BAOJUN WU 1996-06-21 | Curriculum Vitae

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RESEARCH INTERESTS

My interests lie at the interface between probability theory and mathematical physics. In particular, Liouville conformal field theory, Schramm-Loewner evolutions, Conformal loop ensembles, and hyperbolic geometry.

EDUCATION

SHANDONG UNIVERSITY   9/2014 - 6/2018
Mathematics and applied mathematics   Undergraduate
honour degrees

L'ÉCOLE NORMALE SUPÉRIEURE (ULM)   9/2017 - 6/2020
Mathematics and applied mathematics   Normalien
mention: Très Bien

UNIVERSITÉ PARIS-SACLAY   9/2019 - 6/2020
Random mathematics and probability   Master
mention: Très Bien

UNIVERSITÉ AIX MARSEILLE   9/2020 - 9/2023
Advisor: Prof. Rémi Rhode   Ph.D.

BEIJING INTERNATIONAL CENTER FOR MATHEMATICAL RESEARCH   9/2023 -
                                                                                                               Postdoc

EXPERIENCE

INSTITUTE FOR ADVANCED STUDY   9/2022 - 12/2022
visiting student

INSTITUT DES HAUTES ÉTUDES SCIENTIFIQUES   1/2023 - 2/2023
visiting student

PREPRINTS AND PUBLICATIONS

CONFORMAL BOOTSTRAP ON THE ANNULUS IN LIOUVILLE CFT.

https://arxiv.org/abs/2203.11830

HIGHER EQUATIONS OF MOTION AT LEVEL 2 IN LIOUVILLE CFT

(with G. Baverez) https://arxiv.org/abs/2312.13900

IRREDUCIBILITY OF VIRASORO REPRESENTATIONS IN LIOUVILLE CFT

(with G. Baverez) https://arxiv.org/abs/2312.07344

CONFORMAL BOOTSTRAP FOR SURFACES WITH BOUNDARY IN LIOUVILLE CFT. PART 1: SEGAL AXIOMS

(with C. Guillarmou and R. Rhodes) https://arxiv.org/abs/2408.13133

SLE LOOP MEASURE AND LIOUVILLE QUANTUM GRAVITY

(with M. Ang, G. Cai and X. Sun) https://arxiv.org/abs/2409.16547

INTEGRABILITY OF CONFORMAL LOOP ENSEMBLE: IMAGINARY DOZZ FORMULA AND BEYOND

(with M. Ang, G. Cai and X. Sun) https://arxiv.org/abs/2107.01788

CONFERENCE TALKS

RANDOM GEOMETRY AND STATISTICAL PHYSICS AT UPENN   2022.10
Talk Title: Conformal loop ensemble and matrix model

1ST NYUSH PEKING WESTLAKE JOINT CONFERENCE ON PROBABILITY   2024.3
Talk Title: Irreducibility of Llouville theory

PROBABILITY IN CONFORMAL FIELD THEORY BERNOULLI CENTER, EPFL   2024.4
Talk Title:Proof of Delfino-Viti conjecture