

1022-35-159

**Changyou Wang\***, Department of Mathematics, Lexington, KY 40506. *On Subelliptic Aronsson's Equation*. Preliminary report.

In this talk, I will discuss how to derive the subelliptic Aronsson equation for absolute minimizers of the supernorm functional

$$F(u, \Omega) = \|H(Xu)\|_{L^\infty(\Omega)}$$

for any  $C^1$ -quasiconvex  $H$ . Here  $X = (X_1, \dots, X_m)$  are smooth vector fields on  $R^n$  satisfying Hormander's finite rank condition. The result has been previously known for  $C^2$ - $H$ . (Received September 12, 2006)