

THE ABEL SYMPOSIUM 2010

Nonlinear Partial Differential Equations

Scientific program

The symposium will focus on mathematical and numerical aspects of various classes of nonlinear partial differential equations (PDE). It will bring together leading experts to learn about current trends in the field. Relevant topics include (i) nonlinear hyperbolic equations arising in fluid mechanics and general relativity, including questions of existence, uniqueness, regularity, formation of singularities, and asymptotic behavior of solutions; (ii) nonlinear elliptic equations and variational methods with applications to mathematical physics, relativistic quantum mechanics, and quantum chemistry; (iii) construction and analysis of numerical methods for nonlinear PDE.

The scientific committee consists of Alberto Bressan (Penn State), Maria J. Esteban (Paris), Helge Holden (Trondheim), Kenneth H. Karlsen (Oslo), Sergiu Klainerman (Princeton), and Eitan Tadmor (Maryland)

Invited Speakers

- Luigi Ambrosio (Pisa)
- Jean Bourgain (Princeton)
- Alberto Bressan (Penn State)
- Luis A. Caffarelli (Texas)
- Gui-Qiang Chen (Evanston & Oxford)
- Camillo De Lellis (Zürich)
- Maria J. Esteban (Paris)
- Craig Evans (Berkeley)
- Gerhard Huisken (Golm)
- Carlos Kenig (Chicago)
- Alex Kiselev (Madison)
- Sergiu Klainerman (Princeton)
- Pierre-Louis Lions (Paris)
- Andrew J. Majda (New York)
- Igor Rodnianski (Princeton)
- Laure Saint-Raymond (Paris)
- Eitan Tadmor (Maryland)
- Juan Luis Vazquez (Madrid)
- Cédric Villani (Lyon)



When: September 28 - October 1, 2010.

Venue: The Norwegian Academy of Science and Letters, Oslo, Norway

URL: abelsymposium.no

For further information contact the local organizers:
[Helge Holden](#) or [Kenneth H. Karlsen](#)

