

MATHEMATICS DEPARTMENT
North Carolina State University

ALGEBRA SEMINAR

Friday, February 17, 2006

Professor Alberto De Sole
Harvard University

Quantum and Classical W Algebras

ABSTRACT: I will first introduce the notions of vertex algebra and Poisson vertex algebra, and the relation between them via the so called quasi-classical limit. I will then introduce the Zhu algebra of a vertex algebra, which controls its representations, both in the quantum and in the classical case. As a special case, I will consider the affine and finite W algebras, obtained by the method of quantum Hamiltonian reduction.

3:00 - 3:50 pm HA 335

Faculty and Students are invited to attend.