Topology Seminar

Christian Haesemeyer

of University of California, Los Angeles will be speaking on

On the K-theory of toric varieties in characteristic p

on September 23 at 4:30 in
MIT Room 2-131

We will explain our recent joint work with G. Cortinas, M. Walker and C. Weibel concerning properties of the algebraic K-theory of toric varieties in positive characteristic. The results are proved using trace methods and a variant of the cyclic nerve construction that provides a homotopy theoretical model of the so-called Danilov sheaves of differentials. Most of the technical work happens completely within the world of monoid schemes (which are a particular manifestation of what goes by the name of "schemes over the field with one element").