

中国数学前沿

ISSN 1673-3452

Volume 16 · Number 2 · April 2021

Available  
online

[www.springerlink.com](http://www.springerlink.com)



QK2118926

# Frontiers of Mathematics in China



Higher Education Press

万方数据



Springer

Volume 16  
Number 2  
2021

Frontiers of  
**Mathematics**  
in China

**Editorial**

- 255 **Wenming HONG, Yonghua MAO, Yuhui ZHANG**  
Markov Processes and Related Topics (III)

**Survey article**

- 257 **Xing HUANG, Panpan REN, Feng-Yu WANG**  
Distribution dependent stochastic differential equations

**Research articles**

- 303 **Fang CHEN, Xianping GUO, Zhong-Wei LIAO**  
Optimal stopping time on discounted semi-Markov processes
- 325 **Man CHEN, Xianyuan WU, Xiaowen ZHOU**  
A Wiener-Hopf factorization related potential measure for spectrally negative Lévy process
- 345 **Mu-Fa CHEN, Zhi-Gang JIA, Hong-Kui PANG**  
Computing top eigenpairs of Hermitizable matrix
- 381 **Shui FENG**  
A note on residual allocation models
- 395 **Shuaibin GAO, Junhao HU, Li TAN, Chenggui YUAN**  
Strong convergence rate of truncated Euler-Maruyama method for stochastic differential delay equations with Poisson jumps
- 425 **Wei HONG, Shihu LI, Wei LIU**  
Well-posedness and exponential mixing for stochastic magneto-hydrodynamic equations with fractional dissipations

*(contents continued on inside back cover)*

CN 11-5739/01  
邮发代号: 80-964

ISSN 1673-3452



(contents continued from outside back cover)

- 459 **Wanting HOU, Xiaoyue ZHANG, Wenming HONG**  
Extremum of a time-inhomogeneous branching random walk
- 479 **Yiming JIANG, Xu YANG**  
Stochastic partial differential equations with gradient driven by space-time fractional noises
- 499 **Jun LI, Fubao XI**  
Convergence, boundedness, and ergodicity of regime-switching diffusion processes with infinite memory
- 525 **Yanyun LI, Junping LI**  
Down/up crossing properties of weighted Markov collision processes
- 543 **Yuanyuan LIU, Jinpeng LIU**  
Hoeffding's inequality for Markov processes via solution of Poisson's equation
- 559 **Yutao MA, Zhengliang ZHANG**  
Spectral gap of Boltzmann measures on unit circle
- 567 **Qi SUN, Mei ZHANG**  
Lower deviations for supercritical branching processes with immigration
- 595 **Jian WANG, Longteng ZHANG**  
Functional inequalities for time-changed symmetric  $\alpha$ -stable processes
- 623 **Fuquan XIA, Litan YAN, Jianhui ZHU**  
Forward and symmetric Wick-Itô integrals with respect to fractional Brownian motion

**Markov Processes and Related Topics (I)**

See *Front. Math. China*, 2014, Vol. 9, No. 4

**Markov Processes and Related Topics (II)**

See *Front. Math. China*, 2015, Vol. 10, No. 4

Volume 16  
Number 2  
2021

Frontiers of  
**Mathematics**  
in China

**Editorial**

- 255 **Wenming HONG, Yonghua MAO, Yuhui ZHANG**  
Markov Processes and Related Topics (III)

**Survey article**

- 257 **Xing HUANG, Panpan REN, Feng-Yu WANG**  
Distribution dependent stochastic differential equations

**Research articles**

- 303 **Fang CHEN, Xianping GUO, Zhong-Wei LIAO**  
Optimal stopping time on discounted semi-Markov processes
- 325 **Man CHEN, Xianyuan WU, Xiaowen ZHOU**  
A Wiener-Hopf factorization related potential measure for spectrally negative Lévy process
- 345 **Mu-Fa CHEN, Zhi-Gang JIA, Hong-Kui PANG**  
Computing top eigenpairs of Hermitizable matrix
- 381 **Shui FENG**  
A note on residual allocation models
- 395 **Shuaibin GAO, Junhao HU, Li TAN, Chenggui YUAN**  
Strong convergence rate of truncated Euler-Maruyama method for stochastic differential delay equations with Poisson jumps
- 425 **Wei HONG, Shihu LI, Wei LIU**  
Well-posedness and exponential mixing for stochastic magneto-hydrodynamic equations with fractional dissipations

*(contents continued on inside back cover)*

CN 11-5739/01  
邮发代号: 80-964

ISSN 1673-3452

