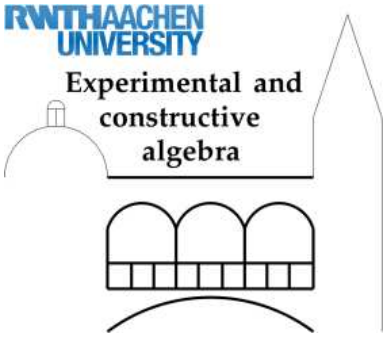
Graduiertenkolleg

Experimentelle und konstruktive Algebra



Kolloquiumsvortrag

Freitag, 10. Juni 2011, 14:00 Uhr, Hörsaal III

Heide Gluesing-Luerssen (University of Kentucky, USA):
Trellis Representations of Linear Block Codes

Graphical models for linear block codes have proven to be a powerful tool for decoding. The most common models are trellises. These are edge-labeled graphs where the vertices are layered along a (potentially circular) time axis, and edges may only connect vertices at consecutive times. The codewords are exactly the edge label sequences of the cycles through the trellis. I will discuss various properties of such trellises and show how to construct minimal trellises for a given code. Thereafter, I will address the question of how to dualize a trellis in order to obtain a trellis for the dual code.

Wir laden alle Interessierten herzlich ein.

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