



Universität Konstanz

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

Einladung

Im Oberseminar *Modelltheorie* hält

Tobias Kaiser

(Universität Passau)

am **Mittwoch, 05.10.2016**, einen Vortrag zum Thema:

*Piecewise Weierstrass preparation and division for
o-minimal holomorphic functions*

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

Alle Interessenten sind herzlich eingeladen.

Abstract: The classical Weierstrass preparation theorem and division theorem are a key tool in analytic geometry. Given an o-minimal structure expanding the field of reals, we show a piecewise Weierstrass preparation theorem and a piecewise Weierstrass division theorem for the ring of definable holomorphic functions. In the semialgebraic setting and for the structure of globally subanalytic sets and functions we obtain the corresponding results for real analytic functions. As an application we show a definable global Nullstellensatz for principal ideals.

Sebastian Gruler
Koordinator Oberseminar