

Rémi SCHWEYER

Postdoctoral Position
Laboratoire Analyse, Modélisation et Géométrie
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Personal data

Born 1 december 1986 in Rennes (France). French citizen. Single

Research

Blow-up dynamics for the critical parabolic problems.

Education

- Postdoc **Université de Cergy-Pontoise**: Post-doctoral work under the supervision of Pr Nikolay Tzvetkov, 2013-2014.
- PhD **Université Paul Sabatier**: "Study of existence and stability of blow-up dynamics for critical parabolic problems" Advisor: Pierre Raphael., 2010-2013.
- MA **Université Paul Sabatier**, Toulouse, 2009-2010.
- BA **ISAE formation Suparo**, Toulouse, 2007-2010.

Invited talk

- Mar 2014 Journées Jeunes EDPistes Français, Fréjus.
- Oct 2013 Workshop de l'ERC BLOWDISOL, Nice.
- Mar 2013 Workshop "A one day dispersive PDE's at UVic", Victoria.
- Jan 2013 Journée des doctorants et post-doctorants de l'équipe MIP, Toulouse.

Seminars

- Avr 2014 Séminaire EDP, Chambéry.
- Fev 2014 Séminaire "Analyse numérique et EDP", Orsay.
- Fev 2014 Séminaire du CEREMADE "Analyse et probabilité", Paris Dauphine.
- Jan 2014 Séminaire "Physique mathématiques", Grenoble.
- Dec 2013 "Applied Mathematics Lab Seminar", New-York.
- Nov 2013 "Seminaire Laurent Schwartz " , X-IHES.
- Nov 2013 "GdT Analyse non linéaire et EDP " , Paris 6, Paris7, ENS.
- May 2013 "Seminar for Applied Mathematics " , Zürich.
- Mar 2013 "Differential Geometry, Mathematical Physics, PDE Seminar", Vancouver.
- Jan 2013 Séminaire "Analyse et application", Evry
- Dec 2012 Séminaire "Analyse et EDP", Toulouse
- Dec 2012 "Applied Mathematics Lab Seminar", New-York.
- Fev 2012 Séminaire "Equations aux dérivées partielles non linéaires", Paris 13.

Teaching

- 2010-2013 Exercices for undergraduate students (Calculus), University Paul Sabatier.

Invitation

- Nov 2013 Courant Institute of Mathematic Sciences, New-York, 5 weeks. Invitation of Pr. Masmoudi and Pr. Germain.
- Mars 2013 University of British Columbia, Vancouver, 9 weeks. Invitation of Pr Tsai and Pr. Gustaffson.
- Déc 2012 Courant Institute of Mathematic Sciences, New-York, 1 week. Invitation of Pr. Masmoudi.

Publications

- [1] Schweyer, R., Blow-up dynamics for the parabolic-parabolic Patlak-Keller-Segel model, submitted.
- [2] Raphaël, P.; Schweyer, R., Quantized slow blow up dynamics for the corotational energy critical harmonic heat flow, to appear in **Analysis of Partial Differential Equations**.
- [3] Raphaël, P.; Schweyer, R., On the stability of critical chemotactic agregation, **Mathematische Annalen**, <http://dx.doi.org/10.1007/s00208-013-1002-6>, 1-111, (2013).
- [4] Schweyer, R.; Type II blow up for the four dimensional energy critical semi linear heat equation, **J. Funct. Anal.**, 263 (2012), pp. 3922-3983
- [5] Raphaël, P.; Schweyer, R., Stable blow up dynamics for the 1-corotational energy critical harmonic heat flow, **Comm. Pure. Appl. Math.** 66, (2013), no.3, pp 414-480.