

^{22}Ne $Z = 10$ $N = 12$ adopted link ENSDF link

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

BE = 177.770 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
22NE 1	0.000	0+			1 STABLE
22NE 2	1.275	2+			2 3.60 PS 5
22NE 3	3.357	4+			3 225 FS 4
22NE 4	4.456	2+			4 3.7 FS 25
22NE 5			5.146 2-		5 0.8 PS 2
22NE 6	5.330	1+			6 1.2 FS 3
22NE 7	5.363	2+			7 69 FS 12
22NE 8				5.523 (4)+	8 21 FS 3
22NE 9	5.641	3+			9 3 FS LT
22NE 10			5.910 3-		10 32 FS 11
22NE 11	6.120	2+			11 14 FS 7
22NE 12	6.235	0+			12 236 FS 83
22NE 13				6.311 (6+)	13 49 FS 4
22NE 14	6.345	4+			14 13 FS 3
22NE 15				6.636 (3,4)+	15 49 FS 21
22NE 16			6.689 1-		16 243 FS 132
22NE 17	6.819	2+			17 3 FS LT
22NE 18				6.853 (1+)	18 0.38 FS 16
22NE 19	6.900	0+			19 76 FS 8
22NE 20			7.051 1-		20 100 FS 30
22NE 21	7.341	0+			21 3 FS LT
22NE 22				7.341 (4)+	22 35 FS 21
22NE 23				7.406 (3)-	23 32 FS 10
22NE 24				7.423 (5+)	24 3 FS LT
22NE 25				7.469 1,2	25 55 FS 21
22NE 26			7.489 1-		26
22NE 27	7.643	2+			27 470 AS 200
22NE 28				7.664 (2)-	28
22NE 29			7.722 3-		29
22NE 30				7.921 (2)+	30
22NE 31				8.077 (4)+	31
22NE 32	8.134	2+			32
22NE 33				8.162 2+,3,4+	33
22NE 34				8.376 (3)-	34
22NE 35				8.452	35
22NE 36	8.490	2+			36
22NE 37				8.561 (1,2)+	37 0.35 FS 13
22NE 38				8.573	38

22NE 39				8.596		39
22NE 40				8.741	(3)-	40

22NE 41				8.855	(4)+	41
22NE 42				8.900		42
22NE 43				8.976		43
22NE 44				9.045	(2+,3-)	44
22NE 45				9.097	(1 TO 3)-	45
22NE 46		9.178	1+			46 84 AS 3
22NE 47				9.178	(4)+	47
22NE 48		9.229	2+			48
22NE 49				9.250		49
22NE 50				9.324		50

22NE 51				9.508		51
22NE 52		9.541	2+			52
22NE 53				9.625	5	53
22NE 54				9.654		54

S-alpha=	9.667	(0.000)	-----			
22NE 55				9.725	(3-)	55
22NE 56				9.841	(2+)	56

S-p = 15.266 (0.002)-----
S-n = 10.364 (0.000)-----
S-2p = 26.399 (0.001)-----
S-2n = 17.125 (0.000)-----
S-alpha= 9.667 (0.000)-----

S+p = -8.794 (0.000)
S+n = -5.201 (0.000)
S+2p = -20.487 (0.000)
S+2n = -14.070 (0.001)
S+alpha = -10.615 (0.000)

gap p = 6.472 (0.002)
gap n = 5.164 (0.000)
gap 2p = 5.912 (0.001)
gap 2n = 3.056 (0.001)
gap alpha = -0.948 (0.000)