Heure	Lundi 16/12/2019
08h00-09h00	**Accueil des Participants**
09h00-09h30	**Cérémonie d'ouverture**
09h30-09h50	**Pause**
09h50-10h50	**Chairman: C. Ziti** **Conférence: Mohammed Seaid:** Enriched finite elements for time-dependent partial differential equations
	Session I: Analyse Numérique **Salle de Séminaires I** **Chairman: N. Maghraoui**
10h50-11h10	On the efficiency of some finite volume schemes for anisotropic convection-diffusion equations **E. QUENJEL**
11h10-11h30	Turbulence modeling using fractional derivatives **M.R. Amattouch**
11h30-11h50	High-order relaxation methods for non-equilibrium two-phase flow problems **F. HARBATE**
11h50-12h10	Fast new algorithm for viscous Burgers equation **M. Chaher**
12h10-12h30	A stabilized finite volume scheme for a coupled stokes-darcy problem **N. Kechkar**
12h30-12h50	Fractional Laplacian : Numerical simulations **M. Daoud**
12h50-14h30	**Déjeuner**
14h30-15h30	**Chairman: A. Chaira** **Conférence: Francisco Ortegon Gallego:** Heat treating of a steel helical gear: mathematical modelling, 3D triangulation and numerical simulation.
	Chairman: A. Hammam **Salle de Séminaires I**
15h30-15h50	A new iterative algorithm for a common solution of split equilibrium problems and fixed points problems of a finite family of nonexpansive mapping **I. Hay**
15h50-16h10	Analytical model for solving the 2D advection diffusion equation with logarithmic wind profile **D. Laaouaoucha**
16h10-16h30	A new method to resolve the heat system in 3 dimensions **R. Malek**
16h30-16h50	**Pause**
16h50-17h10	Finite element method for an III-posed problem **M.Jourhmane**
17h10-17h30	Optimization of dynamic data with dendritic cell algorithm **M. Borzoimi**
17h30-17h50	Numerical fractional Fokker-Planck equation analysis based on finite difference approximates **K. Bouha**
17h50-18h10	Solving an inverse problem **M. Nachaoui**
18h10-18h30	Analysis of a global reactive transport model and results for the MoMaS benchmark **S. Sabit**
18h30-18h50	A Posteriori estimation of residu type for some hybrid-dimensional models **I. Naji**

Heure	Lundi 16/12/2019
08h00-09h00	**Accueil des Participants**
09h00-09h30	**Cérémonie d'ouverture**
09h30-09h50	**Pause**
09h50-10h50	**Chairman: C. Ziti** **Conférence: Mohammed Seaid:** Enriched finite elements for time-dependent partial differential equations
	Session II: Contrôle & EDP **Salle 8.5** **Chairman: K. Ztot**
10h50-11h10	Mathematical modelling of fishing bioeconomic model including wind speed effects. **I. Agmour**
11h10-11h30	Fractional Order Perturbed Partial Hyperbolic Differential Equations with Infinite State-Dependent Delay in Banach Spaces **M. Helal**
11h30-11h50	Homogenization of a non local elasticity problem in a perforated medium **A.Ainouz**
11h50-12h10	Modeling crowd dynamics through optimal transport theory **A. EL FETTAH**
12h10-12h30	Modeling and vibration control of viscoelastic flexible spacecraft **A.BERKANI**
12h30-12h50	Numerical simulation of gas flow in lid driven micro-cavity using lattice boltzmann method **Y. Elguennouni**
12h50-14h30	**Déjeuner**
14h30-15h30	**Chairman: A. Chaira** **Conférence: Francisco Ortegon Gallego:** Heat treating of a steel helical gear: mathematical modelling, 3D triangulation and numerical simulation.
