

University of M'sila

Faculty of Mathematics and Computer Sciences Laboratory of Functional Analysis and Geometry of Spaces

9th M'Sila Conference on Mathematical Analysis, M'sila, **November 12-13, 2025**

Certificate of Appreciation

This is to certify that Hellal Abdelaziz, University of M'sila

Served as a president of the Organizing Committee for the 9th M'Sila Conference on Mathematical Analysis, M'sila, **November 12-13, 2025** at M'sila.

We extent our sincere thanks for their valuable contributions and expertise

Dean of Faculty





9th M'Sila Conference on Mathematical Analysis

M'sila, November 12–13, 2025

In Honor of Professor Lahcène Mezrag

On the Occasion of his 70th Birthday

Objective

The goal of the 9th MCMA Conference is to bring together young and expert mathematicians working in the field of Functional Analysis and its applications. This includes linear and nonlinear analysis, PDEs, ODEs, Banach spaces, and operator theory. The conference is held in honor of Professor Lahcène Mezrag's 70th Birthday.

Topics

- The Geometry of Banach and Metric Spaces
- Linear and Nonlinear Analysis
- Functional Analysis of PDEs and ODEs

With the honorable patronage of:

- Prof. A. Boudellaa, Director of the University of M'sila
- Prof. B. Nouiri, Dean of the Faculty of MI
- Prof. D. Drihem, Head of LFAGS

Conference Chairman

Dr. Abdelhamid Tallab, University of M'sila

President of scientific committee

Prof. Dahmane Achour, University of M'sila

President of organizing committee

Dr. Hellal Abdelaziz, University of M'sila

Registration Fees: PhD Students: 1500 DA /Researchers: 4000 DA

Submission: Interested participants are invited to send an abstract (maximum 3 pages) to:

mcma-lfags@univ-msila.dz

Deadline: October 31, 2025







Organizing Committee

- B. Bougherara University of M'sila
- F. Mekdour, University of M'sila
- R. Yahi, University of M'sila
- K. Hamidi, University of M'sila
- A. Mazouz, University of M'sila
- H. Zine, University of M'sila
- S. Abdelkabir, University of M'sila

- N. Dechoucha, University of M'sila
- A. Alouani, University of M'sila
- T. Heraiz, University of M'sila
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- Z. Zeghad, ENS. Bousaada
- R. Chouder, University of M'sila
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- M. Moussai, University of M'sila
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- A. Amroune, University of M'sila
- S. Drabla, University of Sétif 1
- A. Sengouga, University of M'sila

- N. Benhamidouch, University of M'sila
- D. Mihoubi, University of M'sila
- F. Boulahia, University of Bejaia
- K. Melkmi, University of Batna 2
- A. Boudaoud, University of M'sila
- F. Bedouhene, University of Tizi-Ouzou

Invited

- A. Mokrane, ENS Kouba
- A. Saad Allah, ENS Kouba
- M. Hazi, ENS Kouba
- A. Yousfate, University of Sidi Bel Abbès
- C. Bouzar, Oran University 1
- B. Mezerdi, University of Biskra

- Z. Aissaoui, University of Guelma
- M. Morsli, University of Tizi Ouezou
- C. Mihoubi, University of M'sila
- A. Aibeche, University of Sétif 1
- H. Belbachir, University of USTHB
- L. Abbaoui, University of Sétif 1









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9th M'sila Conference on Mathematical Analysis, M'sila, Algeria

November 12-13, 2025

Conference Program First Day

Wednesday, November 12, 2025

الفترة الصباحية

(قاعة المحاضرات ابن الهيثم القطب الشمالي - جامعة المسيلة المحاضرات ابن الهيثم القطب الشمالي - جامعة المسيلة

8h30-9h00	Registration
9h00 – 9h30	Opening Ceremony
9h30 - 10h00	عرض فيديو خاص بالأستاذ مزراق لحسن
10h00-10h30	كلمة الأستاذ مزراق لحسن
10h30-11h00	Break coffee

Plenary Session:

