

CONTENTS

Shigeki AIDA — Rough path analysis: An introduction	1
Marc ARNAUDON and Anton THALMAIER — Li-Yau type gradient estimates and Harnack inequalities by stochastic analysis	29
Atsushi ATSUJI — Estimates on the number of the omitted values by meromorphic functions	49
K. David ELWORTHY — Stochastic flows and geometric analysis on path spaces	61
Roland FRIEDRICH — The global geometry of stochastic Loewner evolutions	79
Ryoki FUKUSHIMA, Atsushi TANIDA and Kouji YANO — Non-Markov property of certain eigenvalue processes analogous to Dyson's model	119
Keisuke HARA — Rough path conditions for smooth paths	129
Tae HATTORI and Atsushi KASUE — Functions of finite Dirichlet sums and compactifications of infinite graphs	141
Yuzuru INAHAMA — A note on rough differential equations with unbounded coefficients	155
Hiroyasu IZEKI — A fixed-point property of finitely generated groups and an energy of equivariant maps	171
Nicolas JUILLET — On a method to disprove generalized Brunn-Minkowski inequalities	189
Vadim A. KAIMANOVICH and Florian SOBIECZKY — Stochastic homogenization of horospheric tree products	199
Naotaka KAJINO — Remarks on non-diagonality conditions for Sierpinski carpets	231
Tsuyoshi KATO — Pattern formation from projectively dynamical systems and iterations by families of maps	243
Takefumi KONDO — Fixed-point theorems for random groups	263
Kazumasa KUWADA — Couplings of the Brownian motion via discrete approximation under lower Ricci curvature bounds	273

Kazuhiro KUWAE and Takashi SHIOYA — Infinitesimal Bishop-Gromov condition for Alexandrov spaces	293
Hiroshi MATSUZOE — Statistical manifolds and affine differential geometry	303
Shin-ichi OHTA — Optimal transport and Ricci curvature in Finsler geometry	323
Yann OLLIVIER — A survey of Ricci curvature for metric spaces and Markov chains	343
Vladimir PESTOV — Concentration of measure and whirly actions of Polish groups	383
Laurent SALOFF-COSTE — The heat kernel and its estimates	405
Ichiro SHIGEKAWA — Non-symmetric diffusions on a Riemannian manifold	437
Asuka TAKATSU — On Wasserstein geometry of Gaussian measures	463
Sumio WATANABE — A limit theorem in singular regression problem	473
Kouji YANO — Two kinds of conditionings for stable Lévy processes	493
Takumi YOKOTA — A gap theorem for ancient solutions to the Ricci flow	505