



# 6<sup>th</sup> South West Regional PDE Winter School Programme L3 Mathematical Institute, Oxford

Thursday 16 January 2014

- 1.00pm Registration and Lunch
- 2.00pm **Adriana Garroni**, Universita' di Roma, La Sapienza & University of Oxford  
*Functionals defined on 1-rectifiable sets and the application to the theory of dislocations*
- 3.30pm Tea/ Coffee
- 4.00pm **Ali Taheri**, University of Sussex  
*Topology of Sobolev spaces and Local minimizers*
- 5.30pm **Giovanni Alberti**, University of Oxford  
*Elliptic regularity theory applied to time harmonic Maxwell's equations*
- 5.50pm **Ross Lund**, University of Bristol  
*Travelling Waves in Magnetic Nanowires*
- 6.10 **Ben Pooley**, University of Warwick  
*On an Eulerian-Lagrangian formulation of the Euler equations*
- 7.30pm *Dinner at Pierre Victoire*



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- 9.30am            **Daniel Coutand**, Heriot-Watt University  
*Analysis of the free-boundary Euler equations*
- 11.00am            Tea/ Coffee
- 11.30am            **Giles Shaw**, University of Cambridge  
*Continuous Extension of Integral Functionals over  $W^{1,1}$*
- 11.50am            **Zisis Sakellaris**, University of Bath  
*A minimization problem in Conformal Geometry*
- 12.10am            **Aleks Jevnikar**, SISSA  
*A general existence result for the TODA system on compact surfaces*
- 12.30pm            Lunch Break
- 2.00pm            **Filip Rindler**, University of Warwick  
*The positive Jacobian constraint in elasticity theory and orientation-preserving Young measures*