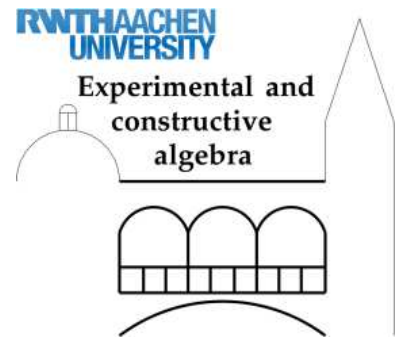


Graduiertenkolleg

Experimentelle und konstruktive Algebra



Kolloquiumsvortrag

Dienstag, 29. November 2011, 15:45 Uhr, Hörsaal III

MÉLANIE RACZEK (Université Catholique de Louvain, Belgien):
Milnor K -groups of $F(t)$ and ramification sequences

For F a field and t an indeterminate, we study the second Milnor K -group $K_2F(t)$ of the rational function field $F(t)$. We define the *Faddeev length* of a $\xi \in K_2F(t)$ as the least number of symbols $\sigma_1, \dots, \sigma_r$ such that $\xi - (\sigma_1 + \dots + \sigma_r)$ is in the image of the map $K_2F \rightarrow K_2F(t)$. It is a measure of complexity of the elements of $K_2F(t)$ and it is related to the Faddeev index of central simple algebras. We give an upper bound for the Faddeev length of ξ in terms of the degree of its ramification sequence.

Wir laden alle Interessierten herzlich ein.

Ab 15:00 Uhr gibt es Kaffee und Tee in der Bibliothek des Lehrstuhl D für Mathematik.