

**XVII ENCONTRO NACIONAL DE ANÁLISE MATEMÁTICA E APLICAÇÕES**  
**06 a 08 de NOVEMBRO de 2024**  
**CBAE-UFRJ (Av. Ruy Barbosa, 762, Flamengo, Rio de Janeiro)**

06/11/2024 - QUARTA-FEIRA		07/11/2024 – QUINTA-FEIRA	08/11/2024 – SEXTA-FEIRA
<b>Abertura (09:00-09:30)</b>		Gui-Qiang Chen Minicurso 1 <b>09:00-10:00</b>	Enrique Zuazua Minicurso 3 <b>09:00-10:00</b>
Gui-Qiang Chen Minicurso 1 <b>09:30-10:30</b>		Giovanni Alberti Minicurso 2 <b>10:00-10:40</b>	Giovanni Alberti Minicurso 2 <b>10:00-10:40</b>
<b>Intervalo 10:30-10:50</b>		<b>Intervalo 10:40-11:00</b>	<b>Intervalo 10:40-11:00</b>
Giovanni Alberti Minicurso 2 <b>10:50-11:30</b>		Liliane Maia Plenária 1 <b>11:00-12:00</b>	Daniela Vieira Plenária 2 <b>11:00-12:00</b>
Enrique Zuazua Minicurso 3 <b>11:30-12:20</b>			
<b>12:20-14:00</b>		<b>12:00-13:40</b>	<b>12:00-14:00</b>
Comunicações Orais <b>14:00-16:00</b>		Comunicações Orais <b>13:40-16:00</b>	Comunicações Orais <b>14:00-15:40</b>
<b>Intervalo 16:00-16:30</b>		<b>Intervalo 16:00-16:30</b>	<b>Encerramento 15:45-16:15</b>
Comunicações Orais <b>16:30-18:30</b>		Postêres <b>16:30-17:30</b> Comunicações Orais <b>17:30-18:30</b>	

**Todas as atividades do período da manhã acontecerão no Salão Nobre (1º andar).**

**Quarta-feira – 06 de novembro de 2024**

**14:00-16:00**

<b>Salão Nobre (1º. andar) - EDP-Evolução I</b>		<b>Sala 01 - EDP-Elíptica I</b>
<b>Haroldo Clark (coordenador)</b>		<b>Edcarlos Silva (coordenador)</b>
<b>14:00–14:20</b>	Decay rates for a weakly damped coupled wave equations in $R^n$ <b>Cleverson R. da Luz</b>	Existence of positive and nonnegative eigenfunctions for a fourth order operator with definite and indefinite weights <b>J. Pablo Pinheiro da Silva</b>
<b>14:20 – 14:40</b>	On the linear growth of the mixing zone in a semi-discrete model of incompressible porous medium (IPM) equation <b>Yulia Petrova</b>	Stein-Weiss problems via nonlinear Rayleigh quotient for concave-convex nonlinearities <b>Edcarlos D. da Silva</b>
<b>14:40 – 15:00</b>	Application of the semigroup theory to a combustion problem in a multi-layer porous medium <b>Alysson Cunha</b>	Bifurcation points in free boundary CMC immersions families <b>Carlos W. Rodríguez Cárdenas</b>
<b>15:00 – 15:20</b>	Semiclassical homogenization of the wave equation with oscillating coefficient and localized initial perturbation <b>Sergey Sergeev</b>	Asymptotics for Sobolev extremals: the hyperdiffusive case <b>Grey Ercole</b>
<b>15:20 – 15:40</b>	Existence and stability of pullback exponential attractors for a nonautonomous semilinear evolution equation of second order <b>Arthur C. Cunha</b>	On a planar equation involving $(2,q)$ -Laplacian with zero mass and Trudinger-Moser nonlinearity <b>J. Anderson Cardoso</b>
<b>15:40 – 16:00</b>	On existence of solution for a thermoelastic beam model <b>Cleyton N. L. de C. Cunha</b>	
<b>16:00-16:30 Café – Sala 3 - Espaço de Convivência</b>		

