Li Lai

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Education

2021-Present **Tsinghua University**, Beijing, China.

Ph.D. Mathematics, Advisor: Pin Yu

2014-2020 **Tsinghua University**, Yau Mathematical Sciences Center.

M.S. Mathematics, Advisor: Pin Yu

2010-2014 Tsinghua University, Beijing, China.

B.S. Mathematics

Research Interests

Transcendental number theory; wave equation.

Publications and Preprints

4. Li Lai,

On the largest prime divisor of n! + 1, arXiv:2103.14894

3. Li Lai and Li Zhou,

At least two of $\zeta(5), \zeta(7), \ldots, \zeta(35)$ are irrational, arXiv:2103.00904

2. Li Lai, Jiong-Yue Li and Pin Yu,

On the rigidity of stationary charged black holes: small perturbations of the non-extremal Kerr-Newman family, accepted by J. Differential Geom. arXiv:1911.10560

1. Li Lai and Pin Yu,

A note on the number of irrational odd zeta values, Compos. Math. 156 (2020), no. 8, 1699-1717. arXiv:1911.08458

Awards and Honors

- 2012 Nianzeng Sun Mathematical Analysis Award (at Tsinghua University)
- 2010 International Mathematical Olympiad: Gold Medal

Talks

June 27, 2020 Webinar on APDE (online) ${\it Recent progress on the irrationality of } \zeta(2k+1).$

Teaching Assistant Experiences

- Spring 2021 Real Analysis (Yijun Yao, Fudan University)
 - Fall 2017 Mathematical Analysis 3 (Pin Yu, Tsinghua University)
- Spring 2017 Mathematical Analysis 2 (Chenghao Sun, Tsinghua University)
- Spring 2016 Linear Algebra (Lingbing He, Tsinghua University)
 - 2014-2015 Mathematical Analysis 1-3 (Xuguang Lu, Tsinghua University)

Other Experiences and Activities

- 2020-2021 Research assistant at Fudan University
 - 2017 Finisher of Columbia168 ULTRA-TRAIL® THREE GORGES
- Spring 2013 Exchange student at École normale supérieure, Paris, France

CV updated: Sept. 8, 2021