

*National Conference on Mathematical Analysis- M'sila, Algeria  
 December 4, 2024*

# Conference Program

**8h00 – 9h00: Registration**

**9h00 – 9h 20: Opening Ceremony**

**(حاضنة الأعمال – القطب الشمالي – جامعة المسيلة - Business Incubator of M'sila University)**

Time	Plenary Session:
	<b>Chairman: Pr Madani Moussai</b>
9h20 – 10 h10	<b>Speaker</b> :A Variety of Transmission Problems for Waves <b>Talk</b> : Aissa Benseghir <b>Univ</b> : University of Sétif 1
10h 20- 10h40	<b>BreakCoffee</b>

## Rooms' Program

Time	Room 1: Function spaces and its applications Chairman : Pr M.Moussai and E. Dahia
10h 40 – 11h 00	<b>Speaker</b> : Abderrahmane Layati <b>Talk</b> : Positive solutions for Schrodinger operators with critical Hardy-Sobolev exponents. <b>Univ</b> : University of Tlemcen
11h00 – 11h 20	<b>Speaker</b> : Djamel Zerrouki <b>Talk</b> : Improved quadratic convex underestimator for univariate nonconvex functions <b>Univ</b> : University of Tizi-Ouzou
11h20– 11h 40	<b>Speaker</b> : Zineb Bellabes <b>Talk</b> : Fractional p-Kirchhoff Equation in the Fractional p-Laplacian Framework <b>Univ</b> : University of Relizane
11h 40– 12h 00	<b>Speaker</b> : Brahimi Tahar <b>Talk</b> : More on Ideal Rothberger Spaces. <b>Univ</b> : Ecole Normale Supérieure de Laghouat
12h00 – 12h 20	<b>Speaker</b> : Fatima Ezahra Bentata <b>Talk</b> : A Variational Approach for a Hyperbolic p-Kirchhoff-Type Problem <b>Univ</b> : University of Tébessa
13h00	<b>Lunch</b>
14h10 – 14h 30	<b>Speaker</b> : Zoheir Chebel <b>Talk</b> : Banach contraction principle with two mappings. <b>Univ</b> : University Center of Barika

14h30 – 14h 50	<p><b>Speaker:</b> Tsamda Hocine,  <b>Talk:</b> Global existence, uniqueness and asymptotic behavior for a quasilinear haptotactic model  <b>Univ:</b> National School of Advanced Technologies (NSAT Algiers)</p>
14h50 – 15h 10	<p><b>Break coffee</b>  <b>Poster session</b></p>
15h10 – 15h 30	<p><b>Speaker:</b> Zouheyr Zeghad  <b>Talk:</b> A note on the boundedness of multilinear commutators of singular integral operators on variable Herz-type spaces  <b>Univ:</b> ENS-Bousaada</p>
15h30 – 15h 50	<p><b>Speaker:</b> Hamza Brahim Boulares  <b>Talk:</b> Remarks on atomic decomposition for variable Herz-type Hardy space and their applications  <b>Univ:</b> University of M'sila</p>
<b>Time</b>	<p><b>Room2:</b> Operator theory  <b>Chairman:</b> Pr L.Mezrag and D.Achour</p>
10h 40 – 11h 00	<p><b>Speake:</b> Mustapha Maadani  <b>Talk:</b> On A-unitary in semi Hilbertian space  <b>Univ:</b> University of Chlef</p>
11h00 – 11h 20	<p><b>Speaker:</b> Raouda Chettouh  <b>Talk:</b> The Rectangle Containing the Numerical Range of a Bounded Linear Operator  <b>Univ:</b> University of Tebessa</p>
11h20– 11h 40	<p><b>Speaker:</b> Ayyoub Fellag Ariouat  <b>Talk:</b> On k-quasi-m -hyponormal operators on Hilbert spaces  <b>Univ:</b> University of Chlef</p>
11h 40– 12h 00	<p><b>Speaker:</b> Souhaib Djaballah  <b>Talk:</b> On the class of n-quasi-m-symmetric operator  <b>Univ:</b> University of El-Oued</p>
12h00 – 12h 20	<p><b>Speaker:</b> Tahar Mezeddek Mohamed  <b>Talk:</b> Exponential of Triangular Toeplitz matrix  <b>Univ:</b> University of Mustapha Stambouli of Mascara.</p>
<b>13h00</b>	<p><b>Lunch</b></p>
14h10 – 14h 30	<p><b>Speaker:</b>Bochra Zeghad  <b>Talk:</b> Solving pseudomonotone and Lipschitz continuous equilibrium problems in real Hilbert spaces  <b>Univ:</b>University Sétif 1</p>
14h30 – 14h 50	<p><b>Speaker:</b>Smati Abdellatif  <b>Talk:</b> n-Normal and Hyponormal Operators: Conditions for Normality and Compactness.  <b>Univ:</b>ENS-Bousaada</p>
14h50 – 15h 10	<p><b>Poster session</b>  <b>Coffee Break</b></p>
15h10 – 15h 30	<p><b>Speaker:</b>Abir Yakoub  <b>Talk:</b>On the Solutions of Sylvester Operator Equations in Integral Form  <b>Univ:</b> University of Batna 2</p>
15h30 – 15h 50	<p><b>Speaker:</b> Souheyb Dehimi  <b>Talk:</b> On the commutativity of symmetric operators  <b>Univ:</b> University Mohamed El Bachir El Ibrahimi of Bordj Bou Arreridj</p>
15h50 – 16h 10	<p><b>Speaker:</b> Hassan Zine  <b>Talk:</b> The continuity of linear relations on asymmetric normed spaces  <b>Univ:</b> M'sila University</p>

