Graduiertenkolleg
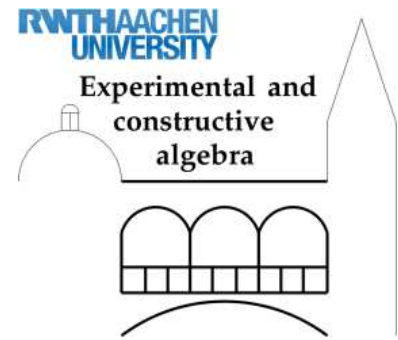
Experimentelle und konstruktive Algebra

RWTHAACHEN
UNIVERSITY
Experimental and
constructive
algebra

Vortrag

Donnerstag, 30. Juni 2011, 15:45 Uhr, Hörsaal III

JONATHAN HAUENSTEIN (Texas A&M University, USA)**:**
Computing real solutions using numerical algebraic geometry

In many applications where polynomial systems arise, real solutions are often the only solutions of interest. In this talk, I will discuss computing real solutions using algorithms in numerical algebraic geometry as well as using alpha-theory to certify the results in certain situations. The talk will conclude with new work on computing the real radical of an ideal using a hybrid symbolic-numeric approach. Some of the results presented arose from joint work with F. SOTTILE and C. WAMPLER.

Wir laden alle Interessierten herzlich ein.