	Chairman: Prof. Madani Moussai	
11h00 – 11 h50	Speaker: Prof. Keddour Lemrabet	
	Talk: A present with many sides for a new retiree	
	Univ: FoHC, M.B.U.B, Boumerdes	
	Chairman: Prof. Abdelmadjid Boudaoud	
12h00 – 12h40	Speaker: Prof. Fazia Bedouhene	
	Talk : Stabilité et commande des systèmes à retard: quand plusieurs modes réels coexistent ?	
	Univ: U.M.M of Tizi-Ouzou	
12h40-14h15	Lunch	

الفترة المسائية:

قاعة المكتبة بكلية الرياضيات والاعلام الآلي القطب الشمالي- جامعة المسيلة

قاعة المكتبة بكلية الرياضيات والإعلام الآلي القطب الشمالي- جامعة المسيلة				
14h30-15h30	Les mathématique et les enjeux actuels	Chairman: Prof. Achour طاولة مستديرة Dahmane		
Rooms' Program				
<mark>Time</mark>	Room1: Al-Khwarizmi Chairman: Prof. K. Hamidi and E. Dahia	a 1		
15h 30 – 15h 50	Speaker: Najah Redjel Talk: Fixed points of asymptotically nonexpans Univ: Souk Ahras	sive mappings with center 0 and applications		
15h50 – 16h 10	Speaker: Sahraoui Asma Talk: Qes solution of the Schrodinger equation combined with a sextic potential Univ: Mila	involving a modified double ring potential		
16h10- 16h 30	Speaker: Aissa Benseghir Talk: Existence and uniqueness for a one-dime coupling and delayed velocity feedback Univ: Sétif1	nsional transmission problem with thermal		
16h 30– 16h 50	Speaker: Haroun Lamrad Talk: Existence and non-existence of a solution for a fractional equation with critical singularities. Univ: Tlemcen			
16h50-17h10	Break coffee Poster session			
17h10 –17h30	Speaker: Said Bensliman Talk: Asymmetric and kth-order slant asymmetr Univ: Laghouat	ric Toeplitz operators		
17h30 – 17h 50	علي بوفروم :Speaker علي بوفروم :Talk عبر قوانين الهندسة الكروية: دراسة تحليلية تاريخية :Univ المدرسة الوطنية العليا الاسلامية-الجزائر	تحديد سمت القبا		
17h50 – 18h 10	Speaker: Naceur Chegloufa Talk: Existence and uniqueness of S-asymptotic ψ-Hilfer fractional delay equations Univ: Blida	ally Bloch-type periodic solutions for neutral		
Time	Room2: Al-Biruni Chairman: Pr D. Drihem and B. Bougherara			
15h 30 – 15h 50	Speaker: Guettai Ghania Talk: On the generalized laguerre transform Univ: Medea			
15h50 – 16h 10	Speaker: Mohammed Ghaith Mahcene Talk: Large-interval fredholm's integral equation Univ: Guelma	ns: a counter-intuitive relaxed approach		
16h10– 16h 30	Speake: Raghdi Mourad Talk: Dense range linear and semilinear operator Univ: Guelma	S		
16h 30– 16h 50	Speaker: Rezig Affaf Talk: Viscoelastic Timoshenko Beam analysis with Univ: Bouira			
16h50-17h10	and the control of th	<mark>ter session</mark> Tee Break		
101100 171110	Speaker: Amrane Houas	are seems		

17h10 -17h30	Talk: A new parametric kernel for faster primal-dual interior-point methods
	Univ: Batna 2
	Speaker: Fateh Merahi
17h30 – 17h 50	Talk: Least squares estimation for reflected continuous-time bilinear processes
	Univ: Batna 2
	Speaker: Samah Nezzar
17h50 – 18h 10	Talk: On the robustness of descriptor systems
	Univ: Batna 2

Poster session:

