1070-32-142Mehmet Çelik, Mathematics, The University of North Texas at Dallas, 7300 University Hills<br/>Blvd., Dallas, TX TX 75241, and Emil J. Straube\*, Department of Mathematics, Texas A&M<br/>University, College Station, TX TX 77843. On the ideal of compactness multipliers.

Let  $\Omega$  be a bounded pseudoconvex domain in  $\mathbb{C}^n$ . The compactness multipliers for the  $\overline{\partial}$ -Neumann problem form an ideal in  $C(\overline{\Omega})$  whose zero set may be viewed as the obstruction to compactness: the  $\overline{\partial}$ -Neumann operator is compact if and only if this zero set is empty. We determine this set for convex domains in  $\mathbb{C}^n$  and for complete Hartogs domains in  $\mathbb{C}^2$ . (Received February 07, 2011)