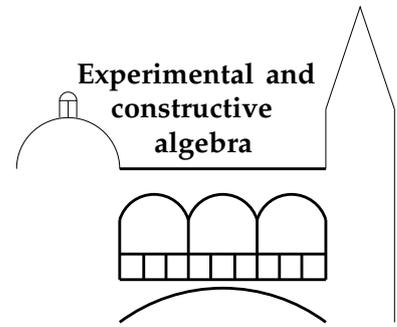


Graduiertenkolleg

Experimentelle und konstruktive Algebra



Vortrag

Dienstag, 21. März 2017, 14:00 Uhr, SeMath

VOLODYMYR BAVULA (UNIVERSITY OF SHEFFIELD, UK):

The group of automorphisms of the algebra of one-sided inverses

The algebra in the title is obtained from the polynomial algebra $P(n)$ in n variables by adding commuting, left (but not two-sided) inverses of the canonical generators of $P(n)$. The algebra $S(n)$ is canonically isomorphic to the algebra of scalar integro-differential operators in n variables and it belongs to a family of algebras like the Weyl algebra $A(n)$ and the polynomial algebra $P(2n)$. Explicit set of generators is found for the group of automorphisms of $S(n)$. This result may help in understanding of the structure of the groups of automorphisms of the Weyl algebra $A(n)$ and the polynomial algebra $P(2n)$. An analogue of the Jacobian homomorphism is introduced for the group of automorphisms of $S(n)$ (notice that the algebra $S(n)$ is noncommutative and neither left nor right Noetherian).

Wir laden alle Interessierten herzlich ein.