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Teena M Gerhardt* (tgerhard@indiana.edu), Rawles Hall, 831 E 3rd Street, Bloomington, IN 47408. *Equivariant homotopy and algebraic K-theory.*

Computing algebraic K -theory groups is generally very difficult, but trace methods can be used to relate K -theory to fixed point spectra of topological Hochschild homology. This approach, which leads to the study of topological cyclic homology and TR-groups, has proven quite useful for computations. In this talk we discuss how $RO(S^1)$ -graded equivariant homotopy groups arise naturally in this approach to algebraic K -theory and describe how these equivariant TR-groups can be computed. (Received February 10, 2008)