

Bifurcation values of algebraic mappings and its applications

Luis Renato G. Dias¹

¹ Universidade Federal de Uberlândia

Let $f : R^n \rightarrow R^p$ be an algebraic mapping $n \geq p$. The bifurcation set of f , denoted by $B(f)$, is the smallest set such that $f : R^n \setminus f^{-1}(B(f)) \rightarrow R^p \setminus B(f)$ is a locally trivial fibration. Finding an effective description of the set $B(f)$ is still an open question. In this talk we present an effective algorithm to describe an approximation to $B(f)$ and its applications.