

CONTENTS

I. Expository Articles

Sérgio R. FENLEY — Asymptotic geometry of foliations and pseudo-Anosov flows — a survey	1
Kiyoshi IGUSA — Pontrjagin classes and higher torsion of sphere bundles	21
Teruaki KITANO and Takayuki MORIFUJI — L^2 -torsion invariants and the Magnus representation of the mapping class group	31
Hông-Vân LÊ and Kaoru ONO — Parameterized Gromov-Witten invariants and topology of symplectomorphism groups	51
Robert C. PENNER — Mapping class actions on surface group completions	77
Takuya SAKASAI — Johnson's homomorphisms and the rational cohomology of subgroups of the mapping class group	93

II. Research Articles

Toshiyuki AKITA — On mod p Riemann-Roch formulae for mapping class groups	111
Joan S. BIRMAN, Tara E. BRENDLE and Nathan BROADDUS — Calculating the image of the second Johnson-Morita representation	119
Joan S. BIRMAN, Dennis JOHNSON and Andrew PUTMAN — Symplectic Heegaard splittings and linked abelian groups	135
Dmitri BURAGO, Sergei IVANOV and Leonid POLTEROVICH — Conjugation-invariant norms on groups of geometric origin	221
Hisaaki ENDO — A generalization of Chakiris' fibrations	251
Koji FUJIWARA — Subgroups generated by two pseudo-Anosov elements in a mapping class group. I. Uniform exponential growth	283
Kiyonori GOMI — Differential characters and the Steenrod squares	297
Richard HAIN — Relative weight filtrations on completions of mapping class groups	309
Yasushi KASAHARA — Remarks on the faithfulness of the Jones representations	369