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Kirsten Eisentraeger* (eisentra@math.psu.edu), Department of Mathematics, Penn State University, University Park, PA 16802. *Undecidability for the perfect closure of function fields of positive characteristic.*

Let K be the perfect closure of the rational functional field over the finite field with p elements. We show that the theory of K is undecidable and discuss how this can be generalized to the perfect closure of global fields of positive characteristic. (Received January 05, 2017)