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**Hari Bercovici\*** (bercovic@indiana.edu), Mathematics Department, Indiana University,  
Bloomington, IN 47401. *Intersection theory in a finite von Neumann algebra.*

The Grassmannian of a finite algebra consists of all projections of fixed trace. Schubert varieties are analogues of the finite dimensional cycles which generate the homology of Grassmannians. We will describe recent progress in the study of intersections of such Schubert cells. This is joint work with B. Collins, K. Dykema, W.S. Li and D. Timotin. (Received February 02, 2009)