

ALGEBRA AND NUMBER THEORY  
SEMINAR

*Algebraic aspects of statistical field theory*

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**Abstract:** We'll give an introduction to the role that representation theory plays in the construction of models for phase transitions in physics. In particular, we'll introduce the Virasoro algebra and the "minimal models" which are essentially its simplest unitary representations. We'll also consider some related models based on Lie algebras. The talk will mainly focus on the algebra of these models, but we'll try to explain how certain aspects of the constructions have significance in the physical theories.

Tuesday, September 28, 2010, 3:00 pm  
Mathematics and Science Center: E408

MATHEMATICS AND COMPUTER SCIENCE  
EMORY UNIVERSITY