

AFRICAN MATHEMATICAL UNION

Commission on the History of Mathematics in Africa (AMUCHMA)

AMUCHMA-NEWSLETTER-30

Special Issue:

Over 600 Examples of African Doctorates in Mathematics

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Maputo (Mozambique), 29.04.2005

AMUCHMA

1. OBJECTIVES

The A.M.U. Commission on the History of Mathematics in Africa (AMUCHMA), formed in 1986, has the following objectives:

- a. To improve communication among those interested in the history of mathematics in Africa;
- b. To promote active cooperation between historians, mathematicians, archaeologists, ethnographers, sociologists, etc., doing research in, or related to, the history of mathematics in Africa;
- c. To promote research in the history of mathematics in Africa, and the publication of its results, in order to contribute to the demystification of the still-dominant Eurocentric bias in the historiography of mathematics;
- d. To cooperate with any and all organisations pursuing similar objectives.

The main activities of AMUCHMA are as follows:

- a. Publication of a newsletter;
- b. Setting up of a documentation centre;
- c. Organisation of lectures on the history of mathematics at national, regional, continental and international congresses and conferences.

2. OVER 600 EXAMPLES OF AFRICAN DOCTORATES IN MATHEMATICS

(compiled by Paulus Gerdes)

Appendix 7 of the first edition of our book *Mathematics in African History and Culture: An Annotated Bibliography* (Authors: Paulus Gerdes & Ahmed Djebbar, African Mathematical Union, Cape Town, 2004) contained a list of “Some African mathematical pioneers in the 20th century” (reproduced below in 3). While updating that list, the idea emerged to make a list of African doctorates in mathematics.

It is unknown how many African scientists were awarded a doctorate in mathematics. We estimate it to be around two thousand in North Africa and more than a thousand South of the Sahara. The first North African to have completed a doctorate in mathematics was probably the Egyptian Ali Mostafa Mosharafa, who received his Ph.D. and D.Sc. from the University of London in 1923 and 1924 respectively. Excluding South Africa, the first mathematician from Africa South of the Sahara to earn a doctorate in mathematics was probably the Nigerian Chike Edozien Umuezei Obi (b. 1921) who received his Ph.D. from the University of Cambridge in 1950.

Below we present a first listing of examples of African doctorates in mathematics, mathematics education and the history of mathematics. We refer to mathematicians either born in Africa (today some may be citizens of countries outside Africa) or citizens of African countries (some of whom may have been born outside the continent). The list is rather complete for some countries like Angola, Burkina Faso, Côte d'Ivoire, Malawi and Mozambique, and very incomplete for others, like Madagascar, Sudan, Tanzania and several countries in North Africa. We hope to receive more replies from colleagues to be able to update regularly the list and to obtain a more complete view of the situation on the continent. We think, nevertheless, that even an incomplete list as the one that follows, may give already some impression of the talents the African continent has produced and of the variety of fields in which African mathematicians are working.

Academic titles may vary in time and from country to country. The academic titles indicated in the list are the ones as given by the mathematicians themselves, and all refer to doctorates at least equivalent to the Ph.D. The list of examples is organised first in the alphabetical order of the countries and then in temporal order of the date of receiving the doctorates. The provisional list includes 603 doctorate holders from 42 African countries.

My thanks go to all who helped in compiling the list, and, in particular, to Mahdi Abdeljaouad [doctorates from Tunisia in the history of mathematics and in mathematics education], Guy Brousseau [doctorates in mathematics education obtained at the University of Bordeaux, France], Etienne Desquith [doctorates from Côte d'Ivoire], Badie Hassan [important doctorates in mathematics in Egypt], Paul Laridon and Jill Adler [recent doctorates in mathematics education from the University of Witwatersrand, South Africa], Christophe Mouaha [doctorate holders at the École Normale Supérieure of Cameroon], Mary Teuw Niane and Gane Samb Lo [doctorate holders at the Université de Saint-Louis, Senegal], and Scott Williams [several recent doctorates obtained in the USA] for their special support in collecting data (as indicated).

