الملتقى الثاني حول الرياضيات و تطبيقات الرياضيات

The Second Conference on Mathematics and Applications of Mathematics **CMAM'2022 Jijel, September 28-29, 2022**

CMAM'2022

LMAM LABORATORY

CMAM'2022 Program

Aims and Scopes

The Second Conference on Mathematics and Applications of Mathematics (2nd CMAM 2022) aims to allow academicians, researchers and Ph. D. students to discuss and present their recent research results in various areas of mathematics, especially those in relation with subjects developed by the Laboratory of Mathematics and Applications of Mathematics (LMAM) of Jijel.

The interest areas of the conference include, among others, the following topics:

- T1: Algebra,
- T2: Combinatorics,
- T3: Difference equations,
- T4: Dynamical systems,
- T5: Number Theory,
- T6: Orthogonal polynomials,
- T7: Topology.

CMAM'2022 Program

First Day: 28th September 2022

09h00 – 09h45: Opening Ceremony
Link: http://meet.google.com/egi-ahqj-kvz

Time	**Plenary Session: (1st day: Wednesday 28th September 2022) – Morning** **- Chairman: Prof** N. Touafek & M. Ahmia **Link:** http://meet.google.com/egi-ahqj-kvz
10h00 – 11h00	**Prof. Salah Gomaa Ahmed Ali Elgendi** , Unicorn Landsberg's Problem In Finsler geometry
11h00 – 11h15	**Break**
11h15 – 12h15	**Prof. José L. Ramirez**, The combinatorics of the Catalan Polyominoes
12h30 – 14h00	**Break**

Ordinary Sessions (1st day: Wednesday 28th September 2022) – After noon		
Time	**Session 1:** Difference Equations **Chairman:** Dr F. Belhannache **Link:** http://meet.google.com/mzn-fker-aqe	**Session 2:** Combinatorics **Chairman:** Dr A. Belkhir **Link:** http://meet.google.com/gsd-qejc-qkf
14h00 – 14h15	**Abir Kicha,** Growth conditions for asymptotic behavior of solutions for certain time-varying differential equations	**Ibrahim Boufelgha**, Efficient broadcasts in paths
14h15 – 14h30	**Meryem BELATTAR** : The non-existence of limit cycles for two integrable classes of quadratic differential systems	**N. Rosa AIT-AMRANE**, A note on generalized Bivariate Fibonacci Hybrinomials
14h30 – 14h45	**Asma Allam,** Solvability of a class of k× k close-to-cyclic systems of difference equations	**Sadjia ABBAD**, Extension of the r-Fibonacci polynomial and its companion sequences to negative r's
14h45 – 15h00	**Imane Zemmouri,** Representation of solutions of a second-order system of two difference equations with variable coefficients	**Yousra Ghemit**, (q, t)-Log-concavity of the over (q; t)-bisnomial coefficients
15h00 – 15h15	**Lydia Bouchal,** Positive Solutions for Impulsive Difference Equations With Nonlinear Boundary Conditions	**Ghania GUETTAI**, New results for generalized Bernoulli and geometric polynomials
15h15 – 15h30	**Amira Khelifa,** On a class of k× k close-to-cyclic systems of difference equations	**Madjid Sebaoui**, On some properties for Lah polynomials
15h30 – 16h00	**Break**	
Time	**Session 1:** Number theory **Chairman:** Dr I. Dekkar **Link:** http://meet.google.com/kob-peme-gqa	**Session 2:** Topology **Chairman:** Prof A. Bouchair **Link:** http://meet.google.com/yzz-bbbz-mqh
16h00 – 16h15	**Fouad BOUNEBIRAT**, Note on a new generalisation of Fermat quotient	**Lakehal Rachid**: Some results for the almost _Ufin(A;B) in topological spaces
16h15 – 16h30	**Laid Elkhiri**, Some congruences involving generalate harmonic numbers and binomial coefficients	**Bouadjila Khaled :** Uniform boundedness principale for multivalued linear operators on asymmetric normed spaces
16h30 – 16h45	**Meryem Bouzeraib**, The general relations of the symmetric function with Bernoulli and Euler numbers	**M'Hamed Bensaid** : Topological Structure of Roumieu Gelfand-Shilov Spaces
16h45 – 17h00	**Abdelkader Benyattou**, Congruences on the Bell polynomials and the r-Lah polynomials	**Ferradi Athmane** : The multilinear version of (p;G)-summing operators

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Second Day : 29th September 2022

