

$^{50}\text{Mn}$        $Z = 25$        $N = 25$       adopted link      ENSDF link

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

BE = 426.634 ( 0.000) MeV

Qbeta+ = 7.634 ( 0.000) 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 4.44 PS 14
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	1.932	1 4+			13 0.090 PS LT
50MN 14				2.120 0 (8+)	14 0.73 PS LT
50MN 15				2.158 (1+:5+)	15
50MN 16				2.301 (0+:4+)	16
50MN 17				2.340 (3-)	17
50MN 18	2.404	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	2.684	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-)	29
50MN 30	3.380	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	3.644	1+			36
50MN 37				3.723 (3,4,5-)	37

50MN	38						3.850			38
50MN	39		4.013		1+					39
50MN	40						4.254		(8-)	40
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50MN	41		4.316		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-)	45
50MN	46						5.728			46
50MN	47						6.148		(12-)	47
50MN	48						6.461		(9-)	48
50MN	49						6.937		(13+)	49
S-alpha=			7.976		(0.000)		-----			
50MN	50						8.277		(15+)	50
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										2 PS GT

S-p = 4.584 ( 0.002)-----  
 S-n = 13.078 ( 0.002)-----  
 S-2p = 12.727 ( 0.001)-----  
 S-2n = 29.473 ( 0.007)-----  
 S-alpha= 7.976 ( 0.000)-----

S+p = -4.851 ( 0.001)  
 S+n = -13.688 ( 0.000)  
 S+2p = -6.295 ( 0.005)  
 S+2n = -24.227 ( 0.000)  
 S+alpha = -7.808 ( 0.000)

gap p = -0.268 ( 0.003)  
 gap n = -0.609 ( 0.002)  
 gap 2p = 6.432 ( 0.005)  
 gap 2n = 5.246 ( 0.007)  
 gap alpha = 0.168 ( 0.000)