

**MATHEMATICS AND STATISTICS  
COLLOQUIUM ANNOUNCEMENT**

Friday, January 15  
3:30 - 4:30 PM  
ARTS 217

**SPEAKER**  
Hari Bercovici  
Indiana University

**TITLE**  
Intersection theory in a von Neumann algebra

**ABSTRACT:**

We will discuss a new approach to the intersection theory of the Grassmann manifolds. This yields new proofs of the classical Horn inequalities in finite dimensions, and of von Neumann algebra analogues of these inequalities. Most of the discussion is combinatorial and entirely elementary.