

# MINI-CONGRÈS DES MATHÉMATICIENS ALGÉRIENS



MCMA'2021  
M'sila

MCMA'2021

27 – 28 OCTOBRE 2021

M'SILA – BOU SAADA



Sous le haut parrainage de Monsieur le Ministre de l'Enseignement Supérieur et de la Recherche Scientifique

<b>Programme du MCMA'2021</b>		
<b>Horaire</b>	<b>Mercredi 27 Octobre 2021 (M'sila)</b>	<b>Jeudi 28 Octobre 2021 (Bou Saada)</b>
08:00 - 08:20	<b>Approbation d'accès</b>	
08:20 - 08:40		
08:40 - 09:00	<b>Cérémonie d'Ouverture</b>	
09:00 - 09:20		
09:20 - 09:40	<b>Conférence Plénière n°1</b>	<b>Conférence Plénière n°3</b>
09:40 - 10:00		
10:00 - 10:20		<b>Pause</b>
10:20 - 10:40		<b>Pause</b>
10:40 - 11:00	<b>Assemblée Générale de la SMA</b>	<b>Sessions Parallèles (T4)</b>
11:00 - 11:20		
11:20 - 11:40		<b>Sessions Parallèles (T5)</b>
11:40 - 12:00		
12:00 - 12:20		
12:20 - 12:40	<b>Pause</b>	<b>Pause</b>
12:40 - 13:00		
13:00 - 13:20		
13:20 - 13:40	<b>Conférence Plénière n°2</b>	<b>Conférence Plénière n°4</b>
13:40 - 14:00		
14:00 - 14:20		
14:20 - 14:40	<b>Pause</b>	<b>Pause</b>
14:40 - 15:00	<b>Sessions Parallèles (T1)</b>	<b>Sessions Parallèles (T6)</b>
15:00 - 15:20		
15:20 - 15:40		
15:40 - 16:00	<b>Sessions Parallèles (T2)</b>	<b>Pause</b>
16:00 - 16:20		<b>Cérémonie de clôture</b>
16:20 - 16:40		
16:40 - 17:00	<b>Sessions Parallèles (T3)</b>	
17:00 - 17:20		

## Conférences Plénières

N°	Intitulé	Présentée par :	Modérateur
1	<b>Modélisation mathématique des épidémies</b>	<b>Prof. MOUSSAOUI Ali</b> Université de Tlemcen	<b>BENHAMIDOUCHE</b> Noureddine
2	<b>On nonlinear time series modeling: application in economics and finance</b>	<b>Prof. HAMDI Fayçal</b> USTHB - Alger	<b>SOUILAH</b> Messaoud
3	<b>Le Chémostat : Théorie mathématique des cultures de micro-organismes</b>	<b>Prof. SARI Tewfik</b> Université de Montpellier	<b>BEBBOUCHI</b> Rachid
4	<b>Fonctions presque périodiques de type Orlicz : géométrie et applications aux équations différentielles</b>	<b>Prof. BOULAHIA Fatiha</b> Université de Bejaia	<b>NOURI</b> Fatma Zohra

## Sessions parallèles

<b>Code</b>	<b>Session</b>	<b>Responsables</b>
<b>S1</b>	<b>EDO et Systèmes Dynamiques</b>	<b>BEBBOUCHI Rachid</b> et <b>MOUSSAOUI Ali</b>
<b>S2</b>	<b>EDP</b>	<b>SENGOUGA Abdelmohcen</b> et <b>HACHAMA Mohamed</b>
<b>S3</b>	<b>Analyse Fonctionnelle</b> et <b>Théorie des Opérateurs</b>	<b>SOUILAH Messaoud</b> et <b>DAHIA El-Hadj</b>
<b>S4</b>	<b>Mathématiques Appliquées</b> et <b>Analyse Numérique</b>	<b>NOURI Fatma Zohra</b> et <b>CHERIET Djamel Eddine</b>
<b>S5</b>	<b>Algèbre et Géométrie</b>	<b>ZEDAME Lemnouar</b> et <b>BELOUADHEH Hocine</b>
<b>S6</b>	<b>Probabilités Statistique</b> <b>Recherche Opérationnelle</b> et <b>Optimisation</b>	<b>AIDER Meziane</b> et <b>EL SAADI Nadjia</b>

