1038-37-290 Walter Parry* (walter.parry@emich.edu), Department of Mathematics, Eastern Michigan University, Ypsilanti, MI 48197. Lattès Maps and Finite Subdivision Rules. Preliminary report. The following results will be discussed. Virtually every analytic conjugacy class of Lattès maps has the following property. Every function $f: \widehat{\mathbf{C}} \to \widehat{\mathbf{C}}$ in the conjugacy class is the subdivision map of a finite subdivision rule with one tile type. The universal covering orbifold of f is \mathbf{C} . The tiling of the Riemann sphere $\widehat{\mathbf{C}}$ by the one tile lifts to a tiling of \mathbf{C} which is combinatorially equivalent to the standard tiling of the plane by regular hexagons except that barycenters are inserted in some edges. On the other hand, there exists a Lattès map which is not the subdivision map of a finite subdivision rule with one tile type, nor is it the subdivision map of a finite subdivision rule with two tile types and 1-skeleton in $\widehat{\mathbf{C}}$ a simple closed curve. (Received February 12, 2008)