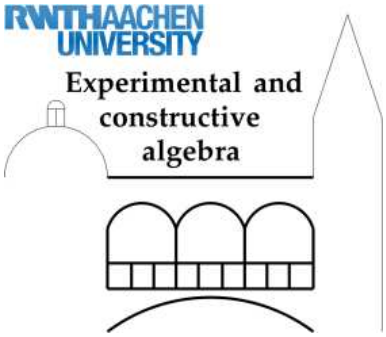
Graduiertenkolleg

Experimentelle und konstruktive Algebra



Vortrag

Dienstag, 7. Mai 2013, 12:00 Uhr, Hörsaal III.

Andreas Maurischat (Universität Heidelberg):
Differential Modules over differentially simple rings

A differential ring is a ring R with a derivation. It is called differentially simple if (0) and (1) are the only ideals in R which are stable under the derivation. In this talk, I will show that the differentially simple rings behave like fields in some sense. Namely that the category of finitely generated differential modules over a differentially simple ring is an abelian rigid tensor category, just as it is the cateogry of finite dimensional vector spaces over some field. If time permits, I will also talk about the connection to Picard-Vessiot theory of differential modules.

Wir laden alle Interessierten herzlich ein.