- Ahlem Nemer, Volterra-Fredholm integral equations with logarithmic kernels, University of Batna2.
- Yahiaoui Ahlem, On the solutions of non-local Kirchhoff-type equation with fractional laplacian in variable exponent spaces, University of Tissemsilt.
- **Kehali Salima**, Global mild solutions and long-time behavior of nonlinear parabolic equations, University of M'sila.
- Aoufi Khayra, Composition ideal of Lipschitz mappings, University of M'sila.
- Meriem Chabekh, Thermoelastic Shear beam model with suspenders: existence, stability, and numerical analysis, University of Sétif 1.
- Araour Meriem, Existence and uniqueness results for logarithmic fuzzy integro-differential equation,
 University of Batna 2.
- Mokhtar Khassani, Study of a diffusion model for population dynamics with dispersal incorporating
 individual behavior at boundaries, University of Mostaganem.
- Oussama Khaldi, Finite-time blow-up for a pseudo-parabolic equation with variable source, University
 of Laghouat.
- Wahiba Delloum, Exact solution for two-dimensional free-surface flow around a house-shaped obstacle,
 University of M'sila.
- Mohamed Bouguerroumi, The asymptotic stabilization for the full von Kármán beam, University of Bouira.
- Khaled Hamidi, On factorable p-nuclear Bloch maps, University of M'sila.
- Mohammed Bouguerra, Closure of the space C¹_c in Riemann-Liouville fractional Sobolev Space,
 University of M'sila.



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Faculty of Mathematics and Computer Science Laboratory of Functional Analysis and Geometry of Spaces





9th M'sila Conference on Mathematical Analysis, *M'sila*, *Algeria November 12-13*, 2025

Conference Program Second Day

Thursday, November 13, 2025

(قاعة المكتبة بكلية الرياضيات والاعلام الالي القطب الشمالي- جامعة المسيلة الرياضيات والاعلام الالي

Time	PlenarySession:	
	Chairman: Prof. Douadi Mihoubi	
9h00 – 9 h40	Speaker: Prof. Brahim Mezerdi Talk: Un pont entre la physique, la biologie et la finance Univ: University of Biskra	
	Chairman: Prof. Abdelmouhcene Sengouga	
9h40 – 10h20	Speaker: Prof. Abdelaziz Choutri	
	Talk: Mathematics and Technology	
	Univ: ENS Kouba	
10h20-10h50	Break coffee	

Rooms' Program

Time	Room1: Al-Khwarizmi
Time	Chairman: Prof. H. Toufik and H. Abdelaziz
	Speaker: Aldjia Maatoug
10h 50 – 11h 10	Talk : Boundedness of the Hilbert transform on localized Lizorkin-Triebel spaces
	Univ: Laghouat
11h10 – 11h 30	Speaker: Gherdaoui Abdelaziz
	Talk: Hardy - Steklov-type operators for quasi-monotone functions in weighted variable
	exponent Lebesgue spaces
	Univ: Tiaret
11h30– 11h 50	Speaker: Abderrahmane Ouardani
	Talk : Hardy-type inequalities for quasi-monotone function in weighted Lebesgue spaces
	Univ: Tiaret
11h 50– 12h 10	Speaker: Hocine Ayadi
	Talk: Nonlinear degenerate anisotropic elliptic equations
	Univ: Medea

