## Subject index

## **Volume 4, 2017**

## $\Xi$ -coalescent – 407

additive odds model – 109 allocation principle – 141 AR(1) representation – 381 asymptotic behavior of functionals – 199 asymptotic normality – 381 attributable proportion – 109

Bessel functions – 79 binary experiments – 285 bonus–malus system – 141 Brownian motion – 189 BSDE and reflected BSDE – 353

case-control data – 109
Chacon–Walsh construction – 285
circle homeomorphisms – 253
claim type – 141
closure property – 65
coalescent with dust – 407
comparison theorem – 25
compound Poisson-Gamma
subordinator – 161
consistency – 381
consistently varying tail – 65
convex stochastic order – 285

## Cramér's theorem – 1

diffusion-type processes – 199 Donsker theorem – 189

entropy power inequality – 233
estimation – 381
estimators of offspring mean – 1
exchangeability – 407
expansion of odds ratios – 109
expected discounted dividend
payments – 315

Farlie–Gumbel–Morgenstern copula – 315 Fisher information inequality – 233 fractionally integrated inverse stable subordinators – 93

gain-loss ratio - 219
generalized backward stochastic
differential equations (GBSDEs)
with jumps - 25
generalized fractional and subfractional
Brownian motion - 15
Gerber-Shiu function - 315
Gibbs inequality - 233



430 Subject index

Hahn and Jordan decompositions – 219 heavy tail – 65

indifference principle – 141 initial random population – 1 integrated distribution functions – 285 integrated quantile functions – 285 integro-differential equation – 315 interaction of risk factors – 109 inverse subordinator – 161 iterated function systems – 253

Ky-Fan inequality - 233

L<sup>p</sup> solution – 25 Lieb's splitting inequality – 233 logistic regression – 109

Markov chain – 141, 253 markovity – 15 metric theory of ROE – 273 minimal – 253 minimal clade – 407 monotone generator – 25

non-Gaussian limit theorem – 79 non-monotonic functions – 219 nonregular dependence on the parameter – 199

permanent insurance policy – 127 Poincaré–Borel lemma – 189 Poisson point process – 407 Poisson process – 161 premium relativity – 141

quantile functions - 285

random dynamical systems – 253
random flights – 79
random process with immigration – 93
randomly stopped maximum – 65
randomly stopped maximum of
sums – 65
rates of weighted entropy and
information – 233
restricted Oppenheim expansion – 273
risk measure – 219
risk model with stochastic
premiums – 315
ruin probability – 315

self-normalized sums – 189
semi-Markov chain – 127
semimartingality – 15
shot noise process – 93
signed measures – 219
singular probability distributions – 273
Skellam process – 161
stationarity – 15
stationary distribution – 141, 253
stochastic Lipschitz coefficient – 353
strictly stationary processes – 381
Sylvester expansion – 273
synchronization – 253

temporary insurance policy – 127 threshold strategy – 315 time-change – 161 transition matrix – 141

varying deductible - 141

weighted entropy – 233 weighted premium – 219