MATHEMATICS DEPARTMENT
North Carolina State University

ALGEBRA SEMINAR

Friday, October 27, 2006

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CNRS – Université Louis Pasteur, Strasbourg

Deformation Spaces for Hopf–Galois Extensions

ABSTRACT: Hopf–Galois extensions are natural generalizations both of classical Galois extensions and of group-graded algebras. For each of them we construct an associative algebra with a big center and with nice properties. The center (or its spectrum) is a space of “versal deformations” for a given Hopf–Galois extension. Our construction uses an appropriate theory of polynomial identities as well as a generalization of Dedekind’s group-determinants. This is joint work with Eli Aljadeff.

3:00 - 3:50 pm   HA 335
Faculty and Students are invited to attend.