

**Program of the 12th Euro-Maghrebian Workshop on Evolution Equations
and COST WG1-meeting**
Agadir – September, 12–16, 2022

Monday, September 12, 2022	
8:00 - 9:00	Opening
9:00 - 10:00	A. Lunardi : <i>Introduction to infinite dimensional analysis.</i>
10:00 - 10:30	Coffee break
10:30 - 11:15	M. Kunze : <i>The Bi-Laplacian with Wentzell boundary conditions on Lipschitz domains.</i>
11:20 - 11:40	S. Ferrari : <i>Logarithmic Harnack inequalities for transition semigroups in Hilbert spaces</i>
11:40 - 12:00	Y. Kharrou : <i>Admissible observation operators for non-autonomous linear systems.</i>
12:00 - 12:20	E. Mangino : <i>Generation of semigroups associated to strongly coupled elliptic operators in $L^p(\mathbb{R}^d, \mathbb{R}^m)$.</i>
Lunch	
14:30 - 15:30	C. Amrouche : <i>Elliptic Problems in Smooth and Non Smooth Domains.</i>
15:30 - 16:15	S. Monniaux : <i>The Keller-Segel Navier-Stokes system in Lipschitz domains; the case of critical spaces.</i>
16:15 - 16:45	Coffee break
16:45 - 17:05	M. Porfido : <i>General kernel estimates of schrödinger type operators with unbounded diffusion terms.</i>
17:05 - 17:25	A. Boulouz : <i>Feedback theory approach to positivity and stability of evolution equations.</i>
17:25 - 17:45	M. Elghandouri: <i>Approximation of mild solution of delay integro-differential equations on Banach spaces.</i>
17:45 - 18:05	C. Tacelli : <i>Fourth-order schrödinger type operator with unbounded coefficients in $L^2(\mathbb{R}^N)$</i>
18:05 - 18:25	J. Salhi : <i>Indirect exact boundary controllability of strongly coupled singular wave equations.</i>

Tuesday, September 13, 2022

9:00 - 10:00	C. Amrouche : <i>Elliptic Problems in Smooth and Non Smooth Domains.</i>
10:00 - 10:30	Coffee break
10:30 - 11:15	M. Egert : <i>Four Critical Numbers for Elliptic Systems with Block Structure.</i>
11:20 - 11:40	L. Angiuli : <i>Integral inequalities for generalised Mehler semigroups</i>
11:40 - 12:00	A. Afoukal : <i>Bohr-Neugebauer property for some nonautonomous linear partial functional differential equations.</i>
12:00 - 12:20	M. Moussi : <i>Local stable and local unstable manifolds for nonlinear boundary Cauchy problems</i>
Lunch	
14:30 - 15:30	A. Lunardi : <i>Introduction to infinite dimensional analysis.</i>
15:30 - 16:15	A. E. Kogoj : <i>Liouville-type theorems for Kolmogorov and Ornstein-Uhlenbeck operators</i>
16:15 - 16:45	Coffee break
16:45 - 17:05	O. Oubbih : <i>A class of nonlinear evolution equations with L^1 data for image processing.</i>
17:05 - 17:25	S. Boumasmoud : <i>Weak stabilization of wave equation with a sequence of delays.</i>
17:25 - 17:45	S. Monsurrò : <i>Exact controllability results for imperfect interface problems.</i>
17:45 - 18:05	M. Lasri : <i>Exact controllability of partial differential equations of neutral type</i>

Wednesday, September 14, 2022

9:00 - 10:00 S. Ervedoza : *An introduction to Carleman estimates for elliptic PDE*

10:00 - 10:30 Coffee break

10:30 - 11:15 N. Igbida: *On Prediction-Correction Model for Pedestrian Flow*

11:15 - 12:00 J. Banasiak : *Hyperbolic systems and equations on networks – recent results and open problems.*

12:00 - 12:45 L. Lorenzi : *On the Young equations*

Lunch

14:30 - Excursion

Thursday, September 15, 2022

9:00 - 10:00	A. Lunardi : <i>Introduction to infinite dimensional analysis.</i>
10:00 - 10:30	Coffee break
10:30 - 11:15	N. Boussaid: <i>Construction of propagators for quantum bilinear control problems.</i>
11:20 - 11:40	H. El Baggari : <i>Carleman commutator approach in logarithmic convexity for heat equations with an inverse square potential subject to dynamic boundary conditions.</i>
11:40 - 12:00	Samir Mouchid : <i>A statistical study of the chaotic behavior in linear continuous dynamics.</i>
12:00 - 12:20	L. Lamberti : <i>Regularity results for an optimal design problem with lower order terms.</i>
Lunch	
14:30 - 15:30	S. Ervedoza : <i>An introduction to Carleman estimates for elliptic PDE.</i>
15:30 - 16:15	M. Veraar: <i>Stochastic partial differential equations in critical spaces</i>
16:15 - 16:45	Coffee break
16:45 - 17:05	M. Fkerine : <i>Staffans-Weiss perturbations for linear stochastic Cauchy problems in Hilbert space</i>
17:05 - 17:25	D. Addona: <i>On weakly coupled systems of Kolmogorov equations.</i>
17:25 - 17:45	D.A. Bignamini : <i>A probabilistic approach to Schauder regularity results in infinite dimension.</i>
17:45 - 18:05	M. Fadili : <i>Controllability of two stochastic backward parabolic heat equations coupled by their second state variable under one control force</i>
18:05 - 18:25	M. Achehboune : <i>From ordinary product integral to product integral in the Lebesgue sense and application to evolution problems.</i>

Friday, September 16, 2022

9:00 - 10:00	C. Amrouche : <i>Elliptic Problems in Smooth and Non Smooth Domains</i>
10:00 - 10:30	Coffee break
10:30 - 11:30	S. Ervedoza : <i>An introduction to Carleman estimates for elliptic PDE.</i>
11:30 - 12:15	K. Ezzinbi : <i>Almost automorphic solutions for some evolution equations through the minimizing for some subvariant functional, applications to heat and wave equations with nonlinearities.</i>
12:15 - 13:00	Round table : <i>Report of the WG1 meeting, discussions and future collaborations.</i>

Lunch