

第14回 MEE SEMINAR

MATHEMATICAL ECOLOGY & EVOLUTION

2009年12月15日(火) 14:40~16:10

明治大学生田キャンパス第二校舎A館：A207

小田急小田原線 「生田駅」から徒歩10分

又は「向ヶ丘遊園」駅北口から「明治大学正門前」行きバスで10分終点下車

詳しくは、http://www.meiji.ac.jp/koho/campus_guide/ をご覧下さい

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Meiji Univ. Ikuŕa campus A207

Asymptotic dynamics of a population density under selection-mutation

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Abstract:

We study the dynamics of a population density under selection and mutations between phenotypical traits. We model the dynamics by some equations of Lotka-Volterra type. By studying the asymptotic behavior of these equations in large time, while mutations are rare, we prove that the density goes to a sum of Dirac masses that are traveling in time. In biological terms, at every moment one or several dominant traits survive while other traits go extinct. We describe the limit population density by a constrained Hamilton-Jacobi equation.

参加自由です。皆様のお越しをお待ちしております。

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