Any additional data are most welcome. Please send additions and corrections to pgerdes@virconn.com (C.P. 915, Maputo, Mozambique).

Algeria

Benali BENZAGHOU (Male)

1969 (Doctorat d'état) *Algèbres de Hadamard* [Hadamard algebras], Université Paris 7 (France), Advisor: Charles Pisot.

Chikh BOUZAR (b. 07.08.1957) (Male)

1986 (Ph.D.) *Local solvability of pseudo differential equations of constant strength* (in Russian), Belorussian State University (Minsk, Belorussia); Advisor: A. A. Kuleshov.

Abdelhamid LAOUAR (b. 1958) (Male)

1987 (Doctorat) *Numerical Analysis of iterative methods of fixed point: Acceleration of convergence, arrounded error and subdomain*, Université de Franche Comte (Besançon, France); Advisor: J. C. Miellou.

Abdelhamid MEZIANI (b. 14.11.1957) (Male)

1988 (Ph.D.) *On the integrability of singular differential forms in two complex variable*, Rutgers University (New Brunswick, New Jersey, USA); Advisor: Francois Treves.

Kaddour BOUKAABAR

1991 (Ph.D.) *The Median Problem on the Lattice of Partitions*, Bowling Green State University (Ohio, USA); Advisor: Dean Neumann.

Mohamed BENTARZI (Male)

1994 (D.Sc.) *Modèles de séries chronologiques à coefficients périodiques*, Université d'Alger (Algiers, Algeria); Advisor: Marc Hallin.

Tayeb BENOUAZ

1996 (Doctorat d'état) *Contribution à l'approximation et à la synthèse de la stabilité d'une équation différentielle ordinaire non-linéaire*, Université Abou Bekr Belkaid (Tlemcen, Algeria); Advisor: Ovide Arino.

Khaled MELKEMI

1999 (Doctorat) *Orthogonalité des B-splines de Chebyshev cardinales dans un espace de Sobolev pondéré*, Université Joseph-Fourier (Grenoble, France); Advisor: Marie-Laurence Mazure.

Isma BOUCHEMAKH

2001 (Doctorat d'état) *Sur quelques problèmes extrémaux dans les ordres partiels finis*, Université des Sciences et de la technologie Houari Boumediene (Algiers, Algeria); Advisor: Konrad Engel.

Sadek BOUROUBI

2004 (Doctorat d'état) *Optimisation dans les posets*, Université des Sciences et de la technologie Houari Boumediene (Algiers, Algeria); Advisor: Konrad Engel.

Nadia BENHABOUCHA (Female)

2003 (Doctorat) *Quelques problèmes mathématiques relatifs à la modélisation des conditions aux limites fluide-solide pour des écoulements de faible épaisseur*, Université Claude Bernard (Lyon, France); Advisors: Guy Bayada & Michèle Chambat.

Fadia BEKKAL BRIKCI (Female)

2005 (Doctorat) *Modélisation du cycle cellulaire et couplage avec la dynamique de population cellulaire*, Université de Paris 6 (France); Advisor: Pierre Auger.

Angola

Manuel Domingos O. CADETE (b. 1967) (Male)

1999 (Ph.D.) *Mathematical models for the management of education in countries with an economy in transition* (in Russian), Tula State Pedagogical University (Tula, Russia); Advisor: Marel Petrovish Pereserv.

Bernardo Gabriel RODRIGUES (Male)

2003 (Ph.D.) *Codes of Designs and Graphs from Finite Simple Groups* University of Natal (Durban, South Africa); Advisors: Jamshid Moori & Jennifer Key.

Benin

Simplice DOSSOU-GBÉTÉ

1980 (Doctorat 3ème cycle) *Contribution à l'étude des fonctions aléatoires*, Université Paul Sabatier (Toulouse, France); Advisor: P. Ettinger.

