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Title: Hilbert's 16-th Problem

Authors: P S, Abhay

Keywords: algebraic

Isotopy

per- turbation

Topological classification

Issue Jun-2020

Date:

Publisher: IISERM

Abstract: Real projective plane algebraic curves and their classification problems are introduced. Topological classification problem and its solution is discussed. Isotopy

classification prob- lem is discussed and the isotopy classification of curves upto degree 5 is looked upon. Isotopy types of curves upto degree 5 are

constructed using marking method or small per- $\mbox{\it turbation}$ method.

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