

CONTENTS

ForewordTakesi Nagata... i

AURORA

Conjugate BreakupT. N. Davis and H. C. Stenbaek-Nielsen... 1

H_{β} Emission during Auroral Breakup.

.....T. Oguti, H. Fukunishi, T. Tohmatsu and T. Nagata... 10

Auroral UV and X-Ray Emissions in Antarctica.

.....T. Tohmatsu, T. Oguti, E. Kaneda, T. Nagata and M. Kodama... 21

*Conjugacy of Auroral Oval.

.....Y. I. Feldstein, G. V. Starkov and V. A. Zverev... 29

VLF AND ULF

**Notes on Broadband Whistler Measurements of Electric Fields and
Associated Phenomena.....D. L. Carpenter... 39

Auroral VLF Emissions in Antarctica.

.....S. Kokubun, T. Oguti, K. Hayashi and T. Nagata... 48

Magnetic Pulsation Conjugacy and Its Mechanisms.....L. J. Lanzerotti... 61

Appendix: Report on Antarctic Business Meeting..... 77

* Presented by Prof. Nagata

** Presented by Prof. Helliwell