

## Preliminary results on plasma wave observation of the SS-520-2 rocket experiment in the polar cusp region

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We conducted the SS-520-2 rocket experiment in the polar cusp on Dec 4th, 2000 in order to investigate the acceleration and the heating process of heavy ions.

Our role of this project was to analyze the plasma wave phenomena, which lead to the ion acceleration or energization, via Plasma Wave Analyzer(PWA).

In this paper, we introduce the preliminary results of the plasma wave observations in the SS-520-2 rocket experiment.