

MATHEMATICS DEPARTMENT  
North Carolina State University

ALGEBRA SEMINAR

Monday, March 24, 2008

Professor Alberto De Sole  
Harvard University

Poisson vertex algebras in the theory of  
Hamiltonian equations

**ABSTRACT:** We discuss some algebraic structures relevant to the theory of Hamiltonian equations and their integrals of motion. In particular, we discuss the relation between the notions of Hamiltonian operator and of Poisson vertex algebra. We also describe how to use pairs of compatible Poisson vertex algebra structures to construct infinite hierarchies of integrable Hamiltonian equations.

4:00 - 4:50 pm    HA 330

Faculty, students and post-docs are encouraged to attend.

Please note the change in day and room.