

CONTENTS OF VOLUME 30

Articles

ALEXOPOULOS, GEORGIOS K. Random walks on discrete groups of polynomial volume growth .....	723–801
ASSELAH, AMINE AND FERRARI, PABLO A. Regularity of quasi-stationary measures for simple exclusion in dimension $d \geq 5$ ...	1913–1932
ATHREYA, K. B. AND DAI, J. J. On the nonuniqueness of the invariant probability for i.i.d. random logistic maps .....	437–442
AY, NIHAT. An information-geometric approach to a theory of pragmatic structuring .....	416–436
BARBOUR, A. D. AND ČEKANA VIČIUS, V. Total variation asymptotics for sums of independent integer random variables .....	509–545
BARBOUR, A. D. AND MÅNSSON, MARIANNE. Compound Poisson process approximation .....	1492–1537
BASS, RICHARD F. AND KUMAGAI, TAKASHI. Laws of the iterated logarithm for the range of random walks in two and three dimensions .....	1369–1396
BAXENDALE, PETER H. AND GOUKASIAN, LEVON. Lyapunov exponents for small random perturbations of Hamiltonian systems .....	101–134
BERCU, BERNARD, GASSIAT, ELISABETH AND RIO, EMMANUEL. Concentration inequalities, large and moderate deviations for self-normalized empirical processes .....	1576–1604
BLOZNELIS, M. AND GÖTZE, F. An Edgeworth expansion for symmetric finite population statistics .....	1238–1265
BORISOV, I. S. AND RUZANKIN, P. S. Poisson approximation for expectations of unbounded functions of independent random variables .....	1657–1680
BOSSY, MIREILLE AND JOURDAIN, BENJAMIN. Rate of convergence of a particle method for the solution of a 1D viscous scalar conservation law in a bounded interval .....	1797–1832
BOVIER, ANTON, KURKOVA, IRINA AND LÖWE, MATTHIAS. Fluctuations of the free energy in the REM and the $p$ -spin SK models .....	605–651
BRAMSON, MAURY, LIGGETT, THOMAS M. AND MOUNTFORD, THOMAS. Characterization of stationary measures for one-dimensional exclusion processes .....	1539–1575
BRAMSON, MAURY AND MOUNTFORD, THOMAS. Stationary blocking measures for one-dimensional nonzero mean exclusion processes .....	1082–1130
BRÉMONT, JULIEN. On some random walks on $\mathbb{Z}$ in random medium .....	1266–1312

BUCKDAHN, RAINER AND MA, JIN. Pathwise stochastic Taylor expansions and stochastic viscosity solutions for fully nonlinear stochastic PDEs .....	1131–1171
CAMPANINO, MASSIMO AND IOFFE, DMITRY. Ornstein–Zernike theory for the Bernoulli bond percolation on $\mathbb{Z}^d$ .....	652–682
ČEKANA VIČIUS, V. AND BARBOUR, A. D. Total variation asymptotics for sums of independent integer random variables .....	509–545
CHEN, ZHEN-QING AND SONG, RENMING. General gauge and conditional gauge theorems .....	1313–1339
DAI, J. J. AND ATHREYA, K. B. On the nonuniqueness of the invariant probability for i.i.d. random logistic maps .....	437–442
DAI PRA, PAOLO, PAGANONI, ANNA MARIA AND POSTA, GUSTAVO. Entropy inequalities for unbounded spin systems .....	1959–1976
DALANG, ROBERT C. AND MOUNTFORD, T. Eccentric behaviors of the Brownian sheet along lines .....	293–322
DALANG, ROBERT C. AND WALSH, JOHN B. Time-reversal in hyperbolic S.P.D.E.’s .....	213–252
DAWSON, DONALD A., ETHERIDGE, ALISON M., FLEISCHMANN, KLAUS, MYTNIK, LEONID, PERKINS, EDWIN A. AND XIONG, JIE. Mutually catalytic branching in the plane: Finite measure states .....	1681–1762
DAWSON, DONALD A., FLEISCHMANN, KLAUS AND MÖRTERS, PETER. Strong clumping of super-Brownian motion in a stable catalytic medium .....	1990–2045
DEACONU, MADALINA, FOURNIER, NICOLAS AND TANRÉ, ETIENNE. A pure jump Markov process associated with Smoluchowski’s coagulation equation .....	1763–1796
DEDECKER, JÉRÔME AND MERLEVÈDE, FLORENCE. Necessary and sufficient conditions for the conditional central limit theorem .....	1044–1081
DONEY, R. A AND MALLER, R. A. Stability of the overshoot for Lévy processes .....	188–212
ENGELBERT, H. J. On uniqueness of solutions to stochastic equations: a counter-example .....	1039–1043
ENGLÄNDER, JÁNOS AND TURAEV, DMITRY. A scaling limit theorem for a class of superdiffusions .....	683–722
ETHERIDGE, ALISON M., FLEISCHMANN, KLAUS, MYTNIK, LEONID, PERKINS, EDWIN A., XIONG, JIE AND DAWSON, DONALD A. Mutually catalytic branching in the plane: Finite measure states .....	1681–1762

