



Meiji University Global COE Program
10th Mathematical Sciences based on
Modeling, Analysis and Simulation seminar



Date : July 1, 2009, 16:30~17:30

Location : Meiji Univ. Ikuta Campus, Build 2 Annex A, Room A205

Shin-ichiro Shima (JAMSTEC)

**Title : Micro-Macro Interlocked Simulation
of Clouds and Precipitation**

Abstract : Although clouds play a crucial role in atmospheric phenomena, the numerical modeling of clouds remains some what primitive. We have proposed a novel, particle based, probabilistic approach for the simulation of cloud microphysics, which is named the Super-Droplet Method (SDM). This method enables accurate simulation of cloud microphysics with less demanding cost in computation. The outline of SDM and our future prospects will be presented. Especially, the possibility to apply Micro-Macro Interlocked simulation framework to the SDM will be discussed.

Everyone is welcome to attend the MAS seminar.

Meiji institute for Advanced Study of Mathematical Science (<http://www.mims.meiji.ac.jp>)

(Organizers: M. Mimura, D. Ueyama, Y. Wakano and K. Ikeda)

MAS seminar is partly supported by Meiji University Global COE program “Formation and Development of Mathematical Sciences Based on Modeling and Analysis” (<http://gcoe.mims.meiji.ac.jp/>), the Grant-in-Aid for Scientific Research (S), “Mathematical Theory of Nonlinear-Non-equilibrium Reaction-Diffusion Systems” by M. Mimura (<http://nnrds.math.meiji.ac.jp/>).

Access: 10 minutes on foot from Ikuta St. Odakyu line,
Or 10 minutes by bus No. 13「明治大学正門前」, get off at the last stop.
See http://www.meiji.ac.jp/koho/campus_guide/ for details.