	Chairman: H.Bourray **Salle 8.5**
15h30-15h50	Existence of entropy solutions for strongly nonlinear anisotropic elliptic problem involving lower order terms and Hardy potential **M. Bouziani**
15h50-16h10	Failure rate estimation using the class of Generalized Birnbaum-Saunders kernels **S. CHEKKAL**
16h10-16h30	A new approach to Nonlinear Contractions via admissible mapping and FZ-simulation functions in Fuzzy Metric Spaces **A.Moussaoui**
16h30-16h50	**Pause**
16h50-17h10	The (alpha, beta) Fractional Anti-Zener model **M. Hassouna**
17h10-17h30	Stability of the wave equation governed by viscoelastic term **A. Khoukhi**
17h30-17h50	Average approximate sentinels for an identification problem **S.Sandel**
17h50-18h10	Parameters estimation, sensitivity analysis and model uncertainty for an Influenza epidemic model **O.Zakary**
18h10-18h30	Transformée de Fourier-Laplace des mesures orbitales et de leurs projections **M. FARESS**
18h 30-18h50	Time-Fractional Systems and Regional Controllability: Numerical Results **A.Tajani**

Heure	Lundi 16/12/2019
08h00-09h00	**Accueil des Participants**
09h00-09h30	**Cérémonie d'ouverture**
09h30-09h50	**Pause**
09h50-10h50	**Chairman: C. Ziti** **Conférence: Mohammed Seaid:** Enriched finite elements for time-dependent partial differential equations
Session III: Modélisation & EDP **Salle de Séminaires II** **Chairman: D. Seghir**
10h50-11h10	Weak partial stabilization of unbounded bilinear systems **R. El ayadi**
11h10-11h30	Polynomial decay rate estimate for a class of distributed bilinear systems with time delay **A. El Houch**
11h30-11h50	Contribution to the stabilization of a nonlinear delay system with unbounded control **A. DELBOUH**
11h50-12h10	Existence of solution for some nonlinear anisotropic unilateral elliptic problem **H.Hjiaj**
12h10-12h30	Calculating the $H2$-norm of a fractional system given in state-space form **A.Lakeb**
12h30-12h50	On the Solution of Singular Fractional Models by using Z.K transformation **M. Benaoued**
12h50-14h30	**Déjeuner**
14h30-15h30	**Chairman: A. Chaira** **Conférence: Francisco Ortegon Gallego:** Heat treating of a steel helical gear: mathematical modelling, 3D triangulation and numerical simulation.
Chairman: A. Youssefi **Salle de Séminaires II**
15h30-15h50	Optimal control of treatment and chemoprophylaxis in a spatiotemporal tuberculosis model **A.El Bhih**
15h50-16h10	PDI learning control (ILC) for a class of fractional differential equations **A. Berhail**
16h10-16h30	Existence results for impulsive partial functional fractional differential equation with state dependent delay **N. Abada**
16h30-16h50	**Pause**
16h50-17h10	Periodic Solutions for a Class of Partial Differential Equation using Semi-Fredholm Operators **M . Kriche**
17h10-17h30	Approximate null controllability for systems governed by fully nonlinear differential inclusion **O. Benniche**
17h30-17h50	Counting of the number of eigenvalues of a quadratic operator pencil in a square annulus **Boitumelo Moletsane**
17h50-18h10	On a class of fractional $p(x; \cdot)$-Laplacian Dirichlet problems with weight **M. SHIMI**
18h10-18h30	On behaviors of the energy of solutions for some damped hyperbolic equations of p Laplacian type **S.Mokeddem**
18h30-18h50	Entropy solutions of a quasilinear degenerated elliptic unilateral problems with L^1 data and without sign condition **S. M. Douiri**

Heure	Lundi 16/12/2019
08h00-09h00	**Accueil des Participants**
09h00-09h30	**Cérémonie d'ouverture**
09h30-09h50	**Pause**
09h50-10h50	**Chairman:** C. Ziti **Conférence:** **Mohammed Seaid:** Enriched finite elements for time-dependent partial differential equations
Session IV: Modélisation & ED   **Salle 8.6**   **Chairman: R. Bentahar**
10h50-11h10	Averaged sentinel and application in identification of pollution in a lake **H.Selatnia**
11h10-11h30	Existence solution of dirichlet problems with singular convection terms **O. Benslimane**
11h30-11h50	Control of a riser through the dynamic of the vessel **L.Seghour**
11h50-12h10	Topological Structures and Fixed Point in Colombeau Algebra **A.Taqbibt**
12h10-12h30	Weighted pseudo almost automorphic solution for systems of neutral nonlinear delay integral equations **A.sadrati**
12h30-12h50	Polynomial stabilization of an Euler-Bernoulli beam with a rigid hub **M.Segaoui**
12h50-14h30	**Déjeuner**
14h30-15h30	**Chairman:** A. Chaira **Conférence:** **Francisco Ortegon Gallego:** Heat treating of a steel helical gear: mathematical modelling, 3D triangulation and numerical simulation.
