1015-32-313 **Andreea C Nicoara*** (`anicoara@math.harvard.edu`), Department of Mathematics, Harvard University, 1 Oxford St., Cambridge, MA 02138. *The Kohn Algorithm in More General Classes of Functions.* Preliminary report.

In 1979 Joseph J. Kohn introduced an algorithm that yields ideals of subelliptic multipliers. On a real analytic pseudo-convex domain, subellipticity of the $\bar{\partial}$-Neumann problem is equivalent to the Kohn algorithm generating the entire ring of real analytic functions. I will discuss what happens to this equivalence when one considers local rings of functions that are more general than the ring of real analytic functions. (Received February 07, 2006)