



Oxbridge PDE Workshop Programme

Lecture Room L5, Mathematical Institute, Oxford

23 & 24 March 2015

Monday 23 March 2015

11.50am	Opening Remarks
12.00pm	Grégoire Allaire (L'Ecole Polytechnique) Geometrical constraints in the level set method for shape and topology optimization
12.50pm	Lunch
2.00pm	Yoshinori Morimoto (University of Kyoto) Recent topics on the non-cutoff Boltzmann equation
2.50pm	Jan Sberski (University of Cambridge) On the Existence of a Maximal Cauchy Development for the Einstein Equations - a Dezornification
3.20pm	Siran Li (University of Oxford) A generalised Div-Curl Lemma and its application to isometric immersions of higher dimensional Riemannian Manifolds
3.50pm	Refreshments
4.20pm	Panu Lahti (Aalto University) On some pointwise properties of functions of bounded variation on metric spaces
5.10pm	Jan Kristensen (University of Oxford) The Morse-Sard theorem, generalized Luzin property and level sets for Sobolev functions
7.00pm	Dinner, Rewley House



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Tuesday 24 March 2015

9.00am	Amit Einav (University of Cambridge) Between Functional Inequalities and Cercignani's Conjecture
9.50am	Anton Mühlemann (University of Oxford) From Calculus of Variations to Steel
10.20am	Sara Merino (University of Cambridge) Anomalous energy transport in one-dimensional crystals
10.50pm	Refreshments
11.10am	Angkana Ruland (University of Oxford) Carleman estimates for the variable coefficient thin obstacle problem
12.00pm	Emanuele Spadaro (Max Planck Institute) An isoperimetric inequality for the thin obstacle problem
12.50pm	Lunch
2.00pm	Clément Mouhot (University of Cambridge) Commutating the mean-field and classical limits of quantum mechanics
2.50pm	Concluding Remarks