CONFERENCE PROGRAMME

Monday, September 15th

10.30-11.15 **Opening.**

11.15-12.00 *A memory of Alfredo Lorenzi* (by **A. Favini**, **L. De Michele**, **G.Talenti**).

12.00-12.30 **J. Prüss:** *Maxwell-Stefan diffusion in reactive multicomponent flows.*

12.35-13.05 **A. Miranville:** *Asymptotic behavior of variants of Cahn-Hilliard equation.*

13.10-14.40 **Lunch.**

14.40-15.10 **G. Ruiz Goldstein:** *The PDEs of Mathematical Finance.*

15.15-15.45 **V. Isakov:** *On increasing stability for sources and coefficients from boundary data at larger frequencies.*

15.50-16.20 **D. Guidetti:** *Linear and quasilinear parabolic problems with dynamic boundary conditions.*

16.25-16.50 **Coffee break.**

16.50-17.20 **O. Arena:** *On some boundary control problems.*

17.25-17.55 **C. Lefter:** *Stabilization of systems of parabolic equations.*

18.00-18.30 **S. Romanelli:** *Nonsymmetric elliptic operators with Wentzell-type boundary conditions.*

18.35-19.05 **D. Addona:** *A class of semi-linear backward parabolic Cauchy problems.*

Tuesday, September 16th

9.00-9.30 **C. Pagani:** *A nonlinear Steklov problem arising in corrosion modeling.*

9.35-10.05 **M. Fabrizio:** *Fractional models for thermo-meccanical systems.*

10.10-10.40 **B. Ruf:** *On an inequality by Brezis-Merle and the 1-biharmonic operator.*

10.45-11.15 **Coffee break.**

11.15-11.45 **G. Metafune:** *Scale invariant elliptic operators with singular coefficients.*

11.50-12.20 **L. Pandolfi:** *Cosine operator and controllability of the heat equation with memory.*

12.25-12.55 **M. Calanchi:** *On Trudinger-Moser type inequalities with logarithmic weights.*

13.00-14.30 **Lunch.**

14.30-15.00 **M. Yamamoto:** *Inverse problems for the Kelvin-Vogt model.*

15.05-15.35 **G. Kurina:** *Inverse problem of variational calculus for discrete-time systems.*

15.40-16.10 **F. Colombo:** *Some identification problems for kernels depending on time and on a space variable.*

16.15-16.40 **Coffee break.**

16.40-17.10 **F. Bucci:** *Optimal boundary control of coupled hyperbolic-parabolic PDE systems: distinct physical models, diverse mathematical analyses.*

17.15-17.45 **P. Loreti:** *Observability estimates for membranes in a square.*

17.50-18.20 **D. Sforza:** *Reachability for integro-differential equations.*

18.25-18.55 **M. Plekhanova:** *Control problems for degenerate evolution equations in Banach spaces.*

Wednesday, September 17th

9.00-9.30 **J. Janno:** *Inverse problem for semilinear fractional parabolic equation with integral over-determination.*

9.35-10.05 **N. Okazawa:** *Identification problem for an elliptic problem in Hilbert space – new observation.*

10.10-10.40 **V. Fedorov:** *Fractional order degenerate evolution equations in Banach spaces.*

10.45-11.15 **Coffee break.**

11.15-11.45 **G. Marinoschi:** *Existence for a nonlinear diffusion problem with a singular diffusivity.*

11.50-12.20 **V. Vespri:** *Pointwise estimates for a class of degenerate/singular parabolic equations.*

12.25-12.55 **M. Choulli:** *Heat trace asymptotic and compactness of isospectral potentials for the Dirichlet Laplacian.*

13.00-14.30 **Lunch.**

14.30-15.00 **P. Cannarsa:** *Inverse problems for parabolic operators of Grushin type.*

15.05-15.35 **L. Rondi:** *High frequency asymptotics for direct and inverse scattering problems.*

15.40-16.10 **C. Pignotti:** *Exponential stability for abstract evolution equations with delay.*

16.15-16.40 **Coffee break.**

16.40-17.10 **G. Coclite:** *An evolutive optimal harvesting problem with measure valued solutions.*

17.15-17.45 **R. Guglielmi:** *Model predictive control for the Fokker-Plank equation.*

17.50-18.20 **G. Floridia:** *Global approximate controllability for a class of semilinear degenerate parabolic equations.*

Thursday, September 18th

9.00-9.30 **F. Alabau:** *Indirect observation and control of coupled systems.*

9.35-10.05 **V. Barbu:** *Self-organized criticality and evolution to equilibrium of nonlinear singular diffusion systems.*

10.10-10.40 **F. Ancona:** *Fractional order degenerate evolution equations in Banach spaces.*

10.45-11.15 **Coffee break.**

11.15-11.45 **D. Cassani:** *Direct and inverse problems related to MEMS.*

11.50-12.20 **G. Mola:** *On the identification of the diffusion coeffcient in a linear evolution equation in Hilbert spaces: a semigroup-theoretical approach.*

12.25-12.55 **F. Messina:** *Unique continuation and continuous dependence for a severely ill-posed integro-differential parabolic problem.*

13.00-14.30 **Lunch.**

14.30-15.00 **A. Lunardi:** *Maximal L^2 regularity for Kolmogorov equations in infinite dimensions.*

15.05-15.35 **A. Rhandi:** *Schrödinger type operators with unbounded diffusion and potential terms.*

15.40-16.10 **D. Pallara:** *Fractional operators: perimeters and related semilinear equations.*

16.15-16.40 **Coffee break.**

16.40-17.10 **A.L. Skubachevskii:** *Solvability of nonlocal problems for Vlasov-Poisson equations.*

17.15-17.45 **O. Solonukha:** *On some nonlinear elliptic functional differential equations.*

17.50-18.20 **I. Melnikova:** *New approaches to abstract stochastic problems.*

Friday, September 19th

9.00-9.30 **I. Vrabie:** *Nonlinear delay evolution inclusions with general nonlocal implicit initial conditions.*

9.35-10.05 **V. Romanov:** *On the determination of the coefficients in viscoelasticity equations.*

10.10-10.40 **D. Mugnai:** *Carleman estimates for degenerate non smooth parabolic problems.*

10.45-11.15 **Coffee break.**

11.15-11.45 **Y. Yakubov:** *Abstract Regge boundary value problem: maximal L_p-regularity and asymptotic behavior of eigenvalues.*

11.50-12.20 **A. Yagi:** *Convergence of solutions to a model for growing crystal surfaces in non smooth domains.*

12.25-12.40 **Closing.**