

MATHEMATICS DEPARTMENT
North Carolina State University

ALGEBRA SEMINAR

Friday, March 14, 2008

Professor Patricia Hersh
Indiana University

Regular cell complexes in total positivity

ABSTRACT: We give a new criterion for determining whether a finite CW complex is regular. This involves both combinatorial conditions on the closure poset and also topological conditions on the codimension one cell incidences. We will also discuss how this applies to a conjecture of Fomin and Shapiro that certain stratified totally non-negative spaces with the Bruhat intervals as their closure posets are regular CW complexes.

4:00 - 4:50 pm HA 335

Faculty, students and post-docs are encouraged to attend.