

Table 17.7 from (1959AJ76): Levels of  $^{17}\text{F}$  from  $^{16}\text{O}(\text{p}, \text{p})^{16}\text{O}$

| A           |                |                   | B           |                |                 |                  | $^{17}\text{F}^*$ |
|-------------|----------------|-------------------|-------------|----------------|-----------------|------------------|-------------------|
| $E_p$ (MeV) | $\Gamma$ (keV) | $J^\pi$           | $E_p$ (MeV) | $\Gamma$ (keV) | $J^\pi$         | $\theta_p^2$ (%) | (MeV)             |
| 2.66        | 19.9           | $\frac{1}{2}^-$   |             |                |                 |                  | 3.10              |
| 3.47        | < 3.5          | $\frac{7}{2}^-$   | 3.50        | < 25           |                 |                  | 3.86              |
| (3.99)      | $\approx 500$  | $(\frac{3}{2}^+)$ | 4.1         | 400            | $\frac{3}{2}^-$ | 20               | 4.4               |
| (4.39)      | 240            | $(\frac{3}{2}^-)$ | 4.2         | 350            | $\frac{3}{2}^+$ | 32               | 4.7               |
|             |                |                   | 4.70        | < 25           |                 |                  | (5.05)            |
|             |                |                   | 4.8         | 200            | $\frac{1}{2}^+$ | 5.5              | 5.1               |
|             |                |                   | 4.95        | < 25           |                 |                  | (5.30)            |
| 5.16        | 60             |                   | 5.20        | < 25           |                 |                  | 5.45              |
| 5.38        | 50             |                   | 5.40        | < 25           |                 |                  | 5.66              |
| 5.56        | 60             |                   | 5.60        | < 25           |                 |                  | 5.83              |
|             |                |                   | 5.85        | < 25           |                 |                  | (6.15)            |
|             |                |                   | 6.50        | < 25           |                 |                  | (6.75)            |
|             |                |                   | 6.4         | 150            | $\frac{1}{2}^+$ | 3.7              | (6.6)             |
|             |                |                   | 6.65        | < 25           |                 |                  | (6.90)            |

A: (1951LA15, 1951LA1B, 1953EP1A, 1956HE1B).

B: (1954SE1A, 1954SE1B).