



All papers ▾

Go!

Mathematics > Number Theory

Representation of powers by polynomials over function fields and a problem of Logic

Hector Pasten

(Submitted on 20 Jul 2011)

We solve a generalization of Błuchi's problem in any exponent for function fields, and briefly discuss some consequences on undecidability. This provides the first example where this problem is solved for rings of functions in the case of an exponent larger than 3.

Subjects: **Number Theory (math.NT)**

MSC classes: 11R58, 11U05

Cite as: **arXiv:1107.4019 [math.NT]**

(or **arXiv:1107.4019v1 [math.NT]** for this version)

Submission history

From: Hector Pasten [[view email](#)]

[v1] Wed, 20 Jul 2011 16:06:45 GMT (14kb)

[Which authors of this paper are endorsers?](#)

Download:

- [PDF](#)
- [PostScript](#)
- [Other formats](#)

Current browse context:

math.NT

[< prev](#) | [next >](#)

[new](#) | [recent](#) | [1107](#)

Change to browse by:

[math](#)

References & Citations

- [NASA ADS](#)

Bookmark([what is this?](#))

