

**International Conference on
“PDEs and Semigroups in Applied Analysis”**

on the occasion of Jerry Goldstein’s 80th birthday

Bari, July 12-15, 2021

PROGRAM

Monday, July 12

**Aula Magna Aldo Cossu, Palazzo Ateneo
Università degli Studi di Bari Aldo Moro
Piazza Umberto I**

9.00-9:30 **Registration**

9.30-10:00 **Opening:**

- Prof. Stefano Bronzini, Magnifico Rettore dell’Università degli Studi di Bari Aldo Moro
- Prof.ssa Addolorata Salvatore, Direttore del Dipartimento di Matematica dell’Università degli Studi di Bari Aldo Moro

Chairwoman: *Silvia Romanelli*

10.00-10.25 **Gisèle R. Goldstein:** *Life, Love and Mathematics*

10.30-10.55 **Alain Miranville:** *The Cahn-Hilliard equation with a nonlinear source term*

11.00-11.30 *Coffee break*

11.30-11.55 **Delio Mugnolo:** *Random evolution equations on graphs and beyond*

12:00-12.25 **Alessandra Lunardi:** *On good semigroups in spaces of continuous functions*

12:30 *Lunch at “Dolce e Salato”*

Chairwoman: *Gisèle Goldstein*

14.30-14.55 **Matthias Hieber:** *The Primitive Equations on the Space $L^\infty(L^1)$: An Approach by Evolution Equations*

15.00-15.25 **Wolfgang Arendt:** *Semigroups: Continuous functions - no Hilbert space*

15.30-16.00 *Coffee break.*

16.00-16.25 **Hassan Emamirad:** *Time Fractional De Bruijn Identities in heat and Fokker-Plank Channels*

NOTE: The speakers with * will give their talk via Zoom

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Thursday, July 13

**Aula XI, Dipartimento di Matematica
Università degli Studi di Bari Aldo Moro**

Chairman: *Abdelaziz Rhandi*

10.00-10.25 **Giuseppe M. Coclite**: *Nonlocal evolution equations in Peridynamics*

10.30-10.55 **Edriss S. Titi***: *On two geophysical problems with vanishing parameter limit*

11.00-11.30 *Coffee break*

11.30-11.55 **Mustapha Mokhtar-Karroubi***: *Convergence rate to equilibrium for collisionless transport equations with diffuse boundary operators: A new tauberian approach*

12.00-12.25 **Ismail Kömbe***: *Weighted Hardy Type inequalities with Robin Boundary Conditions*

12.30 *Lunch at “Caffè Vergnano”*

Chairman: *Wolfgang Arendt*

14.30-14.55 **Ratnasingham Shivaji***: *A uniqueness result for infinite semipositone p -Laplacian problems in a ball*

15.00-15.25 **Gaston M. N’Guérékata***: *Almost periodic elliptic equations: sub- and super-solutions*

15.30-16.00 *Coffee break.*

16.00-16.25 **Glenn Webb***: *Modelling the Aqueous Transport of an Infectious Pathogen in Regional Communities: Application to the 2010 Cholera Outbreak in Haiti*

20.00 *Social Dinner at “Piccinni 28”*

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Wednesday, July 14

**Aula XI, Dipartimento di Matematica
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Chairman: *Alain Miranville*

10.00-10.25 **Giorgio Metafuno**: *L^p estimates for the Caffarelli-Silvestre extension operators*

10.30-10.55 **Luca Lorenzi***: *Stability and Hopf bifurcation at high Lewis number in a combustion model*

11.00-11.30 *Coffee break*

11.30-11.55 **Enrico Priola***: *A sharp regularity result for infinite dimensional Kolmogorov equations*

12.00-12.25 **Michel Pierre***: *An L^1 -walk in reaction-diffusion systems*

12.30 *Lunch at “Caffè Vergnano”*

Chairwoman: *Alessandra Lunardi*

14.30-14.55 **Sergio Polidoro**: *The Kolmogorov equation related to a stochastic process introduced by Geman and Yor*

15.00-15.25 **Vincenzo Vespri**: *Recent results about anisotropic operators*

15.30-16.00 *Coffee break.*

16.00-16.25 **Andrei&Aurora Breazna***: *TBA*

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PROGRAM

Thursday, July 15

**Aula XI, Dipartimento di Matematica
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Chairman: *Sergio Polidoro*

10.00-10.25 **Abdelaziz Rhandi**: *The Baras-Goldstein result and its several extensions*

10.30-10.55 **Adam Bobrowski***: *Robin boundary condition is complementary to Feller’s condition of sticky boundary*

11.00-11.30 *Coffee break*

11.30-11.55 **Yehuda Pinchover***: *Optimal Hardy inequalities for Schrödinger operators on graphs*

12.00-12.25 **Diego Pallara**: *Gradient estimates for perturbed Ornstein-Uhlenbeck semigroups in infinite dimensional convex sets*

12.30 *Lunch at “Caffè Vergnano”*

Chairwoman: *Anna Maria Candela*

14.30-14.55 **Fritz Gesztesy***: *Continuity properties of the spectral shift function for massless Dirac operators and an application to the Witten index*

15.00-15.25 **Silvia Romanelli**: *Ideas and highlights on the research with Jerry and Gisele Goldstein*

15.30-16.00 **Closing** and *Coffee break*.

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