WESTFÄLISCHE
WILHELMS-UNIVERSITÄT
MÜNSTER

E i n l a d u n g

zum

Kolloquium des Mathematischen Instituts
(unterstützt vom Graduiertenkolleg und SFB 478)

am Donnerstag, 05.11.2009 um 16:30 Uhr, im Hörsaal M5, spricht

Professor George Willis
(Universität Newcastle, Australia)

über das Thema:

„Superrigidity of homomorphisms from arithmetic groups having locally compact targets"

Abstract:

The Superrigidity Theorem of G. Margulis asserts that, for certain groups of matrices over the integers, a homomorphism from the group to a connected Lie group either has compact image or extends uniquely to a homomorphism from the corresponding group of matrices over the real numbers.

Recent joint work with Yehuda Shalom has extended Margulis' theorem to cover homomorphisms into more general locally compact, but not necessarily Lie, groups. We show that for certain groups of matrices over the integers (or rationals), the only homomorphisms to a totally disconnected, locally compact group not having compact or discrete image are those that are restrictions of homomorphisms from corresponding groups of matrices over the p-adic numbers.

The talk will explain what we have proved in more detail and sketch some of the ideas in the proof.

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