

Table 20.25 from (1983AJ01): Levels of ^{20}Ne from $^{19}\text{F}(p, p_0)$ ^a

| E_p (keV) | Γ_{lab} (keV) | l | $J^\pi; T$ | Γ_p/Γ | θ_p^2 (%) | $^{20}\text{Ne}^*$ (MeV) |
|---------------------------|--------------------------------|-----|--------------------|-------------------|------------------|--------------------------|
| 340 | 2.9 | 0 | 1^+ | 0.016 | 3.8 | 13.168 |
| 483 | | | 1^+ | | | 13.303 |
| 598 | 37 | 1 | 2^- | 0.0012 | 0.38 | 13.413 |
| 669 | 7.5 | 0 | 1^+ | 0.98 | 9.6 | 13.480 |
| 843 | 23 | 0 | 0^+ | 0.996 | 10.8 | 13.645 |
| 873 | 5.2 | 1 | 2^- ^b | 0.21 | 1.5 | 13.674 |
| 935 | 8.0 | 0 | 1^+ | 0.17 | 0.44 | 13.733 |
| 1346 | 4.5 | 1 | 2^- ^b | 0.067 | 0.07 | 14.123 |
| 1372 | 15 | 1 | 2^- ^b | 0.17 | 0.52 | 14.148 |
| 1422 | 14.6 | 0 | 1^+ | 0.85 | 0.92 | 14.195 |
| 1694 | | | | | | 14.453 |
| 1940 | | (0) | ($0^+, 1^+$) | | | 14.687 |
| 2030 | | | | | | 14.772 |
| 4094 ± 3 | 2.1 ± 0.5 | 0 | $0^+; 2$ | 0.062 ± 0.004 | | 16.732 |
| 5879 ± 7 ^c | 10 ± 3 | 2 | $2^+; 2$ | ≈ 0.2 | | 18.427 |

^a For references see [Table 20.27 in \(1978AJ03\)](#). For θ^2 see [Table 20.28 in \(1978AJ03\)](#).

^b 1^- not excluded by elastic scattering alone.

^c Resonance also observed in p_1, p_3, p_4 and p_5 yields.