

^{23}Ne $Z = 10$ $N = 13$ adopted link ENSDF link

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

BE = 182.971 (0.000) MeV

Qbeta- = 4.376 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
23NE 1	0.000	5/2+			1 37.25 S 10
23NE 2	1.017	1/2+			2 178 PS 10
23NE 3				1.702 (7/2+)	3 70 FS LT
23NE 4	1.822	3/2+			4 70 FS LT
23NE 5	2.315	5/2+			5 70 FS LT
23NE 6				2.517 (5/2,7/2)	6 70 FS LT
23NE 7			3.221 3/2-		7 70 FS LT
23NE 8	3.432	3/2+			8 70 FS LT
23NE 9				3.458 (1/2,3/2,5/2+)	9 70 FS LT
23NE 10				3.831 (3/2,5/2,7/2)+	10 70 FS LT
23NE 11			3.836 1/2-		11 70 FS LT
23NE 12				3.842	12 70 FS LT
23NE 13				3.988 (3/2)+	13 70 FS LT
23NE 14				4.010	14 70 FS LT
23NE 15				4.270	15
23NE 16				4.436 (3/2,5/2,7/2)+	16
23NE 17				4.764	17
23NE 18				4.867	18
23NE 19				4.940	19
23NE 20				4.995	20
23NE 21				5.029	21
23NE 22				5.068	22
23NE 23				5.185 (3/2+,5/2+)	23
S-n =	5.201 (0.000)				
23NE 24	5.201	1/2+			24
23NE 25				5.220 5/2-,7/2-	25
23NE 26				5.265	26
23NE 27				5.340	27
23NE 28			5.461 1/2-		28
23NE 29	5.479	1/2+			29
23NE 30				5.522	30
23NE 31				5.560	31
23NE 32			5.609 1/2-		32
23NE 33				5.646	33
23NE 34	5.672	1/2+			34
23NE 35				5.726	35
23NE 36	5.740	3/2+			36

23NE	37						5.785		37
23NE	38				5.861		3/2-		38
23NE	39						5.899		39
23NE	40		5.968		1/2+				40

23NE	41						6.093		41
23NE	42						6.329		42
23NE	43						6.445		43

S-p = 15.236 (0.012)-----
S-n = 5.201 (0.000)-----
S-2p = 27.794 (0.012)-----
S-2n = 15.565 (0.000)-----
S-alpha= 10.912 (0.003)-----

S+p = -10.553 (0.000)
S+n = -8.869 (0.001)
S+2p = -22.617 (0.000)
S+2n = -13.024 (0.029)
S+alpha = -11.857 (0.000)

gap p = 4.684 (0.012)
gap n = -3.668 (0.001)
gap 2p = 5.177 (0.012)
gap 2n = 2.541 (0.029)
gap alpha = -0.946 (0.003)