



Meiji University Global COE Program

43th Mathematical Sciences based on



Modeling, Analysis and Simulation seminar

Date: July 7, 2011, 16:30~18:00

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

Takao K. Suzuki

(National Institute of Agrobiological Sciences)

Title : Morphological design and evolutionary emergence
of leafy moth/butterfly wing patterns

Abstract: Camouflage is a fascinated defensive Strategy of organisms, typically resemblance to natural objects, such as leaves and leichen.

Despite much progress in our understanding of coloration of camouflage, however, the pattern itself has been little investigated. Here, we conducted quantitative analysis and historical tracing to elucidate functional integration and

Evolutionary emergence of leafy moth-wing pattern. In this seminar, I will introduce morphological aspects of camouflage patterns and their possible evolutionary scenario, and also briefly review various way of pigmental pattern formation of organisms, including spot patterns in fly and turing patterns in fish.



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)

MAS seminar is partly supported by Meiji University Global COE program “Formation and Development of Mathematical Sciences Based on Modeling and Analysis” (<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.