

Trends in Singularities

The collection of papers in this volume represents recent advances in the understanding of the geometry and topology of singularities. The book covers a broad range of topics which are in the focus of contemporary singularity theory. Its idea emerged during two Singularities workshops held at the University of Lille (USTL) in 1999 and 2000. Due to the breadth of singularity theory, a single volume can hardly give the complete picture of today's progress. Nevertheless, this collection of papers provides a good snapshot of what is the state of affairs in the field, at the turn of the century. Several papers deal with global aspects of singularity theory. Classification of families of plane curves with prescribed singularities were among the first problems in algebraic geometry. Classification of plane cubics was known to Newton and classification of quartics was achieved by Klein at the end of the 19th century. The problem of classification of curves of higher degrees was addressed in numerous works after that. In the paper by Artal, Carmona and Cogolludo, the authors describe irreducible sextic curves having a singular point of type A_n ($n > 15$) and a large (Le., 18) sum of Milnor numbers of other singularities. They have discovered many interesting properties of these families. In particular they have found new examples of so-called Zariski pairs, i. e.

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53,49 €

49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783034894616

Medium: Buch

ISBN: 978-3-0348-9461-6

Verlag: Birkhäuser Basel

Erscheinungstermin: 29.10.2012

Sprache(n): Englisch

Auflage: Softcover Nachdruck of the original 1. Auflage 2002

Serie: Trends in Mathematics

Produktform: Kartoniert

Gewicht: 400 g

Seiten: 246

Format (B x H): 155 x 235 mm

