1016-14-281 Steven Dale Cutkosky, Department of Mathematics, University of Missouri -Columbia, Columbia, MO 65211, and Hema Srinivasan* (hema@math.missouri.edu), Department of Mathematics, University of Missouri-Columbia, Columbia, MO 65211. Isomorphisms of Complete Local Rings. Preliminary report.

Suppose that (R.a) and (S, b) are complete local rings such that there exist, not necessrily compatible, ring isomorphisms $R/a^n \cong S/b^n$ for all n. Is $R \cong S$? We prove this if one of R or S is an isolated singularity. (Received February 14, 2006)