

MATHEMATICS DEPARTMENT
North Carolina State University

ALGEBRA SEMINAR

Friday, December 8, 2006

Tom McAvoy

NC State University

Twisted fusion for lattice vertex algebras

ABSTRACT: Vertex algebras associated to integral lattices form an important class of examples. The tensor product in the category of modules is determined by the existence of “intertwining operators.” Given commuting vertex algebra automorphisms, one constructs “twisted” representations and maps among these. We review a suitable definition of such maps, obtain new structure theory for twisted modules in special cases, and recover known results for modules over the fixed-point subalgebra.

3:00 - 3:50 pm HA 335

Faculty and Students are invited to attend.