## Electrodynamics of the Poleward Moving Auroral Form

# masaki fujimura[1]; Yasunobu Ogawa[2]; Satonori Nozawa[3]; Ryouichi Fujii[3]

[1] Particle and Astrophysical Sci., Nagoya Univ.; [2] STE Lab., Nagoya Univ.; [3] STEL, Nagoya Univ

PMAF (Poleward Moving Auroral Form) is a phenomenon where an arc-like aurora is detached from the dayside auroral oval around the cusp and moves poleward into the polar cap. This phenomenon is considered to relate to the dayside merging and PMAF to be the ionospheric edge of the reconnected flux tube. Due to observational difficulties, however, the electrodynamics of PMAF has not been understood yet. The present study aims at understanding the physical processes of PMAF from an analysis using simultanous data, combinations of two or three kinds of measurements from EISCAT VHF/ESR radars, ground-based 630.0 nm optical imaging, Polar and DMSP satellites observations.