# INTERNATIONAL E-CONFERENCE ON PURE AND APPLIED MATHEMATICAL SCIENCES (ICPAMS-2022)
# 4-7 May 2022

| 07:45 – 08:00 (GMT) | **Opening Ceremony** ZOOM Link : https://us06web.zoom.us/j/83655149344?pwd=WUZ5NmgzM2plQi9qUEdpekJ5K3prdz09 | | |
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| | 04/05/2022 | Chairs Men: Nabil Gmati and Mohamed Kharrat | |
|---|---|---|---|
| | **Hours (GMT)** | **Invited Speakers** | **Presentation Titles** |
| 8:00 - 11:00 (GMT) | 8:00 - 9:00 | Prof. Hatem ZAAG | Controllability of the Blowup Point for the Heat Equation |
| | 9:00 - 10:00 | Prof. László SZALAY | Variations of Diophantine Tuples |
| | 10:00 - 11:00 | Prof. Enrique ZUAZUA | Control and Machine Learning |
| | | | |

| | 05/05/2022 | Chairs Men: Hédi Nabli and Raouf Fakhfakh | |
|---|---|---|---|
| | ZOOM Link : https://us06web.zoom.us/j/88948573668?pwd=TmpweS9kc3VPV2QzbzVRMERhY3d3Zz09 | | |
| | **Hours (GMT)** | **Invited Speakers** | **Presentation Titles** |
| 8:00 - 11:00 (GMT) | 8:00 - 9:00 | Prof. Saloua MANI AOUADI | Analysis of a Tumor Growth Model With Treatment |
| | 9:00 - 10:00 | Prof. Ayman BADAWI | On Various Generalizations of Absorbing Ideals in Commutative Rings |
| | 10:00 - 11:00 | Dr. François BRUNAULT | Limits of Mahler Measures in Multiple Variables |
| | | | |

| | 06/05/2022 | Chairs Men: Nouressadat Touafek and Marwa Hamza | |
|---|---|---|---|
| | ZOOM Link : https://us06web.zoom.us/j/88596162459?pwd=SDMxY2FrczJmMnp6VE5uWFNsdm5KZz09 | | |
| | **Hours (GMT)** | **Invited Speakers** | **Presentation Titles** |
| 8:00 - 12:00 (GMT) | 8:00 - 9:00 | Prof. Sofiane BOUARROUDJ | Double and Lagrangian extensions for quasi-Frobenius Lie superalgebras |
| | 9:00 - 10:00 | Prof. Marie José BERTIN | Mahler Measure From Number Theory to Algebraic Geometry |
| | 10:00 - 11:00 | Prof. Dumitru BALEANU | Some Numerical Methods for Fractional Differential Equations with Generalized Operators |
| | 11:00 - 12:00 | Prof. Xiao Jun YANG | -- |
| | | | |

