CONTENTS

Hélène Airault and Paul Malliavin — Backward regularity for some infinite dimensional hypoelliptic semi-groups	1
Giuseppe Da Prato and Michael Röckner — Invariant measures for a stochastic porous medium equation	13
K. David Elworthy, Yves Le Jan and Xue-Mei Li — Equivariant diffusions on principal bundles	31
Denis Feyel and Ali Süleyman Üstünel — Monge-Kantorovitch measure transportation, Monge-Ampère equation and the Itô calculus	49
Masatoshi $Fukushima$ — Function spaces and symmetric Markov processes	75
Ronald $Getoor$ — Gauge theorems for Stieltjes exponentials	91
Takeyuki $Hida$ — A frontier of white noise analysis, in line with Itô calculus	111
Masanori Hino — Integral representation of linear functionals on vector lattices and its application to BV functions on Wiener space	121
Chunli Hou and Ioannis Karatzas — Least-squares approxima- tion of random variables by stochastic integrals	141
Nobuyuki Ikeda and Setsuo Taniguchi — Quadratic Wiener func- tionals, Kalman-Bucy filters, and the KdV equation	167
Takashi $Kumagai-Homogenization$ on finitely ramified fractals	189
Hiroshi $Kunita$ — Representation of martingales with jumps and applications to mathematical finance	209
Shigeo Kusuoka — Stochastic Newton equation with reflecting boundary condition	233
Henry P. $McKean$ — Cubic Schrödinger: The petit canonical ensemble	247
Hideo ${\sf Nagai}$ — Risk-sensitive portfolio optimization with full and partial information	257
Jun Sekine — An approximation for exponential hedging	279

Ichiro Shigekawa — Orlicz norm equivalence for the Ornstein-Uhlenbeck operator	301
$\begin{array}{llllllllllllllllllllllllllllllllllll$	319
Masayoshi Takeda and Kaneharu Tsuchida — Criticality of gen- eralized Schrödinger operators and differentiability of spectral functions	333
Jon Warren and Shinzo Watanabe — On spectra of noises associated with Harris flows	351