MAT80

XIII Workshop on Dynamical Systems
Celebrating the 80th birthday of Marco Antonio Teixeira

IMECC/Unicamp – November 25-29, 2024
Campinas/SP – Brazil
http://www.ime.unicamp.br/~mat80/

Certificate

We hereby certify that **Ali Bakhshalizadeh Badaki** presented the poster entitled *Global Dynamics Analysis of a Class of Quadratic Polynomial Differential Systems with an Invariant Plane in $\mathbb{R}^3$* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

Campinas, November 29th, 2024.

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On behalf of the Organizing Committee

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Certificate

We hereby certify that **Bruno Henrique Garcia Malvestio** presented the poster entitled *Dinâmica de um modelo de HIV usando campos vetoriais suaves por partes* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Débora Bispo de Oliveira Costa** presented the poster entitled *Pesadelo de Fubini - Fenômeno Contraintuitivo de Teoria da Medida* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Eduarda Dutra Almeida** presented the poster entitled *Conexão de Shilnikov Em Sistemas Lineares Por Partes em $\mathbb{R}^3$.* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Gerardo Anacona Erazo** presented the poster entitled *Center of Cubics of Polynomial Differential Systems* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Giuliano Angelo Zugliani** presented the poster entitled *Towards a conjecture by Arnol'd* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Ismael Junio Ramos Machado** presented the poster entitled *Modelagem com Equações Diferenciais: competição e coexistência em modelos populacionais.* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Jackson Itikawa** presented the poster entitled *Limit cycles bifurcation in multi-parametric differential systems having a center* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Luiz Fernando Gonçalves** presented the poster entitled *Generic Singularitires of Relay Systems* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Marly Tatiana Anacona Cabrera** presented the poster entitled *The focus-center-limit cycle bifurcation in Buck Converter with PI controller* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Murilo A. de Jesus Zigart** presented the poster entitled *Matching cross-cap singularities of Gutierrez-Sotomayor flows* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Nicolas Davi de Oliveira Deliberto** presented the Blow-Up and Nilpotent Singularities entitled *Normal Forms* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Rony Cristiano** presented the poster entitled *Hopf-like bifurcation in the Holling-Tanner model with discontinuous harvesting action* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Tiago Carvalho** presented the poster entitled *Shadowing lemma for piecewise Smooth vector fields* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Alacyr José Gomes** presented the poster entitled *Principal Configuration near a hyperbolic singular point of a linear system* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Alex Carlucci Rezende** presented the poster entitled *Period function for a class of piecewise Hamiltonian systems in the plane* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Beatriz Catarene Rabelo de Carvalho** presented the poster entitled *Local cyclicity for double-reversible cubic systems with three aligned centers* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Carlos Vinicius das Neves Silva** presented the poster entitled *Holomorphic Systems* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Durval José Tonon** presented the poster entitled *Generic one-parameter families of 3-dimensional Filippov Systems* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Fabio Scalco Dias** presented the poster entitled *Bounded Kukles systems of degree three* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Jaime Rezende de Moraes** presented the poster entitled *Analytic study of two limit cycles bifurcating from a zero–Hopf equilibrium* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Jéfferson Luiz Rocha Bastos** presented the poster entitled *Evolutionary Stable Strategies and Cubic Vector Fields* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNI-CAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Letícia Souza Cândido** presented the poster entitled *Conley index of low codimension singularities of Filippov vector fields* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Luan Vinicio de Mattos Ferreira Silva** presented the poster entitled *On the boundedness of solutions of a forced discontinuous oscillator* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Luci Roberto** presented the poster entitled *Periodic Orbits in the most general Perturber Hénon-Heiles Cubic Hamiltonian System* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Marcelo Messias** presented the poster entitled *Global Dynamics and Bifurcation of Periodic Orbits and Invariant Tori in a Modified Nosé-Hoover Oscillator* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Marcio Ricardo Alves Gouveia** presented the poster entitled *Hyperbolicity of renormalization for dissipative gap mappings* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.
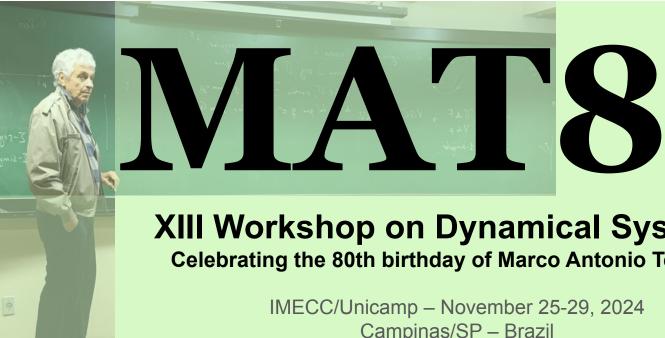
Campinas, November 29th, 2024.

