

1040-37-94

Volodymyr Nekrashevych* (nekrash@math.tamu.edu), Department of Mathematics, Texas A&M University, College Station, TX 77843-3368. *Worked out examples of post-critically finite functions of two variables.*

We will describe explicit combinatorial models of Julia sets of some post-critically finite rational mappings of the 2-dimensional projective complex plane. The models involve finite complexes, which are analogs of Hubbard trees. In particular, we will give a description of the Julia set of the map $f(z, p) = \left(\left(1 - \frac{2z}{p}\right)^2, \left(1 - \frac{2}{p}\right)^2 \right)$, which was studied by J. E. Fornæss and N. Sibony. (Received January 27, 2008)