# INTERNATIONAL E-CONFERENCE ON PURE AND APPLIED MATHEMATICAL SCIENCES (ICPAMS-2022)
# 4-7 May 2022

| 04/05/2022 (First Session) Chairs Men: Raouf Fakhfakh, Marwa Hamza and Sid Ahmed Ould Ahmed Mahmoud | | | |
|---|---|---|---|
| ZOOM Link: https://us06web.zoom.us/j/86057768153?pwd=S29zT3E3dHBydVZYMmsvUWNDcXI0QT09 | | | |
| | **Hours (GMT)** | **Oral Presentation Speakers** | **Presentation Titles** |
| 12:30 - 17:00 (GMT) | Chair Man: Raouf Fakhfakh | | |
| | 12:30 - 12:45 | Imen Boutouria | The first kind of the Lindley q-distribution |
| | 12:45 – 13:00 | Soukaina Hadiri | Mixed bifractional Brownian motion |
| | 13:00 – 13:15 | Merabet Farida | Modeling and Forecasting with Sarima Models and Kalman filter |
| | 13:15 – 13:30 | G Saravanan | Bi-Bazilevič functions using Mittag -Leffler-type Borel distribution associated with Gegenbauer polynomials |
| | 13:30 - 13:45 | Imane Salhi | Strong consistency of quasi-maximum likelihood estimator derived from Kalman filter in Garch models |
| | 13:45 – 14:00 | Adja Maryem | A Stochastic Reaction- Diffusion Problem with a Singular Nonlinearity |
| | Chair Man: Marwa Hamza | | |
| | 14:00 – 14:15 | Nadjet Bellatrach | Estimation Data-driven using the k nearest neighbors method in nonparametric function data analysis |
| | 14:15 – 14:30 | Faten Ezzine | Asymptotic behaviors of solutions of stochastic differential equations with respect to a part of the variables |
| | 14:30 - 14:45 | Boukeloua Mohamed | Asymptotic Normality of a Conditional Mode Estimator in the Presence of Doubly Censored Data |
| | 14:45 – 15:00 | Imane Bouazza | Recursive Estimate of Conditional Mode Function for Ergodic Functional Data under Right-Censored Model |
| | 15:00 – 15:15 | Mohamed Alahiane | On the Functional Projection Pursuit Regression for Partially Linear Single Index Model |
| | 15:15 – 15:30 | Mohammed Benmoumen | Estimation algorithm of high order Garch model |
| | Chair Man: Sid Ahmed Ould Ahmed Mahmoud | | |
| | 15:30 - 15:45 | Mohamed Cherfi | Kernel conditional Kendall's tau estimation for functional data |
| | 15:45 – 16:00 | Bouadjemi Abdelkader | Semi recursive estimation of conditional cumulative distribution function for functional data under mixing condition |
| | 16:00 – 16:15 | Khedidja Kherchouche | An iterative collocation method for a class of weakly singular third kind Volterra integral equations |
| | 16:15 – 16:30 | Cheima Khennaoui | Application of Taylor Collocation Method for Linear and Nonlinear Two-Dimensional Partial Volterra Integro-Differential Equations |
| | 16:30 - 16:45 | Farida Belhannache | On the stability of a viscoelastic wave equation with an integral condition |
| | 16:45 – 17:00 | Aouine Ahmed Chaouki | An extension of Kannan's theorem for rational contraction type maps in partially ordered metric spaces and application to ordinary differential equations |