**Quarta-feira – 06 de novembro de 2024**

**16:30-18:30**

<b>Salão Nobre (1º. andar) - EDP-Evolução II</b>		<b>Sala 01 - Análise I</b>
<b>Geraldo Araújo (coordenador)</b>		<b>Vinicius Fávoro (coordenador)</b>
<b>16:30 – 16:50</b>	Local well-posedness and spatial regularity to a non-autonomous strongly damped plate equation with a nonlinear memory term <b>Bruno de Andrade Santos</b>	New Banach lattices of homogeneous polynomials <b>Geraldo Botelho</b>
<b>16:50 – 17:10</b>	Existence of solutions for a logarithmically damped wave equation <b>Luis Gustavo Longen</b>	Banach lattices of linear operators and of homogeneous polynomials not containing $c_0$ <b>Vinicius Miranda</b>
<b>17:10 – 17:30</b>	Stability analysis of a partially damped suspension bridge by friction <b>Luiz G. R. Miranda</b>	Dual right $\lambda$ -compact operators <b>Ariosvaldo Jatobá</b>
<b>17:30 – 17:50</b>	Fast energy decay for damped wave equation with potential and rotational inertia terms <b>Ruy Coimbra Charão</b>	Zero sets of homogeneous polynomials containing infinite dimensional spaces <b>Mikaela Aires</b>
<b>17:50 – 18:10</b>	Nonlinear diffusion equation involving $p(b(u))$ -Laplacian-like operator <b>Eugenio Cabanillas Lapa</b>	Distributional chaos for convolution operators on $H(\mathbb{C}N)$ <b>João Victor Araújo Pinto</b>
<b>18:10 – 18:30</b>	Dynamics for a plate model with degenerate nonlocal strong energy damping <b>Vando Narciso</b>	

**Quinta-feira – 07 de novembro de 2024**  
**13:40-16:00**

<b>Salão Nobre (1º andar) - EDP-Evolução III</b>		<b>Sala 1 - Análise II</b>
<b>Bruno de Andrade (coordenador)</b>		<b>Joedson Santos (coordenador)</b>
<b>13:40 – 14:00</b>	Homogenization of the wave equation in the non-divergent form in the whole space with inhomogeneous media <b>Sergey Sergeev</b>	Shadowing of operators on locally convex spaces <b>Vinicius Fávaro</b>
<b>14:00 – 14:20</b>	Uniqueness of entropy solution for double nonlinear isotropic degenerate fractional parabolic problem <b>Gerardo J. Huaroto Cardenas</b>	Cauchy sequences in vector spaces embedded in quasilinear spaces: the case of the fuzzy numbers <b>Beatriz Laiate</b>
<b>14:20 – 14:40</b>	Carleman inequality for a class of super strong degenerate parabolic operators and applications <b>Bruno S. V. de Araújo</b>	On B-classes and coincidence results in operator theory <b>Luiz Felipe de P. Sousa</b>
<b>14:40 – 15:00</b>	Carleman estimates for parabolic equations with super Strong degeneracy in a set of positive measure <b>Luiz A. Viana da Silva</b>	Injective type norms and integral bilinear forms defined by sequence classes <b>Jamilson Campos</b>
<b>15:00 – 15:20</b>	Boundary null controllability of degenerate wave equation as the limit of internal controllability <b>Reginaldo Demarque da Rocha</b>	A sufficient condition for a twisted G-sum of two GTop-Banach spaces to be a GTop-Banach space <b>Denis Garcia</b>
<b>15:20 – 15:40</b>	Sharp regularity estimates for degenerate evolution problems in orlicz spaces <b>Janielly Gonçalves Araújo</b>	
<b>15:40 – 16:00</b>	An estimate for $\lim_{t \rightarrow \infty} \ u(\cdot, t)\ _{L^p}$ <b>Patrícia L. Guidolin</b>	
<b>16:00-16:30 Café – Sala 3 - Espaço de Convivência</b>		