## Programme des Sessions parallèles

Date	Créneau	Session	Horaire	Code communication
<b>MERCREDI 27/10/2021</b>	<b>T1: 14:40 - 15:40</b>	S1	14:40-15:00	C1.1.1
			15:00-15:20	C1.1.2
			15:20-15:40	C1.1.3
		S2	14:40-15:00	C1.2.1
			15:00-15:20	C1.2.2
			15:20-15:40	C1.2.3
		S3	14:40-15:00	C1.3.1
			15:00-15:20	C1.3.2
			15:20-15:40	C1.3.3
		S5	14:40-15:00	C1.5.1
			15:00-15:20	C1.5.2
			15:20-15:40	C1.5.3
	S6	14:40-15:00	C1.6.1	
		15:00-15:20	C1.6.2	
		15:20-15:40	C1.6.3	
	<b>T2: 15:40 - 16:40</b>	S1	15:40-16:00	C2.1.1
			16:00-16:20	C2.1.2
			16:20-16:40	C2.1.3
		S2	15:40-16:00	C2.2.1
			16:00-16:20	C2.2.2
			16:20-16:40	C2.2.3
		S3	15:40-16:00	C2.3.1
			16:00-16:20	C2.3.2
			16:20-16:40	C2.3.3
S5		15:40-16:00	C2.5.1	
		16:00-16:20	C2.5.2	
		16:20-16:40	C2.5.3	
S6	15:40-16:00	C2.6.1		
	16:00-16:20	C2.6.2		
	16:20-16:40	C2.6.3		

<b>Sessions parallèles</b>				
<b>Date</b>	<b>Créneau</b>	<b>Session</b>	<b>Horaire</b>	<b>Code communication</b>
<b>MERCREDI 27/10/2021</b>	<b>T3: 16:40 - 17:20</b>	<b>S2</b>	<b>16:40-17:00</b>	<b>C3.2.1</b>
			<b>17:00-17:20</b>	<b>C3.2.2</b>
		<b>S3</b>	<b>16:40-17:00</b>	<b>C3.3.1</b>
			<b>17:00-17:20</b>	<b>C3.3.2</b>
		<b>S5</b>	<b>16:40-16:50</b>	<b>P3.5.1</b>
			<b>16:50-17:00</b>	<b>P3.5.2</b>
		<b>S6</b>	<b>16:40-17:00</b>	<b>C3.6.1</b>
			<b>17:00-17:10</b>	<b>P3.6.1</b>
			<b>17:10-17:20</b>	<b>P3.6.2</b>

<b>Sessions parallèles</b>				
<b>Date</b>	<b>Créneau</b>	<b>Session</b>	<b>Horaire</b>	<b>Code communication</b>
<b>JEUDI 28/10/2021</b>	<b>T4: 10:20 - 11:20</b>	<b>S1</b>	<b>10:20-10:40</b>	<b>C4.1.1</b>
			<b>10:40-11:00</b>	<b>C4.1.2</b>
			<b>11:00-11:20</b>	<b>C4.1.3</b>
		<b>S2</b>	<b>10:20-10:40</b>	<b>C4.2.1</b>
			<b>10:40-11:00</b>	<b>C4.2.2</b>
			<b>11:00-11:20</b>	<b>C4.2.3</b>
		<b>S4</b>	<b>10:20-10:40</b>	<b>C4.4.1</b>
			<b>10:40-11:00</b>	<b>C4.4.2</b>
			<b>11:00-11:20</b>	<b>C4.4.3</b>
		<b>S6</b>	<b>10:20-10:40</b>	<b>C4.6.1</b>
			<b>10:40-11:00</b>	<b>C4.6.2</b>
			<b>11:00-11:20</b>	<b>C4.6.3</b>
	<b>T5: 11:20 - 12:20</b>	<b>S1</b>	<b>11:20-11:40</b>	<b>C5.1.1</b>
			<b>11:40-12:00</b>	<b>C5.1.2</b>
			<b>12:00-12:20</b>	<b>C5.1.3</b>
		<b>S2</b>	<b>11:20-11:40</b>	<b>C5.2.1</b>
			<b>11:40-12:00</b>	<b>C5.2.2</b>
			<b>12:00-12:20</b>	<b>C5.2.3</b>
		<b>S4</b>	<b>10:20-10:40</b>	<b>C5.4.1</b>
			<b>10:40-11:00</b>	<b>C5.4.2</b>
			<b>11:00-11:20</b>	<b>C5.4.3</b>
		<b>S6</b>	<b>11:20-11:40</b>	<b>C5.6.1</b>
			<b>11:40-12:00</b>	<b>C5.6.2</b>
			<b>12:00-12:20</b>	<b>C5.6.3</b>