Chairman: M. El Fetnassi   **Salle 8.6**
15h30-15h50	Study of nonlinear parabolic problems in Musielak spaces with only the log-Hölder continuity condition **M. Ait Khellou**
15h50-16h10	Renormalized solution of nonlinear p(.)-parabolic equations with diffuse measure data **K. Moutaouakil**
16h10-16h30	A fractional model for ebola virus with continuous immigration of infectives **C. Taftaf**
16h30-16h50	**Pause**
16h50-17h10	Uniqueness of renormalized solutions to nonlinear parabolic problems with lower order terms **B. El Hamdaoui**
17h10-17h30	Existence and boundedness of solutions for systems of difference equations with infinite delay **M. A. Slimani**
17h30-17h50	Dynamic of a stochastic SIR model with vaccination and nonlinear incidence rate **A. EL Koufi**
17h50-18h10	Regularizing Effect of a Lower Order Term in Dirichlet Problems with a Singular Convection Term **Y. El Hadfi**
18h10-18h30	Solving the linear difference equation with periodic coefficients via Fibonacci sequences **H. Benkhaldoun**
18h 30-18h50	Stefan problems with nonlinear diffusion and convection **M. EL Ansari**

Heure	Mardi 17/12/2019
09h00-10h00	**Chairman:** H. Allouch **Conférence: Domingo Barrera:** Non-standard quasi-interpolation on three-directional meshes
10h00 -11h00	**Chairman:** E . Zerrik **Conférence: Carole Rosier:** Uniqueness for a cross-diffusion system issuing from seawater intrusion problems
11h00-11h15	**Pause**
	Session I: Analyse Numérique **Salle de Séminaires I** **Chairman: N. Samouh**
11h15-11h35	Finite volume methods for seawater intrusion models in coastal aquifers **K. Talali**
11h35 -11h55	An analytical solution of the steady state three-dimensional turbulent dispersion equation from a logarithmic velocity distribution in the planetary boundary layer **M. Farhane**
11h55-12h15	Space-Time Error Estimates for a Supervised Learning Neural Network **K. Benmanssour**
12h15-12h35	A Meta-Heuristic Algorithm for solving an inverse problem for the Laplace equation **J.Daoudi**
12h35-12h55	An efficient method for the inverse function based on the Hermite interpolation in B-spline form **A. EL HILALI**
12h55-14h30	**Déjeuner**
14h30-15h30	**Chairman:** M. Sarih **Conférence: Roland Masson:** Modélisation et discrétisation des écoulements diphasiques aux milieux poreux fracturés.
	Chairman: A. Faik **Salle de Séminaires I**
15h30-15h50	Modélisation et Résolution de manière analytique les équations d'un circuit électrique comprenant une résistance et une diode de tension d'excitation carrée en utilisant le logiciel Maple **EL aydi Mhamed**
15h50-16h10	On the study of some nonlinear anisotropic elliptic problems with Neumann boundary condition **R. Bentahar**
16h10-16h30	A cubesat thermal analysis using finite element modelling program **A. Akka**
16h30-16h50	**Pause**
16h50-17h10	Inhomogeneous Lognormal stochastic diffusion process with exogeneous factors **I. Makroz**
17h10-17h30	A new numerical method for 1-D backward stochastic differential equations without using conditional expectations **S. HADIRI**
17h30-17h50	On a singular neutron transport equation with bounce-back boundary conditions **Y. Kosad**
17h50-18h10	Modélisation conjointe de la production, de la qualité et de la maintenance dans le cadre de la sous-traitance, en tenant en compte la contrainte logistique : multi produits **N. Hafidi**
18h10-18h30	Numerical solution for the heat equation with nonlocal boundary conditions with application to thermoelasticity. **S . Dehilis**
18h30-18h50	Numerical Solution of a Frictionless Contact Problem for Piezoelectric Materials **Y. Ouafik**

Heure	Mardi 17/12/2019
09h00-10h00	**Chairman:** H. Allouch **Conférence:** Domingo Barrera: Non-standard quasi-interpolation on three-directional meshes
10h00 -11h00	**Chairman:** E . Zerrik **Conférence:** Carole Rosier: Uniqueness for a cross-diffusion system issuing from seawater intrusion problems
11h00-11h15	**Pause**
Session II: Contrôle & EDP **Salle 8.5** **Chairman: R. Larhrissi**
11h15-11h35	
11h35 -11h55	Spatial Optimal Control Model Intervening in Dengue Spreading. **E. Erraji**
11h55-12h15	Global Stability for an SIR Reaction-Diffusion Epidemic Model **A. Lamrani**
12h15-12h35	Controllability radius for semigroup Systems **A. Merghad**
12h35-12h55	Stabilization of parabolic coupled systems by multiplicative controls **Ilyasse LAMRANI**
12h55-14h30	**Déjeuner**
14h30-15h30	**Chairman:** M. Sarih **Conférence:** Roland Masson: Modélisation et discrétisation des écoulements diphasiques aux milieux poreux fracturés.