Idris ASSANI (Male)

1981 (Doctorat 3ème cycle) *Multivalued Conditional Expectation and Multivalued Martingales*, Université de Paris 6 (France); Advisor: R. Pallu de la Barrière.

1986 (Doctorat d'état) *Contribution to the Ergodic Theory of Operators, and Multivalued Maps with values in a Banach Space*, Université de Paris 6 (France); Advisor: A. Brunel.

Norbert HOUNKONNOU (b. 07.06.1956) (Male)

1992 (Doctorat) *Dynamics and orientational order of elongated molecules in solution subjected to external fields*, Université catholique de Louvain (Belgium); Advisors: Jean Pestieau & Jean-Paul Ryckaert.

1992 (Doctorat) *Exact non-relativistic quantum-mechanical body fixed hyperspherical parametrization of the N-atom problem ($N \leq 5$) is attainable*, Université catholique de Louvain (Belgium); Advisor: Xavier Chapuisat.

Wilfrid GANGBO (b. 1961) (Male)

1992 (Ph.D.) *Problèmes non convexes du calcul des variations* [Non-Convex Problems in the Calculus of Variations], Swiss Federal Institute of Technology (Lausanne, Switzerland).

1995 (Habilitation à Diriger des Recherches en Mathématiques) *Quelques Problèmes d'Analyse Non Convexes* [Some non-convex problems in analysis], Université de Metz (France).

Célestin Clotaire KOKONENDJI (Male)

1993 (Doctorat d'université) *Familles exponentielles naturelles réelles de fonction variance en RD+QVD*, Université Paul Sabatier (Toulouse, France); Advisor: G. Letac.

2004 (Habilitation à Diriger des Recherches) *Contributions théoriques et pratiques aux familles exponentielles*, Université de Pau et des Pays de l'Adour (France); Advisor: Gérard Gagneux.

Jean Bio OROU CHABI (Male)

1994 (Ph.D.) *The Evolution of Vorticity in a Free Shear Layer with Compressible Turbulence and A Theory of Homogeneous Condensation*, Institut de Mathématiques et de Sciences Physiques (Porto Novo, Benin).

Joël TOSSA (Male)

1994 (Ph.D.) *Analyse Qualitative de Certains Modèles en Cosmologie Multidimensionnelle*, Institut de Mathématiques et de Sciences Physiques (Porto Novo, Benin).

Antoine Marcel ATINKPAHOUN (Male)

1995 (Ph.D.) *Parallel Algorithms for Linear Recurrences and for Matrix and Vector Computations*, City University of New York (USA); Advisor: Victor Pan.

Akimou Oluwa-Labe SADIKOU

1996 (Ph.D.) *On the Complexity of Approximate Solution of Some Fundamental Problems of Algebraic Computations*, City University of New York (USA); Advisor: Victor Pan.

Joël T. HOUNSOU (Male)

1996 (Ph.D.) *Radial Basis Functions Artificial Neural Networks and their Application to Sequence Recognition*, Institut de Mathématiques et de Sciences Physiques (Porto Novo, Benin).

Mathias HOUNKPE (Male)

1996 (Ph.D.) *Théorie de la diffusion pour les interactions sphériques*, Institut de Mathématiques et de Sciences Physiques (Porto Novo, Benin).

Aboubacar MARCOS (Male)

1997 (Ph.D.) *Spectrum and nonresonance for Elliptic Operators under Robin and Mixed Boundary Conditions*, Institut de Mathématiques et de Sciences Physiques (Porto Novo, Benin).

Cosme Zinsou VODOOUNOU (Male)

1997 (Ph.D.) *Essais en econometrie théorique et en économie de la finance appliquée aux modèles dynamiques*, Université de Montréal (Canada); Advisor: Pierre Perron.

Léonard TODJIHOUNDE (Male)

1998 (Ph.D.) *Variétés harmoniques, Applications ϵ -stables et objets harmoniques sur une variété*, Institut de Mathématiques et de Sciences Physiques (Porto Novo, Benin).

