

スーパーグローバルコース数学特別講演会

オスロ大学の Valerio Proietti 先生の講演が下記の日程で行われます。
興味がある方は是非ご参加ください。(申込不要)

日時： 11 月 20 日 (木) 15 : 00~16 : 30

場所：理学研究科 3 号館 127 室



Valerio Proietti
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題目：Base change, groupoid homology,
and hyperbolic dynamics

概要：

In sheaf theory, base change theorems relate the direct image and the inverse image of sheaves. I will introduce a simple base change result in the context of ample groupoid modules and homology. As an application, I will explain that groupoid homology can recover Putnam's homology groups of Smale spaces. These are hyperbolic topological dynamical systems akin to the basic sets of Axiom A diffeomorphisms, originally studied by Smale. The groupoids of Smale spaces produce several examples of interesting C^* -algebras, and their K-theory groups are suitably approximated by groupoid homology. This approximation property can be used to show that K-theory groups of Smale space C^* -algebras have finite rank (as conjectured by Kaminker, Putnam, and Whittaker), which in turn invalidates a conjecture that Smale spaces exhaust the range of K-theory on classifiable real rank zero C^* -algebras.

- ・ 本学の学生は申込不要です。
- ・ 本講演は京都大学のスーパーグローバル教育プログラム、スーパーグローバルコース（数学分野）の企画講演です。当コースについての詳細は <https://www.math.kyoto-u.ac.jp/ja/ktgu/ktgu> をご覧ください。

