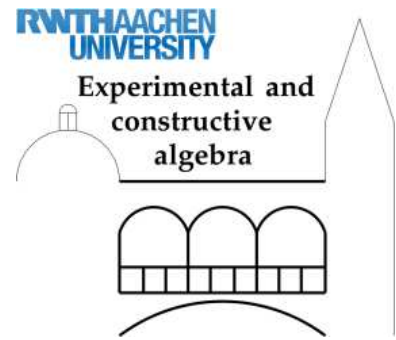


Graduiertenkolleg

Experimentelle und konstruktive Algebra



Vortrag

Montag, 30. Juli 2012, 15:45 Uhr, Hörsaal IV

MARKUS PERLING (Universität Bielefeld):

Equivariant resolutions and maximal Cohen-Macaulay modules over affine toric varieties

We present a combinatorial framework which allows to translate free resolutions of \mathbb{Z}^n -graded modules over the polynomial ring in n variables into projective resolutions over certain incidence algebras. We present two applications: 1. we explicitly determine the Betti numbers and local cohomologies of certain such modules related to hyperplane arrangements; 2. we produce new examples of MCM modules over certain toric rings.

Wir laden alle Interessierten herzlich ein.