

Contents

Preface	vii
Statistics of the Symmetric Group Representations as a Natural Science Question on Asymptotics of Young Diagrams VLADIMIR ARNOLD	1
Stochastic Dynamics Related to Plancherel Measure on Partitions ALEXEI BORODIN AND GRIGORI OLSHANSKI	9
A Condition for Continuous Spectrum of an Interval Exchange Transformation ALEXANDER BUFETOV, YAKOV G. SINAI, AND CORINNA ULCIGRAI	23
Several Nonstandard Remarks IVAN FESENKO	37
The Interface Between Probability Theory and Additive Number Theory (Local Limit Theorems and Structure Theory of Set Addition) GREGORY A. FREIMAN AND ALEXANDER A. YUDIN	51
Plancherel Measure on Shifted Young Diagrams VLADIMIR IVANOV	73
Results and Problems in Enveloping Algebras Arising from Quantum Groups ANTHONY JOSEPH	87
Asymptotic Behaviour in the Time Synchronization Model VADIM MALYSHEV AND ANATOLI MANITA	101
Stable Densities and Operators of Fractional Differentiation YURI A. NERETIN	117
Skew Products and Livsic Theory WILLIAM PARRY AND MARK POLLICOTT	139
Distribution of Ergodic Sums for Hyperbolic Maps MARK POLLICOTT AND RICHARD SHARP	167
Transverse Properties of Dynamical Systems JEAN RENAULT	185

Minimal One-sided Markov Shifts and Their Cofiltrations BEN-ZION RUBSHTEIN	201
Quotients of $\ell^\infty(\mathbb{Z}, \mathbb{Z})$ and Symbolic Covers of Toral Automorphisms KLAUS SCHMIDT	223