

Curriculum Vitae

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Name: Iku Shinohara

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Interests

Space Plasma Physics, Numerical Simulation

Educational background

Ph.D. degree (March 1997) Department of Earth and Planetary Physics, The University of Tokyo (supervisor: Prof. Toshio Terasawa)

Professional experience

May 2002 –

Associate Professor at Institute of Space and Astronautical Science

Awards

SGEPSS Obayashi Award in 2002

List of Publications

- Shinohara, I., M. Fujimoto, R. Takaki, and T. Inari, A 3D Particle-In-Cell Simulation of Quasi-Perpendicular Shock on Fujitsu FX-1 Cluster, IEEE trans. Plasma Sci., doi10.1109/TPS.2011.2106515, 2011.
- Shinohara, I., K. G. Tanaka, and M. Fujimoto, Quick triggering of magnetic reconnection in magnetotail, Earth Moon Planets, 100, 225-232, 2007.
- Shinohara, I., H. Suzuki, M. Fujimoto, and M. Hoshino, Rapid large-scale magnetic-field dissipation in a collisionless current sheet via coupling between Kelvin-Helmholtz and lower-hybrid drift instabilities, Phys. Rev. Lett., 87, 9, 095001-4, 2001.

- Shinohara, I., T. Nagai, M. Fujimoto, T. Terasawa, T. Mukai, K. Tsuruda, and T. Yamamoto, Low-frequency electromagnetic turbulence observed near the substorm onset site, *J. Geophys. Res.* 103, A9, 20365-20388, 1998.

(as a coauthor)

- Nagai, T., I. Shinohara, M. Fujimoto, A. Matsuoka, Y. Saito, and T. Mukai, Construction of magnetic reconnection in the near-Earth magnetotail with Geotail, *J. Geophys. Res.* 116, A04222, 2011.
- Tanaka, K. G., T. Yumura, M. Fujimoto, I. Shinohara, S. V. Badman, and A. Grocott, Merging of magnetic islands as an efficient accelerator of electrons, *Phys. Plasmas*, 17, 102902, 2010.
- Oka, M., M. Fujimoto, I. Shinohara, and T. D. Phan, Island surfing" mechanism of electron acceleration during magnetic reconnection, *J. Geophys. Res.* 115, A08223, 2010.
- Asano, Y., I. Shinohara, A. Retino, P. W. Daly, E. A. Kronberg, T. Takada, R. Nakamura, Y. V. Khotyaintsev, A. Vaivads, T. Nagai, W. Baumjohann, A. N. Fazakerley, C. J. Owen, Y. Miyashita, E. A. Lucek, and H. Reme, Electron acceleration signatures in the magnetotail associated with substorms, *J. Geophys. Res.* 115, A05215, 2010.
- Nakamura, T. K. M., H. Hasegawa, and I. Shinohara, Kinetic effects on the Kelvin-Helmholtz instability in ion-to-magnetohydrodynamic scale transverse velocity shear layers: Particle simulations, *Phys. Plasmas*, 17, 042119, 2010.
- Kajimura, Y., H. Usui, I. Funaki, K. Ueno, M. Nunami, I. Shinohara, M. Nakamura, H. Yamakawa, *J. Prop. Power*, 26, 159-166, 2010.
- Miyashita, Y., S. Machida, Y. Kamide, D. Nagata, K. Liou, M. Fujimoto, A. Ieda, M. H. Saito, C. T. Russell, S. P. Christon, M. Nose, H. U. Frey, I. Shinohara, T. Mukai, Y. Saito, and H. Hasegawa, A state-of-the-art picture of substorm-associated evolution of the near-Earth magnetotail obtained from superposed epoch analysis, *J. Geophys. Res.* 114, A01211, 2009.

- Muranaka, T., H. O. Ueda, H. Usui and I. Shinohara, Evaluation of Electric Field Probe On-board Spacecraft Using a 3D Full PIC Simulation, Trans. Japan Soc. Aeron. Space Sci., Space Tec. Japan, Vol. 7, 2009.