

1033-55-86

Teena Meredith Gerhardt* (tgerhard@indiana.edu), Rawles Hall, 831 E 3rd Street,
Bloomington, IN 47405. *Equivariant homotopy and algebraic K-theory.*

Computing algebraic K -theory groups can be very difficult and it is often the tools of homotopy theory that are best suited to make such computations. In this talk we will discuss this homotopy theoretic approach, introducing topological cyclic homology and TR-groups. Further, we will discuss how $RO(S^1)$ -graded equivariant homotopy groups arise naturally in K -theory computations and describe how these equivariant groups can be computed. (Received September 04, 2007)