# INTERNATIONAL E-CONFERENCE ON PURE AND APPLIED MATHEMATICAL SCIENCES (ICPAMS-2022)
# 4-7 May 2022

| 04/05/2022 (Second Session) Chairs Men: Mohamed Kharrat, Lakehal Belarbi and Maawiya Ould Sidi ZOOM Link: https://us06web.zoom.us/j/84125205309?pwd=NDh6QUdRRlE3NFJPSGJhSkRpWm5idz09 | | | |
|---|---|---|---|
| | **Hours (GMT)** | **Oral Presentation Speakers** | **Presentation Titles** |
| | Chair Man: Mohamed Kharrat | | |
| **12:30 - 17:00 (GMT)** | 12:30 - 12:45 | Foued Mtiri | Liouville type theorems for stable solutions of elliptic system involving the Grushin operator. |
| | 12:45 – 13:00 | Salah-Eddine Chorfi | Reconstruction of initial temperatures in heat equation with dynamic boundary conditions |
| | 13:00 – 13:15 | Alok Kumar Sahoo | Hopf reduction and orbit concentrating solutions for a class of superlinear elliptic equations |
| | 13:15 – 13:30 | Hassan Messaoudi | Asymptotic behavior for porous-elastic system with internal constant delay and non-linear damping term |
| | 13:30 - 13:45 | Abir Amor Ben Ali | Positive solutions for some asymptotically linear and superlinear problems |
| | 13:45 – 14:00 | Giriraj Methi | Differential transform and Bell polynomial approach for nonlinear functional delay equations |
| | Chair Man: Lakehal Belarbi | | |
| | 14:00 – 14:15 | Mustapha Ait Hammou | Existence of weak solutions for a nonlinear parabolic equations by Topological degree |
| | 14:15 – 14:30 | Bouabsa Aya | On the properties of the solution to a differential inclusion with subdifferential |
| | 14:30 - 14:45 | Amel Boudiaf | Uniform energy decay rates for nonlinear thermoelastic system |
| | 14:45 – 15:00 | Asma Benhamida | Solutions of a weighted p-Laplacian critical Sobolev problem |
| | 15:00 – 15:15 | Tahar Bouali | Sub-Supersolution Method For Schrodinger Elliptic Systems Involving P Laplacian Operator |
| | 15:15 – 15:30 | Şeyma Irmak EĞilmez | An Investigation On the Periodicity of Solutions of A General Class of Difference Equations |
| | Chair Man: Maawiya Ould Sidi | | |
| | 15:30 - 15:45 | Anes Moulai-Khatir | Asymptotics of some conformable differential equations |
| | 15:45 – 16:00 | Naceri Mokhtar | Anisotropic elliptic equations with variable exponents and singular nonlinearity having also a variable exponent |
| | 16:00 – 16:15 | Abderrahim Guerfi | Periodic solution of neutral nonlinear summation-difference system with infinite delay |
| | 16:15 – 16:30 | Mohamed El Ouaarabi | On a Dirichlet boundary value problem involving the $p(x)$-Kirchhoff-Laplacian-like operator |
| | 16:30 – 16:45 | Achraf Azanzal | Gevrey class regularity for the solutions of the 2D quasi-geostrophic equations. |
| | 16:45 – 17:00 | Chebana Zainouba | Finite time Blow up of generalized Fujita problem |

# INTERNATIONAL E-CONFERENCE ON PURE AND APPLIED MATHEMATICAL SCIENCES (ICPAMS-2022)
## 4-7 May 2022

| 05/05/2022  (First Session)  Chairs Men: Sid Ahmed Ould Ahmed Mahmoud, Sid Ahmed Ould Beinane and Raouf Fakhfakh  ZOOM Link: https://us06web.zoom.us/j/89511319519?pwd=dS9odlBWdkNJQXppajQxYkJFZm9IQT09 | | | |
|---|---|---|---|
| | **Hours (GMT)** | **Oral Presentation Speakers** | **Presentation Titles** |
| | Chair Man: Sid Ahmed Ould Ahmed Mahmoud | | |
| | 12:30 - 12:45 | Celil Nebiyev | Some Properties of r-Supplemented Modules |
| | 12:45 – 13:00 | Mehsin Jabel Atteya | Some Identities Involving Multiplicative (Generalized)-(sigma,tau)-Derivations Period 2 of Associative Rings |
| | 13:00 – 13:15 | Mehmet Emin KÖROĞLU | Skew cyclic codes over the non-chain ring $\mathcal{R}_q=\mathbb{F}_q[v]/\langle v^{2}+1\rangle$ |
| | 13:15 – 13:30 | Nishant | Cohomology, Extensions and Automorphisms of Skew Braces |
| | 13:30 - 13:45 | Abdelkrim Mehenni | Weakly associative lattices |
| | 13:45 – 14:00 | Abdelkrim Latreche | Category of single valued neutrosophic sets |
| | Chair Man: Sid Ahmed Ould Beinane | | |
| 12:30 - 17:00 (GMT) | 14:00 – 14:15 | Sihem Guerarra | Maximum and minimum ranks and inertias of the Hermitian parts of the least rank solution of the matrix equation AXB = C |
| | 14:15 – 14:30 | Hasan Hüseyin Ökten | Some Properties of Finitely g-Supplemented Modules |
| | 14:30 - 14:45 | Amel Dilmi | Groups whose proper subgroups of innite rank are nite-by-hypercentral |
| | 14:45 – 15:00 | Salah Eddine Oustani | Further Results of K-Frames in Hilbert spaces |
| | 15:00 – 15:15 | Radja Belkhiri | Extremal ranks of submatrices in a (P,Q) generalized reflexive solution of AX = B |
| | 15:15 – 15:30 | Berna Koşar | Socle Supplemented Modules |
| | Chair Man: Raouf Fakhfakh | | |
| | 15:30 - 15:45 | Ben Khaddah Abdelkarim | The freeness property for locally nilpotent derivations |
| | 15:45 – 16:00 | Wafa Mtaouaa | Relative cohomology spaces for some $\mathfrak{osp}(n|2)$-modules |
| | 16:00 – 16:15 | Yousra Ghemit | An analogue of Mahnian numbers |
| | 16:15 – 16:30 | Boualam Rezig | Total positivity of Toeplitz matrices of hyperlucas sequence |
| | 16:30 - 16:45 | Bouchair Abderrahmane | Admissible topologies on function spaces |
| | 16:45 – 17:00 | Meryem Bouzeraib | Generating functions of binary products of generalized (p,q)-numbers and Pell polynomials |