- FERRARI, PABLO A. AND ASSELAH, AMINE. Regularity of quasi-stationary measures for simple exclusion in dimension  $d \geq 5$  ... 1913–1932
- FLANDOLI, FRANCO AND RUSSO, FRANCESCO. Generalized integration and stochastic ODEs ..... 270–292
- FLEISCHMANN, KLAUS, MÖRTERS, PETER AND DAWSON, DONALD A. Strong clumping of super-Brownian motion in a stable catalytic medium ..... 1990–2045
- FLEISCHMANN, KLAUS, MYTNIK, LEONID, PERKINS, EDWIN A., XIONG, JIE, DAWSON, DONALD A. AND ETHERIDGE, ALISON M. Mutually catalytic branching in the plane: Finite measure states ..... 1681–1762
- FONTES, L. R. G., ISOPI, M. AND NEWMAN, C. M. Random walks with strongly inhomogeneous rates and singular diffusions: convergence, localization and aging in one dimension ... 579–604
- FOURNIER, NICOLAS. Strict positivity of the density for simple jump processes using the tools of support theorems. Application to the Kac equation without cutoff ..... 135–170
- FOURNIER, NICOLAS, TANRÉ, ETIENNE AND DEACONU, MADALINA. A pure jump Markov process associated with Smoluchowski's coagulation equation ..... 1763–1796
- FUHRMAN, MARCO. Nonlinear Kolmogorov equations in infinite dimensional spaces: the backward stochastic differential equations approach and applications to optimal control ..... 1397–1465
- GASSIAT, ELISABETH, RIO, EMMANUEL AND BERCU, BERNARD. Concentration inequalities, large and moderate deviations for self-normalized empirical processes ..... 1576–1604
- GORDON, YEHOAM, LITVAK, ALEXANDER, SCHÜTT, CARSTEN AND WERNER, ELISABETH. Orlicz norms of sequences of random variables ..... 1833–1853
- GÖTZE, F. AND BLOZNELIS, M. An Edgeworth expansion for symmetric finite population statistics ..... 1238–1265
- GOUKASIAN, LEVON AND BAXENDALE, PETER H. Lyapunov exponents for small random perturbations of Hamiltonian systems 101–134
- GRAF, SIEGFRIED AND LUSCHGY, HARALD. Rates of convergence for the empirical quantization error ..... 874–897
- GRANDITS, PETER AND RHEINLÄNDER, THORSTEN. On the minimal entropy martingale measure ..... 1003–1038
- GRAVNER, JANKO, TRACY, CRAIG A. AND WIDOM, HAROLD. A growth model in a random environment ..... 1340–1368
- GRIFFIN, PHILIP S. AND QAZI, FOZIA S. Limit laws of modulus trimmed sums ..... 1466–1485

