
The Second Mathematical Conference in
Kairouan (J M K 2)
4–5–6 November–2010 / Continental Hotel

PDE and Applications: Spectral Theory–Control Theory–Inverse Problems

1 Detailed Conference Program

Thursday 4 November 2010

PLENARY CONFERENCES

9–9:30	OPENING SESSION
	Chairman: A. HARAUX
9:30–10:10	A. BAHRI <i>Homologie de Contact</i>
10:10–10:50	B. PERTHAME <i>Concentrations and darwinian evolution</i>
10:50–11:20	TEA / COFFEE BREAK
	Chairman: N. BURQ
11:20–11:50	A. BISWAS <i>Soliton perturbation theory for nonlinear wave equations</i>
11:50–12:20	K. EZZINBI <i>Solutions périodiques des modèles issus de la dynamique des populations</i>
12:20–12:50	E. KRISHNAN <i>Applications of lame functions to solve nonlinear evolution equations</i>
12:50–14:30	LUNCH

SESSIONS

	First Session: Spectral Theory	Second Session: PDE and Applications
	Chairman : R. ASSEL	Chairman : K. EZZINBI
14:30–15	O. OLENSKI <i>Localization and spectral properties of the Dirichlet spatial quantum waveguide with two concentric Neumann discs</i>	H. TRIKI <i>Dark soliton solutions for higher order nonlinear Schrödinger equations with time dependent coefficients</i>
15–15:30	P. SIEGL <i>PT-symmetric models in curved manifolds</i>	Y. NASRI <i>Existence results for a class of singular elliptic system</i>
15:30–16	D. VOROTNIKOV <i>The flashing ratchet and transport of matter</i>	M. ABDELLI <i>Energy Decay of solutions of a degenerate of Kirchoff equation with a weak nonlinear dissipation</i>
16–16:30	TEA/ COFFEE BREAK	TEA/ COFFEE BREAK

Thursday 4 November 2010

SHORT TALKS

	Chairman : M. KHENISSI
16:30–16:50	O. REBEY <i>Existence of solutions in the alpha-norm for partial differential equations of neutral type with delay</i>
16:50–17:10	S. GHNIMI Existence and regularity of solutions for neutral partial functional integrodifferential equations
17:10–17:30	S. MADI <i>Error estimates for a system of quasi-variational inequality with nonlinear source terms</i>
17:30–17:50	M. OULD ALI <i>Stability of closed range operators in Hilbert space</i>
17:50–18:10	K. AL ZOUKRA <i>The inverse problem of non-invasive detection of hemodynamic parameters</i>
18:10–18:30	S. BEN ABDELJEILIL <i>Matrice de scattering associée à l'opérateur de Schrödinger matriciel unidimensionnel</i>
18:30–18:50	L. DJEMAOUNE <i>Convergence monotone de la méthode de Schwarz pour un système d'inéquations quasi-variationnelles</i>

Friday 5 November 2010

PLENARY CONFERENCES

	Chairman: V. GEORGESCU
8:30–9:10	N. MINAMI <i>Statistics for the unfolded spectrum of lattice Anderson models</i>
9:10–9:50	F. KLOPP <i>Gaussian exponential sums</i>
9:50–10:30	P. STOLLMANN <i>Compactness of Schrödinger semigroups</i>
10:30–11	TEA / COFFEE BREAK
	Chairman: K. AMMARI
11–11:30	F. HERAU <i>Anisotropic hypoelliptic estimates for Landau-type operators</i>
11:30–12	K. CHAUDRY <i>Exact solutions of the Zakharov-Kuznetsov modified equal width equation with power law nonlinearity</i>
12–12:30	L. BOUDJENAH <i>Optimal Control of nonlinear time delay system</i>
12:30–13	M. BEN AYED <i>Fourth order mean field equation</i>
13–14:30	LUNCH
15—	FREE DISCUSSION / EXCURSION

Saturday 6 November 2010

PLENARY CONFERENCES

	Chairman: M.A. JENDOUBI
8:30–9:10	A. HARAUX <i>Slow and fast decaying solutions to some nonlinear ODE</i>
9:10–9:50	N. BURQ <i>Probabilistic Cauchy theory for dispersive PDE's: the example of the cubic non linear wave equation</i>
9:50–10:30	G. VODEV <i>Boundary stabilization of transmission problems</i>
10:30–11	TEA / COFFEE BREAK
	Chairman: A. BOUTET DE MONEVL
11–11:30	P. BRIET <i>Diamagnetic response for a quasi perfect quantum gaz</i>
11:30–12	F. NAKANO <i>Distribution of eigenfunctions in the Anderson model</i>
12–12:30	H. KOVARIK <i>Heat kernel estimates for two-dimensional magnetic Schroedinger operators.</i>
12:30–14:30	LUNCH

SESSIONS

	First Session: Spectral Theory	Second Session: PDE and Applications
	Chairman : P. STOLLMANN	Chairman : S. KERAANI
14:30–15	S. FUJIE <i>Width of semiclassical resonances assciated with homoclinic orbits</i>	A. LORZ <i>Dirac mass dynamics in a multidimensional nonlocal parabolic equation</i>
15–15:30	H. MEGDICHE <i>A compactness result for perturbed semigroups and application to a transport model</i>	M. MORANDOTTI <i>An existence and uniqueness result for the motion of self-propelled micro-swimmers</i>
15:30–16	TEA / COFFEE BREAK	TEA / COFFEE BREAK
16–	SOME OPEN PROBLEMS BY A. BAHRI	