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Certificate

We hereby certify that **Murilo de Souza Penteado** presented the poster entitled *A Melnikov analysis for a class of piecewise smooth differential systems with nonsmooth perturbations* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Pedro Toniol Cardin** presented the poster entitled *Periodic solutions for piecewise smooth Liénard equations with large damping* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Rodrigo Thomaz da Silva** presented the poster entitled *The study of polynomial submersions via their bifurcation set* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Tamires Imaculada Santos Costa** presented the semi-hiperbólicos e nilpotentes em sistemas diferenciais planares.   entitled *Classificação de pontos hiperbólicos* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Warley Mendes Batista** presented the poster entitled *Singularidades de codimensão um de Campos Vetoriais 3D Suaves por Partes Simétricos* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Alexander Fernandes da Fonseca** presented the poster entitled *Continuous planar piecewise linear systems with three zones without equilibrium points* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Alisson de Carvalho Reinol** presented the poster entitled *Dynamic study of the "simplest" memristor-based chaotic circuit* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Ana Cristina de Oliveira Mereu** presented the poster entitled *Crossing Limit Cycles for Discontinuous Piecewise Linear Differential Centers Separated by Two Circles* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Bruna da Silva Araujo** presented the poster entitled *An Ordinary Differential Equations Approach to Solving Polynomials* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Daniel J. Pagano** presented the poster entitled *Hopf-Hopf Bifurcation Analysis in an Inductively Coupled Oscillator Circuit* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNI-CAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **João Carlos da Rocha Medrado** presented the poster entitled *Bifurcations of symmetrical two-zone piecewise vector fields* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Leonardo Pereira Costa da Cruz** presented the poster entitled *Local and Global Analysis of the Displacemente Map for Some Near Integrable Sistems* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Letícia Fernanda Alves** presented the poster entitled *Ordinary Differential Equations for Competition Between Normal and Tumor Cells: Growth Dynamics and Parameter Estimation* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

Campinas, November 29th, 2024.

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Ricardo Miranda Martins
On behalf of the Organizing Committee

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Certificate

We hereby certify that **Luana Ascoli** presented the poster entitled *Asymptotic behavior of the Hilbert Number in planar piecewise polynomial vector fields* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.
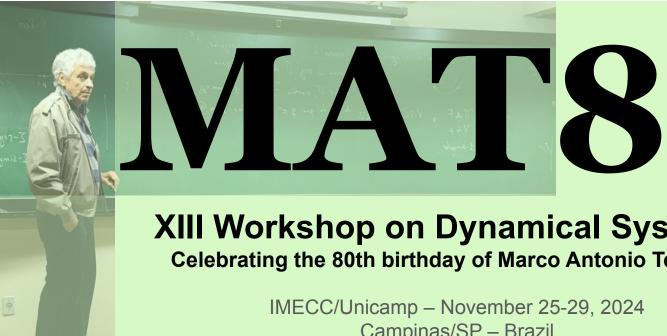
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Certificate

We hereby certify that **Lucas Queiroz Arakaki** presented the poster entitled *Inverse Jacobi multipliers and the nilpotent center problem in $\mathbb{R}^3$* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNI-CAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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Certificate

We hereby certify that **Murilo Rodolfo Cândido** presented the poster entitled *Revealing Canard-Type Invariant Tori in a Modified Nosé–Hoover Oscillator* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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We hereby certify that **Sonia Isavel Renteria Alva** presented the poster entitled *Crossing limit Cycles of the Planar Discontinuous Piecewise Linear Hamiltonian System* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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We hereby certify that **Yingjian Liu** presented the poster entitled *Moduli of continuity of Lyapunov exponents* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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We hereby certify that **Matias Zimmermann** presented the poster entitled *Polynomial Decay of Correlations via Renewal Theory for Operators* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNI-CAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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We hereby certify that **Maurício Lima** presented the poster entitled *One-dimensional Piecewise Smooth Rational Degree Maps* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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We hereby certify that **Ana Livia Rodero** presented the poster entitled *Existence and nonexistence of Puiseux inverse integrating factors and Puiseux first integrals* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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We hereby certify that **Eddie Nijholt** presented the poster entitled *Network Structure as Exotic Symmetry* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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We hereby certify that **Fernanda dos Anjos Félix Becatti** presented the poster entitled *Ciclos limite de grande amplitude em sistemas lineares definidos por partes* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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We hereby certify that **Geovane Rocha de Araujo** presented the poster entitled *O Problema de Sitnikov e a Existência de Conjuntos Invariantes do Tipo "Ferradura de Smale"* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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We hereby certify that **Jeferson Cassiano** presented the poster entitled *Poincaré-Mel'nikov Like Integrals in the Distribution Sense* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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We hereby certify that **Leandro de Jesus Nascimento Bacelar** presented the poster entitled *A Study on the Global Phase Portraits of Nilpotent Centers with Cubic Nonlinearities* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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We hereby certify that **Marina Andrade Domingues** presented the poster entitled *Injetividade global de difeomorfismos locais* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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We hereby certify that **Sajjad Bakrani Balani** presented the poster entitled *Sparse recovery and nonlinear basis pursuit* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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We hereby certify that **Victor Augusto Vieira Pinto** presented the poster entitled *Estimation of Ordinary Differential Equation Parameters in Mass-Spring Systems Modeled by the Duffing Equation* at the XIII Workshop on Dynamical Systems (MAT80) - *Celebrating the 80th birthday of Marco Antonio Teixeira*, held at Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, from November 25th to November 29th, 2024.

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