

Société Mathématique de Tunisie

27ème Colloque de la SMT CSMT 2024

Programme

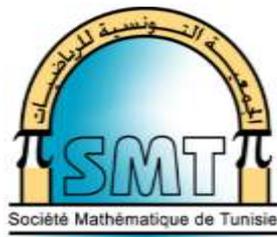
| Jeudi 25 avril 2024 | | |
|--|--|---|
| Salle 1 | Salle 2 | Salle 3 |
| <p>15 h 30 – 15 h 50 Marwa Ragoubi Analyse asymptotique et stabilité de l'équation d'onde avec potentiel singulier.</p> | <p>15 h 30 – 15 h 50 Nesrin Yousfi L^2 Inequality for a Modified Struve Transform.</p> | <p>15 h 30 – 15 h 50 Amal Mahjoub A relative vectorial multifractal formalism.</p> |
| <p>15 h 50 – 16 h 10 Ameni Guefrej Existence and multiplicity of homoclinic solutions for difference equations with a damping term.</p> | <p>15 h 50 – 16 h 10 Ibrahim Maktouf Dunkl-Weinstein multiplier operators and applications to reproducing kernel theory.</p> | <p>15 h 50 – 16 h 10 Rihab Guedri A note on fractal measures of product sets.</p> |
| <p>16 h 10 – 16 h 30 Wafa Selmi Multiple fast homoclinic solutions for a class of second order differential systems with p-Laplacian.</p> | <p>16 h 10 – 16 h 30 Raoudha Laffi Calderón's reproducing formulas for L^2-multiplier operator related to the K-Hankel transform.</p> | <p>16 h 10 – 16 h 30 Chiraz Kroumi Applications of measure of noncompactness of multivalued operators in the study of perturbation problem.</p> |
| <p>16 h 30 – 16 h 50 Abdelhakim Sahbani Infinitely many solutions for problems involving Laplacian and biharmonic operators.</p> | <p>16 h 30 – 16 h 50 Imen Rezgui Les variantes modifiées de la fonction de Bessel dans le cadre de la q-théorie.</p> | <p>16 h 30 – 16 h 50 Farid Touati Global dissipativity of fuzzy cellular fractional-order neural networks with time delays.</p> |
| <p>16 h 50 – 17 h 10 Houda Azaza Energy decay for two strongly coupled hyperpolic equations in exterior domain.</p> | <p>16 h 50 – 17 h 10 Youssef Bettaibi L'équation de Schrödinger associée à l'opérateur canonique de Bessel.</p> | <p>16 h 50 – 17 h 10 Fatma Jerbi On solving a ψ-shifted fractional differential system with integral boundary condition.</p> |



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| Jeudi 25 avril 2024 | | |
|--|---|---|
| 17 h 10 – 17 h 40 : Pause-café | | |
| Salle 1 | Salle 2 | Salle 3 |
| <p>17 h 40 – 18 h Lamine Mbarki A degenerate Kirchhoff-type problem involving variable $s(\cdot)$-order fractional $p(\cdot)$-Laplacian with weights.</p> | <p>17 h 40 – 18 h Randa Tahri On some topological properties in the class of Alexandroff spaces.</p> | <p>17 h 40 – 18 h Ahmed Hamed On S-GCD domains.</p> |
| <p>18 h – 18 h 20 Maroua Ltifi Strong solution of modified anisotropic 3D-Navier-Stokes equations with logarithmic damping.</p> | <p>18 h – 18 h 20 Sameh Bououn Un théorème de type Stone-Weierstrass pour un sous-treillis vectoriel tronqué de $C_0(X)$.</p> | <p>18 h – 18 h 20 Abdelmir Dabbabi Sous-anneaux de l'anneau de séries formelles.</p> |
| <p>18 h 20 – 18 h 40 Chourouk Bamri Asymptotic behavior for a dissipative nonlinear Schrödinger equation with time-dependant damping.</p> | <p>18 h 20 – 18 h 40 Kaouthar Kammoun Non central Riesz distribution on symmetric matrices.</p> | <p>18 h 20 – 18 h 40 Neama Zidani Some binary relations between orders and equality.</p> |
| <p>18 h 40 – 19 h Aida Jrajria Numerical method for blow-up solutions of nonlinear wave equations.</p> | <p>18 h 40 – 19 h Manel Jellali Fractions continues de Rosen.</p> | <p>18 h 40 – 19 h Mohamed Gdarat Points critiques à l'infini.</p> |
| 19 h – 21 h : Dîner | | |



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Vendredi 26 avril 2024

8 h 45 – 9 h : Ouverture

9 h – 9 h 45 : Hamadi Baklouti

A-invertibility of linear operators on semi-hilbertian spaces.

9 h 45 – 10 h 30 : Tej-Eddine Ghoul

Stable self-similar magnetic reconnection.

10 h 30 – 11 h : Pause-café

11 h – 11 h 45 : Clair Poignard

Mathematical and Numerical Challenges of Electroporation.

11 h 45 – 12 h 30 : Dante Kalise

Feedback Control Synthesis for Interacting Particle Systems across Scales.

12 h 30 – 14 h 30 : Déjeuner

14 h 30 – 15 h 15 : Morched Boughariou

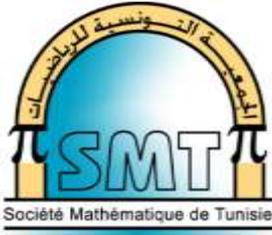
Sur les solutions hétéroclines de certains systèmes hamiltoniens du second ordre.