## Sessions parallèles

Date	Créneau	Session	Horaire	Code communication
<b>JEUDEI 28/10/2021</b>	<b>T6: 14:40 - 15:40</b>	S1	14:40-14:50	P6.1.1
			14:50-15:00	P6.1.2
			15:00-15:10	P6.1.3
			15:10-15:20	P6.1.4
		S2	14:40-14:50	P6.2.1
			14:50-15:00	P6.2.2
			15:00-15:10	P6.2.3
			15:10-15:20	P6.2.4
			15:20-15:30	P6.2.5
		S3	14:40-14:50	P6.3.1
			14:50-15:00	P6.3.2
			15:00-15:10	P6.3.3
			15:10-15:20	P6.3.4
			15:20-15:30	P6.3.5
			15:30-15:40	P6.3.6
			15:30-15:50	P6.3.7
		S4	14:40-15:00	C6.4.1
			15:00-15:20	C6.4.2
			15:20-15:30	P6.4.1
		S5	14:40-15:00	C6.5.1
			15:00-15:20	C6.5.2
			15:20-15:40	C6.5.3
		S6	14:40-14:50	P6.6.3
			14:50-15:00	P6.6.4
			15:00-15:10	P6.6.5
			15:10-15:20	P6.6.6
			15:20-15:30	P6.6.7



# S1: EDO et Systèmes Dynamiques

N° EsChr	Code	Titre	Présentée par :
<b>57</b>	C1.1.1	<b>ON AN UPPER BOUND FOR THE SPREADING SPEED OF A POPULATION</b>	<b>MESK Mohammed</b> and <b>MOUSSAOUI Ali</b>
<b>23</b>	C1.1.2	<b>ON A CLASS OF DIFFERENTIAL SYSTEMS WITH EXPLICIT LIMIT CYCLES</b>	<b>KINA Abdelkrim,</b> <b>BERBACHE Aziza</b> and <b>BENDJEDDOU</b> <b>Ahmed</b>
<b>59</b>	C1.1.3	<b>EXISTENCE OF A UNIQUE PSEUDO ALMOST-PERIODIC SOLUTION OF A COMPETITION AND COOPERATION MODEL OF TWO ENTERPRISES WITH PROPORTIONAL DELAY</b>	<b>M'HAMDI</b> <b>Mohammed Salah</b>
<b>74</b>	C2.1.1	<b>NONLINEAR IMPULSIVE BOUNDARY VALUE PROBLEM WITH PARAMETER</b>	<b>BELATTAR Zokha</b>
<b>92</b>	C2.1.2	<b>AN EXISTENCE RESULTS FOR A FRACTIONAL DIFFERENTIAL EQUATION WITH <math>\phi</math>-FRACTIONAL DERIVATIVE</b>	<b>BEDDANI Moustafa</b>
<b>140</b>	C2.1.3	<b>EXISTENCE AND HYERS-ULAM STABILITY OF A COUPLED SYSTEM OF FRACTIONAL INTEGRO-DIFFERENTIAL EQUATIONS WITH RANDOM EFFECTS IN GENERALIZED BANACH SPACE</b>	<b>FREDJ Fouad</b>
<b>37</b>	C4.1.1	<b>EXISTENCE AND STABILITY FOR A SEMILINEAR FRACTIONAL DIFFERENTIAL EQUATION WITH TWO DELAYS</b>	<b>ATMANIA Rahima</b>
<b>66</b>	C4.1.2	<b>ON STABILITY OF NON-LINEAR FRACTIONAL DIFFERENCE SYSTEMS WITH INCOMMENSURATE ORDER</b>	<b>DJENINA</b> <b>Nouredine</b>

