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,
   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: 2022-1-16