

CONTENTS

Preface	v
Organizing Committees	vii
Ford domain of a certain hyperbolic 3-manifold whose boundary consists of a pair of once-punctured tori <i>H. Akiyoshi</i>	1
Cohomology for self-distributivity in coalgebras <i>J. S. Carter and M. Saito</i>	9
Toward an equivariant Khovanov homology <i>N. Chbili</i>	19
Milnor numbers and the self delta classification of 2-string links <i>T. Fleming and A. Yasuhara</i>	27
Some estimates of the Morse-Novikov numbers for knots and links <i>H. Goda</i>	35
Obtaining string-minimizing, length-minimizing braid words for 2-bridge links <i>M. Hirasawa</i>	43
Smoothing resolution for the Alexander–Conway polynomial <i>A. Ishii</i>	51
Quandle cocycle invariants of torus links <i>M. Iwakiri</i>	57

Prime knots with arc index up to 10	65
<i>G. T. Jin, H. Kim, G.-S. Lee, J. H. Gong, H. Kim, H. Kim and S. A. Oh</i>	
p -adic framed braids and p -adic Markov traces	75
<i>J. Juyumaya and S. Lambropoulou</i>	
Reidemeister torsion and Seifert surgeries on knots in homology 3-spheres	85
<i>T. Kadokami</i>	
Miyazawa polynomials of virtual knots and virtual crossing numbers	93
<i>N. Kamada</i>	
Quandles with good involutions, their homologies and knot invariants	101
<i>S. Kamada</i>	
Finite type invariants of order 4 for 2-component links	109
<i>T. Kanenobu</i>	
The Jones representation of genus 1	117
<i>Y. Kasahara</i>	
Quantum topology and quantum information	123
<i>L. Kauffman</i>	
The L -move and virtual braids	133
<i>L. Kauffman and S. Lambropoulou</i>	
Limits of the HOMFLY polynomials of the figure-eight knot	143
<i>K. Kawagoe</i>	
Conjectures on the braid index and the algebraic crossing number	151
<i>K. Kawamuro</i>	
On the surface-link groups	157
<i>A. Kawauchi</i>	

Enumerating 3-manifolds by a canonical order <i>A. Kawauchi and I. Tayama</i>	165
On the existence of a surjective homomorphism between knot groups <i>T. Kitano and M. Suzuki</i>	173
The volume of a hyperbolic simplex and iterated integrals <i>T. Kohno</i>	179
Invariants of surface links in \mathbb{R}^4 via classical link invariants <i>S. Y. Lee</i>	189
Surgery along Brunnian links and finite type invariants of integral homology spheres <i>J.-B. Meilhan</i>	197
The Yamada polynomial for virtual graphs <i>Y. Miyazawa</i>	205
Arithmetic topology after Hida theory <i>M. Morishita and Y. Terashima</i>	213
Gap of the depths of leaves of foliations <i>H. Murai</i>	223
Complex analytic realization of links <i>W. D. Neumann and A. Pichon</i>	231
Achirality of spatial graphs and the Simon invariant <i>R. Nikkuni</i>	239
The configuration space of a spider <i>J. O'Hara</i>	245
Equivariant quantum invariants of the infinite cyclic covers of knot complements <i>T. Ohtsuki</i>	253

What is a welded link? <i>C. Rourke</i>	263
Higher-order Alexander invariants for homology cobordisms of a surface <i>T. Sakasai</i>	271
Epimorphisms between 2-bridge knot groups from the view point of Markoff maps <i>M. Sakuma</i>	279
Sheet numbers and cocycle invariants of surface-knots <i>S. Satoh</i>	287
An infinite sequence of non-conjugate 4-braids representing the same knot of braid index 4 <i>R. Shinjo</i>	293
On tabulation of mutants <i>A. Stoimenow and T. Tanaka</i>	299
A note on CI-moves <i>K. Tanaka</i>	307
On applications of correction term to lens space <i>M. Tange</i>	315
The Casson–Walker invariant and some strongly periodic link <i>Y. Tsutsumi</i>	323
Free genus one knots with large Haken numbers <i>Y. Tsutsumi</i>	331
Yamada polynomial and Khovanov cohomology <i>V. Vershinin and A. Vesnin</i>	337

A note on limit values of the twisted Alexander invariant associated to knots	347
<i>Y. Yamaguchi</i>	
Overtwisted open books and Stallings twist	355
<i>R. Yamamoto</i>	
3-Manifolds and 4-dimensional surgery	361
<i>M. Yamasaki</i>	
Cell-complexes for t -minimal surface diagrams with 4 triple points	367
<i>T. Yashiro</i>	
An exotic rational surface without 1- or 3-handles	375
<i>K. Yasui</i>	