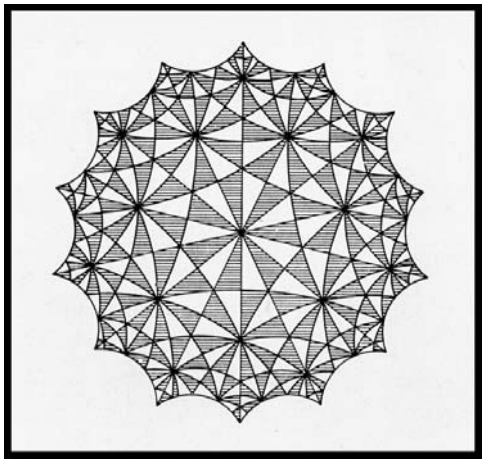


# Revista Matemática Iberoamericana

**Volumen 19, Número 2, Año 2003**

Actas de la Conferencia Internacional de
Geometría Algebraica y Singularidades
(Sevilla, septiembre de 2001)



## DIRECTORES

Antonio Córdoba Barba — José Luis Fernández Pérez

## COMITÉ EDITORIAL

Antonio Ambrosetti
Walter L. Baily, Jr.
Pilar Bayer
Luis A. Caffarelli
Fernando Chamizo
Charles Fefferman
Henryk Iwaniec
Joseph J. Kohn
Pierre-Louis Lions
Juan José López Velázquez
Terence J. Lyons
Jerrold E. Marsden
Yves Meyer
José M. Montesinos
David Nualart Rodón
Mauricio M. Peixoto
Ricardo Pérez Marco
Enrique Ramírez de Arellano
Antonio Ros
Elias M. Stein

Volumen 19, número 2, año 2003

## Contenido

S. S. Abhyankar: Galois theory of special trinomials . . . . . 265

E. Briales, A. Campillo, P. Pisón and A. Vigneron: Minimal Resolutions of Lattice Ideals and Integer Linear Programming . . . . . 287

E. Casas-Alvero and R. Peraire: Perturbing plane curve singularities . . . . . 307

E. Díaz, R. Fernández-Mateos, D. Fernández-Ternero and J. Núñez: Graphs associated with nilpotent Lie algebras of maximal rank . . . . . 325

S. Encinas and O. Villamayor: A new Proof of Desingularization over fields of characteristic zero . . . . . 339

M. Fernández Lebrón and L. Narváez Macarro: Conservation of the noetherianity by perfect transcendental field extensions . . 355

N. Franco and J. González-Meneses: Computation of Centralizers in Braid groups and Garside Groups . . . . . 367

S. González and C. Martínez: Nonassociative Algebras: Some Applications . . . . . 385

A. Granja and C. Rodríguez: Proximity relations for real rank one valuations dominating a local regular ring . . . . . 393

G.-M. Greuel: A Computer Algebra Solution to a Problem in Finite Groups . . . . . 413

F. Gudiel Rodríguez and L. Narváez Macarro: Explicit models for perverse sheaves . . . . . 425

M. I. Hartillo Hermoso: Slopes of hypergeometric systems of codimension one . . . . . 455

F.J. Herrera Govantes, M.Á. Olalla Acosta and J.L. Vicente Córdoba: Valuations in fields of power series . . . . . 467

K. Kiyek and J. Stückrad: Integral Closure of Monomial Ideals on Regular Sequences . . . . . 483

O. A. Laudal: Noncommutative algebraic geometry . . . . . 509

M. Lejeune-Jalabert and A. J. Reguera: The Denef-Loeser series for toric surface singularities . . . . . 581

B. Martin: Modular Deformations and Space Curve Singularities . . 613

Z. Mebkhout: La théorie des équations différentielles $p$–adiques et le Théorème de la monodromie $p$–adique . . . . . 623

T. Moh: An Application of Algebraic Geometry to Encryption: Tame Transformation Method . . . . . 667

A. Todorov: Local and Global Theory of the Moduli of Polarized Calabi-Yau Manifolds . . . . . 687

J. M. Tornero: Some geometric aspects of Puiseux surfaces . . . . . 731

C. T. C. Wall: Chains on the Eggers tree and polar curves . . . . . 745