

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

5. Li Lai, Cezar Lupu and Derek Orr,
Elementary proofs of Zagier's formula for multiple zeta values and its odd variant,
arXiv:2201.09262
4. Li Lai,
On the largest prime divisor of $n! + 1$,
arXiv:2103.14894
3. Li Lai and Li Zhou,
At least two of $\zeta(5), \zeta(7), \dots, \zeta(35)$ are irrational,
accepted in *Publicationes Mathematicae Debrecen*. 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 in *Journal of Differential Geometry*. arXiv:1911.10560
1. Li Lai and Pin Yu,
A note on the number of irrational odd zeta values,
Compositio Mathematica 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

- January 7, 2022 Learning Seminar on Multiple Zeta Values, YMSC&BIMSA
Linear forms in Riemann zeta values and MZVs
- June 27, 2020 Webinar on APDE (online)
Recent progress on the irrationality of $\zeta(2k+1)$.

Teaching Assistant Experiences

- Fall 2021 Advanced Calculus 1 (Yinghua Ai, Tsinghua University)
- 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: 2022-2-2