

XV ENCONTRO NACIONAL DE ANÁLISE MATEMÁTICA E APLICAÇÕES
09 a 11 de NOVEMBRO de 2022
IME-USP

	Horário	Quarta-feira 9.11.2022		Horário	Quinta-feira 10.11.2022	Sexta-feira 11.11.2022
Auditório Geografia	8h30 - 9h30	Abertura		9h00 - 10h00	J. S. dos Santos Plenária	G. Planas Plenária
	9h30 - 10h30	J. Angulo Plenária		10h00 - 10h30	Apresentação Pôsteres (todos)	Apresentação Pôsteres (todos)
	10h30 - 11h00	Café Hall AG		10h30 - 11h00	Café Hall AG	Café Hall AG
	11h00 - 12h00	P. Amster Minicurso		11h00 - 12h00	U. Darji Minicurso	U. Darji Minicurso
	12h00 - 13h00	L. Barichello Minicurso		12h00 - 13h00	L. Barichello Minicurso	P. Amster Minicurso
	13h00 - 14h30	Almoço		13h00 - 14h30	Almoço	Almoço
Auditórios do IME Jacy Santos Antonio Gilioli	14h30 - 16h30	Sessões Orais Evolução, Elíptica		14h30 - 16h30	Sessões Orais Análise, Evolução, Elíptica	Sessões Orais Análise, Elíptica
	16h30 - 17h00	Café		16h30 - 17h00	Café	Encerramento
	17h00 - 19h20	Sessões Orais Evolução, EDO-EDF		17h00 - 19h00	Sessões Orais Análise, Evolução	

As atividades da manhã (plenárias, minicursos e sessão de pôsteres vão ocorrer no Auditório da Geografia “Milton Santos” (Av. Prof. Lineu Prestes, 338) e à tarde as sessões de comunicações orais serão nas dependências do IME-USP (Rua do Matão, 1010).

PLENÁRIAS:

Joedson S. dos Santos (UFPB) – Algumas técnicas em análise não-linear

Jaime Angulo Pava (IME-USP) – Dynamic of soliton-profiles for dispersive equation on metric graphics

Gabriela Planas (UNICAMP) - On the alpha-Navier-Stokes-Vlasov and the alpha-Navier-Stokes-Vlasov-Fokker-Planck equations

MINICURSOS:

Pablo Amster (UBA, Argentina) – Topological methods in the study of boundary value problems

Udayan Darji (University of Louisville, USA) – Analysis and linear dynamics

Liliane Barichello (UFRGS) – Recent studies on benchmark solutions to the linear Boltzmann equation

Quarta-feira – 09 de novembro de 2022 IME-USP			
Auditório Jacy Monteiro - Bloco B – Térreo (EDP-Evolução)		Auditório Antonio Gilioli - Bloco A - 2o andar (EDP-Elíptica)	
Haroldo Clark (coordenador)		Gaetano Siciliano (coordenador)	
14:30 – 14:50	Juliana S. Ziebell, A comparison principle for p-Laplacian evolution type equation	Edcarlos Domingos Silva, Superlinear fractional elliptic problems via the nonlinear Rayleigh quotient	
14:50 – 15:10	Nataliia Goloshchapova, Dynamical and variational properties of NLS-0s equation on the star graph	Flávio A. Lemos, The extremal problem for Sobolev inequalities with upper order remainder terms	
15:10 – 15:30	Eugenio Cabanillas Lapa, Global existence of Solutions to a nonlocal $(\cdot)$ -Laplace equations term and nonlinear boundary conditions	Matheus F. Stapenhorst, Log-singular elliptic equations in the plane with nonlinearities of exponential growth	
15:30 – 15:50	Geraldo de Araújo, On the variational inequality for a Beam non linear equation	Luís Salge, Spectrum of differential operators with elliptic adjoint on a scale of localized Sobolev spaces	
15:50 - 16:10	Halit Sevki Aslan, Semilinear effectively damped wave models with general relaxation functions	Thiago R. Cavalcante, Fourth-order superlinear elliptic problems interacting with high eigenvalues	
16:10 - 16:30	Juan Amadeo Soriano Palomino, Estabilização de um sistema de Bresse termoelástico com dissipação não linear na fronteira		
16:30-17:00 Café - Auditório Jacy Monteiro - Bloco B – Térreo			
Auditório Jacy Monteiro - Bloco B – Térreo (EDP-Evolução)		Auditório Antonio Gilioli - Bloco A - 2o andar (EDO-EDF)	
Haroldo Clark (coordenador)		Márcia Federson (coordenador)	
17:00 – 17:20	Luciano C. da Silva, Hierarchical exact controllability of hyperbolic equations with boundary controls	Andressa da Silva, Damage identification in Kirchhoff plate based on the topological derivative method	
17:20 – 17:40	Ricardo Fuentes, Controle dinâmico na fronteira para um problema não linear	Antonio dos Santos, Converse Lyapunov theorems for regular stability for linear generalized ODEs	
17:40 – 18:00	Pammella Queiroz-Souza, Controllability of semilinear systems for beams	Fernanda da Silva, Existence and uniqueness for solutions of linear dynamic equations with Perron Delta-integrals	
18:00 – 18:20	Juliana Honda Lopes, Nonhomogeneous cell-fluid Navier-Stokes model with inclusion of chemotaxis	Larissa Sartori, Time-scale analysis for a host-vector transmission model including spatial dynamics	
18:20 – 18:40	Paulo Amorim, Predator-prey dynamics with hunger structure	Luciano Magrini, A modified SEAIR model with vaccination using functional differential equations with constant delays for Covid-19 spread	
18:40 – 19:00	Valter Moitinho, Blow-up for a β -1d supercritical transport equation	Omar Guzman, Bifurcation points for functional Volterra Stieltjes integral equations	
19:00 – 19:20		Jaqueline Mesquita, Periodicity on isolated time scales	

