

Contents

Preface	ix
A Glimpse into Viro’s Work	xi
On the Content of This Volume	xv
Program of the Symposium	xxv
On the Unity of Mathematics	xxix
Exotic Structures on Smooth Four-Manifolds	1
Selman Akbulut	
Rational Linking and Contact Geometry	19
Kenneth Baker and John Etnyre	
Regularity of Plurisubharmonic Upper Envelopes in Big Cohomology Classes	39
Robert Berman and Jean-Pierre Demailly	
Toward a Generalized Shapiro and Shapiro Conjecture	67
Alex Degtyarev	
On the Number of Components of a Complete Intersection of Real Quadrics	81
Alex Degtyarev, Ilia Itenberg, and Viatcheslav Kharlamov	
Rational SFT, Linearized Legendrian Contact Homology, and Lagrangian Floer Cohomology	109
Tobias Ekholm	
Topology of Spaces of S-Immersions	147
Yakov Eliashberg and Nikolai Mishachev	

On Continuity of Quasimorphisms for Symplectic Maps	169
Michael Entov, Leonid Polterovich, Pierre Py, with an Appendix by Michael Khanevsky	
On Symplectic Caps	199
David T. Gay and András I. Stipsicz	
Cauchy–Pompeiu-Type Formulas for $\bar{\partial}$ on Affine Algebraic Riemann Surfaces and Some Applications	213
Gennadi M. Henkin	
Remarks on Khovanov Homology and the Potts Model	237
Louis H. Kauffman	
Algebraic Equations and Convex Bodies	263
Kiumars Kaveh and Askold Khovanskii	
Floer Homology on the Extended Moduli Space	283
Ciprian Manolescu and Christopher Woodward	
Projective Algebraicity of Minimal Compactifications of Complex-Hyperbolic Space Forms of Finite Volume	331
Ngaiming Mok	
Some Examples of Real Algebraic and Real Pseudoholomorphic Curves	355
Stepan Yu. Orevkov	
Schur–Weyl-Type Duality for Quantized $\mathfrak{gl}(1 1)$, the Burau Representation of Braid Groups, and Invariants of Tangled Graphs	389
Nicolai Reshetikhin, Catharina Stroppel, and Ben Webster	
Khovanov Homology Theories and Their Applications	403
Alexander Shumakovitch	
Tropical and Algebraic Curves with Multiple Points	431
Eugenii Shustin	

Perspectives in Analysis, Geometry, and Topology

On the Occasion of the 60th Birthday of Oleg Viro

Itenberg, I.; Jöricke, B.; Passare, M. (Eds.)

2012, XXXI, 464 p., Hardcover

ISBN: 978-0-8176-8276-7

A product of Birkhäuser Basel