

## CONTENTS

Preface	v
Participants	vii
Stochastic parallel transport on the $d$ -dimensional torus <i>Ana Bela Cruzeiro and Paul Malliavin</i>	1
Riemannian geometry of $\text{Diff}(S^1)/S^1$ revisited <i>Maria Gordina</i>	19
Ergodic theory of SDE's with degenerate noise <i>Antti Kupiainen</i>	30
Dynkin's isomorphism without symmetry <i>Yves Le Jan</i>	43
Large deviations for the two-dimensional Yang-Mills measure <i>Thierry Lévy</i>	54
Laplace operator in networks of thin fibers: Spectrum near the threshold <i>S. Molchanov and B. Vainberg</i>	69
Adiabatic limits and quantum decoherence <i>Rolando Rebolledo and Dominique Spehner</i>	94
Gauge theory in two dimensions: Topological, geometric and probabilistic aspects <i>Ambar N. Sengupta</i>	109

Near extinction of solution caused by strong absorption on a  
fine-grained set

130

*V. V. Yurinsky and A. L. Piatnitski*