MATHEMATICS DEPARTMENT
North Carolina State University

ALGEBRA SEMINAR

Friday, May 5, 2006

Professor Yi-Zhi Huang
Rutgers University

Towards a Mathematical Construction of
Conformal Field Theories

ABSTRACT: I shall discuss the recent progress in a program to construct conformal field theories in the sense of Kontsevich and Segal from representations of vertex operator algebras. A large part of the program has been finished now. Many interesting mathematical structures and results, including modular tensor categories, modular functors and the Verlinde conjecture and Verlinde formula, have been obtained mathematically as byproducts of the finished part of the program.

3:00 - 3:50 pm  HA 335

Faculty and Students are invited to attend.