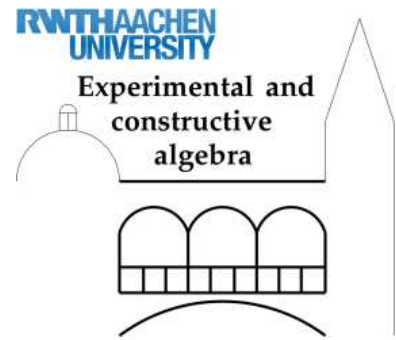


Graduiertenkolleg

# Experimentelle und konstruktive Algebra



## Kolloquiumsvortrag

Freitag, 8. Juli 2011, 14:00 Uhr, Hörsaal III

**S. COLLIER COUTINHO** (Universidade Federal do Rio de Janeiro, Brasilien):  
*Proving the nonexistence of algebraic solutions of differential equations*

I will introduce DARBOUX's geometrical method for computing a first integral of an ordinary differential equation of the first order and the first degree in a historical context and discuss a recent and very efficient algorithm capable of proving that a given equation does not have a first integral of the form devised by DARBOUX; which includes, for example, all rational first integrals.

Wir laden alle Interessierten herzlich ein.

Ab 13:15 Uhr gibt es Kaffee und Tee in der Bibliothek des Lehrstuhl D für Mathematik.