Time	Room3 : PDE1 Chairman Pr. R. Yahi, A. Tallab, and A. Bouafia
10h 40 – 11h 00	<b>Speaker:</b> Azouz Ferrag <b>Talk:</b> Stochastic Differential Equations <b>Univ:</b> (ENSET) Skikda
11h00 – 11h 20	<b>Speaker:</b> Bellamouchi Chahinez <b>Talk:</b> Positive solutions results for some nonlocal elliptic problem <b>Univ:</b> University of Chlef
11h20– 11h 40	<b>Speaker:</b> Rouibah Khaoula <b>Talk:</b> Iterative collocation method for second order Volterra integro-differential equations <b>Univ:</b> University Center of Mila
11h 40– 12h 00	<b>Speaker:</b> Salim Ben Chikh <b>Talk:</b> Existence Solution of Boundary Value Problem with Four-Point Mixed Integro-Derivative Conditions <b>Univ:</b> University of Bouira
12h00 – 12h 20	<b>Speaker:</b> Ladjroud Amal <b>Talk:</b> Approximate Eigensolutions of the Schrödinger Equation for the Radial Generalized Cornell Plus Pöschl-Teller Potential <b>Univ:</b> Center Abdelhafid Boussof, Mila
<b>13h00</b>	<b>Lunch</b>
14h10 – 14h 30	<b>Speaker:</b> Belaibb Mohamed Tahar <b>Talk:</b> A Boundary Value Problem with Nonlinear and History-Dependent Characteristic <b>Univ:</b> University of Sétif 1
14h30 – 14h 50	<b>Speaker:</b> Makhfi Abdelali <b>Talk:</b> The Historical Study of Blasius and Falkner-Skan Equations. <b>Univ:</b> ENS Kouba, Algiers
14h50 – 15h 10	<b>Poster Session</b> <b>Coffee Break</b>
15h10 – 15h 30	<b>Speaker:</b> Amroune Bochra <b>Talk:</b> Modeling Two-Dimensional Free Surface Flow in a Cavity <b>Univ:</b> University of M'sila
15h30 – 15h 50	<b>Speaker:</b> Kaouther Bouchama <b>Talk:</b> Approximation of the Caputo-Hadamard Fractional Derivative and Caputo-Hadamard-Type Linear diffusion equations <b>Univ:</b> University of M'sila
Time	Room 4 :PDE2 Chairman: Pr R.Mechter and T. Heraiz
10h 40 – 11h 00	<b>Speaker:</b> Houria Chellaoua <b>Talk:</b> Global existence and exponential stability of non autonomous semilinear wave equation with time-varying delay <b>Univ :</b> University of Ghardaia.
11h00 – 11h 20	<b>Speaker:</b> Abdelmoumene M'hamdi <b>Talk:</b> Existence results for some nonlocal singular elliptic problems <b>Univ :</b> ENS Kouba, Algiers
11h20– 11h 40	<b>Speaker:</b> Bilel Madjour <b>Talk:</b> Stability results for a coupled system of viscoelastic wave equation with acoustic boundary conditions <b>Univ :</b> University of Sétif-1

