

Texas Tech University. Applied Mathematics Seminar.

A Simple Proof of the Hartman-Grobman Theorem

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ABSTRACT. Hartman-Grobman Theorem states that a differential equation $du/dt = f(u)$ can be changed into a linear system in a neighborhood of a hyperbolic equilibrium point by applying a nonlinear coordinate change. In this talk, we will give a simple proof of the Hartman-Grobman theorem.