	4.584	(0.002)	-----			
50MN	42				4.584	(1)+	42	
50MN	43				4.585	(11+)	43	
50MN	44				4.838	(10-)	44	
50MN	45				4.875	(7-,8+)	45	
50MN	46				5.728		46	
50MN	47				6.148	(12-)	47	
50MN	48				6.461	(9-,10+)	48	
50MN	49				6.937	(13+)	49	
S-alpha=	7.977	(0.000)	-----				
50MN	50				8.277	(15+)	50	2 PS GT

S-p = 4.584 (0.002)-----
 S-n = 13.078 (0.002)-----
 S-2p = 12.728 (0.001)-----
 S-2n = 29.474 (0.007)-----
 S-alpha= 7.977 (0.000)-----

S+p = -4.864 (0.009)
 S+n = -13.688 (0.001)
 S+2p = -6.311 (0.008)
 S+2n = -24.222 (0.002)
 S+alpha = -7.807 (0.001)

gap p = -0.280 (0.009)
 gap n = -0.609 (0.002)
 gap 2p = 6.417 (0.008)
 gap 2n = 5.252 (0.007)
 gap alpha = 0.170 (0.001)