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**Andreea C Nicoara\*** ([anicoara@math.harvard.edu](mailto: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 pseudoconvex 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)