

Orbits and trajectories in dimension two

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We describe some dynamical system in dimension two under some eigenvalues conditions on either a vector field or a diffeomorphism. In both cases we consider the existence of at least a singular orbit. The global injectivity plays an important role in the results. Let me say that the results are influenced by the papers of Carlos Gutiérrez (1944-2008) and collaborators.

In Special Session 8 on Global Injectivity, Jacobian Conjecture and Related Topics at the Mathematical Congress of the Americas 2025.