



E i n l a d u n g

zum

Kolloquium des Mathematischen Instituts

(unterstützt vom Graduiertenkolleg und SFB 478)

am Donnerstag, 05.02.2009 um 16:30 Uhr, im Hörsaal M5, spricht

Associate Professor Stefaan Vaes

(University of Leuven)

über das Thema:

**„Von Neumann algebras and measure preserving actions of
countable groups“**

Abstract:

Using a construction of Murray and von Neumann (1943), countable groups and their actions on measure spaces give rise to algebras of Hilbert space operators, called von Neumann algebras. The aim of the talk is to discuss the highly subtle relation between a group action and its von Neumann algebra: Connes' 1976 theorem says that all amenable group actions essentially lead to one single von Neumann algebra, while Popa's recent rigidity results provide group actions whose von Neumann algebra entirely remembers the group and the action.

Tee wird ab 16 Uhr im SR0 des Mathematischen Instituts serviert.