



Mathematisches Kolloquium

Am Freitag, dem 10. Februar 2017 spricht um 14 Uhr c. t. im Hörsaal IV
der Fachrichtung Mathematik (Gebäude E24)

JProf. Dr. Petra Schwer
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über das Thema:

Geometry of Buildings

Abstract: Buildings are simplicial complexes which generalize certain aspects of the geometry of finite projective planes, Riemannian symmetric spaces and trees. They were first introduced by Jaques Tits as combinatorial objects associated to exceptional groups of Lie type.

Up to now buildings have been used in several fields of mathematics, such as reductive algebraic groups over local fields and their presentations, Kac-Moody groups and geometric group theory. They form prime classes of examples for CAT(0) and CAT(1) spaces.

In this talk, which will be accessible for the non-expert, I will introduce buildings and provide some examples of spherical and affine ones. Afterwards I will give you some examples of my own research where buildings are used to study algebraic and geometric properties of groups.

Der Gast wird von Prof. Dr. Gabriela Weitze-Schmithüsen betreut.

Alle Interessenten sind zum Vortrag herzlich eingeladen.

Kaffee und Tee ab 13.45 Uhr im Konferenzraum der Mathematik (Erdgeschoss, Raum 103)

Die Dozenten der Mathematik