李宋子

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职位

博士后, 北京师范大学数学科学学院

2016.04 - 现在

教育经历

法国图卢兹第三大学,数学研究所(IMT),博士生

2013.10 - 2016.06

导师: Dominique Bakry (特级教授, Senior member of Institut Universitaire de France)

复旦大学数学科学学院,博士生

2010.09 - 2016.01

导师: 应坚刚(教授)

复旦大学数学科学学院,本科生

2006.09 - 2010.07

研究兴趣

最优传输,流形上的 W-entropy,对称扩散算子与随机矩阵

已发表的论文与预印 本

- 1. Hamilton differential Harnack inequality and W-entropy for Witten Laplacian on Riemannian manifolds (with X.-D. Li), J. Funct. Anal., (2017), DOI: 10.1016/j.jfa.2017.09.017
- 2. Dyson processes on the octonion algebra, Donati-Martin C., Lejay A., Rouault A. (eds) Séminaire de Probabilités XLVIII. Lecture Notes in Mathematics, Vol.2168 (2016), Springer
- 3. W-entropy formula for the Witten Laplacian on manifolds with time dependent metrics and potentials (with X.-D. Li), Pacific Journal of Mathematics, Vol.278 (2015), No.1, 173-199
- 4. W-entropy formulas on super Ricci flows and Langevin deformation on Wasserstein space over Riemannian manifolds (with X.-D. Li), to appear in Science China Mathematics, (2018), DOI: 10.1007/s11425-017-9227-7
- 5. On Harnack inequalities for Witten Laplacian on Riemannian manifolds with super Ricci flows (with X.-D. Li), to appear in the Special issue of Asian Journal of Mathematics in honor of Prof. N. Mok's 60th birthday, arXiv:1706.05304
- 6. Matrix Dirichlet processes, arXiv:1612.04472, submitted
- 7. W-entropy, super Perelman Ricci flows and (K, m)-Ricci solitons (with X.-D. Li), arXiv:1706.07040, submitted
- 8. W-entropy formulas and Langevin deformation of flows on Wasserstein space over Riemannian manifolds (with X.-D. Li), arXiv:1604.02596
- 9. On the law of large numbers for the empirical measure process of generalized Dyson Brownian motion (with X.-D. Li, Y.-X. Xie), arXiv:1407.7234

受邀报告

Workshop on Probability, USTC, Hefei	2016.08
Workshop STAB, Université Lyon 1, Lyon	2016.04
Stochastic Analysis Seminar, University of Bonn, Bonn	2015.11
Probability Seminar, Wuhan University, Wuhan	2015.11
Workshop on Markov Processes, Shanghai	2015.10
CNRS-PAN Mathematics Summer Institute, Krawkow	2015.07
Free Probability Seminar, University of Saarlandes, Saarbrucken	2014.11

Probability Seminar, AMSS, CAS, Beijing 2014.08 Workshop on Stochastic Analysis and Related Topics, AMSS, CAS, Beijing 2013.08