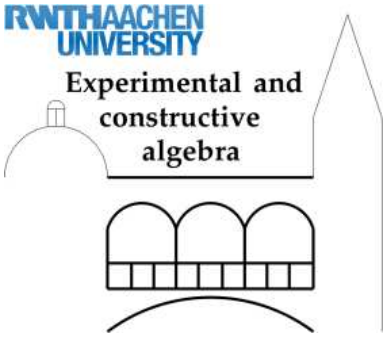
Graduiertenkolleg

Experimentelle und konstruktive Algebra



Kolloquiumsvortrag

Mittwoch, 15. Oktober 2014, 14:00 Uhr bis 15:30 Uhr, Hörsaal SeMath

Thomas Gerber (Lehrstuhl D für Mathematik):

Modular representations of the symmetric group

Over a field of characteristic 0, the representation theory of the symmetric group $\mathfrak{S}_n$ (with $n \geq 0$) is well known. In the "modular" case, that is when the characteristic of the ground field is a prime number p, the situation is much more complicated. I first explain what problems occur in this setting, and define the decomposition matrix. Then, I introduce some tools aimed at solving these problems : the Hecke algebra and a certain quantum group.

Wir laden alle Interessierten herzlich ein.