



FAKULTÄT FÜR MATHEMATIK, INFORMATIK UND PHYSIK  
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# MATHEMATIKKOLLOQUIUM

Das Institut für Mathematik lädt zu folgendem Vortrag ein:

**Dr. Andreas Dolzmann**

Universität Passau, Deutschland

## **Tarskis Legacy – Application of Quantifier Elimination Today**

This talk gives an overview over quantifier elimination algorithms, implementations, and applications.

We start with a brief introduction of the concept and basics of quantifier elimination. In particular we clarify the notion of quantifier elimination, generic quantifier elimination, local quantifier elimination, and extended quantifier elimination.

The REDLOG package of the computer algebra system REDUCE, as a universal platform providing quantifier elimination and variants is presented. Beside REDLOG we sketch QEPCAD, the successor of the first systematic implementation of a quantifier elimination algorithm.

We finish the talk with some example computations.

**Zeit: Dienstag, den 23. Jänner 2007 um 17<sup>15</sup> Uhr**

**Ort: Viktor-Franz-Hess-Haus, Technikerstrasse 25, HS D**

*Ulrich Oberst*

**GÄSTE SIND HERZLICH WILKOMMEN!**