

第11回 MEE SEMINAR

MATHEMATICAL ECOLOGY & EVOLUTION

2009年11月17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
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November 17, 2009. 14:40~16:10

Meiji Univ. Ikuta campus A207

Evolutionary transition to cultural communication

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Abstract:

Communication plays an important role in animal societies. In humans and some animals, cultural communication is of particular importance. In fact, MaynardSmith and Szathmary(1995) suggested that human language, which is the extreme form of cultural communication, is the eighth major transition in evolution because it is emergence of the second inheritance system. However, the requirements for this transition are not obvious. To investigate that, we construct and analyze mathematical models of cultural communication which is formalized as a kind of coordination game. As a result, it turned out that evolution of new communication system needs a non random interaction. We discuss about a relationship between the bias of interaction and who obtains benefits from communication.

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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