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12211. *Dynamics of semigroup actions of linear fractional transformations.*

Positive continued fractions are viewed as the orbit of 1 under the action of the semigroup of functions generated by $r(x)=1/x$ and $s(x)=x+1$. The fixed points of the elements of this semigroup contain purely periodic continued fractions (which are the reduced surds by Lagrange's theorem). In this talk, we consider the fixed points of the elements of semigroups generated by general pairs of linear fractional transformations. We discuss how the topological transitivity of a non-commutative semigroup action implies the denseness of its fixed point set. (Received August 11, 2014)