HÄGGSTRÖM, OLLE, JONASSON, JOHAN AND LYONS, RUSSELL. Explicit isoperimetric constants and phase transitions in the random-cluster model .....	443–473
HOBSON, DAVID G. AND PEDERSEN, J. L. The minimum maxi- mum of a continuous martingale with given initial and terminal laws .....	978–999
HOUDRÉ, CHRISTIAN. Remarks on deviation inequalities for func- tions of infinitely divisible random vectors .....	1223–1237
IOFFE, DMITRY AND CAMPANINO, MASSIMO. Ornstein–Zernike theory for the Bernoulli bond percolation on $\mathbb{Z}^d$ .....	652–682
ISOPI, M., NEWMAN, C. M. AND FONTES, L. R. G. Random walks with strongly inhomogeneous rates and singular diffu- sions: convergence, localization and aging in one dimension ...	579–604
JIANG, TIEFENG. Maxima of partial sums indexed by geometrical structures .....	1854–1892
JIANG, TIEFENG. A comparison of scores of two protein structures with foldings .....	1893–1912
JONASSON, JOHAN, LYONS, RUSSELL AND HÄGGSTRÖM, OLLE. Explicit isoperimetric constants and phase transitions in the random-cluster model .....	443–473
JOURDAIN, BENJAMIN AND BOSSY, MIREILLE. Rate of conver- gence of a particle method for the solution of a 1D viscous scalar conservation law in a bounded interval .....	1797–1832
KAIMANOVICH, VADIM A. AND WOESS, WOLFGANG. Boundary and entropy of space homogeneous Markov chains .....	323–363
KATORI, MAKOTO, KONNO, NORIO AND TANEMURA, HIDEKI. Limit theorems for the nonattractive Domany–Kinzel model ..	933–947
KHOSHNEVISAN, DAVAR AND XIAO, YIMIN. Level sets of addi- tive Lévy processes .....	62–100
KÖNIG, WOLFGANG AND MÖRTERS, PETER. Brownian intersec- tion local times: Upper tail asymptotics and thick points .....	1605–1656
KONNO, NORIO, TANEMURA, HIDEKI AND KATORI, MAKOTO. Limit theorems for the nonattractive Domany–Kinzel model ..	933–947
KUMAGAI, TAKASHI AND BASS, RICHARD F. Laws of the iterated logarithm for the range of random walks in two and three dimensions .....	1369–1396
KURKOVA, IRINA, LÖWE, MATTHIAS AND BOVIER, ANTON. Fluctuations of the free energy in the REM and the $p$ -spin SK models .....	605–651

LANDIM, C., OLLA, S. AND VARADHAN, S. R. S. Finite-dimensional approximation of the self-diffusion coefficient for the exclusion process .....	483–508
LE JAN, YVES AND RAIMOND, OLIVIER. Integration of Brownian vector fields .....	826–873
LEDOUX, M., LYONS, T. AND QIAN, Z. Lévy area of Wiener processes in Banach spaces .....	546–578
LIGGETT, THOMAS M., MOUNTFORD, THOMAS AND BRAMSON, MAURY. Characterization of stationary measures for one-dimensional exclusion processes .....	1539–1575
LITVAK, ALEXANDER, SCHÜTT, CARSTEN, WERNER, ELISABETH AND GORDON, YEHOAM. Orlicz norms of sequences of random variables .....	1833–1853
LÖWE, MATTHIAS, BOVIER, ANTON AND KURKOVA, IRINA. Fluctuations of the free energy in the REM and the $p$ -spin SK models .....	605–651
LUSCHGY, HARALD AND GRAF, SIEGFRIED. Rates of convergence for the empirical quantization error .....	874–897
LYONS, RUSSELL, HÄGGSTRÖM, OLLE AND JONASSON, JOHAN. Explicit isoperimetric constants and phase transitions in the random-cluster model .....	443–473
LYONS, T., QIAN, Z. AND LEDOUX, M. Lévy area of Wiener processes in Banach spaces .....	546–578
MA, JIN AND BUCKDAHN, RAINER. Pathwise stochastic Taylor expansions and stochastic viscosity solutions for fully nonlinear stochastic PDEs .....	1131–1171
MAES, CHRISTIAN, REDIG, FRANK AND SAADA, ELLEN. The Abelian sandpile model on an infinite tree .....	2081–2107
MALLER, R. A. AND DONEY, R. A. Stability of the overshoot for Lévy processes .....	188–212
MÅNSSON, MARIANNE AND BARBOUR, A. D. Compound Poisson process approximation .....	1492–1537
MATYSIAK, WOJCIECH AND SZABŁOWSKI, PAWEŁ J. A few remarks on Bryc’s paper on random fields with linear regressions .....	1486–1491
MERLEVÈDE, FLORENCE AND DEDECKER, JÉRÔME. Necessary and sufficient conditions for the conditional central limit theorem .....	1044–1081
MÖRTERS, PETER, DAWSON, DONALD A. AND FLEISCHMANN, KLAUS. Strong clumping of super-Brownian motion in a stable catalytic medium .....	1990–2045