<b>49</b>	<b>C4.1.3</b>	<b>A NEW CLASS OF FRACTIONAL ORDER PARTIAL DIFFERENTIAL EQUATIONS: SOME EXISTENCE AND UNIQUENESS RESULTS</b>	<b>OUAGUENI Nora,</b> ARIOUA Yacine and <b>BENHAMIDOUCHE</b> Nouredine
<b>112</b>	<b>C5.1.1</b>	<b>ON THE MAXIMUM NUMBER OF LIMIT CYCLES OF GENERALIZED POLYNOMIAL LIENARD SYSTEM</b>	<b>HAMAMDA Meriem</b> and Makhlouf Amar
<b>96</b>	<b>C5.1.2</b>	<b>STABILIZATION OF A EULER-BERNOULLI BEAM WITH AN END-MASS</b>	<b>LEKDIM Billal</b>
<b>18</b>	<b>C5.1.3</b>	<b>A NOTE ON AN OPEN CONJECTURE IN RATIONAL DYNAMICAL SYSTEM</b>	<b>ZERAOULIA Rafik</b>

<b>99</b>	<b>P6.1.1</b>	<b>STABILITY ANALYSIS FOR BAM NEURAL NETWORKS INVOLVING TIME DELAYS</b>	<b>OTHMANI Sakina,</b> TATAR Nasser Eddine and KHEMMOUDJ Ammar
<b>84</b>	<b>P6.1.2</b>	<b>AN EVOLUTION PROBLEM INVOLVING TIME AND STATE DEPENDENT MAXIMAL MONOTONE OPERATORS</b>	<b>FENNOUR Fatima</b> and SAIDI Somia
<b>64</b>	<b>P6.1.3</b>	<b>VIABLE SOLUTIONS FOR FIRST ORDER DIFFERENTIAL INCLUSIONS WITHOUT CONVEXITY</b>	<b>FETOUCI Nora</b> and YAROU Mustapha
<b>16</b>	<b>P6.1.4</b>	<b>LEUKEMIA MODEL WITH DELAY</b>	<b>BOUIZEM Nacéra,</b> HELAL Mohamed and LAKMECHE Abdelkader



## S2 : EDP

N° EsChr	Code	Titre	Présentée par :
<b>41</b>	C1.2.1	ESTIMATION DE SOLUTIONS APPROCHÉES DE L'ÉQUATION DE LA CHALEUR AVEC UN COEFFICIENT DE DIFFUSION NON CONSTANT	<b>NEMDILI Amina</b>
<b>31</b>	C1.2.2	ÉTUDE DE L'ÉQUATION DE COAGULATION ET DE LA CHUTE DE GOUTTELETTES SPHÉRIQUES DE RAYON STRICTEMENT POSITIF	<b>BOUMASSATA Safia,</b> KAIDOUCHI Wahida and YASHIMA Hisao Fujita
<b>25</b>	C1.2.3	HOMOGENIZATION OF NONLOCAL ELLIPTIC BOUNDARY VALUE PROBLEMS	<b>ZAUCHE Elmehdi</b>
<b>12</b>	C2.2.1	DETERMINING RADIALLY SYMMETRIC POTENTIAL FROM FAR-FIELD SCATTERING DATA	<b>DJERRAR Ibtissem,</b> CHORFI Lahcène and KHELIFA Imène
<b>13</b>	C2.2.2	IDENTIFICATION OF TWO PARAMETERS IN ELLIPTIC BOUNDARY VALUE PROBLEM	<b>BENYOUCEF Abir,</b> ALEM Leila and CHORFI Lahcène
<b>106</b>	C2.2.3	STUDY OF DIRECT AND INVERSE PROBLEMS OF SPECTRAL GEOMETRY ON SURFACES	<b>DJERFI Kouider</b>
<b>135</b>	C3.2.1	TIKHONOV REGULARIZATION METHOD FOR A CLASS OF INVERSE PARABOLIC PROBLEMS	<b>SAOULI Nabil</b> and ZOUYED Fairouz
<b>110</b>	C3.2.2	MULTIPLICITY OF POSITIVE SOLUTIONS FOR A SECOND ORDER QUASILINEAR EQUATION	<b>BOUAFIA Dahmane</b>

