

**Meeting:** 1000, Albuquerque, New Mexico, SS 2A, Special Session on Several Complex Variables and CR Geometry

1000-32-170      **Robert Juhlin\*** (rjuhlin@math.ucsd.edu), Department of Mathematics, University of California, San Diego, La Jolla, CA 92093-0112. *Convergence of formal holomorphic mappings between real-analytic hypersurfaces.*

Let  $(M, p)$  be a germ of a real analytic hypersurface in  $\mathbb{C}^N$  containing a complex hypersurface  $E$  going through  $p$ . We will further assume that the Levi-form vanishes (generically) to the first order along  $E$ . Our main result is that when  $N = 2$  any formal invertible mapping taking  $(M, p)$  into another such hypersurface  $(M', p')$  is necessarily convergent.

The result generalizes to higher dimensions, under some further restrictions on the hypersurfaces. (Received August 23, 2004)