

1081-13-76

**Tai Ha\*** ([tha@tulane.edu](mailto:tha@tulane.edu)), Tulane University, Department of Mathematics, New Orleans, LA 70118. *Stabilization of multigraded Betti numbers.*

Let  $G$  be a finitely generated abelian group, let  $S$  be a  $G$ -graded polynomial ring over a base ring  $A$ . Let  $I$  be a  $G$ -homogenous ideal in  $S$  and let  $M$  be a finitely generated  $G$ -graded  $S$ -module. In this talk, we shall discuss the asymptotic linear behavior of multigraded (or  $G$ -graded) Betti numbers of  $MI^t$ , as  $t$  gets large. (Received January 30, 2012)