

# BERNOULLI

*Official Journal of the Bernoulli Society for Mathematical Statistics and Probability*

Volume Twenty Four Number One February 2018 ISSN: 1350-7265

## CONTENTS

LETAC, G. and PICCIONI, M.	1
Dirichlet curves, convex order and Cauchy distribution	
DOMBRY, C. and KABLUCHKO, Z.	30
Random tessellations associated with max-stable random fields	
OVCHAROV, E. Y.	53
Proper scoring rules and Bregman divergence	
WANG, X., HAN, X. and PAN, G.	80
The logarithmic law of sample covariance matrices near singularity	
BUTUCEA, C., DELMAS, J.-F., DUTFOY, A. and FISCHER, R.	115
Maximum entropy distribution of order statistics with given marginals	
BRUGGEMAN, C. and SARANTSEV, A.	156
Multiple collisions in systems of competing Brownian particles	
JIRAK, M.	202
Rate of convergence for Hilbert space valued processes	
DONNET, S., RIVOIRARD, V., ROUSSEAU, J. and SCRICCILOLO, C.	231
Posterior concentration rates for empirical Bayes procedures with applications to Dirichlet process mixtures	
FELDHEIM, N., MARSIGLIETTI, A., NAYAR, P. and WANG, J.	257
A note on the convex infimum convolution inequality	
LEVRARD, C.	271
Sparse oracle inequalities for variable selection via regularized quantization	
MAILLARD, P.	297
The $\lambda$ -invariant measures of subcritical Bienaymé–Galton–Watson processes	
MÖHLE, M.	316
Hitting probabilities for the Greenwood model and relations to near constancy oscillation	
BARDET, J.-B., GOZLAN, N., MALRIEU, F. and ZITT, P.-A.	333
Functional inequalities for Gaussian convolutions of compactly supported measures: Explicit bounds and dimension dependence	
HU, Y., NUALART, D. and ZHANG, T.	354
Large deviations for stochastic heat equation with rough dependence in space	

*(continued on the inside cover)*

The papers published in Bernoulli are indexed or abstracted in *Current Index to Statistics*, *Mathematical Reviews*, *Statistical Theory and Method Abstracts-Zentralblatt (STMA-Z)*, and *Zentralblatt für Mathematik* (also available on the *MATH via STN* database and *Compact MATH CD-ROM*). A list of forthcoming papers can be found online at <http://www.bernoulli-society.org/index.php/publications/bernoulli-journal/bernoulli-journal-papers>