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| Salle 1 | Salle 2 | Salle 3 |
| <p>15 h 30 – 15 h 50 Aymen Bouaziz Local limits of Galton-Watson trees.</p> | <p>15 h 30 – 15 h 50 Karima Ghrairi Décomposition cubique d'une suite des polynômes orthogonaux semi-classiques de classe $s=1$.</p> | <p>15 h 30 – 15 h 50 Soumaya Idriss Exact covariances and refined asymptotics in dichromatic tenable balanced Pólya urn schemes.</p> |
| <p>15 h 50 – 16 h 10 Alaeddine Damergi On the properties of diagonally order bounded $n*n$ operator matrices and applications to a series of $n*n$ operator matrices.</p> | <p>15 h 50 – 16 h 10 Ziyad AlSharawi Clustering of polynomial zeros.</p> | <p>15 h 50 – 16 h 10 Nadia Belmabrouk Asymptotics of multivariate Hawkes process with long-range connectivity.</p> |
| <p>16 h 10 – 16 h 30 Aymen Daghar On ω-limit sets of non-autonomous discrete systems of $[0,1]$.</p> | <p>16 h 10 – 16 h 30 Abdelhamid Gahami Sur les polynômes d-orthogonaux de type Brenke.</p> | <p>16 h 10 – 16 h 30 Zaineb Smida Statistique de scan pour données fonctionnelles.</p> |
| <p>16 h 30 – 16 h 50 Farah Dridi Existence of Besicovitch almost automorphic solutions for differential equations.</p> | <p>16 h 30 – 16 h 50 Takoua Hamzaoui Characterizations of Besov spaces and their application by deep rectifier networks.</p> | <p>16 h 30 – 16 h 50 Emna Ghorbel The EM algorithm for the hidden Markov model with Riesz Emission.</p> |
| <p>16 h 50 – 17 h 10 Kamel Mahfoudhi Quaternionic Davis-Wielandt shell in a right quaternionic Hilbert space.</p> | <p>16 h 50 – 17 h 10 Souheyl Jendoubi Ornstein-Uhlenbeck Type operators induced by some geometric structures.</p> | <p>16 h 50 – 17 h 10 Asma Ben Saber Orthogonal systems based estimators for non-parametric and linear functional regression problems.</p> |



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| Salle 1 | Salle 2 | Salle 3 |
| 17 h 40 – 18 h Ines Chtourou Interplay between ε-pseudo generalized Fredholm operators and ε-pseudo weakly demicompact operators in Banach spaces. | 17 h 40 – 18 h Mohamed Ayadi Example of twisted bialgebras of finite topological quandles. | 17 h 40 – 18 h Mayssa Hammami Large Deviations of the heat flux into oscillator networks. |
| 18 h – 18 h 20 Abbes Benaissa Stability of the swelling porous elastic soils with fluid saturation with a single internal fractional damping. | 18 h – 18 h 20 Fouzia Rebbani Two parameters quasi-boundary value method for an abstract degenerate time-fractional backward problem. | 18 h – 18 h 20 Hamza Kahlaoui Reconstruction and stability analysis of potential appearing in time-fractional subdiffusion. |
| 18 h 20 – 18 h 40 Chafi Boudekhil Existence globale de formes différentielles relatives holomorphes exactes à paramètres complexes. | 18 h 20 – 18 h 40 Yamina Laskri Sur quelques nouvelles méthodes du gradient conjugué. | 18 h 20 – 18 h 40 Khouloud Ghabi Théorèmes de type Liouville pour des équations elliptiques fractionnaires avec condition de Robin sur le bord. |
| 18 h 40 – 19 h Dorsaf Kouas Frobenius Schur's decomposition for block operator matrices in right quaternionic Hilbert spaces. | 18 h 40 – 19 h Hanen Saadi Inversion formula and uncertainty inequalities for the Weinstein-type Segal-Bargmann transform. | 18 h 40 – 19 h Emmanuel Gnandi The Fisher metric defined on a parameterized family of probability density functions. |
| 19 h – 21 h : Dîner | | |
| 21 h – 22 h : Conférence grand public | | |



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Samedi 27 avril 2024

8 h 30 – 9 h 15 : Rachid El Harit

The amenability to algebraic and analytical perspective.

9 h 15 – 10 h : Jose S. Cánovas

The dynamics of the -Ricker model of order two.

10 h – 10 h 30 : Pause-café

10 h 30 – 11 h 15 : Ali Ben Amor

Continuity aspects for traces of Dirichlet forms with respect to monotone weak convergence of G -Kato measures.

11 h 15 – 12 h : Mouhamed Moustapha Fall

On some overdetermined boundary value problems.

12 h – 14 h : Déjeuner

14 h – 14 h 45 : Khemais Maktouf

Restriction of the metaplectic representation to an anisotropic torus.

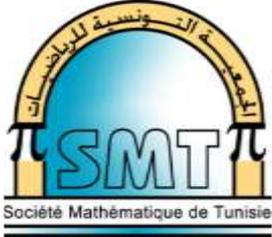
14 h 45 – 15 h 30 : Selma Negzaoui

Maximal functions for the (k, n) -Fourier transform and Applications.

15 h 30 – 16 h 30 : Session Posters

19 h – 21 h : Dîner

21 h – 22 h : Assemblée générale



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Dimanche 28 avril 2024

8 h 30 – 9 h 15 : Ali Gannoun

On Semiparametric Mode Regression Estimation.

9 h 15 – 10 h : Arnaud Le Ny

Décompositions extrémales de mesures de Gibbs.

10 h – 10 h 30 : Pause-café

10 h 30 – 11 h 15 : Nouredine Ghiloufi

On modified Bergman spaces.

11 h 15 – 12 h : Michel Rouleux

Tunneling for a semi-classical magnetic Schrödinger operator with symmetries.

12 h – 12 h 45 : Maher Moakher

Means of positive definite matrices with applications in science and engineering.

12 h 45 – 13 : Clôture

13 h – 14 h : Déjeuner