

第 6 1 回 広島数理解析セミナー (2003年度)

Hiroshima Mathematical Analysis Seminar No.61

日時 : 6月27日(金) 16:30~17:30

場所 : 広島大学理学部 B707

講師 : Professor Julián López-Gómez (Universidad Complutense de Madrid)

題目 : PERMANENCE THROUGH SPATIAL SEGREGATION FOR COMPETING SPECIES

要旨 : The range of validity of the principle of competitive exclusion is certainly limited, as it turns out that when species specialize in some area and, in that area, they are more competitive than the remaining competitors, they will persist in the large even when the intensity of the aggressions from competitors grow in an unlimited rate. The species will have to segregate, of course, when the intensity of aggressions blows-up. So, segregation is a mechanism inherent to specialization in order to avoid extinction. As a result, specialization is not only bud, but extremely useful to avoid massive extinctions in complex systems. This general principle should work not only in Ecology, but also in Economy. Strong specialization is a guarantee of success through spatial segregation. This mechanism might even help to explain the biodiversity of our biosphere.

広島数理解析セミナー幹事

池畠 良 (広大教育) ikehatar@hiroshima-u.ac.jp

宇佐美広介 (広大総科) usami@mis.hiroshima-u.ac.jp

大西 勇 (広大理) isamu_o@math.sci.hiroshima-u.ac.jp

★川下 美潮 (広大理) kawasita@math.sci.hiroshima-u.ac.jp

倉 猛 (広大理) kura@math.sci.hiroshima-u.ac.jp

柴田徹太郎 (広大総科) shibata@mis.hiroshima-u.ac.jp

滝本 和広 (広大理) takimoto@math.sci.hiroshima-u.ac.jp

松本 敏隆 (広大理) mats@math.sci.hiroshima-u.ac.jp

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