Chairman: A.Kamal   **Salle 8.5**
15h30-15h50	On a two-phase flow model in nanoporous media **I.Melzi**
15h50-16h10	On the stabilization of infinite dimensional bilinear systems using bounded controls **A. Ait Aadi**
16h10-16h30	Global stability of fractional diffusion systems with Caputo derivative **H. Zitane**
16h30-16h50	**Pause**
16h50-17h10	Entropy solution of nonlinear elliptic problems having large monotonocity with $L1$-data in weighted Orlicz-Sobolev spaces **B. El haji**
17h10-17h30	Stabiliztion of the Schrodinger Equation with a delay term in boundary feedback and memory **Nawel Abdesselam**
17h30-17h50	Minimum energy control of fractional linear systems using Caputo-Fabrizio derivative **T.karite**
17h50-18h10	Bifurcation analysis for prey-predator model with holling functional response iii incorporating prey refuge **O.lazaar**
18h10-18h30	Time fractional Black-Scholes equation: Lie symmetry analysis, exact solutions and conservation laws **Y . Chatibi**
18h 30-18h50	Problem of discretization and influence on the Asymptotic stability of a bi-dimensional hybrid fractional linear systems **S. BOUGUESSA**

Heure	Mardi 17/12/2019
09h00-10h00	**Chairman: H. Allouch** **Conférence: Domingo Barrera:** Non-standard quasi-interpolation on three-directional meshes
10h00 -11h00	**Chairman: E . Zerrik** **Conférence: Carole Rosier:** Uniqueness for a cross-diffusion system issuing from seawater intrusion problems
11h00-11h15	**Pause**
	Session III: Modélisation & EDP **Salle de Séminaires II** **Chairman: Y. Akdim**
11h15-11h35	Relaxation procedures for an iterative algorithm for solving Cauchy problem in linear elasticity equation **A. Ousaadane**
11h35 -11h55	Analysis and evaluation of uncertainty using GUM and Monte Carlo MCM methods, when minimizing acidity of yoghurt by using experimental design methodologie RSM. **A.AIT ELKASSIA**
11h55-12h15	Harmonic Maps as Solution of Nonlinear Partial Differential Equation **N.E.H. Djaa**
12h15-12h35	Existence and uniqueness of a solutions of nonlinear degenerated equations **A. Barbara**
12h35-12h55	Exponential growth of solutions to system of nonlinear Klein-Gordon with degenerate damping and source terms **F. Yazid**
12h55-14h30	**Déjeuner**
14h30-15h30	**Chairman: M. Sarih** **Conférence: Roland Masson:** Modélisation et discrétisation des écoulements diphasiques aux milieux poreux fracturés.