**Quinta-Feira – 07 de novembro de 2024**  
**13:40-16:00**

<b>Salão Nobre (2º andar) - EDO-EDF-EDI</b>	
<b>Coordenador - Fernanda Andrade</b>	
<b>13:40 – 14:00</b>	Existence of a positive solution to a second-order nonlinear problem with mixed boundary conditions: a superlinear case <b>Adriano Peixoto</b>
<b>14:00 – 14:20</b>	A Mathematical Model of HIV/AIDS Spread in Child and Adult Population <b>Juan F. Pacazuca Santiago</b>
<b>14:20 – 14:40</b>	Decreasing and exponential stability for generalized ordinary differential equations <b>Eduard Toon</b>
<b>14:40 – 15:00</b>	On Stochastic Stabilization via control Lyapunov functionals <b>Fernanda Andrade da Silva</b>
<b>15:00 – 15:20</b>	Periodic solutions of the second order dynamic equations on time scales and applications <b>Mario Choquehuanca</b>
<b>15:20 – 15:40</b>	Measure neutral functional differential equations with infinite delay <b>Patricia Hilario Tacuri Cordova</b>
<b>15:40 – 16:00</b>	Oxygen diffusion model in a cell described using a fractional operator <b>Sandro Rodrigues Mazorche</b>
<b>16:00-16:30 Café – Sala 3 - Espaço de Convivência</b>	

## Sessão de Pôsteres - Hall do Prédio CBAE

Quinta-Feria, 07 de novembro de 2024  
16:30-17:30

Henstock Kurzweil Integral and Applications **Aryel Kathleen Araújo Silva**

Finite element simulations of non-linear vibrations of a membrane. **Rodrigo S. Negreiros**

A theoretical Lagrangian-Eulerian formulation for a non-local traffic model **Victor Lohan S. Araujo**

Positive solutions for a Kirchhoff-type problem with critical growth **Eduardo D. Lima**

An asymptotically linear problem via Pankov manifolds on cones **Marcos R. P. Araújo**

Orbital stability of kink-type waves for a defocusing nonlinear Schrödinger model **Carlos Juarez**

Error analysis of oberbeck-boussinesq model by finite element approximation for spatial discretization  
**Jonathan Patricio Bravo Olivares**

Suspension bridge with Kelvin-Voigt damping **Leandro Correia Araújo**

Existence of a local solution for a thermoelastic plate model with an unbounded domain **Luis Jorge Souza dos Anjos**

How to Approximate the Kirchhoff Equation with Dirichlet Condition by NonLocal Diffusion Problem with Smooth Kernels **Luiza Camile Rosa da Silva**

Fractional diffusion-wave equations with critical nonlinearity in Lebesgue spaces **Masterson Falcão de Moraes Costa**

Fine structure properties of entropy solutions for scalar conservation laws **Nicolas Danielski Silva**

Suspension bridge with internal damping of fractional derivative type **Rafael Oliveira de Jesus**

The study of compressible euler equations in two spatial variables for non-potential flows, and an analysis of the pseudo-subsonic regime in the potential case **Talita Ribeiro de Souza Mello**

**Quinta-feira – 07 de novembro de 2024**  
17:30-19:30

<b>Salão Nobre (1º andar) EDP- Evolução IV</b>		<b>Sala 1 - Análise III</b>
<b>Haroldo Clark (coordenador)</b>		<b>Geraldo Botelho (coordenador)</b>
17:30 – 17:50	Mild Solutions in one the fractional Navier-Stokes-Coriolis equation in Morrey spaces <b>Éder Mateus</b>	Spear vectors in spaces of m-homogeneous polynomials <b>Elisa Santos</b>
17:50– 18:10	On a coupled system of the Navier Stokes Voigt type <b>Geraldo Mendes de Araujo</b>	A search for convergence: series in non-linear environments <b>Geivison Ribeiro</b>
18:10 – 18:30	Rapid boundary stabilization of the longitudinal vibrations of a bar <b>Manuel Milla Miranda</b>	Spaceability of quasi-Banach operators multi-ideals <b>Nacib Albuquerque</b>
18:30 – 18:50	Suspension bridge in von Kármán theory <b>Roseane Martins</b>	Hamilton-Jacobi-Bellman Equation for Optimal Control Problems with Uncertainty <b>Oscar Fonseca</b>
18:50 – 19:10	Existence and asymptotic properties for a generalized linear evolution equation under effects of a logarithmic type dissipation <b>Félix P. Quispe Gomez</b>	On compact sets of $c_0$ -sum spaces <b>Thiago Grandio</b>
19:10 - 19:30	Bi-parameter pathwise-probability-expectation robustness of random attractors for nonautonomous stochastic Lamé systems on unbounded domains <b>Mirelson M. Freitas</b>	
<b>20:00h Jantar por Adesão – Churrascaria Majórica – Rua Senador Vergueiro, 11, Flamengo</b>		

