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**A. Bourla\***, American University, Washington, DC 20016. *Diophantine Approximation on Continued Fraction-like Expansions.*

We establish arithmetic and geometric properties for bi-sequences of approximation coefficients associated with the natural extension of maps, leading to continued fraction-like expansions. These maps are realized as the fractional part of Möbius transformations which carry the end points of the unit interval to zero and infinity. Results will also apply to the classical regular and backwards continued fractions expansions, which are realized as special cases. These include a formula for the recovery of the entire bi-sequence from a pair of consecutive terms. (Received January 23, 2014)