^{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 γ-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*
8.60×10^3 *10*
9290 *50*

[†] From 1988Or01.