

Nonlinear Diffusion Problems

dedicated to Maria Assunta Pozio

Program at glance (September 5, 2019)

<http://www1.mat.uniroma1.it/ricerca/convegni/2019/ndp2019/>

Wednesday, September 11th. Afternoon

Chairman: Lucio BOCCARDO

14.30–15.15 *Commemoration of Maria Assunta Pozio*

15.15–16.00 Michiel BERTSCH (Università di Roma Tor Vergata & IAC-CNR, Italy)

Discontinuous viscosity solutions of first order Hamilton–Jacobi equations

16.00–16.30 *coffee break*

16.30–17.15 Jesus Ildefonso DIAZ (Universidad Complutense de Madrid, Spain)

Beyond the unique continuation: “flat solutions” for reactive slow diffusions and the infinite and confinement singular potentials for the Schrödinger equation

17.15–18.00 Maria Michaela PORZIO (Sapienza, Università di Roma, Italy)

Time behavior of the solutions to a class of diffusion problems

Thursday, September 12th. Morning

Chairwoman: Filomena PACELLA

09.15–10.00 Robert KERSNER (University of Pécs, Hungary)

Periodic stationary solutions of some reaction-diffusion systems

10.00–10.45 Masayasu MIMURA (Hiroshima University, Hiroshima, Japan)

Nonlinear diffusion modelling stay (grow)-or-migrate dichotomy

10.45–11.15 *coffee break*

11.15–12.00 Elena BERETTA (Politecnico di Milano, Italy & NYU, Abu Dhabi, UAE)

On some inverse boundary value problems related to the monodomain model of cardiac electrophysiology

12.00–12.45 Pierangelo MARCATI (GSSI – Gran Sasso Science Institute, L’Aquila, Italy)

Splash singularities for 2-D incompressible viscoelastic fluids of Oldroyd-B type

Thursday, September 12th. Afternoon

Chairwoman: Adriana GARRONI

14.30–15.15 Thierry CAZENAVE (Sorbonne Université, France)

Some stability properties for minimal solutions of $-\Delta u = \lambda g(u)$

15.15–16.00 Gabriella TARANTELLA (Università di Roma Tor Vergata, Italy)

Minimal immersions of closed surfaces in hyperbolic 3- manifold

16.00–16.30 *coffee break*

16.30–17.15 Mimmo IANNELLI (Università di Trento, Italy)

Vector-borne epidemics through a plantation

17.15–18.00 Hiroshi MATANO (Meiji University, Tokyo, Japan)

Propagation of bistable fronts through a perforated wall: Part I

20.00–22.30 *...social dinner...*

Friday, September 13rd. Morning

Chairwoman: Isabeau BIRINDELLI

09.15–10.00 Henri BERESTYCKI (PSL University Paris & CNRS, France)

Propagation of bistable fronts through a perforated wall: Part II

10.00–10.45 Jesus HERNANDEZ (Universidad Autónoma de Madrid, Spain)

Positive solutions for a nonlinear elliptic problem arising in chemical reactions

10.45–11.15 *coffee break*

11.15–12.00 Fabio PUNZO (Politecnico di Milano, Italy)

The Poisson equation on Riemannian manifolds

12.00–12.45 Catherine BUNDLE (University of Basel, Switzerland),

Positive solutions of semilinear elliptic problems with a Hardy potential

12.45–13.00 *Conclusions*