

^{58}Mn $Z = 25$ $N = 33$ adopted link ENSDF link

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

BE = 504.405 (0.003) MeV

Qbeta- = 6.328 (0.003) MeV

	Energy T	J+	J-	J-other	T1/2
58MN 1	0.000	1+			1 3.0 S 1
58MN 2	0.072	4+			2 65.4 S 5
58MN 3				0.126 (2+)	3
58MN 4				0.170 (3+)	4
58MN 5	0.183	1+			5
58MN 6	0.289	1+			6
58MN 7				0.430 (3+)	7
58MN 8				0.448 (5+)	8 35 PS LT
58MN 9				0.463 (0:3+)	9
58MN 10				0.591 (4+)	10
58MN 11	0.651	1+			11
58MN 12	0.661	5+			12
58MN 13				0.683 (0:3+)	13
58MN 14				0.735 (4+)	14
58MN 15	0.748	1+			15
58MN 16	0.810	1+			16
58MN 17	0.817	1+			17
58MN 18	1.044	1+			18
58MN 19				1.240 (6+)	19
58MN 20				1.250 (2)+	20
58MN 21	1.275	1+			21
58MN 22				1.338 (4)	22
58MN 23	1.350	3+			23
58MN 24	1.385	5+			24
58MN 25				1.413	25
58MN 26				1.458 (5)	26
58MN 27				1.470 (4)+	27
58MN 28				1.535 (4)+	28
58MN 29				1.601 (6)	29
58MN 30				1.880 (7)	30 35 PS LT
58MN 31				2.259 (3,4)+	31
58MN 32				2.282 (5,4)+	32
58MN 33				2.340	33
58MN 34				2.368 (2,3,4)+	34
58MN 35				2.412 (2,3)+	35
58MN 36				2.460 (8)	36 0.4 PS LT
58MN 37				2.487 (2,3)+	37

58MN 38				2.506	(NOT 1+)	38
58MN 39				2.564		39
58MN 40				2.855		40

58MN 41				2.988		41
58MN 42				3.040	(NOT 1+)	42
58MN 43				3.043	(9)	43 0.4 PS LT
58MN 44				3.218		44
58MN 45				3.258		45
58MN 46				3.415		46
58MN 47				3.462		47
58MN 48				3.721	(10)	48 0.3 PS LT
58MN 49				4.708		49
58MN 50				4.733	(11)	50

58MN 51				4.812	(11)	51
58MN 52				4.941		52
58MN 53				5.312		53
58MN 54				5.424	(12)	54
58MN 55				6.337		55
S-n	=	6.413	(0.003)	-----		
58MN 56				6.566		56
58MN 57				6.873	(13)	57
58MN 58				7.443	(14)	58
S-alpha=	=	8.354	(0.012)	-----		
58MN 59				9.831	(16)	59

S-p	=	10.592	(0.003)	-----		
S-n	=	6.413	(0.003)	-----		
S-2p	=	24.222	(0.176)	-----		
S-2n	=	15.059	(0.003)	-----		
S-alpha=	=	8.354	(0.012)	-----		
S+p	=	-12.126	(0.003)			
S+n	=	-7.769	(0.004)			
S+2p	=	-20.401	(0.003)			
S+2n	=	-13.283	(0.004)			
S+alpha	=	-8.022	(0.019)			
gap p	=	-1.535	(0.004)			
gap n	=	-1.357	(0.005)			
gap 2p	=	3.821	(0.176)			
gap 2n	=	1.775	(0.004)			
gap alpha	=	0.332	(0.022)			