

Hiroshi Hasegawa

*Curriculum Vitae*

**Address**

Thayer School of Engineering  
Dartmouth College  
8000 Cummings Hall, Hanover, NH 03755

**Education**

1997 B.S. in Physics, Nagoya University, Japan  
1999 M.S. in Particle and Astrophysical Sciences, Nagoya University, Japan  
2002 Ph.D. in Particle and Astrophysical Sciences, Nagoya University, Japan

**Career Summary**

2002-present Research Associate, Thayer School of Engineering, Dartmouth College

**Awards**

AGU Outstanding Student Paper Award (1999 AGU Fall Meeting, SPA Section)

**Research Topics**

- (1) Magnetic reconnection at the magnetopause using Cluster and Geotail data.
- (2) Reconstruction of two-dimensional plasma structures in space using Cluster data.
- (3) Solar wind entry into the magnetosphere using Cluster and Geotail data.

**Invited Presentations**

Hasegawa, H., *et al.*, Dawn-dusk asymmetry and dayside-to-flank transition in the low-latitude boundary layer: Geotail observations, *Yosemite Conference-Workshop 2003*, Yosemite national park, February 2003.

Hasegawa, H., *et al.*, Reconstruction of two-dimensional magnetopause structures based on multispacecraft information from Cluster, *IUGG2003*, Sapporo, Japan, July 2003.

**Selected Publications**

Hasegawa, H., K. Maezawa, T. Mukai, and Y. Saito, Plasma entry across the distant tail magnetopause 1. Global properties and IMF dependence, *J. Geophys. Res.*, 107, 10.1029/2001JA900139, 2002.

Hasegawa, H., K. Maezawa, T. Mukai, and Y. Saito, Plasma entry across the distant tail magnetopause 2. Comparison between MHD theory and observation, *J. Geophys. Res.*, 107, 10.1029/2001JA900138, 2002.

Hasegawa, H., M. Fujimoto, K. Maezawa, Y. Saito, and T. Mukai, Geotail observations of the dayside outer boundary region: IMF control and dawn-dusk asymmetry, *J. Geophys. Res.*, 108, 10.1029/2002JA009667, 2003.

Hasegawa, H., M. Fujimoto, Y. Saito, and T. Mukai, Dense and stagnant ions in the low-latitude boundary region under northward interplanetary magnetic field, *Geophys. Res. Lett.*, 31, 10.1029/2003GL019120, 2004.

Hasegawa, H., B. U. Ö. Sonnerup, M. W. Dunlop, *et al.*, Reconstruction of two-dimensional magnetopause structures from Cluster observations: Verification of method, *Ann. Geophys.*, 22, 1251-1266, 2004.

Hasegawa, H., M. Fujimoto, T.-D. Phan, H. Rème, A. Balogh, M. W. Dunlop, C. Hashimoto, and R. TanDokoro, Transport of solar wind into Earth's magnetosphere through rolled-up Kelvin-Helmholtz vortices, *Nature*, 430, 755-758, 2004.