	Chairman: J.H'michan **Salle de Séminaires II**
15h30-15h50	A generalization of fixed point theorems about F-contraction in particular generalized asymmetric spaces **A. Kari**
15h50-16h10	Capacity solution for a perturbed nonlinear parabolic-elliptic coupled system **R. Elarabi**
16h10-16h30	Robin's problem for the nonlinear elasticity system in Sobolev spaces with variable exponents **B.MEROUANI**
16h30-16h50	**Pause**
16h50-17h10	On a class of fractional $(p(\cdot); q(\cdot))$-Kirchhoff type elliptic systems **A. BOUMAZOURH**
17h10-17h30	Three solutions for a nonlocal fractional $(p; q)$-Schrödinger-Kirchhoff system **M. SRATI**
17h30-17h50	On a fractionally damped nonlinear thermoelastic system **A.Kelleche**
17h50-18h10	On the solvability of some class of quasilinear elliptic systems **F.Balaadich**
18h10-18h30	Bounded solution for nonlinear elliptic equations with degenerate coercivity **R.Elharch**
18h 30-18h50	Lie symmetry analysis for solving the flow of a third grade fluid between two parallel plates **T. Amtout**

Heure	Mardi 17/12/2019
09h00-10h00	**Chairman:** H. Allouch **Conférence:** **Domingo Barrera:** Non-standard quasi-interpolation on three-directional meshes
10h00 -11h00	**Chairman:** E . Zerrik **Conférence:** **Carole Rosier:** Uniqueness for a cross-diffusion system issuing from seawater intrusion problems
11h00-11h15	**Pause**
Session IV: Modélisation & ED **Salle 8.6** **Chairman: M. Zitane**
11h15-11h35	Pseudo-Almost Automorphic Solutions to a Neutral Delay Integral Equation of Advanced Type **M. Essaiydy**
11h35 -11h55	Free streamline for a flow around triangular obstacle **F . Chedala**
11h55-12h15	General Decay for a System of Viscoelastic Wave Equations **A. Benzian**
12h15-12h35	Dynamic differential oligopoly game with hyperbolic demand and cubic cost **A . Kaddar**
12h35-12h55	Ventcel-type transmission conditions for a Poisson problem **K .E. Boutarene**
12h55-14h30	**Déjeuner**
14h30-15h30	**Chairman:** M. Sarih **Conférence:** **Roland Masson:** Modélisation et discrétisation des écoulements diphasiques aux milieux poreux fracturés.
Chairman : M. El Fetnassi   Salle 8.6
15h30-15h50	Harmonic Maps as Solution of Nonlinear Partial Differential Equation **M. Djaa**
15h50-16h10	Existence of periodic solutions for time fractional nonlinear parabolic differential equations **A. Alla Hamou**
16h10-16h30	A Methodology for a Probabilistic Security Analysis of Sharding-Based Blockchain Protocols **A .Hafid**
16h30-16h50	**Pause**
16h50-17h10	Labor force model: Stability and Bautin bifurcation **S. Elfadily**
17h10-17h30	Fractional Order Perturbed Partial Hyperbolic Differential Equations with Infinite State-Dependent Delay in Banach Spaces **M. Helal**
17h30-17h50	Variable Selection Procedures for Multi-Varied Logistics Models and Application **M. Chikhi**
17h50-18h10	Fixed point theorem for Hardy Rogers contraction In JS metric Space **Y . El Kouch**
18h10-18h30	On powers of doubly Leslie matrix by r-generalized Fibonacci sequences **ALOUI Amal**
18h30-18h50	Averaging for fuzzy differential euations **A. Bouraada**

Heure	Mercredi 18/12/2019
09h00-10h00	**Chairman: R. Bentaher** **Conférence: Hassan SAFOUHI:** Techniques in Numerical Integration
10h00 -11h00	**Chairman: M . El fetnassi** **Conférence: Abdellatif CHAÏRA:** L'utilisation de l'indentité de Rellich dans la théorie des E.D.P
11h00-11h15	**Pause**
Session I: Analyse Numérique **Salle de Séminaires I** **Chairman: M. Ossmani**
11h15-11h35	Iterative Collocation Method for Solving linear Volterra integro-differential equations (vides) **R. Khaoula**
11h35 -11h55	2D CFD analysis of the efficiency of fixed OWC device for Wave Energy Conversion **M . Jebli**
