

# THE ANNALS *of* PROBABILITY

AN OFFICIAL JOURNAL OF THE  
INSTITUTE OF MATHEMATICAL STATISTICS

## Articles

- Nucleation and growth for the Ising model in  $d$  dimensions at very low temperatures  
RAPHAËL CERF AND FRANCESCO MANZO 3697
- The precise tail behavior of the total progeny of a killed branching random walk  
ELIE AÏDÉKON, YUEYUN HU AND OLIVIER ZINDY 3786
- Central limit theorems for  $U$ -statistics of Poisson point processes  
MATTHIAS REITZNER AND MATTHIAS SCHULTE 3879
- Biased random walk in positive random conductances on  $\mathbb{Z}^d$  . . . ALEXANDER FRIBERGH 3910
- Minimal supersolutions of convex BSDEs  
SAMUEL DRAPEAU, GREGOR HEYNE AND MICHAEL KUPPER 3973
- Brownian earthworm . . . KRZYSZTOF BURDZY, ZHEN-QING CHEN AND SOUMIK PAL 4002
- The top eigenvalue of the random Toeplitz matrix and the sine kernel  
ARNAB SEN AND BÁLINT VIRÁG 4050
- Combinatorial approach to the interpolation method and scaling limits in sparse  
random graphs . . . . . MOHSEN BAYATI, DAVID GAMARNIK AND PRASAD TETALI 4080
- Behaviors of entropy on finitely generated groups . . . . . JÉRÉMIE BRIEUSSEL 4116
- Factor models on locally tree-like graphs  
AMIR DEMBO, ANDREA MONTANARI AND NIKE SUN 4162
- Complexity of random smooth functions on the high-dimensional sphere  
ANTONIO AUFFINGER AND GERARD BEN AROUS 4214
- Large deviation rate functions for the partition function in a log-gamma distributed  
random potential . . . . . NICOS GEORGIU AND TIMO SEPPÄLÄINEN 4248
- Noncommutative Bennett and Rosenthal  
inequalities . . . . . MARIUS JUNGE AND QIANG ZENG 4287
- On the uniform convergence of random series in Skorohod space and representations  
of càdlàg infinitely divisible processes  
ANDREAS BASSE-O'CONNOR AND JAN ROSIŃSKI 4317
- Distances in the highly supercritical percolation cluster  
ANNE-LAURE BASDEVANT, NATHANAËL ENRIQUEZ AND LUCAS GERIN 4342
- Limiting distribution of maximal crossing and nesting of Poissonized random matchings  
JINHO BAIK AND ROBERT JENKINS 4359
- Scaling window for mean-field percolation of averages . . . . . JIAN DING 4407