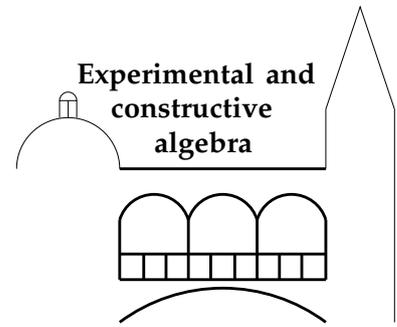


Graduiertenkolleg

Experimentelle und konstruktive Algebra



Kolloquiumsvortrag

Dienstag, 21. Mai 2019, 14:15 Uhr, Hörsaal WK (Raum 1230|001)

SIDDHARTHA SAHI (RUTGERS UNIVERSITY, NEW JERSEY, USA):
Generalized Capelli operators and their eigenvalues

The classical Capelli identity asserts the equality of two rather explicit differential operators acting on $n \times n$ matrices; it plays a key role in Herman Weyl's approach to invariant theory. About 30 years ago Bert Kostant and I gave an interpretation of this identity as an eigenvalue problem for invariant differential operators on a symmetric cone, which led to a considerable generalization. Over the years these ideas have had a surprising number of connections with different areas of mathematics; I will describe some of these in my lecture. Some of the recent results are joint with Genkai Zhang, and still more recent results (including work in progress) with Hadi Salmasian and Vera Serganova.

Wir laden alle Interessierten herzlich ein.