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Abstract Acceptance Notification – 3rd UNCG Virtual PDE Conference

1 message

Yi Zhang <Y_ZHANG7@uncg.edu>

Wed, Jul 16, 2025 at 5:04 PM

To: "abdelmouhcene.sengouga@univ-msila.dz" <abdelmouhcene.sengouga@univ-msila.dz>

Dear Abdelmouhcene,

Thank you for submitting your abstract to 3rd UNCG Virtual PDE Conference, which will take place online on October 10th-12th, 2025. We are pleased to inform you that your abstract has been accepted for presentation at the conference.

Please note that the list of accepted abstracts will be posted and regularly updated on the conference website: <https://mathstats.uncg.edu/pde-conference/>

Thank you for your contribution. We look forward to welcoming you to the conference.

Best regards,

Yi Zhang
Program Chair
3rd UNCG Virtual PDE Conference



The Third UNCG Virtual PDE Conference Schedule

Conference Time Zone: Eastern Daylight Time, GMT -4.

Friday, October 10th (Eastern Daylight Time, GMT -4)

9:45 - 10:00am	Welcome Remarks Alan Boyette, Provost and Executive Vice Chancellor, UNCG Sherine Obare, Vice Chancellor for Research and Engagement, UNCG Scott Richter, Head, Department of Mathematics and Statistics, UNCG
10:00 - 10:15am	History and Music Video 'Ode to Joy' performed by Scott Richter 'HalfLight' written and performed by Ally Harvel
10:15 - 10:30am	Conference Dedication - Brief Presentation in honor of Alfonso Castro
10:30 - 11:20am	Special Presentation by Jean Mawhin in Main Zoom Meeting Room <i>Alfonso Castro : A Love Story with Nonlinear Analysis and Partial Differential Equations</i>
11:20 - 11:30am	Break
11:30 - 12:30pm	Plenary Lecture 1 Bernhard Ruf in Main Zoom Meeting Room <i>Singular Solutions of Elliptic Equations in Two Dimensions</i>
12:30 - 1:00pm	Break
1:00 - 2:00pm	Technical support for Zoom screen sharing (optional) in Technical Support Breakout Room

Contributed Talks: Friday Afternoon Sessions A1-A6

Session A1	Chair: Emiliano Morales-Lopez	Breakout Room
2:00 - 2:20pm	Caroline Wyrick	<i>On the uniqueness of positive solutions for classes of two-point boundary value problems when a parameter is large</i>
2:20 - 2:40pm	Nyvisalsnuk Rith	<i>Stability and Bifurcation Analysis on Fishery Models with Strong Allee Effect and Holling's Type III Functional Response</i>
2:40 - 3:00pm	Monishwar Vardireddy	<i>Analysis of the SEIR Model around the Singularities</i>
3:00 - 3:20pm	–	–
3:20 - 3:40pm	Emiliano Morales-Lopez	<i>Modeling the Transmission Dynamics of the Monkeypox Virus Infection with Intervention Measures</i>

Contributed Talks: Friday Afternoon Sessions B1-B6

Session B1

5:00 - 5:20pm
5:20 - 5:40pm
5:40 - 6:00pm

Chair: Ananta Acharya

Wai Chan
Atanu Manna
Ananta Acharya

Breakout Room

Quenching for Reaction-Diffusion Equations
Existence and multiplicity of non-radial solutions for a semilinear elliptic equation on hyperbolic space
Analysis of a population when a second species influences its dynamics in the interior and on the boundary

Session B2

5:00 - 5:20pm
5:20 - 5:40pm
5:40 - 6:00pm

Chair: Manki Cho

Thuy Le
—
Manki Cho

Breakout Room

The dimensional reduction method for solving a nonlinear inverse heat conduction problem with limited boundary data
—
Efficient Numerical Solutions of Laplace Equations with Mixed Boundary Conditions Using Steklov Eigenfunctions

Session B3

5:00 - 5:20pm
5:20 - 5:40pm
5:40 - 6:00pm

Chair: Brian Choi

—
Mohammed N. Benamara
Brian Choi

Breakout Room

On the stability of a class of positive fractional 2D Lyapunov systems described by the Roesser model
Unique continuation of fractional dispersive equations

Session B4

5:00 - 5:20pm
5:20 - 5:40pm
5:40 - 6:00pm

Chair: Ardra A

Sigifredo Herrón
Lan-Phuc Tran
Ardra A

Breakout Room

Sub-Supersolution Techniques and Fixed Point Methods for Schrödinger p -Laplacian Problems
Phase Shaping of the Nonlinear Schrödinger Equation
One the first eigenvalue of a nonlinear Schrödinger type equation

Session B5

5:00 - 5:20pm
5:20 - 5:40pm
5:40 - 6:00pm

Chair: Arturo Sanjuán

Md. Abdus Saad
A. Sengouga
Arturo Sanjuán

Breakout Room

Time-Dependent Diffusion and Soliton Dynamics in (2+1)D Chaffee-Infante Equation
Energy Bounds for a Vibrating String with Boundary Damping and Varying Length
The Work of Alfonso Castro on the Semilinear Wave Equation: A Survey

Session B6

5:00 - 5:20pm
5:20 - 5:40pm
5:40 - 6:00pm

Chair: Yi Zhang

Kiran Kumar Saha
—
Amar Pal Verma

Breakout Room

Existence of Radially symmetric k -convex solutions to k -Hessian equations
—
Quasilinear Degenerate Elliptic Problems with Indefinite Weights and Variable Exponents: Existence of Multiple Weak Solutions

End of Day 1