

^{19}Ne $Z = 10$ $N = 9$ adopted link ENSDF link

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

BE = 143.780 (0.000) MeV

Qbeta+ = 3.240 (0.000) MeV

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

19NE 1	0.000	1/2 1/2+			1 17.22 S 2
19NE 2	0.238	5/2+			2 18.0 NS 5
19NE 3			0.275	1/2-	3 42.6 PS 21
19NE 4			1.508	5/2-	4 0.97 PS 40
19NE 5	1.536	3/2+			5 19 FS 8
19NE 6			1.616	3/2-	6 99 FS 21
19NE 7	2.795	9/2+			7 97 FS 24
S-alpha=	3.528 (0.001)	-----			
19NE 8	4.033	3/2+			8 35 FS LT
19NE 9				4.140 (9/2)-	9 0.2 PS LT
19NE 10				4.197 (7/2)-	10 0.24 PS LT

19NE 11	4.379	7/2+			11 0.08 PS LT
19NE 12				4.549 (1/2,3/2)-	12 55 FS LT
19NE 13				4.600 (5/2+)	13 0.11 PS LT
19NE 14	4.635	13/2+			14 0.7 PS GT
19NE 15				4.712 (5/2-)	15
19NE 16				4.783	16
19NE 17	5.092	5/2+			17
19NE 18	5.351	1/2+			18
19NE 19				5.424 (7/2+)	19
19NE 20				5.463	20

19NE 21				5.539	21
19NE 22				5.832	22
19NE 23				6.013 (3/2,1/2)-	23
19NE 24				6.092	24
19NE 25				6.149	25
19NE 26				6.288	26
S-p =	6.410 (0.000)	-----			
19NE 27				6.437	27
19NE 28				6.742 (3/2,1/2)-	28
19NE 29				6.861	29
19NE 30				7.067	30

19NE 31				7.210	31
19NE 32				7.253	32
19NE 33				7.326	33
19NE 34				7.531 3/2	34
19NE 35	7.616	3/2 3/2+			35

19NE 36				7.700		36
19NE 37				7.788		37
19NE 38				7.994		38
19NE 39				8.069		39
19NE 40				8.236		40

19NE 41				8.442		41
19NE 42				8.523		42
19NE 43				8.810		43
19NE 44				8.920	(11/2-)	44
19NE 45				9.013		45
19NE 46				9.100		46
19NE 47				9.240		47
19NE 48				9.489		48
19NE 49				9.810	(11/2+)	49

S-p = 6.410 (0.000)-----
S-n = 11.637 (0.000)-----
S-2p = 12.017 (0.000)-----
S-2n = 30.891 (0.000)-----
S-alpha= 3.528 (0.001)-----

S+p = -2.191 (0.001)
S+n = -16.865 (0.000)
S+2p = -5.426 (0.001)
S+2n = -23.626 (0.000)
S+alpha = -9.651 (0.000)

gap p = 4.219 (0.001)
gap n = -5.228 (0.000)
gap 2p = 6.591 (0.001)
gap 2n = 7.265 (0.000)
gap alpha = -6.122 (0.001)