

# Contents

<b>Tits Alternatives for Graph Products</b> .....	1
Yago Antolín	
<b>Asymptotic Approximations of Finitely Generated Groups</b> .....	7
Goul'nara Arzhantseva	
<b>An Efficient Algorithm for Finding a Basis of the Fixed Point Subgroup of an Automorphism of a Free Group</b> .....	17
Oleg Bogopolski and Olga Maslakova	
<b>Metric Properties and Distortion in Nilpotent Groups</b> .....	25
José Burillo and Eric López Platón	
<b>Coset Intersection Graphs, and Transversals as Generating Sets for Finitely Generated Groups</b> .....	29
Jack Button, Maurice Chiodo, and Mariano Zeron-Medina Laris	
<b>Whitehead Problems for Words in <math>\mathbb{Z}^m \times F_n</math></b> .....	35
Jordi Delgado	
<b>Hausdorff Dimension and the Abelian Group Structure of Some Groups Acting on the <math>p</math>-Adic Tree</b> .....	39
Gustavo A. Fernández-Alcober, Olivier Siegenthaler, and Amaia Zugadi-Reizabal	
<b>Thompson's Group <math>T</math>, Undistorted Free Groups and Automorphisms of the Flip Graph</b> .....	45
Ariadna Fossas	
<b>Geometric Techniques in Braid Groups</b> .....	51
Juan González-Meneses	
<b>Induced Automorphisms</b> .....	57
Vincent Guirardel and Gilbert Levitt	

<b>Dual Automorphisms of Free Groups</b> .....	59
Fedaa Ibrahim and Martin Lustig	
<b>Effective Algebraic Detection of the Nielsen–Thurston Classification of Mapping Classes</b> .....	63
Thomas Koberda and Johanna Mangahas	
<b>Tree-Irreducible Automorphisms of Free Groups</b> .....	67
Martin Lustig	
<b>Presentations for the Mapping Class Groups of Nonorientable Surfaces...</b>	73
Luis Paris	
<b>Ideal Whitehead Graphs in <math>\text{Out}(F_r)</math></b> .....	77
Catherine Pfaff	
<b>Reflections on Computer Experiments with Automorphisms of Free Groups</b> .....	83
Paul Schupp	
<b>Orbit Decidability, Applications and Variations</b> .....	91
Enric Ventura	

Extended Abstracts Fall 2012

Automorphisms of Free Groups

Gonzalez-Meneses, J.; Lustig, M.; Ventura, E. (Eds.)

2014, X, 95 p. 6 illus., Softcover

ISBN: 978-3-319-05487-2

A product of Birkhäuser Basel