

CONTENTS

Tadashi ASHIKAGA and Ken-Ichi YOSHIKAWA — A divisor on the moduli space of curves associated to the signature of fibered surfaces (with an appendix by Kazuhiro Konno)	1
Kazuhiro KONNO — Appendix to “A divisor on the moduli space of curves associated to the signature of fibered surfaces” by T. Ashikaga and K.-I. Yoshikawa	35
Taro ASUKE — On the Fatou–Julia decomposition of transversally holomorphic foliations of complex codimension one	39
Jean-Paul BRASSELET — Characteristic classes along the Japanese singularity road	49
Alex DEGTAREV — On irreducible sextics with non-abelian fundamental group	65
Alex DEGTAREV and Mutsuo OKA — A plane sextic with finite fundamental group	93
Christophe EYRAL and Mutsuo OKA — A proof of a conjecture of Degtyarev on non-torus plane sextics	109
Gerard GONZALEZ-SPRINBERG — On Nash blow-up of orbifolds	133
Keizo HASEGAWA — Complex and Kähler structures on compact homogeneous manifolds—their existence, classification and moduli problem	151
Hirotaika ISHIDA and Hiro-o TOKUNAGA — Triple covers of algebraic surfaces and a generalization of Zariski’s example	169
Shihoko ISHII — Smoothness and jet schemes	187
Masaharu ISHIKAWA — On the contact structure of a class of real analytic germs of the form $f\bar{g}$	201
Mutsuo OKA — Topology of abelian pencils of curves	225
Oswald RIEMENSCHNEIDER — Simple analytic proofs of some versions of the abstract Prime Number Theorem	249
Ichiro SHIMADA — Non-homeomorphic conjugate complex varieties	285
Mamuka SHUBLADZE — On the middle Betti number of certain singularities with critical locus a hyperplane	303

Tatsuo SUWA — Čech–Dolbeault cohomology and the $\bar{\partial}$ -Thom class	321
Shinichi TAJIMA, Yayoi NAKAMURA and Katsusuke NABESHIMA — Standard bases and algebraic local cohomology for zero dimensional ideals	341
Shoji YOKURA — A universal bivariant theory and cobordism groups	363