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Investigation of Global Bifurcations in Planar Vector Fields

For small values of δ , the perturbation theory for planar vector fields gives criteria for the existence of periodic orbits and simple bifurcations of the system (2) in terms of integrals over domains bounded by the level curves of (3) [1].

On a four parameter family of planar vector fields

between Hilbert's 16th problem and bifurcations of planar vector fields is discussed. The material is presented in eight sections. Section 1: Introduction: what is Hilbert's 16th problem? Section 2: The first

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HILBERT'S 16TH PROBLEM AND BIFURCATIONS OF PLANAR

bifurcations of vector fields 3 $\{(p_1, p_2, p_3, p_4)\}$ of parameters into components of different behaviour of the system (3): 11 components in [21] and 12 components in [25] and

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