1052-11-309 Kirsten Eisentraeger*, Department of Mathematics, The Pennsylvania State University, University Park, PA 16802. Hilbert's Tenth Problem for function fields over algebraically closed fields.

Let K be the function field of a variety of dimension at least 2 over an algebraically closed field of odd characteristic. We show that Hilbert's Tenth Problem for K is undecidable. (Received August 31, 2009)