11h55-12h15	A numerical approximation with the weighted least-squares/SUPG method for the White-Metzner viscoelastic flows **L. Zmour**
12h15-12h35	Convergence Analysis of an Approximation to heat transport in Porous Media by Combining Mixed Finite Element and Finite Volume Methods **O . El Moutea**
12h35 -12h55	The general Jacobi wavelets method for solving ordinary differential equations **N. Abbassa**
12h55-14h30	**Déjeuner**
Chairman: A. Taakili   Salle de Séminaires I
14h30-14h50	Invariant analysis of time fractional generalized Burger equation **N. Maarouf**
14h50-15h10	An adaptive finite element method for Wick Stochastic partial differential equations **A . El Bouayadi**
15h10-15h30	Boltzmann Equation and BGK Model **R. Ghafiri**
15h30-15h50	A numerical solution for the coupled of two-dimensional conformable derivative Burgers'equations **A.Laouar**
15h50-16h10	Galerkin Approximation for One-Dimensional Wave Equation by Modified Quadratic B-Splines **N. ARAR**
16h10-16h30	Numerical analysis of a nonlinear discrete duality finite volume scheme for the m-laplacien in orlicz spaces **N. Staïli**
16h30-16h50	The localized rbfs collocation methods to solve chemotaxis model **M. Lahrache**
16h50-17h10	Oscillations induced by Quiescent Adult Female in a Reaction Diffusion Model of Wild Aedes Aegypti Mosquitoes **A.Aghriche**
17h10-17h30	Development of an Algorithm for the Estimation of GARCH model parameters **A.Settar**
17h30-17h50	Approximate null-controllability for systems governed by fully nonlinear differential inclusion **M. Hachama**

Heure	Mercredi 18/12/2019
09h00-10h00	**Chairman: R. Bentaher** **Conférence: Hassan SAFOUHI:** Techniques in Numerical Integration
10h00 -11h00	**Chairman: M . El fetnassi** **Conférence: Abdellatif CHAÏRA:** L'utilisation de l'indentité de Rellich dans la théorie des E.D.P
11h00-11h15	**Pause**
Session II: Contrôle & EDP, Salle 8.5 **Chairman: F.Z.El Allaoui**	
11h15-11h35	An Approach for Regional Reconstruction of the Initial State for a Class of Semilinear Fractional Systems **K. Zguaid**
11h35 -11h55	On the integrability of 3d armbruster guckenheimer kim galactic potential **W. Chatar**
11h55-12h15	Improvement combined with (analysis, CSP, Arithmetic analysis and Interval) of Simulations for efficient combination of two lower bound functions in univariate global optimization and generalization **M. Chebbah**
12h15-12h35	A SIRF Model for Controlling the Spread of Information **H.Boutayeb**
12h35-12h55	Pitting corrosion model of steels C-Mn used in the petroleum industry: Modeling and Mathematical Analysis **N. Idrissi Fatmi**
12h55-14h30	**Déjeuner**
Chairman: M.Serhani Salle 8.5	
14h30-14h50	The transient response to an equatorial heat source and its convergence to steady state: implications for MJO theory **A. KACIMI**
14h50-15h10	Estimating the tail var of waltmart stock data **M.T. Fawzi**
15h10-15h30	Contrôlabilité à zéro **I.Rezzoug**
15h30-15h50	Topology in Colombeau algebra **M . Chaib**
15h50-16h10	Fractal dimension of M(p,k,r,n) arcs **O. Boussoufi**
16h10-16h30	Optimal control problem for risk-sensitive mean-field type **H. Dahbia**
16h30-16h50	Optimal control and RBSDE **K. Oufdil**
16h50-17h10	Numerical Solution of a Frictionless Contact Problem for Piezoelectric Materials **Y.OUAFIK**
17h10-17h30	Exact controllability of a stochastic parabolic system **A.Noudjoud Hamdi**
17h30-17h50	NURBS-Based Geometry Parametrization adaption for shape optimization **N. Houari**
17h50-18h10	A hybrid method for variational inequalities over fixed point sets of multimaps **M. Meddahi**
18h10-18h30	A Meta-Heuristic Algorithm for solving an inverse problem for the Laplace equation **H. DAOUDI**
18h30-18h50	Stabilization of Bilinear Systems **L. Ezzaki**

Heure	Mercredi 18/12/2019