# INTERNATIONAL E-CONFERENCE ON PURE AND APPLIED MATHEMATICAL SCIENCES (ICPAMS-2022)
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| | Hours (GMT) | Oral Presentation Speakers | Presentation Titles |
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| | Hours (GMT) | Oral Presentation Speakers | Presentation Titles |
|---|---|---|---|
| 12:30 - 17:00 (GMT) | Chair Man: Nouressadat Touafek | | |
| | 12:30 - 12:45 | Abdelkrim Barbara | Study of an anisotropic fractional problem with variable exponent by the variational method |
| | 12:45 – 13:00 | Snezhana Hristova | Riemann--Liouville fractional differential equations, impulises and finite time Lipschitz stability |
| | 13:00 – 13:15 | Raksha Devi | Application of Rothe's Method to Fractional Differential Equations With Finite Delay |
| | 13:15 – 13:30 | Ali Khalouta | Semi-numerical analytic technique and its convergence to solve the nonlinear fractional Lienard equation |
| | 13:30 - 13:45 | Muhammad Fiaz | Numerical Solution of Time-Fractional Reaction-Diffusion Coupled Equations in Biological and Chemical Systems |
| | 13:45 – 14:00 | Yacine Arioua | A coupled system of nonlinear Caputo-Katugampola type fractional differential equations with integral boundary conditions |
| | Chair Man: Lakehal Belarbi | | |
| | 14:00 – 14:15 | Hamid Beddani | A New Tripled System of Hybrid Differential Equations With $\varphi$-Caputo Derivatives |
| | 14:15 – 14:30 | Nabil SAOULI | A simplified Tikhonov regularization method for determining the heat source and the initial temperature |
| | 14:30 - 14:45 | Hadjer Merad | Relativistic treatment of spin-0 particles in fractional dimensional space |
| | 14:45 – 15:00 | Smail Kaouache | Modified adaptive controller for the stabilization of the fractional-order chaotic Rikitake Dynamo system with unknown parameters |
| | 15:00 – 15:15 | Safa Bourafa | Fractional-Order Autonomous System with Exact Periodic Solution |
| | 15:15 – 15:30 | Helal Mohamed | Fractional Partial Hyperbolic Differential Inclusions with Finite State-Dependent Delay |
| | Chair Man: Mohamed Kharrat | | |
| | 15:30 - 15:45 | Bouzenada Abdelmalek | Exact solution of Schrodinger equation in fractional quantum approximation |
| | 15:45 – 16:00 | Mohammed Kaid | Nonlocal problem for fractional differential equations via $\phi-$Hilfer derivative |
| | 16:00 – 16:15 | Kenef Esma | On the solvability of a impulsive mixed fractional differential equations |
| | 16:15 – 16:30 | Bennani Ahlem | Resolution of quadratic fractional programming problem via quadratic programming formulation using DCA algorithm |
| | 16:30 - 16:45 | Kaouther Bouchama | Numerical solution for the space-time fractional linear diffusion  equation involving the Caputo-Hadamard fractional derivative |
| | 16:45 – 17:00 | Chaouche Meryem | Stochastic differential inclusions driven by Q-subfractional Brownian motion with fractional derivative |

