SPECIAL TOPICS
SEMINAR

Conformal field theory models for phase transitions

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Abstract: We will attempt to explain how quantum field theory describes the continuum limit of discrete statistical models. (As in the previous talk, our focus will be on simple Ising models.) At phase transitions the divergence of the correlation length translates to local conformal invariance in the corresponding quantum field theory.

The goal is to explain how a particular field theory model applies to the phase transition in the cobalt niobate experiment.

Thursday, September 16, 2010, 4:00 pm
Mathematics and Science Center: W301

MATHEMATICS AND COMPUTER SCIENCE
EMORY UNIVERSITY