11h 40– 12h 00	<p><b>Speaker:</b> Amara Kaddouri  <b>Talk:</b> On the asymptotic convergence of a non-Newtonian fluid in a thin two-dimensional domain with nonlinear Tresca-type friction.  <b>Univ :</b> University of Sétif 1</p>
12h00 – 12h 20	<p><b>Speaker:</b> Ibtissem Benkemache  <b>Talk:</b> Investigation of Atomic Solutions in Conformable Partial Differential Systems  <b>Univ :</b> University of Bordj Bou Arreridj</p>
13h00	<b>Lunch</b>
14h10 – 14h 30	<p><b>Speaker:</b> Soufiane Benyoussef  <b>Talk:</b> Jacobi operational matrix for solving fractional partial differential equations  <b>Univ :</b> University of Bordj Bou Arreridj</p>
14h30 – 14h 50	<p><b>Speaker:</b> Houd Khireddine  <b>Talk:</b> Existence Results of a Dynamic Frictionless Contact Problem for Viscoelastic Materials with Long-Term Memory  <b>Univ :</b> University of M'sila</p>
14h50 – 15h 10	<b>Coffee Break Poster Session</b>
15h10 – 15h 30	<p><b>Speaker:</b> Mani Abdelouahab  <b>Talk:</b> Delayed Volterra Operator and its Corresponding Equation.  <b>Univ :</b> University of M'sila</p>
15h30 – 15h 50	<p><b>Speaker:</b> Khelifa Chadi  <b>Talk:</b> Analysis of Bilateral Contact Problem with Nonmonotone Friction and Damage  <b>Univ:</b> University of M'sila</p>
15h50 – 16h 10	<p><b>Speaker:</b> Farida Mekkaoui  <b>Talk:</b> <math>\lambda</math>-aluthge transformation and applications  <b>Univ:</b> University of Batna 2</p>
<b>Time</b>	<p><b>Room 5 :</b> Fractional Differential Equations  <b>Chairman:</b> PrA.Memou- A. Senguogua</p>
10h 40 – 11h 00	<p><b>Speaker:</b> Memou Ameer,  <b>Talk:</b> On solvability of an inverse problem of the space-time fractional parabolic equation with non-local and integral boundary conditions.  <b>Univ :</b> University of M'sila</p>
11h00 – 11h 20	<p><b>Speaker:</b> Malki Zakarya  <b>Talk:</b> A problem of fractional differential inclusions  <b>Univ :</b> University of Sidi Bel Abbes</p>
11h20– 11h 40	<p><b>Speaker:</b> Hicham Ait Mohammed  <b>Talk:</b> A Novel Investigation of Existence, Uniqueness and Stability Results for a Caputo Fractional Variable Order Initial Value Problem with Multi-Point Boundary Conditions (IVP)  <b>Univ :</b> University Of Ouargla</p>
11h 40– 12h 00	<p><b>Speaker:</b> Berhail Amel  <b>Talk:</b> Stability for a Class of Nonlinear Langevin Equation with Three Different Fractional Orders  <b>Univ :</b> University, Guelma</p>
11h 40– 12h 00	<p><b>Speaker:</b> Saliha Djenaoui  <b>Talk:</b> Corrected Euler-Maclaurin Type Inequalities for Differentiable s-Convex Functions  <b>Univ :</b> University, Guelma</p>
13h 00	<b>Lunch</b>
14h10 – 14h 30	<p><b>Speaker:</b> Nesraoui Riyadh  <b>Talk:</b> On the existence and multiplicity of solutions for second-order impulsive differential equations with mixed impulses</p>

	<b>Univ</b> :National School of Advanced Technologies (ENSTA Algiers)
14h30 – 14h 50	<b>Speaker:</b> Araour Meriem <b>Talk:</b> On the Existence and Uniqueness of the Solution of the Intuitionistic Fuzzy Integro-Differential Equation <b>Univ</b> : University of Batna 2
14h50 – 15h 10	<b>Coffee Break</b> <b>Poster Session</b>
15h10 – 15h 30	<b>Speaker:</b> Roufaida Ketfi <b>Talk:</b> Analysis of a dynamic contact problem without friction using fractional derivatives. <b>Univ</b> : University of Sétif 1
15h30 – 15h 50	<b>Speaker:</b> Haroun Lamrad <b>Talk:</b> Contribution to the Study of a Class of Fractional Problems <b>Univ</b> : University of Tlemcen

### Poster session:

- 1- Khezzani Rimi, **Contact problem involving fractional derivative**,  
University of Eloued
- 2- Aicha Mohadi, **Numerical Investigation of Non-Analytical Integrals in Gravitational Systems**, University of M'sila
- 3- SAID MEKHDOUA, **Ulam stability for nonlinear-Langevin fractional differential equations**, University of Laghouat