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Nota di contenuto	Preface; Dedication; Bibliography of Masayoshi Miyanishi; CONTENTS; Acyclic curves and group actions on affine toric surfaces; Introduction; 1. Preliminaries; 1.1. Simply connected plane affine curves; 1.2. The automorphism group of the affine plane; 2. Subgroups of de Jonquieres group and stabilizers of plane curves; 2.1. Subgroups of the de Jonquieres group; 2.2. Stabilizers of acyclic plane curves; 3. Acyclic curves on affine toric surfaces; 3.1. Acyclic curves in the smooth locus; 3.2. Acyclic curves through the singular point; 3.3. Acyclic curves as orbit closures 3.4. Reducible acyclic curves on affine toric surfaces 4. Automorphism groups of affine toric surfaces; 4.1. Free amalgamated product structure; 4.2. Algebraic groups actions on affine toric surfaces; 5. Acyclic curves and automorphism groups of non-toric quotient surfaces; References; Hirzebruch surfaces and compactifications of C^2 ; 1. Introduction; 2. A proof of Theorem 1.2; 3. A proof of Theorem 1.3; 4. Abhyankar-Moh-Suzuki's theorem; References; Cyclic multiple planes, branched covers of S_n and a result of D. L. Goldsmith; 1. Introduction; 2. Preliminaries; 3. Proof of the Theorem

4. Branched covers of S_n . Goldsmith's result; References; A_1^* -fibrations on affine threefolds; Introduction; 1. Preliminaries; 2. A_1^* -fibration; 3. Homology threefolds with A_1^* -fibrations; 4. Contractible affine threefolds with A_1^* -fibrations; References; Acknowledgements; Miyanishi's characterization of singularities appearing on A_1^* -fibrations does not hold in higher dimensions; 1. Introduction; 2. Preliminaries; 3. Proof of Theorem 1.2; 3.1.; 3.2.; 3.2.1.; 3.3.; 3.4.; 3.5.; 3.5.1.; 3.5.2.; 3.6.; 3.6.1.; 3.6.2.; Acknowledgements; References

A Galois counterexample to Hilbert's Fourteenth Problem in dimension three with rational coefficients. 1. Introduction; 2. Invariant field; 3. Kuroda's construction; 4. Proof of Theorem 1.2; Acknowledgments; References; Open algebraic surfaces of logarithmic Kodaira dimension one; 0. Introduction; 1. Preliminary results; 2. Structure of open algebraic surfaces of $\kappa = 1$; 3. Logarithmic plurigenera of normal affine surfaces of $\kappa = 1$; Acknowledgements; References; Some properties of C^* in C^2 ; 0. Introduction; 1. Preliminaries; 2. Basic inequality

3. Separation of branches I: The branches are tangent at infinity

4. Separation of branches II: The branches separate on the first blowing up; References; Acknowledgements; Abhyankar-Sathaye Embedding Conjecture for a geometric case; 1. Introduction; 2. Preliminaries; 3. Proof of Theorem 1.1; Acknowledgments; References; Some subgroups of the Cremona groups; 1. Introduction; 2. Flattening, linearizability, tori; 3. Subgroups of the rational de Jonquieres groups; 4. Affine subspaces as cross-sections; References; The gonality of singular plane curves II; 1. Introduction; 2. Preliminaries

3. Proof of Theorem 1

Sommario/riassunto

The present volume grew out of an international conference on affine algebraic geometry held in Osaka, Japan during 3-6 March 2011 and is dedicated to Professor Masayoshi Miyanishi on the occasion of his 70th birthday. It contains 16 refereed articles in the areas of affine algebraic geometry, commutative algebra and related fields, which have been the working fields of Professor Miyanishi for almost 50 years. Readers will be able to find recent trends in these areas too. The topics contain both algebraic and analytic, as well as both affine and projective, problems. All the results treated in
