

Wenbin Luo

Postdoc

Beijing international center for mathematical research,
No. 5 Yiheyuan Road Haidian District,
Beijing, P.R.China 100871
✉ w.luo@pku.edu.cn

Research interests

Arakelov geometry, diophantine approximation, dynamical systems and birational geometry

Working experience

Jul. 2023– Now Postdoc at Beijing International Center for Mathematical Research under the supervision of Prof. Xinyi Yuan

Education

Apr. 2020 **Department of Mathematics, Graduate School of Science, Kyoto University, Japan**

Mar. 2023

- PhD under the supervision of Prof. Atsushi Moriawaki
- Research Fellowship for Young Scientists(DC1) of Japan Society for the Promotion of Science

Apr. 2018 **Department of Mathematics, Graduate School of Science, Kyoto University, Japan**

Mar. 2020

- Master under the supervision of Prof. Atsushi Moriawaki
- Scholarships or Awards:
 - Asian Future Leadership Scholarship

Sep. 2013 **Department of Mathematics, Fudan University, China**
to Jun. 2017

- Bachelor
- Member of Talents Project

Preprints and papers in preparation

W. Luo, Arithmetic over trivially valued field and its applications, 2020. [Online]. Available: <https://arxiv.org/abs/2009.08663>

—, The continuity of χ -volume functions over adelic curves, 2020. [Online]. Available: <https://arxiv.org/abs/2003.09837>

—, J. Song, Arithmetic degrees over fields of characteristic 0, 2023.

Publications and papers in review

W. Luo, A relative bigness inequality and equidistribution theorem over function fields, 2021, submitted to Int. J. Number Theory. Available: <https://arxiv.org/abs/2112.13206>

—, Slope boundedness and equidistribution theorem, 2022, submitted to Int. Math. Res. Not.. Available: <https://arxiv.org/abs/2211.08734>

—, Continuous extension and birational invariance of χ -Volume Over an Adelic Curve, 2023, submitted to J. Reine Angew. Math. Available: <https://arxiv.org/abs/2211.08734>

Talks and seminars

21/08/2020 2nd Kyoto-Hefei Workshop on Arithmetic Geometry

- Title: The continuity of χ -volume over adelic curves

07/03/2022 Seminar - New adic and algebraic directions in motivic homotopy theory

- Title: A relative bigness inequality and equidistribution theorem over function fields

15/09/2022 Intercity Seminar on Arakelov Geometry 2022

- Title: A relative bigness inequality and equidistribution theorem over function fields

19/10/2022 Kinoshita Symposium on Algebraic Geometry 2022

- Title: A relative bigness inequality over function fields

09/01/2023 NCTS East Asia Core Doctoral Forum in Mathematics

- Title: Arithmetic Hilbert-Samuel and equidistribution theorems

Teaching Experience

Apr. 2020 - Teaching assistant in Basics of Modern Mathematics A
Jun. 2020

Oct. 2020 - Teaching assistant in Algebra II
Jan. 2021

Apr. 2021 - Teaching assistant in Basics of Modern Mathematics A
Jun. 2021

Oct. 2021 - Teaching assistant in Algebra II
Jan. 2022

Oct. 2022 - Teaching assistant in Algebra II
Jan. 2023