



Mathematisches
Forschungsinstitut
Oberwolfach



Oberwolfach Seminar

Algebraic K - and L -theory and geometric group theory

Organizers: Arthur Bartels, Münster
Wolfgang Lück, Bonn
Karen Vogtmann, Warwick
Date (ID): 15 – 21 October 2017 (1742b)
Deadline: 13 August 2017

The idea of this seminar is to bring together ideas and results from two different branches of mathematics, namely, geometric group theory and algebraic K - and L -theory. There has been a great deal of activity in both areas during the last decades and an introduction to both of them is of great value for any PhD-student or Postdoc. We will cover the following topics:

- Algebraic K - and L -theory of group rings, in particular the Farrell-Jones Conjecture
- Applications to manifold theory, geometry and algebra. Discussion of proofs of known cases of the Farrell-Jones Conjecture
- Geometric group theory. Hyperbolic groups, $CAT(0)$ -groups, mapping class groups and $Out(F_n)$, and their actions on interesting spaces.

Concerning prerequisites and introductory reading please see the website of the seminar:

www.mfo.de/occasion/1742b

The seminar takes place at the Mathematisches Forschungsinstitut Oberwolfach. The Institute covers board and lodging. By the support of the Carl Friedrich von Siemens Foundation travel expenses can be reimbursed up to 150 EUR in average per person (against copies of travel receipts). The number of participants is restricted to 25.

Applications including

- full name and university/institute address
- e-mail address
- short CV, present position, university
- name of supervisor of Ph.D. thesis
- a short summary of previous work and interest
- title, ID and date of the intended seminar

should be sent preferably by e-mail (with attachments in pdf format) to:

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