# INTERNATIONAL E-CONFERENCE ON PURE AND APPLIED MATHEMATICAL SCIENCES (ICPAMS-2022)
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**06/05/2022  (First Session)** Chairs Men: Abdeljabbar Ghanmi, Maawiya Ould Sidi and Raouf Fakhfakh
ZOOM Link : https://us06web.zoom.us/j/89528618267?pwd=WWJsTC9rUmhkZnkwVFhDdW1jWkhEUT09

| Hours (GMT) | Oral Presentation Speakers | Presentation Titles |
|---|---|---|
| | | |
| **Chair Man: Abdeljabbar Ghanmi** | | |
| 12:30 - 12:45 | Shikha Rai | On Derivation Formulas of Nirmala Indices from the M-polynomial of a Graph |
| 12:45 – 13:00 | Hacene Mecheri | Some properties of D-symmetric operator |
| 13:00 – 13:15 | Messaoud Guesba | Generalized some numerical radius inequalities of operators in Hilbert spaces |
| 13:15 – 13:30 | Prasanta K Ray | Analytic continuation of Euler-Zagier multiple balancing zeta function |
| 13:30 - 13:45 | Moussa Ahmia | Infinite log-convexity of two-Motzkin like numbers |
| 13:45 – 14:00 | Kahina Imeçaoudene | Performance Analysis of  M/M/1 retrial queue with Two-Way Communication, Server Breakdown and two types of Incoming Calls |
| **Chair Man: Maawiya Ould Sidi** | | |
| 14:00 – 14:15 | Sana KARFES | On the maximum number of periodic solutions of a planar differential system via two methods |
| 14:15 – 14:30 | Azzeddine Bellour | On the solvability of a nonlinear integral equations with multiple delays |
| 14:30 - 14:45 | Safa Bouaoud | On some h-Stability conditions for nonlinear Abstract Dynamic Equations on Time Scales and applications |
| 14:45 – 15:00 | Houdeifa Melki | On the maximum number of limit cycles of a planar differential system |
| 15:00 – 15:15 | Ibtissem Daira | Study On Time Scale The Existence of Periodic Solutions for Nonlinear Neutral Dynamic Equations With Variable Delay |
| **Chair Man: Raouf Fakhfakh** | | |
| 15:15 – 15:30 | M. Abdelbari | Numerical Shape Optimization for Stokes Flows |
| 15:30 - 15:45 | Nadia MEZOUAR | Nonexistence Solutions of A Logarithmic Nonlinear Kirchhoff Equation With Delay |
| 15:45 – 16:00 | Rami Fella | Generalized hyperbolic Pascal triangles |
| 16:00 – 16:15 | Mebarka Sattaf | N-Kirchhoff type problem with critical singular exponential nolinearity |
| 16:15 – 16:30 | Meryem Belattar | Global phase portraits of quadratic differential systems with two invariant straight lines |
| 16:30 - 16:45 | Baymout Louiza | On the limit cycles created by discontinuous piecewise differential system formed by four classes of quadratic isochronous centers |