MÖRTERS, PETER AND KÖNIG, WOLFGANG. Brownian intersection local times: Upper tail asymptotics and thick points . . . . .	1605–1656
MOUNTFORD, T. AND DALANG, ROBERT C. Eccentric behaviors of the Brownian sheet along lines . . . . .	293–322
MOUNTFORD, THOMAS. A convergence result for critical reversible nearest particle systems . . . . .	1–61
MOUNTFORD, THOMAS AND BRAMSON, MAURY. Stationary blocking measures for one-dimensional nonzero mean exclusion processes . . . . .	1082–1130
MOUNTFORD, THOMAS, BRAMSON, MAURY AND LIGGETT, THOMAS M. Characterization of stationary measures for one-dimensional exclusion processes . . . . .	1539–1575
MYTNIK, LEONID, PERKINS, EDWIN A., XIONG, JIE, DAWSON, DONALD A., ETHERIDGE, ALISON M. AND FLEISCHMANN, KLAUS. Mutually catalytic branching in the plane: Finite measure states . . . . .	1681–1762
NEWMAN, C. M., FONTES, L. R. G. AND ISOPI, M. Random walks with strongly inhomogeneous rates and singular diffusions: convergence, localization and aging in one dimension . . . . .	579–604
OLLA, S., VARADHAN, S. R. S. AND LANDIM, C. Finite-dimensional approximation of the self-diffusion coefficient for the exclusion process . . . . .	483–508
PAGANONI, ANNA MARIA, POSTA, GUSTAVO AND DAI PRA, PAOLO. Entropy inequalities for unbounded spin systems . . . . .	1959–1976
PEDERSEN, J. L. AND HOBSON, DAVID G. The minimum maximum of a continuous martingale with given initial and terminal laws . . . . .	978–999
PERKINS, EDWIN A., XIONG, JIE, DAWSON, DONALD A., ETHERIDGE, ALISON M., FLEISCHMANN, KLAUS AND MYTNIK, LEONID. Mutually catalytic branching in the plane: Finite measure states . . . . .	1681–1762
PIPIRAS, VLADAS AND TAQQU, MURAD S. The structure of self-similar stable mixed moving averages . . . . .	898–932
PITTET, C. AND SALOFF-COSTE, L. On random walks on wreath products . . . . .	948–977
POSTA, GUSTAVO, DAI PRA, PAOLO AND PAGANONI, ANNA MARIA. Entropy inequalities for unbounded spin systems . . . . .	1959–1976
QAZI, FOZIA S. AND GRIFFIN, PHILIP S. Limit laws of modulus trimmed sums . . . . .	1466–1485
QIAN, Z., LEDOUX, M. AND LYONS, T. Lévy area of Wiener processes in Banach spaces . . . . .	546–578

RAIMOND, OLIVIER AND LE JAN, YVES. Integration of Brownian vector fields .....	826–873
REDIG, FRANK, SAADA, ELLEN AND MAES, CHRISTIAN. The Abelian sandpile model on an infinite tree .....	2081–2107
RHEINLÄNDER, THORSTEN AND GRANDITS, PETER. On the minimal entropy martingale measure .....	1003–1038
RIO, EMMANUEL, BERCU, BERNARD AND GASSIAT, ELISABETH. Concentration inequalities, large and moderate deviations for self-normalized empirical processes .....	1576–1604
RUSSO, FRANCESCO AND FLANDOLI, FRANCO. Generalized integration and stochastic ODEs .....	270–292
RUZANKIN, P. S. AND BORISOV, I. S. Poisson approximation for expectations of unbounded functions of independent random variables .....	1657–1680
SAADA, ELLEN, MAES, CHRISTIAN AND REDIG, FRANK. The Abelian sandpile model on an infinite tree .....	2081–2107
SALOFF-COSTE, L. AND PITTET, C. On random walks on wreath products .....	948–977
SCHEUTZOW, MICHAEL AND STEINSALTZ, DAVID. Chasing balls through martingale fields .....	2046–2080
SCHÜTT, CARSTEN, WERNER, ELISABETH, GORDON, YEHOAM AND LITVAK, ALEXANDER. Orlicz norms of sequences of random variables .....	1833–1853
SIMON, THOMAS. Concentration of the Brownian bridge on the hyperbolic plane .....	1977–1989
SIMONS, GORDON, YAO, YI-CHING AND YANG, LIJIAN. Doob, Ignatov and optional skipping .....	1933–1958
SONG, RENMING AND CHEN, ZHEN-QING. General gauge and conditional gauge theorems .....	1313–1339
SOSHNIKOV, ALEXANDER. Gaussian limit for determinantal random point fields .....	171–187
STEINSALTZ, DAVID AND SCHEUTZOW, MICHAEL. Chasing balls through martingale fields .....	2046–2080
STURM, KARL-THEODOR. Nonlinear martingale theory for processes with values in metric spaces of nonpositive curvature	1195–1222
SZABŁOWSKI, PAWEŁ J. AND MATYSIAK, WOJCIECH. A few remarks on Bryc’s paper on random fields with linear regressions .....	1486–1491
TALAGRAND, MICHEL. On the high temperature phase of the Sherrington–Kirkpatrick model .....	364–381

