

MATHEMATICS DEPARTMENT
North Carolina State University

ALGEBRA SEMINAR

Wednesday, September 1, 2004

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NC State University

Representations of the Lie Pseudoalgebra $W(\mathfrak{d})$

ABSTRACT: A Lie pseudoalgebra is a Lie algebra in a certain “pseudo-tensor” category. For any Lie algebra \mathfrak{d} of dimension N , one can construct a Lie pseudoalgebra $W(\mathfrak{d})$, which is closely related to the Lie–Cartan algebra W_N of vector fields. Our main result is the classification of all irreducible finite $W(\mathfrak{d})$ -modules. (Based on a joint work with A. D’Andrea and V. G. Kac.)

2:35 - 3:25pm HA 335

Faculty and Students are invited to attend.