*The hours column spans: 12:30 - 17:00 (GMT)*

# INTERNATIONAL E-CONFERENCE ON PURE AND APPLIED MATHEMATICAL SCIENCES (ICPAMS-2022)

# 4-7 May 2022

| | Hours (GMT) | Oral Presentation Speakers | Presentation Titles |
|---|---|---|---|
| 12:30 - 17:00 (GMT) | Chair Man: Mohamed Kharrat | | |
| | 12:30 - 12:45 | Ines Ben Rzig | Homogeneous control time varying delay systems |
| | 12:45 – 13:00 | Chafia Karek | Asymptotic behavior of a Stokes problem in porous medium with $L^1$ data. |
| | 13:00 – 13:15 | Muhammad Salman Kausar | A Mathematical Framework for Thermally Radiative Casson Fluid Considering Inclined Magnetic Field |
| | 13:15 – 13:30 | Mohammad Namegoshayfard | A note on commutant hypercyclicity of some classes of operators |
| | 13:30 - 13:45 | G Mahesh | Numerical treatment of Non-Linear Univariant equation with Inverse Hyperbolic approximation |
| | 13:45 – 14:00 | Mohamed Amine Boubatra | Modulus of smoothness and Modulus of continuity associated with the (k,n)-generalized Fourier transform |
| | Chair Man: Sameh Kessentini | | |
| | 14:00 – 14:15 | Abderrahmane Belguerna | Criteria Comparing Box-Jenkins and Exponential Smoothing Methods |
| | 14:15 – 14:30 | Halima Hamdi | Cohen positive strongly p-summing m-homogeneous polynomials |
| | 14:30 - 14:45 | Ihya Talibi | Some Special Solutions of Biconfluent and Triconfluent Heun Equtions in Elementary Functions by Extended Nikiforov–Uvarov Method |
| | 14:45 – 15:00 | Mehnaz Haneef | A note on q-Fubini-Bessel functions |
| | 15:00 – 15:15 | Tahmineh Azizi | Theory of Multifractality and Legendre Transformation |
| | 15:15 – 15:30 | Samia Ghalia | On Bolza optimal control problem with an iterative differential inclusion |
| | Chair Man: Nouressadat Touafek | | |
| | 15:30 - 15:45 | Larbi Lilia | Blow-up in coupled solutions for a 4-dimensional semilinear elliptic Kuramoto-Sivashinsky system. |
| | 15:45 – 16:00 | Redouane Douaifia | Global solutions for Gierer-Meinhardt system on a class of evolving domains |
| | 16:00 – 16:15 | Ines Marzouk | Some advances on essential spectra of unbounded operator matrix with application |
| | 16:15 – 16:30 | Gul E Mehak | Zeroth-Order General Randi'c Index of some Line Graphs |
| | 16:30 - 16:45 | Jawa Ettayb | Discrete semigroups of bounded linear operators on non-archimedean Banach spaces |
| | 16:45 – 17:00 | Rania YAHIYA | Energy decay for wave equation in unbounded network |

# INTERNATIONAL E-CONFERENCE ON PURE AND APPLIED MATHEMATICAL SCIENCES (ICPAMS-2022)
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| | Hours (GMT) | Oral Presentation Speakers | Presentation Titles |
|---|---|---|---|
| **07/05/2022 (First Session)** Chairs Men: Raouf Fakhfakh and Mourad Chamekh ZOOM Link : https://us06web.zoom.us/j/82893402244?pwd=d2dYYTZ5ZjNOTk5uVzdJODdRaGxvdz09 | | | |
| | | | |
| **8:00 - 12:00 (GMT)** | | Chair Man: Raouf Fakhfakh | |
| | 8:00 – 8:15 | Manju Rani | Control of Multiple Autonomous Underwater Vehicles by Neural Network Based Hybrid Scheme |
| | 8:15 – 8:30 | Virendra Kumar | On Nirmala Indices of Silicon Carbide Networks via M-polynomial |
| | 8:30 - 8:45 | Chiranjib Choudhury | On rough I^K-convergence of sequences |
| | 8:45 – 9:00 | Nouha Boudjerida | Nonconvex perturbation of state dependent Moreau's sweeping process |
| | 9:00 – 9:15 | Boughaba Houda | Growth estimates for solutions of ultrametric q-difference equations |
| | 9:15 – 9:30 | Ali Maamra | Majorization for Lipschitz operators |
| | 9:30 - 9:45 | Asma Hammou | Lipschitz Operators That Factor Through lp |
| | 9:45 – 10:00 | Hafida Laib | Solving a class of two-dimensional Volterra integral equations |
| | 10:00 – 10:15 | Imene Mecemma | First order perturbed sweeping process with subsmooth set |
| | 10:15 – 10:30 | Hanane Chouial | Differential inclusion governed by a mixed semicontinuous set-valued mapping |
| | | Chair Man: Mourad Chamekh | |
| | 10:30 - 10:45 | Merad Souheib | Generalized cyclic ($\alpha$, f, $\phi$, $\psi$) $-$contractive mapping in b-Metric-Like Spaces |
| | 10:45 – 11:00 | Fennour Fatima | A first-order evolution problem with time-dependent subdifferential operators and applications |
| | 11:00 – 11:15 | Soumia Saïdi | On a second-order evolution inclusion governed by state-dependent maximal monotone operators |
| | 11:15 – 11:30 | Ilyes Sedka | New scheme to solve systems of nonlinear integral equations by linearizing first then discretizing |
| | 11:30 - 11:45 | Imene Touil | Interior point methods for convex quadratic programming based on a new efficient parametric kernel function with trigonometric barrier term |
| | 11:45-12:00 | Ahlam Belfar | Limit Cycles and Geometry Solutions for Some Classes of Planar Differential Systems |

