

Bifurcation of a boundary hyperbolic singularity in $\mathbb{R}^3$

Kamila da Silva Andrade

kamila.andrade@ufg.br

Universidade Federal de Goiás, Brazil

In this work, we consider a two-parameter family of piecewise smooth vector fields in $\mathbb{R}^3$ that perturbs a linear-regular piecewise smooth vector field with a hyperbolic boundary singularity. More specifically, we demonstrate that for small parameter values, a sliding Shilnikov connection curve emerges on the bifurcation diagram of this family.
