



Meiji University Global COE Program 24th Mathematical Sciences based on



Modeling, Analysis and Simulation seminar

Date : May 27, 2010, 16:30~18:00

Location : Meiji Univ. Ikuta Campus, Build 2 Annex A, Room A207

Yoshihiko Hasegawa (Tokyo Univ.)

Title : Noise Inhomogeneity within Biological Modeling

Abstract : Since many biological mechanisms function under fluctuant environments, their dynamics can be well accounted for by Langevin equations driven by white noise. Although the white noise can reflect the nature of microscopic aspect of fluctuations, it is regular in a mesoscopic time scale and does not capture long-range fluctuations. In this presentation, we show effects of noise inhomogeneity on biological mechanisms. An approximation method considering the inhomogeneity is also presented.

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, K. Ikeda and S.Kinoshita)

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(<http://goe.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.