1016-22-319   **Stephen DeBacker***, Department of Mathematics, East Hall, 530 Church Street, Ann Arbor, MI
                   48109. *Counting rational classes in geometric classes.*

For certain kinds of regular elements in a p-adic group, it is possible to give a very clean answer to the question of how many rational classes exist in the elements geometric conjugacy class. (The answer can always be expressed in terms of Galois cohomology; we are looking for something more "concrete".) In this talk we shall describe the answer for regular elements which belong to unramified maximal tori. (Received February 14, 2006)