**Quinta-Feira – 7 de novembro de 2024**  
17:30-19:30

<b>Salão Nobre (2º andar) - EDP-Elíptica II</b>	
<b>Willian Cintra (coordenador)</b>	
17:30 – 17:50	Sharp point-wise behavior of the positive solutions of a class of degenerate non-local elliptic BVP's <b>Willian Cintra</b>
17:50– 18:10	Variable Supercritical Schrödinger-Poisson system with singular term <b>Jeferson C. Silva</b>
18:10 – 18:30	Existence, non-existence and degeneracy of solutions p-Laplace problems involving Hardy potentials as $p \rightarrow 1^+$ <b>Juan Carlos Ortiz Chata</b>
18:30 – 18:50	Existence and Multiplicity of solutions for a class of Dirac equations <b>Romildo N. de Lima</b>
18:50 – 19:10	Nonlocal quasilinear elliptic problems on in bounded domains <b>Thiago Cavalcante</b>
19:10 – 19:30	
<b>20:00h Jantar por Adesão – Churrascaria Majórica – Rua Senador Vergueiro, 11, Flamengo</b>	

<b>Sexta-feira – 08 de novembro de 2024</b> <b>14:00-15:40</b>		
<b>Salão Nobre (1º andar) - EDP-Evolução V</b>		<b>Sala 1 - EDP-Elíptica III</b>
<b>Éder Mateus (coordenador)</b>		<b>Alessio Fiscella (coordenador)</b>
<b>14:00–14:20</b>	Refined decay rates of $C_0$ -semigroups on Banach spaces <b>Genilson Soares de Santana</b>	The Method of the Nehari manifold on cones <b>João Rodrigues dos S. Júnior</b>
<b>14:20 – 14:40</b>	On the existence of stationary vortex patches for the gSQG in bounded domains <b>Vladimir Angulo Castillo</b>	The effect of a perturbation on Brezis Nirenberg’s problem <b>Luiz F. de O. Faria</b>
<b>14:40 – 15:00</b>	Existence of stationary vortex patches for the gSQG in bounded domains <b>Edison Cuba</b>	A nonlocal equation of $p(u)$ -laplacian type <b>Gabriel Rodríguez V.</b>
<b>15:00 – 15:20</b>	Mean first-passage time in diffusion with stochastic resetting with alternating boundaries <b>Telles Timoteo da Silva</b>	Critical double phase equations in $\mathbb{R}^N$ with logarithmic nonlinearities <b>Alessio Fiscella</b>
<b>15:20 – 15:40</b>	Free boundary and rattling patterns in parabolic equations with hysteresis <b>Sergey Tikhomirov</b>	On a nonlinear problem for $p(u)$ -Laplacian-like operators with nonlinear gradient term <b>Willy Barahona M.</b>
<b>15:45-16:15 Encerramento – Salão Nobre (1º Andar)</b>		

<b>Sexta-Feira – 8 de novembro de 2024</b> <b>14:00-15:40</b>		
<b>Salão Nobre (2º andar) – Análise Numérica</b>		
<b>Sandra Malta (coordenador)</b>		
<b>14:00–14:20</b>	Numerical analysis of the Maxwell-Cattaneo-Vernotte nonlinear model, <b>Anderson Ramos</b>	
<b>14:20 – 14:40</b>	On primal hybrid formulations for the approximation of nearly-incompressible linear elasticity problems, <b>Giovanni Taraschi</b>	
<b>14:40 – 15:00</b>	State feedback as a strategy for COVID-19 control and analysis, <b>Leonardo R. S. Rodrigues</b>	
<b>15:00 – 15:20</b>	Numerical simulation of a Bresse-Timoshenko system with thermoelasticity of type III, <b>Rodrigo L. R. Madureira</b>	
<b>15:20 – 15:40</b>		
<b>15:40 – 16:00</b>		
<b>15:45-16:15 Encerramento – Salão Nobre (1º andar)</b>		