Ordinary Sessions (2nd day: Thursday 29th September 2022) – Morning		
Time	**Session 1:** Dynamical systems **Chairman: Prof** N. Touafek **Link:** http://meet.google.com/nfp-jeob-hnq	**Session 2:** Number Theory **Chairman:** Dr M. Ahmia **Link :** http://meet.google.com/cet-skwp-irx
09h00 – 09h15	**Mohammed Lachache** : A stable infinite difference scheme for the Saint-Venant system coupled with the transport equation	**Mourad Chelgham,** Generalization of Catalan identity for k-Mersenne and k-Mersenne-Lucas numbers
09h15 – 09h30	**Ibtissem Daira** : Fixed Point Theorem for Nonlinear Neutral Integro-Dynamic Equations In Time Scale	**Rachid Boumahdi**, Additive and multiplicative Decompositions of Polynomials over some rings
09h30 – 09h45	**Khaled Benkouider :** Chaos, coexisting attractors, dynamical analysis and circuit design of a new three-dimensional autonomous dynamical system with five equilibrium points	**Hayat BENSELLA,** repdigits and binary recurrent sequences.
09h45 – 10h00	**Medjoudja Meroua** : Ulam-Hyers and Ulam-Hyers-Rassia stability of a fractal fractional HIV mathematical model	**Zineb Hebbache**, LCD Skew Constacyclic Codes over $F_q + u F_q$
10h00 – 10h15	**Chahra kechar** : New results on asymptotic stability of mild solutions in pth moment to Riemann-Liouville fractional stochastic differential equations	**Laala Khaldi**, Certain congruences related to harmonic numbers
10h15 – 10h30	**Boucherma Rayane** : Gompertz equation with constant immigration to model the spread of COVID-19 in the first and second waves	**Imene Labiod**, Generating functions of Hadamard product of Horadam numbers with some third order sequence number
10h30 – 11h00	**Break**	
Time	**Session 1:** Dynamical systems **Chairman:** Pr N. Touafek **Link :** http://meet.google.com/sxj-vvae-evp	**Session 2:** Combinatorics & topology **Chairman:** Dr M. Chelgham **Link:** http://meet.google.com/szv-aajp-xyy
11h00 – 11h15	**Abdellatif Ben Makhlouf** : Partial asymptotic stability for fractional-order systems	**Rachid Lamdani,** Détermination du Nombre Chromatique de Packing de Quelques types de Graphes
11h15 – 11h30	**Jawhar Hbil** : The essential singualrities for positive current over Complex manifolds	**Mohamed Lamine Nadji,** Overpartitions into distinct part
11h30 – 11h45	**Lama Sh. Aljoufi**, Qualitative Analysis of Nonlinear Difference Equations with a Thirty-Order	**Abdelghafour Bazeniar**, Log-concave sequences of bi^snomial coefficients and symmetric functions
11h45 – 12h00	**Messaouda Labid** : Chaos Anti-Synchronization between Fractional-Order Lesser Date Moth Chaotic System and	**Benarab Sarra** : Existence and estimates for solutions of boundary value problems for implicit differential equations

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	Integer-Order Chaotic System by Nonlinear Control	
12h00 – 12h15	**Boubekeur Maroua Amel** : The potential impact of the obesity on the COVID-19 pandemic a modelling analysis	**Chettouh Raouda** : Inégalités de rayon numérique pour les opérateurs d'espace de Hilbert
12h15 – 12h30	**Seyf El Islam Bouzeraa** : Chaos in a one-dimensional chaotic map with fractional-order	**Mohamed BENALLIA :** Caractérisation des espaces de Besov et de Lizorkin-Triebel homogènes
12h30 – 14h00	**Break**	
Time	**Plenary Session:** (2nd day: **Thursday 29th September 2022**) – **Chairman:** Prof A. Bouchair **Link:** http://meet.google.com/kdv-rczp-rsq	
14h00 – 15h00	**Prof. Matilde Lalin**, A moment with L-function	
15h00 – 15h30	**Break**	

Ordinary Sessions (2nd day: Thursday 29th September 2022) – After noon		
Time	**Session 1:** Difference equations **Chairman:** Dr Y. Akrour **Link:** http://meet.google.com/qze-bkgs-ixa	**Session 2:** Algebra & Orth polynomial **Chairman:** Dr A. Bazeniar **Link:** http://meet.google.com/xzv-jpkc-iiq
15h30 – 15h45	**Bouternikh Salih**, On the growth order of meromorphic solutions of of certain type of difference equation	**Amel Zitouni** : On Finitary Series of Groups represented as Permutation or Linear Groups
15h45 – 16h00	**Sihem Oudina**, Dynamics of a system of higher order difference equations with a period-two coefficient	**Tarek Garici** : Symmetric identity for polynomial sequences satisfying $A'_{n+1}(x) = (n + 1)A_n(x)$
16h00 – 16h15	**Noureddine Djenina**, The nabla discreet SEIR Covid-19 model: Stability analysis and application in Germany	**Rakesh Kumar Parmar** : Extended Voigt-type function and associated bounding inequalities
16h15– 16h30	**Houda Boughaba**, Growth estimate for meromorphic solutions of ultrametric q-difference equations of Painlevé type	**Hassina Zerroug** : Gaussian Padovan numbers and new generating functions with some numbers and polynomials
16h30 – 16h45	**Amal Ladjeroud,** Approximated solutions of Schrodinger equation for the generalized Cornell potential plus the hyperbolic Pöschl-Teller potential	**Wissem Benamira** : d-orthogonal polynomials of Laguerre type
16h45 – 17h00	**Cloture** **Link :** http://meet.google.com/vqz-fjtu-zwr	