

**Meeting:** 1000, Albuquerque, New Mexico, SS 12A, Special Session on Regularity in PDEs and Harmonic Analysis

1000-35-163      **Thomas J. Bieske\*** (tbieske@math.usf.edu), Dept. of Mathematics, 4202 E. Fowler Ave., PHY 114, Tampa, FL 33620. *Equivalence of Solutions to the  $p$ -Laplace Equation in the Heisenberg Group.*

In this talk, we prove a comparison principle for viscosity solutions to the  $p$ -Laplace equation in the Heisenberg group. As a consequence, we obtain the equivalence of potential theoretic harmonic functions, weak solutions and viscosity solutions to the  $p$ -Laplace equation. (Received August 23, 2004)