# INTERNATIONAL E-CONFERENCE ON PURE AND APPLIED MATHEMATICAL SCIENCES (ICPAMS-2022)
# 4-7 May 2022

| 07/05/2022 (Second Session) Chairs Men: Faten Ezzine and Mohamed Kharrat ZOOM Link: https://us06web.zoom.us/j/87650265799?pwd=M2Q2dkJYb3V3SnpzV29LSVp1eGZvdz09 | | | |
|---|---|---|---|
| | **Hours (GMT)** | **Oral Presentation Speakers** | **Presentation Titles** |
| | Chair Man: Faten Ezzine | | |
| | 8:00 – 8:15 | Manjusha O T | Domination Polynomials in Fuzzy Graphs |
| | 8:15 – 8:30 | Hamida Hamioud | On the behavior of the solutions of a fourth order rational nonautonomous three dimensional system of difference equations |
| | 8:30 - 8:45 | Mounira Boulouh | On the dynamics of the solutions of a general system of di erence equations de ned by homogeneous functions |
| | 8:45 – 9:00 | El-Hadi Kamel | Existence of solutions for a wave equation with a dispersion term |
| | 9:00 – 9:15 | Amal Dridi | Blow up solutions for a 4-dimensional Emden-Fowler system of Liouville type |
| | Chair Man: Mohamed Kharrat | | |
| 8:00 - 11:45 (GMT) | 9:15 – 9:30 | Sowndarrajan P T | Analysis of optimal control problem for acid-mediated tumor invasion mathematical model |
| | 9:30 - 9:45 | Ouidirne Fatima | Global well-posedness and analicity for the Boussinesq Coriolis system with stratication in critical Fourier-Besov-Morrey with variable exponents |
| | 9:45 – 10:00 | Aziza Bachmar | Variational study of a contact problem |
| | 10:00 – 10:15 | Tarik Boulahrouz | Limit study of an input stability problem on nanolayer |
| | 10:15 – 10:30 | Ahlem Merah | Non existence of solutions for elastic membrane equations with fractional boundary damping |
| | Chair Man: Faten Ezzine | | |
| | 10:30 - 10:45 | Barkat Meriem | The solution of the extended 16th Hilbert problem for a new class of discontinuous piecewise differential systems |
| | 10:45 – 11:00 | Imane Benabdallah | Limit cycles of discontinuous piecewise linear differential systems formed by cubic Hamiltonien centers and linear center separated by an irregular line |
| | 11:00 – 11:15 | Fatima Ezzahrae Fadili | Stability and Hopf bifurcation analysis of a delayed epidemic model |
| | 11:15 – 11:30 | Said Fatma | Some new retarded integral inequalities of Gronwall-Bihari type and their applications |
| | 11:30 - 11:45 | Amina Hallal | A New Hybrid Conjugate Gradient Method for Solving Unconstrainted Nonlinear Optimization problems |