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Jason Boynton* (jboynto5@fau.edu), Department of Mathematical Sciences, 777 Glades Road, Boca Raton, FL 33431. *Pullbacks of Prüfer domains*. Preliminary report.

ABSTRACT: We investigate Prüfer domains and other arithmetical properties preserved by pullbacks. As an application of our investigations, for any integral domain D with field of fractions K , we characterize those Prüfer domains R between $D[X]$ and $K[X]$ that have a non-zero conductor of $K[X]$ into R . In particular, for $D = \mathbb{Z}$, we show that every such Prüfer domain R has the 2-generator property. (Received February 06, 2006)