1016-32-269 **Robert Juhlin\*** (`juhlin.3@nd.edu`), Department of Mathematics, 255 Hurley Hall, Notre Dame, IN 46556-4618. *Finite Jet Determination of local real-analytic CR-diffeomorphisms.*

Given two real-analytic holomorphically nondegenerate hypersurfaces $M$ and $M'$ in complex space and points $p \in M$ and $p' \in M'$ respectively, then any local real-analytic CR-diffeomorphism sending $M$ into $M'$ and $p$ to $p'$ is determined by a jet of some finite order at $p$. This result is true in any dimension and is an extension of the work by Ebenfelt, Lamel and Zaitsev for hypersurfaces in $\mathbb{C}^2$. We will present the main ideas of the proof and also discuss what is known about finite jet determination of smooth CR-diffeomorphisms. (Received February 14, 2006)