Quinta-feira – 10 de novembro de 2022 IME-USP		
Auditório Jacy Monteiro - Bloco B - Térreo (EDP-Evolução)		Auditório Antonio Gilioli - Bloco A - 2o andar (Análise)
Geraldo de Araújo (coordenador)		Thiago Grando (coordenador)
14:30 – 14:50	Ruy Coimbra Charão , The wave equation under effects of logarithmic-Laplacian dispersion with strong damping	Marcos S. Ferreira , A characterization for complex symmetric Toeplitz operator on the Hardy space over disk
14:50 – 15:10	Wanderley Nunes do Nascimento , A note on the critical exponent of a semilinear evolution equations with effective scale-invariant time-dependent dissipation	Ben Hur Eidt , A composition operator approach to the invariant subspace problem
15:10 – 15:30	Haroldo R. Clark , Remarks on thin quasilinear plates with mixed boundary conditions	Orlando Stanley Juriaans , Fixed point theorems for generalized functions
15:30 – 15:50	Pedro T. P. Lopes , On the regularity of a semilinear heat equation with dynamic boundary conditions	Charles Santos , Densidade e ortogonalidade em H^2 e zeros da função zeta de Riemann
15:50 – 16:10	Isnaldo Isaac Barbosa , Sobre o problema de Cauchy para o sistema com três equações de Schrodinger com não-linearidade quadrática	Victor S. Ronchim , Operator extension on totally ordered compacta
16:10 – 16:30	Isnaldo Isaac Barbosa , Continuação única para o problema de Cauchy de interações não-lineares do tipo Schrodinger	Tiago Picon , Inhomogeneous cancellation conditions and Calderón-Zygmund type operators on $h^p(\mathbb{R}^n)$
16:30-17:00 Café - Auditório Jacy Monteiro - Bloco B – Térreo		

Quinta-feira – 10 de novembro de 2022 IME-USP	
Sala Nobre B-144 - Bloco B – 1º andar (EDP-Elíptica)	
Patrícia Cunha (coordenador)	
14:30 – 14:50	Augusto C. R. Costa, Existence of positive solutions for a critical nonlocal elliptic system
14:50– 15:10	Gaetano Siciliano, Existence of critical points at prescribed energy levels for a class of functionals
15:10 – 15:30	Luiz Faria, Existence and asymptotic behavior of solutions for a supercritical nonlinear Schrödinger equation
15:30 – 15:50	Ronaldo B. Assunção, Existence result for fractional p-laplacian problem with multiple nonlinearities and Hardy potential
15:50 – 16:10	
16:10 – 16:30	
16:30-17:00 Café - Auditório Jacy Monteiro - Bloco B – Térreo	

Quinta-feira – 10 de novembro de 2022 IME-USP		
Auditório Jacy Monteiro - Bloco B - Térreo (Análise Numérica)		Auditório Antonio Gilioli - Bloco A - 2o andar (Análise)
Sandra Malta (coordenador)		Daniela Vieira (coordenador)
17:00 – 17:20	Martha Timoteo , Analysis numerical of a stabilized hybrid finite element methods for the Helmholtz problem	Thaís Jordão , Function spaces of generalized smoothness
17:20 – 17:40	Giovanni Taraschi , Convergence results for the Primal Hybrid Method with Serendipity based spaces on quadrilaterals	Victor S. Barbosa , Fourier-Jacobi coefficients
17:40 – 18:00	Paul Krause , Dyson’s split action formula for transport operators	Thiago Grando , On the Bishop-Phelps-Bollobás property for operators defined on c_0 -sums of euclidean spaces
18:00 – 18:20	Hugo de la Cruz , A simplified method for the response analysis of stochastic vibration systems with nonlinear adjustable stiffness	Christina Brech , Rigidity of combinatorial Banach spaces
18:20 – 18:40		José Lucas Pereira Luiz , Latticeability in spaces of bounded sequences
18:40 – 19:00		Davidson Freitas , Coherence of ideals of generalized summing multilinear operators by blocks

