

**Programme of the Conference  
 "Partial Differential Equations and Applications",  
 Ferrara, March 31-April 3, 2005  
 Aula Magna, Department of Mathematics**

**Thursday, March, 31, 2005**

<b>Time</b>	<b>Speaker</b>	<b>Title of the conference</b>
9.00-9.40	Registration	
9.40-10.20	J. RAUCH	Intuitive and counterintuitive energy flux
10.20-11.00	J. BONET	Large surjective convolution operators on vector valued distributions
11.00-11.30	Coffee break	
11.30-12.10	M. DERRIDJ	Subellipticity for some systems of complex vector fields
12.10-12.50	M. NACINOVICH	A weak notion of pseudoconvexity for the tangential Cauchy-Riemann system
12.50-15.00	Lunch	
15.00-15.40	R. FINN	Compressible liquids in a capillary tube
15.40-16.20	M. CICOGNANI	Well-posedness for a class of degenerate hyperbolic Cauchy problems
16.20-16.40	A. ASCANELLI	Fundamental solution and propagation of singularities in some degenerate hyperbolic Cauchy problems
16.40-17.10	Coffee break	
17.10-17.50	K. PILECKAS	Nonstationary Poiseuille flow and the solvability of Navier-Stokes system in a domain with cylindrical outlets to infinity
17.50-18.30	A. ALBANESE	Cores for elliptic differential operators with unbounded coefficients on $R^N$ and invariant measures

**Friday, April, 1, 2005**

<b>Time</b>	<b>Speaker</b>	<b>Title of the conference</b>
9.00-9.40	D. S. TARTAKOFF	Why analyticity for PDE's? And where?
9.40-10.20	D. VOGT	Splitting of differential complexes
10.20-11.00	F. COLOMBINI	Nonnegative functions as squares or sums of squares
11.00-11.30	Coffee break	
11.30-12.10	L. RODINO	Exponential decay for solutions of globally elliptic equations
12.10-12.50	G. ZAMPIERI	An innovative use of Kobayashi metric in integral geometry
12.50-15.00	Lunch	
15.00-15.40	C. SIMADER	Necessary and sufficient conditions for the solvability of the equation $div \underline{w} = p(\underline{w} \in W_0^{1,2}(R^m)^m, m \geq 1)$
15.40-16.20	M. REISSIG	$L_p - L_q$ decay estimates for wave equations with bounded time-dependent coefficients.
16.20-16.40	M. CAPPIELLO	Subexponential decay and regularity for hypoelliptic operators
16.40-17.10	Coffee break	
17.10-17.50	A. CORLI	The operator splitting method: nonlinear hyperbolic balance laws and a generalization of Trotter-Kato formulas
17.50-18.30	A. D'AGNOLO	Holonomic systems on symplectic manifolds
19.00- ...	Concert	

**Saturday, April, 2, 2005**

<b>Time</b>	<b>Speaker</b>	<b>Title of the conference</b>
9.00-9.40	J. F. RODRIGUES	Kinetic models for chemotaxis with threshold
9.40-10.20	V. A. SOLONNIKOV	Schauder estimates for evolution generalized Stokes problem
10.20-11.00	S. SPAGNOLO	A regularity result for nonlinear weakly hyperbolic systems
11.00-11.30	Coffee break	
11.30-12.10	A. PARMEGGIANI	On the hypoellipticity with a big loss of derivatives
12.10-12.50	P. POPIVANOV	A link between local solvability and partial analyticity
12.50-15.00	Lunch	
15.00-15.40	M. CHIPOT	Asymptotic analysis of eigenvalue problems
15.40-16.20	J. VAILLANT	Symmetrization of complex hyperbolic systems and reduced dimension
16.20-16.40	XIE YITIAN	On some Liouville type problems
16.40-17.10	Coffee break	
17.10-17.50	R. AGLIARDI	Some applications of a closed-form solution for N-fold compound options
17.50-18.30	J. R. KWEON	The evolutionary compressible Navier-Stokes system on polygonal domains
20.30- ...	Social dinner	

**Sunday, April, 3, 2005**

<b>Time</b>	<b>Speaker</b>	<b>Title of the conference</b>
9.00-9.40	K. KAJITANI	Uniform decay of solutions for wave equations in the exterior domain
9.40-10.20	R. MEISE	Hörmander's local Phragmén-Lindelöf principle for surfaces in $C^N$ characterized by hyperbolicity conditions
10.20-11.00	M. GUIDORZI	Some existence and regularity results for non convex variational problems
11.00-11.30	Coffee break	
11.30-12.10	B. KELLOGG	Corner singularities for the stationary compressible Navier-Stokes system
12.10-12.50	R. MANFRIN	On the global solvability of Kirchhoff equation for non analytic data