

## CONTENTS

Enrique ARTAL BARTOLO, Jorge CARMONA RUBER, José Ignacio COGOLLUDO AGUSTÍN and Miguel Ángel MARCO BUZUNÁRIZ — Invariants of combinatorial line arrangements and Rybnikov's example	1
Alexei DAVYDOV — On time averaged optimization of dynamic inequalities on a circle	35
László M. FEHÉR and Richárd RIMÁNYI — Thom polynomial computing strategies. A survey	45
Victor GORYUNOV and Show Han MAN — The complex crystallographic groups and symmetries of $J_{10}$	55
Claus HERTLING — $tt^*$ geometry and mixed Hodge structures	73
Maxim KAZARIAN — Thom polynomials	85
Krzysztof KURDYKA and Adam PARUSIŃSKI — Quasi-convex decomposition in o-minimal structures. Application to the gradient conjecture	137
Anatoly LIBGOBER — Homotopy groups of complements to ample divisors	179
Daniel MATEI — Massey products of complex hypersurface complements	205
Vladimir S. MATVEEV — On degree of mobility for complete metrics	221
Piotr MORMUL — Valuations, and moduli of Goursat distributions	251
Claudio MUROLO and David TROTMAN — Semidifférentiabilité et version lisse de la conjecture de fibration de Whitney	271
Juan J. NUÑO-BALLESTEROS — Submanifolds with a non-degenerate parallel normal vector field in euclidean spaces	311
Yacoub OULD MOHAMED ABDERRAHMANE — Weighted homogeneous polynomials and blow-analytic equivalence	333
Adam PARUSIŃSKI — Characteristic classes of singular varieties	347
Grigory M. POLOTOVSKIY — On the classification of 7th degree real decomposable curves	369

Marcelo José SAIA and Liane Mendes FEITOSA SOARES — $\mathcal{A}$ -topological triviality of map germs and Newton filtrations	383
Vyacheslav D. SEDYKH — On the topology of symmetry sets of smooth submanifolds in $\mathbb{R}^k$	401
Maria Aparecida SOARES RUAS and João Nivaldo TOMAZELLA — An infinitesimal criterion for topological triviality of families of sections of analytic varieties	421
Jorge SOTOMAYOR and Ronaldo GARCIA — Lines of principal curvature near singular end points of surfaces in $\mathbb{R}^3$	437
David TROTMAN and Leslie WILSON — ( $r$ ) does not imply ( $n$ ) or ( $npf$ ) for definable sets in non polynomially bounded o-minimal structures	463
Michel VAQUIÉ — Valuations and local uniformization	477
Willem VEYS — Arc spaces, motivic integration and stringy invariants	529
Yuichi YAMADA — Finite Dehn surgery along A'Campo's divide knots	573