

**Karpenkov, Oleg**

**Three examples of three-dimensional continued fractions in the sense of Klein.** (English)

Zbl 1102.11007

C. R., Math., Acad. Sci. Paris 343, No. 1, 5-7 (2006).

Author's abstract: The problem of the investigation of the simplest  $n$ -dimensional continued fraction in the sense of Klein for  $n \geq 2$  was posed by V. Arnold. The answer for the case in which  $n = 2$  can be found in the works of *E. I. Korkina* [Tr. Mat. Inst. Steklova 209, 143–166 (1995; Zbl 0883.11034)] and *G. Lachaud* ["Voiles et polyèdres de Klein", Preprint 95–22, Lab. Math. Discrètes, CNRS, Marseille (1995)]. In this paper we study the case in which  $n = 3$ .

Reviewer: [Thomas Schmidt \(Corvallis\)](#)

**MSC:**

[11A55](#) Continued fractions

[11J70](#) Continued fractions and generalizations

Cited in **2** Documents

**Keywords:**

[continued fractions](#); [sails](#)

**Full Text:** [DOI](#) [arXiv](#)

**References:**

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- [2] Karpenkov, O.N., On tori decompositions associated with two-dimensional continued fractions of cubic irrationalities, *Funct. anal. appl.*, 38, 2, 28-37, (2004) · [Zbl 1125.11042](#)
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