

This is a review text file submitted electronically to MR.

**Reviewer:** Znojil, Miloslav

**Reviewer number:**

**Address:**

NPI AS CR  
250 68 Rez,  
Czech Republic  
znojil@ujf.cas.cz

**Author:** This line will be completed by the MR staff.

**Short title:** This line will be completed by the MR staff.

**Control number:** 2044762

**Primary classification:** 15A99

**Secondary classification(s):** 40A15

**Review text:**

The elementary iterative-recipe character of continued fractions makes them more than just an analytic concept or a numerical tool - they pose a challenge for generalizations. With matrix continued fractions being the best known example of such a generalization, a doubly challenging task is a vectorial generalization. One of possibilities is proposed by the authors. Their important inspiration may be traced to the transition from real numbers to complex domain, and their strong point may be found in analogies. They succeeded in finding them in the domain of polynomial-type functions of a vector or recurrences and Christoffel-Darbox-type identities. Interesting observations are made about convergence. Via a few numerical examples, new questions (concerning, e.g., quadrature formulae) are shown to emerge.