## $^{34}$S($^{18}$O,$^{17}$F) 1988Or01

1988Or01: a 108-MeV $^{18}O^{7+}$ beam was produced from the ANU 14UD Pelletron accelerator. Targets were enriched $Ag_2S$. Reaction products were momentum-analyzed with an Enge split-pole spectrometer (FWHM=250 keV at 5.75-10.25°) and detected with a multi-element gas-filled detector at the focal plane. Measured $\sigma(E(^{17}F))$. Deduced levels and ground state mass excess (−24.87 MeV *4*). Comparisons with shell-model calculations. Proposed a decay scheme of $^{35}$Si for the $\gamma$-ray transitions observed but not placed in a decay scheme by 1986Du07.

### $^{35}$P Levels

| E(level)[†] |
|---|
| 0 |
| 2420 *40* |
| 5070 *40* |
| 5890 *70* |
| 6440 *60* |
| 7050 *60* |
| 7440 *60* |
| 7920 *60* |
| $8.60\times10^3$ *10* |
| 9290 *50* |

[†] From 1988Or01.