1001-53-214 **Libin Mou*** (`mou@bradley.edu`), Department of Mathetics, Bradley University, Peoria, IL 61625.
Comparison theorems for generalized Riccati equations and applications. Preliminary report.

Comparison theorems for classical Riccati differential equations are often used in geometric analysis to obtain results like rigidity theorems and pinching theorems. In this talk we present comparison theorems for generalized Riccati differential equations. In addition, some applications will be discussed. (Received August 26, 2004)