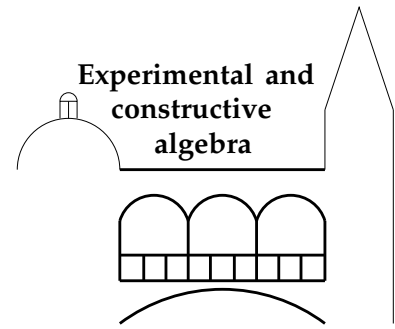


Graduiertenkolleg

Experimentelle und konstruktive Algebra



Kolloquiumsvortrag

Dienstag, 16. Mai 2017, 14:00 Uhr, SeMath

NICLAS KRUFF (LEHRSTUHL A FÜR MATHEMATIK):
Invariant ideals of vector fields in PDNF

Invariant sets are a useful tool when investigating autonomous ordinary differential equations. We will briefly review the basic notations of invariant ideals and vector fields in Poincaré-Dulac normal form (PDNF). Furthermore, we will give an introduction to semi-invariants and first integrals. These objects are useful when determining invariant sets of differential equations. As a main result we will characterize the invariant ideals of the semisimple part of a given vector field.

Wir laden alle Interessierten herzlich ein.