

CMMA Monthly Seminar

第 25 回 CMMA 月例セミナー

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Abstract:

It is observed that a traveling spot in some reaction-diffusion system on a bounded planar domain repeats uniform motion and reflections from the boundary like a billiard ball. In contrast to the well-known mathematical billiards, in which a billiard ball undergoes elastic reflections, our billiard ball is not elastic: the angle of reflection is greater than that of incidence. Similar behavior is observed by numerical experiments in other areas of science. In this talk we introduce dynamics of a nonequilibrium billiard ball. Especially, we focus on the relationship between two mathematical models: one is an ODE model which was derived via the center manifold theory by Ei-Mimura-Nagayama, and the other is a discrete-time model.

“Billiards in
nonlinear and nonequilibrium systems”

日時：2018 年 5 月 18 日（金） 16:30-17:30

場所：明治大学 中野キャンパス高層棟 6 階 研究セミナー室 3

主催：

文部科学省 共同利用・共同研究拠点
明治大学先端数理科学インスティテュート
現象数理学研究拠点 (CMMA)



■連絡先

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