09h00-10h00	**Chairman: R. Bentaher** **Conférence: Hassan SAFOUHI:** Techniques in Numerical Integration
10h00 -11h00	**Chairman: M . El fetnassi** **Conférence: Abdellatif CHAÏRA:** L'utilisation de l'indentité de Rellich dans la théorie des E.D.P
11h00-11h15	**Pause**
Session III: Modélisation & EDP **Salle de Séminaires II** **Chairman: Y. Akdim**
11h15-11h35	A Discretised Approach for a PDE-constrained Bi-objective Optimal Control Problem governed by Advection-Diffusion-Reaction Equation **S. Zelmat**
11h35 -11h55	Homogenization of Non-Newtonian Fluids Crossing Thin Porous Layers **J. El Amrani**
11h55-12h15	Another definition of weakly controllability **I. Kaarer**
12h15-12h35	Elliptic equations on a Riemannian manifold **A. Abnoune**
12h35-12h55	New Results on Abstract Differential Equations of Elliptic Type with General Robin Boundary Conditions in Hölder Spaces: Non-commutative Cases **M. Cheggag**
12h55-14h30	**Déjeuner**
Chairman: M.Ouanan   Salle de Séminaires II
14h30-14h50	Limit behavior of a elliptic boundary problem with variable exponent on an oscillating thin layer **H. Maadan**
14h50-15h10	Existence of a weak solution of some quasilinear elliptical system in a weighted Sobolev space **E. RAMI**
15h10-15h30	Existence result of nonlinear parabolic systems in Musielack-Orlicz space **A. El Ouardani**
15h30-15h50	Cardinal Functions for Solving Stochastic Integral Equations **R. Zeghdane**
15h50-16h10	Development of neuronal statistical model for the prediction of the relative humidity rate of the Rabat-Kenitra region(Morocco) **K. Azhari**

Heure	Mercredi 18/12/2019
09h00-10h00	**Chairman: R. Bentaher** **Conférence: Hassan SAFOUHI:** Techniques in Numerical Integration
10h00 -11h00	**Chairman: M . El fetnassi** **Conférence: Abdellatif CHAÏRA:** L'utilisation de l'indentité de Rellich dans la théorie des E.D.P
11h00-11h15	**Pause**
Session IV: Modélisation & ED **Salle 8.6** **Chairman: A. Mounir**
11h15-11h35	On the time fractional differential equations with integral conditions **A.Merad**
11h35 -11h55	A dynamic contact between elasto-viscoplastic piezoelectric bodies **H.A . Tedjani**
11h55-12h15	Distorted tail conditional expectation risk measure for heavy tailed process **H. Ouadjed**
12h15-12h35	Blow up result for second-order abstract viscoelastic equation in Hilbert spaces with infinite memory and time-varying delay **Y. Boukhatem**
12h35 -12h55	Logarithmic derivative and linear differential equations near a singular point **S. Hamouda**
12h55-14h30	**Déjeuner**
Chairman: A. El Baraka   Salle 8.6
14h30-14h50	Diameter, Upper Traceable Number and Radio k-Labeling Number of Generalized Petersen Graphs **L. Loudiki**
14h50-15h10	The desired direction in the graph theory **A.Lamghari**
15h10-15h30	Numerical solution of a new fractional model **M. Tahiri**
15h30-15h50	A Developed Formula of Faà di Bruno and New Finite Series **G. Chaachoui**
15h50-16h10	Study of Hadamard fractional differential equations on an infinite interval with integral boundary value conditions **N. Tabouche**
16h10-16h30	A Limit case of Nonlinear elliptic problems involving the n-Laplacian with maximal growth **A. Elattar**
16h30-16h50	Goodness-of-fit tests for Kumaraswamy generalized exponential distributions **K. AIDI**
16h50-17h10	Operators satisfying a non normality condition **A.n.bakir**
17h10-17h30	On a fractional equation with potential depending on parameter **M.Massar**
17h30-17h50	On the global behavior of a rational non autonomous difference equation **N. TOUAFEK**
17h50-18h10	Exponential inequalities in linear calibration problem with α-mixing random data **S. Khalfoune**
18h10-18h30	Study of $2m$-th order parabolic equation in non-symmetric conical domains **S. Cherfaoui**