

We prove the following

Theorem. *Let \mathcal{R} be an o-minimal expansion of a real closed field R . Let $f : R^2 \rightarrow R^2$ be a \mathcal{R} -definable function such that the reduct $\mathbb{C}_f := (R^2, +, f)$ is strongly minimal and not locally modular. There exists $A \in \text{GL}_2(\mathbb{R})$ such that $\mathbb{C}_{A \circ f \circ A}$ is interdefinable with $(R(\sqrt{-1}), +, \cdot)$. In particular, up to conjugation by a real matrix, f is a constructible function.*

Joint work with P. Kowalski.