## Ea-P012 Room: Lounge

## The relations between plasma waves and auroras in the polar cap observed by the Akebono satellite

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We inverstigated the relations between aororas and plasma waves

observed by the Akebono satellite in the polar cap connected

lobe in the magnetotail with the flux tube.

As a results, we make clear that the characteristics of the plasma waves

associated with the polar cap arc is almost same at aororal oval.

And, we find the narrow band electrostatic waves associated with

the polar rains which is observed above an altitude of 6,000km in the polar cap.