TANEMURA, HIDEKI, KATORI, MAKOTO AND KONNO, NORIO. Limit theorems for the nonattractive Domany–Kinzel model . . .	933–947
TANRÉ, ETIENNE, DEACONU, MADALINA AND FOURNIER, NICOLAS. A pure jump Markov process associated with Smoluchowski’s coagulation equation . . . . .	1763–1796
TAQQU, MURAD S. AND PIPIRAS, VLADAS. The structure of self-similar stable mixed moving averages . . . . .	898–932
TOLMATZ, LEONID. On the distribution of the square integral of the Brownian bridge . . . . .	253–269
TRACY, CRAIG A., WIDOM, HAROLD AND GRAVNER, JANKO. A growth model in a random environment . . . . .	1340–1368
TURAEV, DMITRY AND ENGLÄNDER, JÁNOS. A scaling limit theorem for a class of superdiffusions . . . . .	683–722
VARADHAN, S. R. S., LANDIM, C. AND OLLA, S. Finite-dimensional approximation of the self-diffusion coefficient for the exclusion process . . . . .	483–508
WALSH, JOHN B. AND DALANG, ROBERT C. Time-reversal in hyperbolic S.P.D.E.’s . . . . .	213–252
WERNER, ELISABETH, GORDON, YEHOAM, LITVAK, ALEXANDER AND SCHÜTT, CARSTEN. Orlicz norms of sequences of random variables . . . . .	1833–1853
WIDOM, HAROLD, GRAVNER, JANKO AND TRACY, CRAIG A. A growth model in a random environment . . . . .	1340–1368
WINKEL, MATTHIAS. Right inverses of nonsymmetric Lévy processes . . . . .	382–415
WOESS, WOLFGANG AND KAIMANOVICH, VADIM A. Boundary and entropy of space homogeneous Markov chains . . . . .	323–363
XIAO, YIMIN AND KHOSHNEVISAN, DAVAR. Level sets of additive Lévy processes . . . . .	62–100
XIONG, JIE, DAWSON, DONALD A., ETHERIDGE, ALISON M., FLEISCHMANN, KLAUS, MYTNIK, LEONID AND PERKINS, EDWIN A. Mutually catalytic branching in the plane: Finite measure states . . . . .	1681–1762
YAN, LIQING. The Euler scheme with irregular coefficients . . . . .	1172–1194
YANG, LIJIAN, SIMONS, GORDON AND YAO, YI-CHING. Doob, Ignatov and optional skipping . . . . .	1933–1958
YAO, YI-CHING, YANG, LIJIAN AND SIMONS, GORDON. Doob, Ignatov and optional skipping . . . . .	1933–1958
ZANZOTTO, PIO ANDREA. On stochastic differential equations driven by Cauchy process and the other stable Lévy motions . . .	802–825



**Book Review**

- BELL, DENIS. *Stochastic Analysis* by Paul Mallian ..... 474–479

**Corrections**

- BOUCHER, CHRISTOPHER, ELLIS, RICHARD S. AND TURKINGTON, BRUCE. Spatializing random measures: Doubly indexed processes and the large deviation principle ..... 2113
- ELLIS, RICHARD S., TURKINGTON, BRUCE AND BOUCHER, CHRISTOPHER. Spatializing random measures: Doubly indexed processes and the large deviation principle ..... 2113
- FANNJIANG, ALBERT C. AND KOMOROWSKI, TOMASZ. An invariance principle for diffusion in turbulence ..... 480–482
- KOMOROWSKI, TOMASZ AND FANNJIANG, ALBERT C. An invariance principle for diffusion in turbulence ..... 480–482
- LALLEY, STEVEN P. Growth profile and invariant measures for the weakly supercritical contact process on a homogeneous tree ... 2108–2112
- TURKINGTON, BRUCE, BOUCHER, CHRISTOPHER AND ELLIS, RICHARD S. Spatializing random measures: Doubly indexed processes and the large deviation principle ..... 2113

**Note**

- JANVRESSE, ELISE. Note about “First order correction for the hydrodynamic limit of symmetric simple exclusion processes with speed change in dimension  $d \geq 3$ ” ..... 1000–1001