

Ermanno Lanconelli

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will speak on

**Liouville theorems for real sub-Laplacians on stratified
Lie groups. Some applications to gauge functions,
Eikonal equations and Bocher's theorems**

ABSTRACT: We present some polynomial Liouville theorems for sub-Laplacians on stratified Lie groups. We then use these theorems to analyze some features of the gauge functions, i.e., the homogeneous functions harmonic out of the origin. We also analyze the relationship between gauge functions, Eikonal equations and Bocher-type theorem.

MONDAY, NOVEMBER 13, 2006

LECTURE AT 4:00 PM (#)

COFFEE, TEA, AND REFRESHMENTS FROM 3-5 PM.

ROOM 617, WACHMAN BUILDING
DEPARTMENT OF MATHEMATICS