



THEMIS observation of Kinetic Ballooning/Interchange Waves in the High Bz Plasma Sheet

Evgeny V. Panov (1), Rumi Nakamura (1), Marina V. Kubyshkina (2), Wolfgang Baumjohann (1), Victor A, and Sergeev (2)

(1) Space Research Institute, Austrian Academy of Sciences, GRAZ, Austria (evgeny.panov@oeaw.ac.at), (2) Institute of Physics, Saint Petersburg State University, St. Petersburg, Russia

Using THEMIS observations of plasma sheet oscillations with kinetic ballooning/interchange instability (BICI) signatures, we investigate the properties of the waves when a high background plasma sheet Bz is seen. We find that such waves are in a better agreement with the existing kinetic simulations. Using adapted Tsyganenko models, we also show conjugate all-sky camera observations in the course of the development of the waves.