## Ed-018

## Room: C304

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## The observation of electron temperature and density in the ionospheric E region and the energetics of the Es layer

# Reiko Yoshimura [1], Takumi Abe [2], Takeshi Imamura [3], Koh-ichiro Oyama [2]

[1] Earth and Planetary Sci., Tokyo Univ., [2] ISAS, [3] The Institute of Space and Astronautical Science

The electron temperature and density was measured by means of rocket-borne glass-sealed cylindrical Langmuir probe. Detail analysis of the data shows that Te in the Es is several hundred K higher than the ambient Te. There are few studies about the energetics of the Es. We will report the final result about the analysis of the data obtained by the experiment and estimate the magnitude of the electric field by assuming that the elevated Te is due to the Joule heating.