<b>122</b>	<b>C4.2.1</b>	<b>TOWARDS A FRACTIONAL STATIONARY KPZ EQUATION WITH A NONLOCAL GRADIENT TERM</b>	<b>YOUNES Abdelbadie</b> and <b>ABDELLAOUI Boumediene</b>
<b>50</b>	<b>C4.2.2</b>	<b>MULTIPLE SOLUTIONS FOR THE P-FRACIONAL LAPLACIAN WITH CRITICAL GROWTH</b>	<b>ABID Djamel</b> and <b>AKROUT Kamel</b>
<b>87</b>	<b>C4.2.3</b>	<b>FINITE DIFFERENCE APPROXIMATIONS FOR THE SPACE-TIME RIESZ-CAPUTO-KATUGAMPOLA FRACTIONAL DIFFUSION EQUATION</b>	<b>BOUCHAMA Kaouther,</b> <b>MERZOUGUI Abdelkrim</b> and <b>ARIOUA Yacine</b>
<b>65</b>	<b>C5.2.1</b>	<b>CONVERGENCE OF THE SERIES OF THE ELASTICITY SYSTEM WITH A CONTACT WITHOUT FRICTION-NEWMANN BOUNDARY VALUE</b>	<b>BOUFENOUCHE Razika</b>
<b>24</b>	<b>C5.2.2</b>	<b>DECAY FOR A VISCOELASTIC WAVE EQUATION WITH STRONG DAMPING AND A STRONG TIME DELAY</b>	<b>LAKEHAL Ibrahim</b>
<b>53</b>	<b>C5.2.3</b>	<b>ANALYSE DU PROBLÈME DE CONTACT EN MÉCANIQUE DES STRUCTURES</b>	<b>TAALLAH Frekh</b>

<b>76</b>	<b>P6.2.1</b>	<b>ÉTUDE DE L'ÉQUATION DE TRANSPORT-DIFFUSION DANS LE DEMI-ESPACE PAR L'APPROXIMATION BASÉE SUR LE NOYAU DE LA CHALEUR</b>	<b>GHERDAOUI Rabah,</b> <b>TALEB Lynda</b> and <b>SELVADURAY Steave</b>
<b>94</b>	<b>P6.2.2</b>	<b>EXISTENCE D'UNE SOLUTION NON TRIVIAL D'UN PROBLEME P-ELLIPTIQUE AVEC NON-</b>	<b>ZOUAI Raid</b>

		LINEARITE DISCONTINUE	
<b>88</b>	P6.2.3	<b>HOMOGENIZATION OF EVOLUTION PROBLEM IN DOMAINS WITH SMALL HOLES</b>	<b>KAREK Chafia</b> and <b>OULD HAMMOUDA Amar</b>
<b>36</b>	P6.2.4	<b>LOCAL PERSISTENCE REGULARITY OF THE VORTEX PATCH AND INVISCID LIMIT FOR THE TWO-DIMENSIONAL NAVER-STOKES BOUSSINESQ SYSTEM</b>	<b>MAAFA Youssouf</b>
<b>119</b>	P6.2.5	<b>SELF-SIMILAR SOLUTIONS TO A CLASS OF COMPLEX-VALUED QUADRATIC HEAT EQUATION</b>	<b>OTSMANE Sarah</b>

