



Second South West Regional PDE Winter School



Swansea University
Prifysgol Abertawe

Mathematics Department Swansea University

15-16 January 2010



The School will address new trends in the modern theory and applications of Nonlinear PDE and the Calculus of Variations.

The programme consists of two minicourses and two invited lectures, as well as short talks from PhD students and junior researchers.

Minicourses



- **Giuseppe Mingione** (Parma, Italy)
Non-linear aspects of the Calderón-Zygmund theory
- **Nina Uraltseva** (St. Petersburg, Russia)
Maximum principle and related topics

Invited Lectures



- **Giuseppe Buttazzo** (Pisa, Italy)
On some problems in spectral optimization
- **Jean Van Schaftingen** (Louvain-la-Neuve, Belgium)
Limiting estimates for L^1 vector fields

Organizers: the organising committee of the School is made up of members from: [Oxford Centre for Nonlinear PDE](#), [University of Bath](#), [University of Bristol](#), [University of Warwick](#) and the [Wales Institute of Mathematical and Computational Sciences](#).

Local Organizers: Vitali Liskevich, Kewei Zhang, Elaine Crooks, Vitaly Moroz

Limited funds are available to contribute to local expenses of UK research students and junior researchers. The deadline to apply for financial support is **Monday 7th December**.

Home page of the School: www-maths.swan.ac.uk/staff/vm/SWWS/