Meeting: 1000, Albuquerque, New Mexico, SS 13A, Special Session on Analysis and Geometry in Carnot-Caratheodory Spaces

1000-32-88   **Jingzhi Tie*** (`jtie@math.uga.edu`), Department of Mathematics, The University of Georgia, Athens, GA 30602-7403, and **Der-Chen Chang** (`chang@math.georgetown.edu`), Department of Mathematics, Georgetown University, Washington, DC 20057-0001. *Fundamental Solution of Kohn Laplacian on quadratic CR manifold.* Preliminary report.

I will introduce the Kohn Laplacian on the quadratic CR manifold and give its fundamental solution and Cauchy-Szego Kernel. The problem can be reduced to the problem of Hermite operator on $\mathbb{R}^n$. (Received August 18, 2004)