R006-42
A 会場 ：9/27　PM1 （13:45-15:30）
14:15〜14:30

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Statistical analysis of densities and temperatures of cold and hot electrons

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Studying dynamics of plasmas is essential for understanding the global activities of waves in the Earth’s inner magnetosphere. We performed a statistical analysis on densities and temperatures of cold and hot electrons in relation to whistler mode chorus waves. It is said that whistler chorus is triggered by injected hot electrons from the plasma sheet. However, a result of the data analysis indicates that hot electrons in the midnight sector are almost temperature isotropic, which does not make a growth rate positive in the quasi-linear theory. In the presentation, we will explain the results of our data analysis and discuss electron dynamics and their relation to whistler mode waves.