Jingrui Niu

Curriculum Vitae

Département de Mathématiques
Université Paris-Sud XI
2S15, Bâtiment 307
F-91405 Orsay Cedex, France
✉ *jingrui.niu@math.u-psud.fr*

Education

2017 – Now **Graduate Student in Fundamental Mathematics.**
Université Paris-Sud XI, Orsay. Advisors : *Nicolas Burq & Pierre Lissy*
-Dissertation : Dispersive PDE, control and longtime behavior

2016 – 2017 **M2 in Analysis, Modelization, Simulation**
Université de Versailles Saint-Quentin-en-Yvelines, Advisor : *Nicolas Burq*
– *Mémoire :* On the proof of the Strichartz estimates on the compact manifold

2014 – 2016 **Master student**
Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing. Advisor : *Ping Zhang*

2010 – 2014 **Bachelor of Science in Pure and Applied Mathematics**
Nankai University, Tianjin.
-Enrolled in Nankai Bo-Ling Mathematics Class-2010

Research Interests

I am interested in various domains of partial differential equations, including control and stabilization on wave equations, microlocal and semi-classical defect measures and unique continuation properties.

Current Research Topics

I mainly focus on the control problem of the coupled wave systems and the stabilization of the wave equation with the rough dampings, under the co-direction of Nicolas Burq and Pierre Lissy.

- Jingrui Niu. Simultaneous control of wave systems. *to be appeared in SICON, arXiv :2002.08060*, 2020
- Pierre Lissy and Jingrui Niu. Controllability of a coupled wave system with a single control and different speeds. *preprint*, 2021

Academic Activities

1. Summer school "Microlocal Methods in Global Analysis", Göttingen, 27-30 August 2018.
2. Conference "Les 60 ans de Jean-Yves Chemin", IHP, 25-29 March 2019.

3. Conference "Workshops on nonlinear fluids and PDEs", Nanjing, 06-09, August 2019.
4. Invited talk, "Microlocal methods on the controllability of wave equations", Fudan University, Shanghai, 20 August 2019.
5. Conference "Control and dynamics of PDE", Strasbourg, 28-31 October 2019.