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Sneha Chaubey, Elena Fuchs, Robert Hines and Katherine E Stange*

(kstange@math.colorado.edu). *The dynamics of Apollonian circle packings*. Preliminary report.

Reduction to the root quadruple of an Apollonian circle packing can be considered a piece of Asmus Schmidt's continued fraction algorithm for Gaussian integers. We study the dynamics of this process, in analogy to the dynamical system $T : [0, 1] \rightarrow [0, 1]$ given by $x \mapsto \{1/x\}$ related to classical continued fractions. (Received September 15, 2015)