

^{48}Mn $Z = 25$ $N = 23$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 397.161 (0.007) MeV

Qbeta+ = 13.525 (0.010) MeV

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

48MN	1	0.000	1 4+			1 157.7 MS 22
48MN	2	0.313	(2+)			2
48MN	3	0.403	1+			3
48MN	4	0.430	(5+)			4
48MN	5	0.636	(6+)			5
48MN	6			0.689	(1-)	6
48MN	7			0.912	(2-)	7
48MN	8			1.220	(3-)	8
48MN	9			1.273	(4-)	9
48MN	10	1.281	(7+)			10

48MN	11			1.717	(4-)	11
48MN	12			1.854	(5-)	12
S-p	=	2.023	(0.008)	-----		
48MN	13			2.219	(5-)	13
48MN	14	2.230	(8+)			14
48MN	15			2.565	(6-)	15
48MN	16	2.652	(9+)			16
48MN	17			2.940	(6-)	17
48MN	18	3.037	2 0+			18
48MN	19	3.204	1+			19
48MN	20			3.343	(7-)	20

48MN	21	3.495	1+			21
48MN	22	3.619	1+			22
48MN	23	3.713	1+			23
48MN	24	4.170	(10+)			24
48MN	25	4.299	1+			25
48MN	26	4.341	(11+)			26
48MN	27	4.399	1+			27
48MN	28	4.517	1+			28
48MN	29	4.755	1+			29
48MN	30	6.291	(13+)			30

S-p = 2.023 (0.008) -----

S-n = 14.802 (0.032) -----

S-2p = 6.799 (0.007) -----

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S-2n = 33.022 ( 0.087) -----  
S-alpha= 7.913 ( 0.010) -----  
  
S+p = -2.743 ( 0.025)  
S+n = -16.395 ( 0.007)  
S+2p = -2.871 ( 0.126)  
S+2n = -29.473 ( 0.007)  
S+alpha = -7.472 ( 0.009)  
  
gap p = -0.720 ( 0.027)  
gap n = -1.593 ( 0.033)  
gap 2p = 3.928 ( 0.126)  
gap 2n = 3.549 ( 0.087)  
gap alpha = 0.441 ( 0.013)
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