

# THE ANNALS of PROBABILITY

AN OFFICIAL JOURNAL OF  
THE INSTITUTE OF MATHEMATICAL STATISTICS

## Articles

Supercritical contact processes on $Z$ .....	RICHARD DURRETT AND DAVID GRIFFEATH	1
Attractive nearest particle system .....	THOMAS LIGGETT	16
Brownian motion with lower class moving boundaries which grow faster than $t^{1/2}$ .....	R. F. BASS AND M. CRANSTON	34
A class of conditional limit theorems related to ruin problem .....	MICHIO SHIMURA	40
Gaussian measures in $B_p$ .....	NARESH JAIN AND DITLEV MONRAD	46
The central limit theorem for stochastic integrals with respect to Lévy processes .....	EVARIST GINÉ AND MICHAEL B. MARCUS	58
Small deviations in the functional central limit theorem with applications to functional laws of the iterated logarithm .....	ALEJANDRO DE ACOSTA	78
Some results on the cluster set $C(\{S_n/a_n\})$ and the LIL .....	A. DE ACOSTA AND J. KUELBS	102
Convergence rates related to the strong law of large numbers .....	JAMES ALLEN FILL	123
Remainder term estimates of the renewal function .....	HASSE CARLSSON	143
Dominating points and the asymptotics of large deviations for random walk on $R^d$ .....	PETER NEY	158
Domains of attraction of multivariate extreme value distributions .....	ALBERT W. MARSHALL AND INGRAM OLKIN	168
The domain of normal attraction of an operator-stable law .....	WILLIAM N. HUDSON, J. DAVID MASON, AND JERRY ALAN VEEH	178
Sums of functions of nearest neighbor distances, moment bounds, limit theorems and a goodness of fit test .....	P. J. BICKEL AND L. BREIMAN	185

## Short Communications

A remark on stochastic fundamental matrices .....	MARC A. BERGER	215
A method of investigating the longest paths in certain random graphs .....	T. NEMETZ AND N. KUSOLITSCH	217
Strong law of large numbers for Banach space valued random sets .....	MADAN L. PURI AND DAN A. RALESCU	222
An application of time reversal to Brownian local time .....	JOANNA B. MITRO	225

---

Vol. 11, No. 1—February 1983