

CALIFORNIA STATE UNIVERSITY, LONG BEACH

THE MATHEMATICS COLLOQUIUM

presents

Dr. Andrew Jiang

California Institute of Technology

speaking on

Interleaving on Graphs

Friday, September 24, 2004

12:00PM-1:00PM

LA5-267

Abstract: Interleaving on a graph means to label the vertices of the graph with different integers, in such a way that vertices labeled by the same integer are always 'far away' from each other. Here 'far away' can have various meanings, depending on the specific problems. Graph interleaving has applications in data storage in networks, burst-error correction for codewords and the design of Lee-metric codes. In this talk, I'll introduce a number of results on graph interleaving, including maximum-interleaving on trees, multi-cluster interleaving on paths and cycles, and t-interleaving on arrays and tori.