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Andrew Kustin, Claudia Polini and **Bernd Ulrich*** (ulrich@math.purdue.edu), Department of Mathematics, Purdue University, West Lafayette, IN 47907. *Blowup algebras and elimination theory*. Preliminary report.

We report on recent advances in the elimination theory of Rees algebras and special fiber rings. Finding the defining equations of the latter corresponds to the implicitization of projective varieties that are given parametrically. (Received August 29, 2009)