1007-32-191 **Peter Ebenfelt*** (pebenfel@math.ucsd.edu), Department of Mathematics, University of California at San Diego, La Jolla, CA 92093, and **Linda Rothschild**. *Finite mappings of essentially finite CR manifolds.* Preliminary report.

We study algebraic and geometric properties of finite holomorphic mappings H of an essentially finite generic submanifold M in $\mathbb{C}^N$. We give geometric conditions that guarantee that the image $H(M)$ is a smooth submanifold of $\mathbb{C}^N$. We also give algebraic conditions on M such that *if* $H(M)$ is contained in a submanifold of the same dimension as M, then H is necessarily a biholomorphism. As an application of our results, we also give a necessary and sufficient condition for a finite formal mapping to be convergent. (Received February 21, 2005)