

## Polarization characteristics of high-latitude Pi 2's as a function of the position relative to the auroral breakup region

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In order to investigate the generation mechanism of Pi 2's in the magnetosphere, we made a comparative study between magnetometer data observed at the high-latitude CPMN stations and the ultraviolet image (UVI) data of aurora obtained by the Polar satellite. Behaviors of Pi 2 oscillations in the magnetosphere were estimated by mapping the direction of the maximum amplitude of Pi 2s onto the magnetospheric equatorial plane. Auroral breakup regions were also mapped onto the magnetospheric equatorial plane. We then studied the dependence of the Pi 2 polarization on the position relative to the auroral breakup region.

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