明治大学先端数理科学インスティテュート
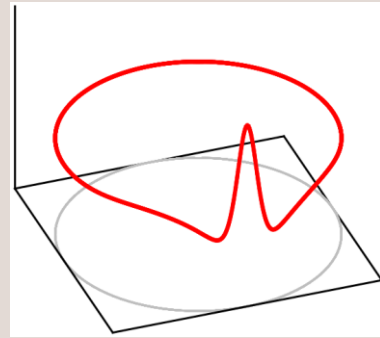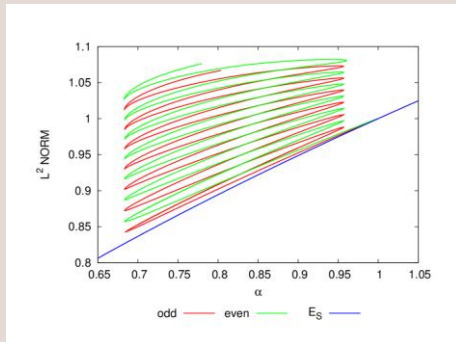
MIMS現象数理カフェセミナー

日時：2016年7月11日(月)(12:10 – 12:50)

場所：中野キャンパス8階　談話室

A　brief story of the Lugiato-Lefever equation

Tomoyuki Miyaji　（Meiji Univ. MIMS）

Abstract：　The Lugiato-Lefever equation (LL equation) is a damped driven nonlinear Schrödinger equation with cubic nonlinearity. It was derived by Lugiato and Lefever as a model equation for pattern formation in nonlinear optics in 1987. It exhibits a rich bifurcation structure, e.g. snaking bifurcation of spatially localized structures, breathing localized structure, and spatiotemporal chaos. Nowadays, it is attracting more and more attention in a different context of nonlinear optics. In this café seminar, we show a brief history of the LL equation as well as a part of our recent interest in this subject.

問い合わせ：

Abe Aya

Email: aya_abe@meiji.ac.jp

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