Table 19.21 from (1987AJ02): Energy levels of ^{19}Ne [a]

E_x (MeV ± keV)	$J^\pi; T$	K^π	τ	Decay	Reactions
0	$\frac{1}{2}^+; \frac{1}{2}$	$\frac{1}{2}^+$	$\tau_{1/2} = 17.22 \pm 0.02$ sec	β^+	1, 3, 4, 5, 8, 9, 10, 11, 12
0.23827 ± 0.11	$\frac{5}{2}^+$	$\frac{1}{2}^+$	$\tau_m = 26.0 \pm 0.8$ nsec $g = -0.296 \pm 0.003$	γ	4, 5, 9, 10, 11, 12
0.27509 ± 0.13	$\frac{1}{2}^-$	$\frac{1}{2}^-$	$\tau_m = 61.4 \pm 3.0$ psec	γ	4, 5, 9, 11
1.50756 ± 0.3	$\frac{5}{2}^-$	$\frac{1}{2}^-$	$1.4^{+0.5}_{-0.6}$ psec	γ	4, 5, 9, 11
1.5360 ± 0.4	$\frac{3}{2}^+$	$\frac{1}{2}^+$	28 ± 11 fsec	γ	4, 5, 9, 10, 11
1.6156 ± 0.5	$\frac{3}{2}^-$	$\frac{1}{2}^-$	143 ± 31 fsec	γ	4, 5, 9, 11
2.7947 ± 0.6	$\frac{9}{2}^+$	$\frac{1}{2}^+$	140 ± 35 fsec	γ	4, 5, 6, 8, 9, 10, 11, 12
4.0329 ± 2.4	$\frac{3}{2}^+$		< 50 fsec	γ	5, 7, 11, 12
4.140 ± 4	$(\frac{9}{2})^-$	$(\frac{1}{2}^-)$	< 0.3 psec	γ	5, 7, 11
4.1971 ± 2.4	$(\frac{7}{2})^-$	$(\frac{1}{2}^-)$	< 0.35 psec	γ	4, 5, 7, 11
4.3791 ± 2.2	$\frac{7}{2}^+$	$(\frac{1}{2}^+)$	< 0.12 psec	γ	5, 7, 11
4.549 ± 4	$(\frac{1}{2}, \frac{3}{2})^-$		< 80 fsec	γ	5, 7, 11
4.600 ± 4	$(\frac{5}{2}^+)$		< 0.16 psec	γ	5, 7
4.635 ± 4	$\frac{13}{2}^+$	$\frac{1}{2}^+$	> 1 psec	γ	4, 5, 6, 7, 8, 11
4.712 ± 10	$(\frac{5}{2}^-)$				5
4.783 ± 20					11
5.092 ± 6	$\frac{5}{2}^+$			γ	5, 7, 11, 12
5.351 ± 10	$\frac{1}{2}^+$				11
5.424 ± 7	$(\frac{7}{2}^+)$	$(\frac{1}{2}^+)$			4, 5, 11
5.463 ± 20					11
5.539 ± 9					11
5.832 ± 9					11
6.013 ± 7	$(\frac{3}{2}, \frac{1}{2})^-$				11
6.092 ± 8					5, 11
6.149 ± 20					12
6.288 ± 7					5, 11
6.437 ± 9					11
6.742 ± 7	$(\frac{3}{2}, \frac{1}{2})^-$				11

Table 19.21 from (1987AJ02): Energy levels of ^{19}Ne [a] (continued)

E_x (MeV ± keV)	$J^\pi; T$	K^π	τ	Decay	Reactions
6.861 ± 7					5, 11
7.067 ± 9					11
7.21 ± 20					5, 11
7.253 ± 10					11
(7.326 ± 15)					11
(7.531 ± 15)					11
7.616 ± 16	$\frac{3}{2}^+; \frac{3}{2}$				4, 11, 12
7.700 ± 10					11
(7.788 ± 10)					11
7.994 ± 15					11
8.069 ± 12					5, 11
8.236 ± 10					11
8.442 ± 9					4, 5, 11
8.523 ± 10					11
(8.810 ± 25)					11
8.920 ± 9					4, 5, 6, 11
9.013 ± 10					11
9.100 ± 20					11
9.240 ± 20					4, 11
9.489 ± 25					11
9.81 ± 20					4, 5, 6, 7, 11
10.01 ± 20					5
10.407 ± 30	$\frac{3}{2}^+$		45	p, ^{3}He, α	3, 4, 11
10.46	$\frac{1}{2}^+$		355	p, ^{3}He, α	3
10.613 ± 20					11
11.08 ± 20					4, 5, 6
11.24 ± 20					5
$1\ 1.40 \pm 20$					5
11.51 ± 50	$\frac{3}{2}^-, (\frac{1}{2}^-)$		25	^{3}He, α	4
12.23 ± 50	$\frac{5}{2}^+$		200 ± 25	^{3}He, α	4, 6
12.40 ± 50	$\frac{7}{2}^+$		180 ± 25	^{3}He, α	3

Table 19.21 from (1987AJ02): Energy levels of ^{19}Ne [a] (continued)

E_x (MeV $\pm$ keV)	$J^\pi; T$	K^π	τ	Decay	Reactions
12.56 ± 20					5
12.69 ± 50	$\frac{1}{2}^+$		180 ± 40	p, ^{3}He	3
13.1 ± 30					5
13.22 ± 30					5
13.8 ± 250			670 ± 250	γ, ^{3}He	3
14.18 ± 30					5, 6
14.44 ± 30					5
14.78 ± 30			620 ± 130	γ, ^{3}He	3, 5
16.23 ± 130			400 ± 130	γ, n, ^{3}He	3
18.4 ± 500			4400 ± 500	γ, ^{3}He	3

[a] See also Table 19.22.