

# 数論セミナー

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山本謙一郎 (長岡技術科学大学)  
(Nagaoka Univ. of Technology)

Title: Density of periodic measures and large deviation principle for generalized  $(\alpha, \beta)$ -transformations

abstract: We introduce a class of piecewise monotonic maps, called generalized  $(\alpha, \beta)$ -transformations, which include all  $(\alpha, \beta)$  and generalized  $\beta$ -transformations, and prove that the set of periodic measures is dense in the set of ergodic measures for all transitive  $(\alpha, \beta)$ -transformations. As an application, we prove that all transitive generalized  $(\alpha, \beta)$ -transformations satisfy a level-2 large deviation principle with a unique measure of maximal entropy. This is a joint work with Mao Shinoda.

(世話人: 秋山茂樹)