

KTGU Special Lectures

スーパーグローバルコース数学特別講演会

グラスゴー大学の Rachael Boyd 先生の講演が下記要領にて行われます。

日時: 2025年1月20日(月)~22日(水)

各 10:30~12:00

場所:理学研究科3号館127室

タイトル: Diffeomorphisms of 3-manifolds



Dr. Rachael Boyd (University of Glasgow)

概要:

This mini-course consists of 3 lectures, where I will introduce the basic theory required to study diffeomorphisms of 3-manifolds, from a topological perspective.

First I will introduce the classifying space B Diff(M) for M a 3-manifold, and Diff(M) the diffeomorphism group of M. I will survey known results on the homotopy type, and introduce tools including various decompositions of M, such as the prime decomposition, Jaco—Shalen Johannson decomposition, and geometric decomposition. I will survey Thurston's geometrisation conjecture (proved by Perelman) and known results on the diffeomorphism groups of certain geometric manifolds (in particular Seifert-fibered manifolds). I will introduce tools such as helpful fiber sequences, locally retractile group actions, and topological posets. This mini-course will contain background theory for my research talk during the topology conference, where I will talk about joint work with Bregman and Steinebrunner.

- ・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。