# S3 : Analyse Fonctionnelle et Théorie des Opérateurs

N° EsChr	Code	Titre	Présentée par :
<b>15</b>	C1.3.1	ESTIMATIONS DU TYPE DE CONVOLUTION DANS CERTAINS ESPACES FONCTIONNELS HOMOGENES	<b>BENALLIA Mohamed</b>
<b>128</b>	C1.3.2	NEW FIXED POINT RESULTS FOR F-CONTRACTIONS OF HARDY-ROGERS TYPE IN B-METRIC SPACES WITH APPLICATIONS	<b>DEROUICHE Djamila</b> and <b>RAMOUL Hichem</b>
<b>113</b>	C1.3.3	PRODUIT DE DEUX DILATATIONS D'OPÉRATEURS DE TOEPLITZ TRONQUÉS	<b>SAOULI Nafissa</b>
<b>22</b>	C2.3.1	MÉTRIQUE DE CHEEGER-GROMOLL GÉNÉRALISÉE	<b>LATTI Fethi,</b> <b>EL HENDI Hichem</b> and <b>LAKEHAL Belarbi</b>
<b>142</b>	C2.3.2	BILINEAR ASYMMETRIC CLOSED GRAPH THEREM	<b>DAHIA Elhadj</b>
<b>102</b>	C2.3.3	FACTORIZATION THEOREM FOR DOMINATED MULTILINEAR OPERATORS	<b>FERRADI Athmane</b>
<b>51</b>	C3.3.1	GENERALIZED *-FINITE OPERATORS	<b>MESBAH Nadia</b> and <b>MESSAOUDENE Hadia</b>
<b>56</b>	C3.3.2	SOME NUMERICAL RADIUS INEQUALITIES FOR NORMAL OPERATORS	<b>GUESBA Messaoud</b>

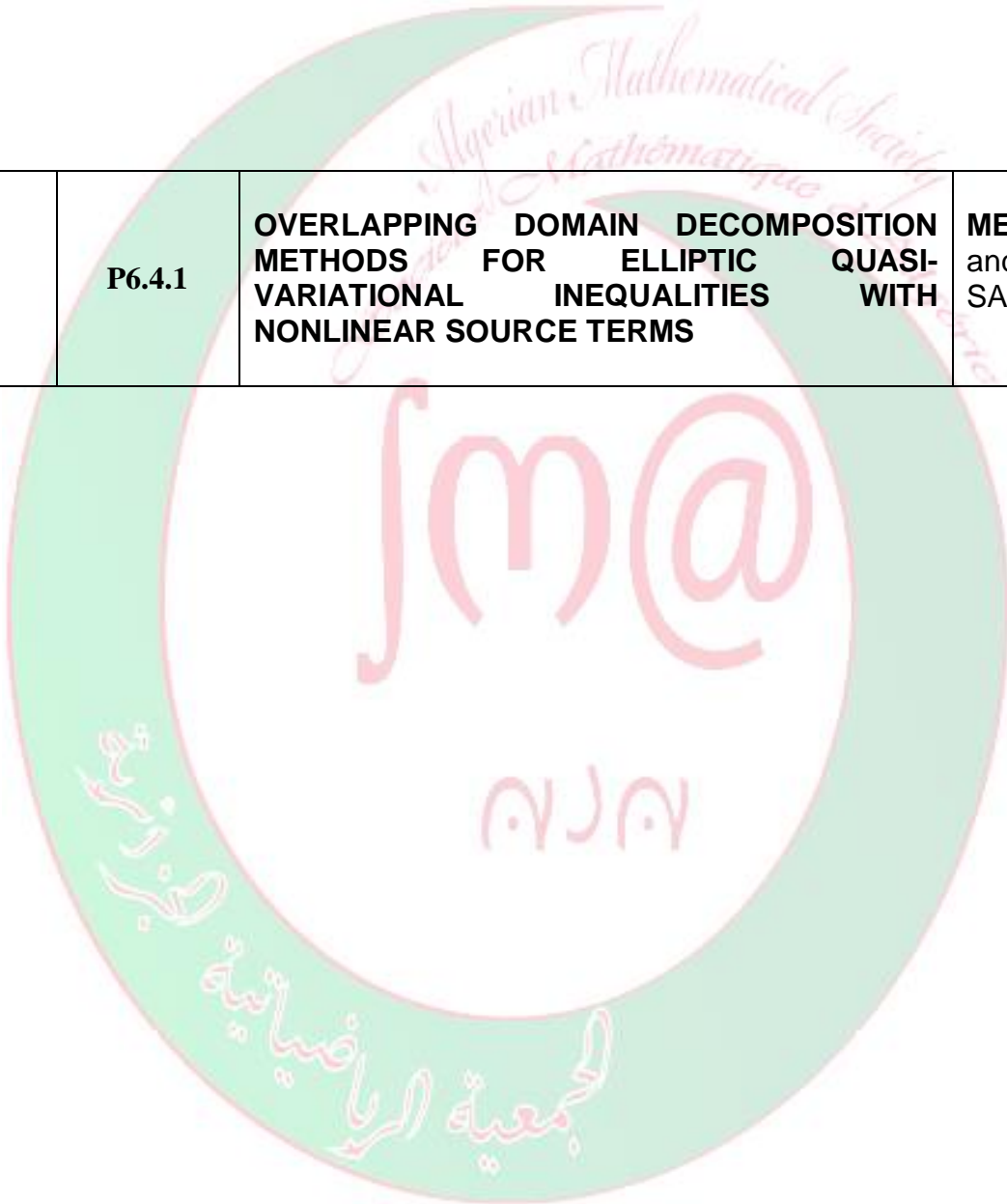
<b>52</b>	<b>P6.3.1</b>	<b>APPROXIMATION AND OPTIMIZATION OF A HYPERBOLIC PROBLEM AND APPLICATION</b>	<b>SOUDANI Abdelkadir,</b> MENASRI Abdellah and SAOUDI Khaled
<b>21</b>	<b>P6.3.2</b>	<b>FIXED POINT THEOREMS OF POSITIF OPERATORS IN BANACH SPACES</b>	<b>MECHROUK Salima</b>
<b>68</b>	<b>P6.3.3</b>	<b>ON SOME GENERALIZED FUNCTIONS OF COLOMBEAU TYPE</b>	<b>GHORAB Elhouari</b> and <b>BENMERIEME Khaled</b>
<b>144</b>	<b>P6.3.4</b>	<b>LINEAR RELATIONS BETWEEN QUASI NORMED SPACES</b>	<b>TALLAB Abdelhamid</b>
<b>34</b>	<b>P6.3.5</b>	<b>ON THE WELL-POSEDNESS AND GEVERY REGULARITY FOR A CLASS OF GENERALIZED DEBYE-HÜCKEL SYSTEM IN THE FOURIER-BESOV SPACES WITH VARIABLE EXPONENT</b>	<b>MELKEMI Oussama,</b> SAIBI Khedoudj and MOKHTARI Zouhir
<b>4</b>	<b>P6.3.6</b>	<b>GENERALIZED FREDHOLM OPERATORS AND THEIR SPECTRAL PROPERTIES</b>	<b>BEGHDADI Mahamed,</b> KRICHEN Bilel and AZZOUZ Abdelhalim
<b>115</b>	<b>P6.3.7</b>	<b>LORENTZ SUMMING OPERATORS</b>	<b>ATTALLA Aldjia</b> and ACHOUR Dahmane

