

Contents

Preface	
<i>Stuart Margolis, Mark Sapir, Jean-Camille Birget, and John Meakin</i>	vii
Invited Lecturers	ix
Additional Lecturers	x
Syntactic and Global Semigroup Theory: A Synthesis Approach	
<i>Jorge Almeida and Benjamin Steinberg</i>	1
Semigroups with Central Idempotents	
<i>Karl Auinger</i>	25
Algebraic Geometry over Groups	
<i>Gilbert Baumslag, Alexei Myasnikov, and Vladimir Remeslennikov</i>	35
Aspects of the Theory of Free Groups	
<i>Katalin Bencsath, Benjamin Fine, Anthony M. Gaglione, Alexei G. Myasnikov, Frank Roehl, Gerhard Rosenberger, and Dennis Spellman</i>	51
Polynomial Isoperimetric Inequalities for Richard Thompson's Groups	
<i>F, T, and V</i>	
<i>V.S. Guba</i>	91

Ordered Monoids and \mathcal{J} -Trivial Monoids <i>Karsten Henckell and Jean-Eric Pin</i>	121
A Remark on Finitely Generated Subgroups of Free Groups <i>S.V. Ivanov and P.E. Schupp</i>	139
Homotopy Reduction Systems for Monoid Presentations II: The Guba–Sapir Reduction and Homotopy Modules <i>Yuji Kobayashi</i>	143
Algorithmic Problems for Finite Groups and Finite Semigroups <i>S.I. Kublanovskii</i>	161
A Survey on the Computational Power of Some Classes of Finite Monoid Presentations <i>Friedrich Otto</i>	171
Rewriting Systems, Finiteness Conditions, and Associated Functions <i>S.J. Pride and Jing Wang</i>	195
Multiparty Communication Complexity of Finite Monoids <i>Jean-François Raymond, Pascal Tesson, and Denis Thérien</i>	217
Presentations for Monoids, Their Maximal Subgroups, and Schützenberger Groups <i>N. Ruškuc</i>	235
On the Growth of Relatively Free Semigroups <i>L.M. Shneerson</i>	251
When Can One Finite Monoid Simulate Another? <i>Howard Straubing</i>	267
Computing Closures of Finitely Generated Subgroups of the Free Group <i>Pascal Weil</i>	289