



Universität Konstanz

**Fachbereich
Mathematik und Statistik**
Schwerpunkt
Reelle Geometrie und Algebra

Einladung

Im Oberseminar *Modelltheorie* hält

Magdalena Forstner

(Universität Konstanz)

am **Montag, 20.02.2017**, einen Vortrag zum Thema:

Quantifier Elimination Tests

Der Vortrag findet um **15:15 Uhr** in **F426** statt.

Alle Interessenten sind herzlich eingeladen.

Abstract: A theory \mathcal{T} admits quantifier elimination if every formula is equivalent in \mathcal{T} to a quantifier-free formula. Quantifier elimination is a very powerful property, as it helps in the question of decidability as well as in the study of definable sets. There are various tests that one can use to prove quantifier elimination. In this talk I will particularly present one specific quantifier elimination test which Lou van den Dries used in order to show that the theory of $(\mathbb{R}, 2^{\mathbb{Z}})$ in a suitable language eliminates quantifiers. Afterwards I will give a brief overview of the application of this test to prove that this theory, indeed, admits quantifier elimination.

Sebastian Gruler
Koordinator Oberseminar