# S4 : Mathématiques Appliquées et Analyse Numérique

N° EsChr	Code	Titre	Présentée par :
<b>9</b>	C4.4.1	<b>CONVERGENCE OF AN IMPLICIT SCHEME FOR NON-CONSERVATIVE DIAGONAL HYPERBOLIC SYSTEMS</b>	<b>BOUDJERADA Rachida,</b> EL HAJJ Ahmad and OUSSAILY Aya
<b>138</b>	C4.4.2	<b>A FREE BOUNDARY MODEL FOR OXYGEN DIFFUSION IN A SICK CELL</b>	<b>BOUREGHDA Abdellatif</b>
<b>29</b>	C1.4.3	<b>A TWO-DIMENSIONAL MODEL FOR TUMOR EVOLUTION</b>	<b>BOUSSEBHA Meriem</b> and NOURI Fatma Zohra
<b>123</b>	C5.4.1	<b>SELF-SIMILAR SOLUTIONS FOR FREE-BOUNDARY PROBLEM FROM CONTOUR ENHANCEMENT IN IMAGE PROCESSING</b>	<b>ACHOUR Hossemddine</b> and BENHAMIDOUCHE Nouredine
<b>118</b>	C5.4.2	<b>STUDYING THE OPERATION OF ROLLING BEARINGS USING NUMERICAL ANALYSIS</b>	<b>GOURI Nesrine,</b> MIHOUB Mohamed Larbi and BENDJAMA Hocine
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# S5

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