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J. Felipe Voloch* (voloch@math.utexas.edu), Department of Mathematics, University of Texas at Austin, 1 University Station, C1200, Austin, TX 78712. *Factoring polynomials and an algebraic surface cryptosystem*. Preliminary report.

We discuss a possible attack on an algebraic surface cryptosystem proposed by Akiyama, Goto and Miyake, which depends on factoring in the coordinate ring of an affine surface. (Received July 28, 2009)