

# Characteristics of Pc5 pulsations under very high speed solar wind

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We try to obtain detailed information about the connection between K-H instability at the magnetopause and occurrence of Pc5 pulsations. As the first step, magnetic field data with one second resolution from Kakioka are analyzed to get fast Fourier transform (FFT) spectrum. The relationship between solar wind velocity and Pc5 power has been studied by many authors, but in this study, we pay attention to the relationship under very high speed solar wind. We find that the spectral power in logarithmic scale and solar wind speed in linear scale have high linear correlation. Next, we show a global distribution of the spectral power and phase of Pc5 with one minute data obtained at various geomagnetic stations.