1099-11-150 **Kiran S. Kedlaya*** (kedlaya@ucsd.edu) and **Christopher Davis**. *Almost purity and overconvergent Witt vectors.*

Let R be a ring for which the Frobenius maps on finite p-typical Witt vectors over R are surjective. (This condition is closely related to the condition of a Banach algebra being *perfectoid*.) Using results of Kedlaya-Liu and Scholze (generalizing a theorem of Faltings), we show that the integral closure of R in a finite étale extension of $R[p^{-1}]$ is *almost finite étale* over R. We then lift the finite étale extension of $R[p^{-1}]$ to a finite étale extension of rings of *overconvergent Witt vectors*. The point is that no hypothesis of p-adic completeness is needed; this result thus points towards potential global analogues of p-adic Hodge theory. (Received February 05, 2014)