Sexta-feira – 11 de novembro de 2022 IME-USP		
Auditório Jacy Monteiro - Bloco B - Térreo (EDP-Elíptica)		Auditório Antonio Gilioli - Bloco A - 2o andar (Análise)
Edcarlos Silva (coordenador)		Thaís Jordão (coordenador)
14:30 – 14:50	Joel Coacalle , Closed estimates for $\overline{\partial}$ on CR-manifolds of hypersurface type	Luis Alberto Garcia , Order continuity of Arens extensions of regular multilinear operators
14:50 – 15:10	Gabriel Rodriguez V. , No-flux boundary problem involving $p(x)$ -laplacian-like operators with critical exponents	Vinicius Colferai Miranda , The coarse p -limited sets in Banach spaces
15:10 – 15:30	Jean Carlos Nakasato , Reaction-diffusion problem in a thin domain with oscillating boundary and varying order of thickness	Raquel Wood , Hyper-ideals of multilinear operators generated by sequence classes
15:30 – 15:50	João Rodrigues Santos Júnior , The method of the energy function and applications	Veronica Leão Neves , The linearization method for ideals of multipolynomials
15:50 – 16:10	Willy Barahona M. , On the antiplane frictional contact problem of $p(x)$ -Kirchhoff type with convection term	Andrés Fabián Leal-Archila , On lattice-almost copies of $c_0(\Gamma)$ and $l_1(\Gamma)$ in Banach lattices
16:10 – 16:30		Denis A. P. Garcia , G -topological spaces: generalizing the concept of G -space
16:30- 17:00	Encerramento - Auditório Jacy Monteiro - Bloco B – Térreo	

Sessão de Pôsteres - Hall – Auditório Geografia

Quinta-Feira e Sexta-Feira, 10-11 de novembro de 2022
10:00-10:30

Análise

1. Gabriela C. Silva, Python as a tool for calculating the Hausdorff dimension of self-affine fractals
2. Giulia C. Fantato, Isometric actions on L_p spaces and the property of unbounded orbits
3. Ariel de O. Monção, Spaces of regular multilinear operators between Banach lattices

Análise Numérica

1. Joahb Negreiros, Análise de estabilidade da equação da difusão fracionária com correção dimensional

EDO-EDF

1. Lucas Leão, Picard's Method to study neutral differential equations with state-dependent delay with L_p -Lipschitz forcing term

EDP-Elípticas

1. Bruno Mascaro, Estimando o número de soluções para um sistema tipo Schrödinger-Bopp-Podolsky usando a categoria de Ljusternik-Schnirelmann
2. Daniel Morales, Numerical behavior of the set of equilibria for a nonlinear parabolic problem with terms concentrated at the boundary
3. Eduardo Böer, Kirchhoff-Choquard equations with indefinite internal potential
4. Eduardo Dias Lima, Positive solutions for Kirchhoff elliptic problems via Rayleigh quotient in the whole space $\mathbb{R}^N$
5. Gustavo de Paula Ramos, Solutions to constrained Schrödinger-Bopp-Podolsky systems in $\mathbb{R}^3$
6. Heitor R. de Assis, Elliptic equations involving supercritical Sobolev growth with mixed Dirichlet-Neumann boundary conditions
7. Jefferson L. A. Oliveira, Multiplicity of solutions for fractional p -laplacian problem with sign changing nonlinearity via Rayleigh quotient
8. Luis Jorge Souza dos Anjos, Uniform stability of a thermoviscoelastic plate model
9. Rodolfo F. de Oliveira, Two solutions for a problem in upper-half space with concave-convex nonlinearities on the boundary
10. Victor S. Biliatto, Lebesgue solvability of elliptic homogeneous linear equations on measures
11. Victor Antonio Blanco Vilorio, Problemas singularmente perturbados envolvendo o $p(x)$ -laplaciano normalizado
12. Yino Beto Cueva Carranza, Systems of 1-laplacian equations involving critical Sobolev exponent degrees

EDP-Evolução

1. João Carlos Barreira, Remarks about insensitising controls for a quasilinear parabolic equation
2. Orlando Romero, Nash equilibria for quasi-linear parabolic problem 2D
3. Vitor Faleiros Viana, Asymptotic behavior of solutions to wave type equations