Joseph Fels Ritt Lectures

Prof. Richard Kenyon

BROWN UNIVERSITY

Laplacians on Graphs and
Integral Laminations

The classical Matrix-Tree Theorem relates the determinant of the Laplacian on a graph to the number of spanning trees. This theorem can be generalized to Laplacians on line bundles on graphs and, more generally, on vector bundles with (noncommutative!) SL(2)-connection. The objects being counted are "cycle-rooted spanning forests" which are closely related to integral laminations.

Thursday and Friday, May 7 and 8, 2009, at 4 p.m.
312 Mathematics Hall
2990 Broadway at 117th Street
New York City
Tea will be served at 3:30 p.m. in
508 Mathematics Hall