Meeting: 1003, Atlanta, Georgia, SS 25A, AMS Special Session on Complex and Functional Analysis, I

1003-32-1168 **Sönmez Şahutoğlu** and **Emil J Straube*** (`straube@math.tamu.edu`), Dept. of Mathematics, Texas A&M University, College Station, TX 77845-3368. $\overline{\partial}$: *compactness and hypoellipticity in* $\mathcal{L}^2_{loc}$. Preliminary report.

We will discuss some connections between compactness of the $\overline{\partial}$-Neumann operator and hypoellipticity of $\overline{\partial}$ in $\mathcal{L}^2_{loc}$. (Received October 04, 2004)