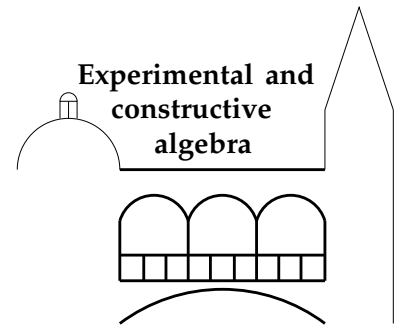# Experimentelle und konstruktive Algebra

Kolloquiumsvortrag

Dienstag, 23. Oktober 2018, 14:15 Uhr, Hörsaal IV

JOHANNES FLAKE (LEHRSTUHL B FÜR MATHEMATIK):
Dirac cohomology for Hopf-Hecke algebras

Dirac operators have played an important role in representation theory, especially for real reductive Lie groups and their unitary representations. As a generalization, David Vogan suggested considering the cohomology of Dirac operators for general, possibly non-unitary representations. He conjectured a connection between this Dirac cohomoloy and central characters which was not only proved in the original context but more recently, versions of it for various kinds of Hecke algebras were established. We explain how these instances can be treated uniformly and how generalized results can be proved using superalgebras, Hopf algebras, smash products, and PBW deformations.

Wir laden alle Interessierten herzlich ein.