1035-15-147 **Michael C. Sullivan*** (`msulliva@math.siu.edu`), Math Dept (4408), Southern Illinois University, Carbondale, IL 62901. *Twist-wise flow equivalence and matrices over a non PID ring.*
Twist-wise flow equivalence, a problem in the dynamics of topologial flows, in reduced to the classification up to matrix equivalence of square matrices over the group ring ZZ/2, which is not a PID. Thus, a topological problem is now an open algebra problem. Much of the talk is based on joint work with Mike Boyle. (Received July 31, 2007)