

# On the Number of Limit Cycles in Perturbations of Quadratic Hamiltonian Systems<sup>1</sup>

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## ABSTRACT

We prove that in quadratic perturbations of generic quadratic Hamiltonian vector fields with three saddle points and one centre there can appear at most two limit cycles. This bound is exact.

## 0. Introduction

The problem we solve in this paper belongs to a circle of problems arising in attempts to find an answer to the celebrated Hilbert 16-th problem (or – more precisely – to its second part) [9]. To place adequately our main result we briefly review some of the classical and recent developments in this subject.

The second part of Hilbert 16-th problem asks about "the maximum number and the positions of the limit cycles of Poincaré" for polynomial vector fields

$$(0.1) \quad \begin{aligned} \dot{x} &= X(x, y) \\ \dot{y} &= Y(x, y). \end{aligned}$$

Stated in such a form this problem obviously needs splitting into a series of concrete questions. Generally recognized as the most fundamental is the following:

- 1) *Find ( explicitly ) an upper bound  $C(n)$  for the number of the limit cycles of all polynomial vector fields (0.1) of degree  $n$  or less.*

In problem 1) it is assumed that

- 2) *The number of the limit cycles of any individual vector field (0.1) is finite.*

In fact 2) was believed for many years to have been proved by Dulac [4]. About ten years ago it was found that [4] contains a gap. The complete proof (which is rather a theory than a plain solution to 2) ) was achieved by Yu. Ilyashenko and J. Ecalle and substantial parts of it were published in [5], [11].

Until now problem 1) is not solved even for  $n = 2$ . V. I. Arnold [1] proposed a weaker version of this problem connected explicitly with the first, algebraic-geometric part of Hilbert 16-th problem. To state Hilbert - Arnold's problem

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