

$^{59}\text{Mn}$        $Z = 25$        $N = 34$       adopted link      ENSDF link

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

BE = 512.174 ( 0.002) MeV

Qbeta- = 5.140 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2
59MN 1			0.000	5/2-	1 4.59 S 5
59MN 2			0.112	7/2-	2
59MN 3			1.049	9/2-	3
59MN 4				1.238	4
59MN 5			1.301	11/2-	5 1.82 PS 28
59MN 6				1.862 (9/2-)	6
59MN 7				1.900	7
59MN 8				2.343 (11/2-)	8
59MN 9				2.641 (13/2-)	9
59MN 10				2.722 (13/2-)	10
59MN 11				2.741 (11/2)	11
59MN 12			2.922	15/2-	12
59MN 13				3.038 (13/2)	13
59MN 14				3.190 (13/2)	14
59MN 15				3.219 (15/2)	15
59MN 16				3.452 (15/2)	16
59MN 17				3.673 (17/2)	17
59MN 18				3.682 (17/2)	18
59MN 19				3.767	19
59MN 20				3.874 (17/2)	20
59MN 21				4.268 (19/2)	21
59MN 22				4.344 (19/2)	22
59MN 23				4.368 (19/2)	23
59MN 24				4.988 (21/2)	24
59MN 25				5.187 (21/2)	25
59MN 26				5.238 (21/2)	26
59MN 27				5.801 (23/2)	27
59MN 28				5.987 (23/2)	28
59MN 29				6.234 (23/2)	29
59MN 30				6.682	30
59MN 31				6.785 (25/2)	31
59MN 32				7.147 (25/2)	32
59MN 33				7.321	33
59MN 34				7.458	34
59MN 35				7.608	35
59MN 36				7.750 (27/2)	36
59MN 37				7.758	37

S-p	=	10.823	(	0.004	)-----
S-n	=	7.769	(	0.004	)-----
S-2p	=	25.668	(	0.085	)-----
S-2n	=	14.182	(	0.003	)-----
S-alpha	=	8.825	(	0.027	)-----
S+p	=	-13.177	(	0.004	)
S+n	=	-5.514	(	0.003	)
S+2p	=	-21.951	(	0.002	)
S+2n	=	-12.359	(	0.003	)
S+alpha	=	-8.751	(	0.019	)
gap p	=	-2.354	(	0.006	)
gap n	=	2.255	(	0.005	)
gap 2p	=	3.717	(	0.085	)
gap 2n	=	1.822	(	0.004	)
gap alpha	=	0.074	(	0.033	)