12h 10– 12h 30	Speaker: Hicham Ait Mohammed	
1211 10- 1211 30	Talk : New insights into the qualitative analysis of multi-point ψ -Riemann-Liouville fractional	
	boundary value problems (mp- ψ -fbvp) Univ : Ouargla	
13h00	Univ. Odargia Lunch	
131100		
14h10 – 14h 30	Speaker: Farida Mekkaoui	
141110 - 1411 30	Talk: A study on quasinormal operators Univ: Batna 2	
	Speaker: Ahlem Benmakhlouf	
14h30 – 14h 50	Talk: On inequalities related to the Hilbert-Schmidt numerical radius	
141130 - 1411 30	Univ: Batna 2	
	Break coffee	
14h50 – 15h 10	Poster session	
	Speaker: Benoumhani Moussa	
15h10 – 15h 30	Talk: An Application of a Linear Functional to Some Combinatorial Sequences	
	Univ: M'sila	
	Speaker: Hanaa Belkacem	
15h30 – 15h 50	Talk: Les espaces duaux et le principe de dualité : entre structure mathématique et	
	interprétation épistémologique	
	Univ: ENSSI	
	Closure session	
	Room2: Al-Biruni	
Time	Chairman: Pr D. Mihoubi and A. Boudaoud	
	Speaker: Abdelhamid Rehouma	
10h 50 – 11h 10	Talk: Tchebychev polynomials of second kind on the ellipse and approximations.	
	Univ: Eloued	
11h10 – 11h 30	Speaker: Atika Aouri	
111110 – 1111 30	Talk : Local stationarity of spatially varying spatio-temporal garch models Univ : C.U Mila	
	Speaker: Hennous Chahinaz	
11h30–11h 50	Talk: Numerical solution of pantograph-type integral equations via Taylor collocation	
	Univ: Centre-univ-Mila	
	Speaker: Khadidja Benzerroug	
11h 50– 12h 10	Talk: Existence result of an elliptic problem with a singular term	
	Univ: Ens-Kouba	
101 10 101 00	Speaker: Amel Bouhafna	
12h 10– 12h 30	Talk : Extended spectrum of (p, q)-aluthge transformation	
101.00	Univ: Batna2	
13h00	Lunch	
	Speaker: Soufiane Benkouider	
14h10 – 14h 30	Talk: Blow-up phenomenon for a semilinear pseudoparabolic equation involving variable source	
	Univ: Laghouat	
	Speaker: Selma Bouzit	
14h30 – 14h 50	Talk: Meshless radial basis function methods for the Poisson equation on irregular domains	
1/1.50 151 10	Univ: BBA	
14h50 – 15h 10	Poster session Coffee Break	
	Speaker: Saci Atef	
15h10 – 15h 30	Talk : Uniqueness in an inverse problem for the wave equation with a neumann-type boundary	
	condition	
	Univ: C.U. Barika	
15h20 15h 50	Speaker: Boudersa Feriel Tolk: Least well recodered for the Hirsto Setsums system in course speece	
15h30 – 15h 50	Talk : Local well-posedness for the Hirota-Satsuma system in gevrey spaces Univ: University of M'sila	
	Omv. Omvorsity of ivi sha	

Closure session

Poster session:

- Dechoucha Noureddine, Anisotropic elliptic equations with degenerate coercivity in variable exponent,
 University of M'sila.
- Moufida Guechi, Semi-analytial method for nonlinear fractional Volterra integro-differential equations,
 University of Sétif 1.
- Brahimi Mahdi Tahar, On Lebesgue and Sobolev spaces with variable exponents, University of M'sila.
- **Zineb Khalili**, Existence and stability result for Laminted Timoshenko beam with Thermodiffusion effect and a time-varing delay term, **University of Laghouat**.
- Mohamedourabah Benmeddour, Paramètrisation des surfaces algébrique par la méthode infinitésimale,
 University of M'sila
- Dounia Bouchelil, Exponential stability of a nonlinear coupled wave system, University of Sétif 1.
- Abdelkebir Layachi, Functional and geometric aspects of seismic anomaly modeling using nonlinear analysis, ENSGTS, Oran.
- **Khelifa Chadi**, A dynamic fractional differential hemivariational inequality for a contact problem University of M'sila.
- Bounabab Adel, Positive polynomial extensions of (q; r)-dominated operators, University of M'sila.
- Abidi Khedidja, Blow-up and energy estimates for a vscoelastic plate with Balakrishnan-Taylor damping and logarithmic source term, University of Laghouat.
- Ayoub kemari, Stabilité de la méthode de linéarisation en analyse générale tricompartimentale,
 University of Laghouat.
- Hassan Zine, Geometry of linear Spaces Equipped with Asymmetric Norms, University of MM of Tizi
 Ouzou.
- Sami Belhout, A Study of some classes of two-Lipschitz Operator Ideals from Pointed Metric to Banach Spaces, University of M'sila.
- **Benhamouda Oumkeltoum**, A stability result of a one-dimensional coupled system of wave equations with Fourier heat conduction, **University of USTHB**.
- Imane Djaidja, general decay for a thermo-viscoelastic bresse system with localized nonlinearities,
 University of M'sila.
- BRAHIM BENAISSI, Asymptotic behavior of solutions to the caputo-katugampola fractional semilinear diffusion equation, University of M'sila.