

INFORMACIÓN GENERAL

Santander

Campus de Las Llamas
Avda. de los Castros, 42
39005 Santander
Tel.: 942 29 87 00 / 942 29 87 10
Fax: 942 29 87 27
informacion@sa.uimp.es

Madrid

C/ Isaac Peral, 23
28040 Madrid
Tel.: 91 592 06 31 / 91 592 06 33
Fax: 91 592 06 40 / 91 543 08 97
alumnos@uimp.es

Horario:
de 9,00 a 14,00 h.
de 16,00 a 18,00 h. (excepto viernes)

Plazo de solicitud de becas

Del 26 de abril al 24 de mayo
de 2010

Apertura de matrícula

Desde el 26 de abril de 2010 hasta
completar plazas (Plazas limitadas)

A partir del 14 de junio de 2010

Palacio de la Magdalena
39005 Santander
Tel.: 942 29 88 00 / 942 29 88 10
Fax: 942 29 88 20

Horario:
de 9,00 a 14,00 h.
de 15,30 a 18,00 h. (excepto viernes)

www.uimp.es

UIMP
Universidad Internacional
Menéndez Pelayo

2010
Seminario

*FRONTIERS OF MATHEMATICS AND APPLICATIONS

Juan Luis Vázquez

* Curso acreditado por el Ministerio
de Educación para profesores
de enseñanzas no universitarias

Transportista oficial

IBERIA

Código: 60ka Tarifa: A

Santander
9 to 13 of August 2010

Colaboración



Frontiers of mathematics and applications

Director

Juan Luis Vázquez

Universidad Autónoma de Madrid, Spain

Secretary

Matteo Bonforte

Universidad Autónoma de Madrid, Spain

Organized by

Juan Luis Vázquez

Peter A. Markowich

University of Cambridge, UK

9 to 13 of August 2010

Monday 9th

09:30 h. Opening

09:45 h. New challenges in Kinetic and Quantum equations I

Peter A. Markowich

11:00 h. Differential Equations of Mathematical Biology I

(Adaptative evolution and concentrations in parabolic PDEs)

Benoît Perthame

Université P. et M. Curie, France

12:15 h. Regularity and optimality conditions for a free boundary problem I

Nicola Fusco

Università di Napoli, Italy

16:00 h. Theory of diffusion: Nonlinear models and applications I

Juan Luis Vázquez

17:10 h. Aggregation-pattern in non-local interaction equations

Klemens Fellner

University of Cambridge, UK

18:00 h. On the approximation of orientation-preserving homeomorphisms by smooth or piecewise affine ones

Aldo Pratelli

Università di Pavia, Italy

Tuesday 10th

09:30 h. New challenges in Kinetic and Quantum equations II

Peter A. Markowich

10:45 h. Differential Equations of Mathematical Biology II

(Adaptative evolution and concentrations in parabolic PDEs)

Benoît Perthame

12:00 h. New challenges in Kinetic and Quantum equations III

Peter A. Markowich

16:00 h. Round Table

Challenges in Applied Mathematics

Peter A. Markowich

Benoît Perthame

Nicola Fusco

Juan Luis Vázquez

Matteo Bonforte

Klemens Fellner

Aldo Pratelli

Augusto Ponce

Fernando Quirós

Wednesday 11th

09:30 h. New challenges in Kinetic and Quantum equations IV

Peter A. Markowich

10:45 h. Differential Equations of Mathematical Biology III

(Adaptative evolution and concentrations in parabolic PDEs)

Benoît Perthame

12:00 h. Differential Equations of Mathematical Biology IV

(Adaptative evolution and concentrations in parabolic PDEs)

Benoît Perthame

Thursday 12th

09:30 h. Regularity and optimality conditions for a free boundary problem II

Nicola Fusco

10:45 h. Regularity and optimality conditions for a free boundary problem III

Nicola Fusco

12:00 h. Theory of diffusion: Nonlinear models and applications II

Juan Luis Vázquez

16:00 h. How big can be a hole of a thin film?

Augusto Ponce

Université Catholique de Louvain, France

16:50 h. Nonlinear fractional diffusion

Fernando Quirós

Universidad Autónoma Madrid, Spain

17:40 h. Local bounds and Harnack Inequalities for Very Fast Evolution Equations

Matteo Bonforte

Friday 13th

09:30 h. Regularity and optimality conditions for a free boundary problem IV

Nicola Fusco

10:45 h. Theory of diffusion: Nonlinear models and applications III

Juan Luis Vázquez

12:00 h. Theory of diffusion: Nonlinear models and applications IV

Juan Luis Vázquez

13:15 h. Closure