Ephrem-Denis MEZONLIN (Male)

1998 (Ph.D.) *Mesures des gradients de vitesse et du vecteur tourbillon dans une couche limite libre supersonique*, Institut de Mathématiques et de Sciences Physiques (Porto Novo, Benin).

Ibrahim TOUKOUROU (Male)

1999 (Ph.D.) *Produits tordus singuliers de variétés riemanniennes*, Institut de Mathématiques et de Sciences Physiques (Porto Novo, Benin).

Desiré Gilles Philippe GNACADJA (Male)

1999 (Ph.D.) *Phantom Maps and Purity over Finite Dimensional Self-Injective Algebras*, University of Georgia (Athens GA, USA); Advisor: David Benson.

Carlos OGOUYANDJOU (b. 29.02.1964) (Male)

2000 (Doctorat) *Géométrie asymptotique des variétés de type hyperbolique* [Asymptotic geometry of manifolds of the hyperbolic type], Université d'Abomey-Calavi (Benin); Advisors: Jean-Pierre Ezin (Benin) & Gerhard Knieper (Ruhr Universitaet, Bochum, Germany).

Aurele Mawudo HOUNGBEDJI

2000 (Ph.D.) *Jump Diffusion Processes: Discrete-Time Option Replication and Pricing European Call Options in the Presence of Transaction Costs*, University of Pittsburgh (USA); Advisors: Thomas Savits & Satish Iyengar.

Thomas GUEDENON (b. 01.01.1959) (Male)

2001 (Doctorat unique) *Ideaux premiers et algèbre homologique dans les produits croisés* [Prime ideals and homological algebra in crossed products], Université de Lille 1 (France); Advisor: Jean D'Almeida.

Franck Yansounou GOUSSANOU (Male)

2001 (Doctorat d'université) *Etude asymptotique de tests du rapport de vraisemblances dans les mélanges gaussiens*, Université Paul Sabatier (Toulouse, France); Advisor: Bernard Garel.

Martial Marie-Paul AGUEH (b. 1969) (Male)

2002 (Ph.D.) *Existence of Solutions to Degenerate Parabolic Equations via the Monge-Kantorovich Theory*, Georgia Institute of Technology (Atlanta GA, USA); Advisor: Wilfrid Gangbo.

Djivede Armel KELOME (Male)

2002 (Ph.D.) *Viscosity Solutions of Second Order Equations in a Separable Hilbert Space and Applications to Stochastic Optimal Control*, Georgia Institute of Technology (Atlanta GA, USA; Advisor: Andrzej Swiech.

Adolphe Cossi ADIHOU (b. 11.02.1962) (Male)

2003 (Doctorat) *Étude des phénomènes didactiques liés à la méthode de résolution de problèmes arithmétiques par la mise en équations en 9ème secondaire* [Study of didactic phenomena related to the solution of arithmetical problems by equations in grade 9], Université de Genève (Geneva, Switzerland); Advisors: François Conne & Jean Brun.

Ayitchéou Judicaël TCHÉDJI (b. 1973) (Male)

2003 (Doctorat unique) *Observateurs des Systèmes anti-adjoints de dimension infinie et applications* [Observers of infinite-dimensional skew-adjoint systems and applications] Université de Metz (France); Advisors: Hamidou Touré & Cheng-Zhong Xu.

Kasso A. OKOUDJOU (b. 30.03.1973) (Male)

2003 (Ph.D.) *Characterization of Function Spaces and Boundedness of Bilinear Operators through Gabor Frames*, Georgia Institute of Technology (Atlanta GA, USA); Advisor: Christopher Heil.

Gerard Michel AWANOU (Male)

2003 (Ph.D.) *Energy Methods in 3D Spline Approximations of Navier-Stokes equations*, University of Georgia (Athens GA, USA); Advisor: Ming-Jun Lai.

Botswana

Paul CHAKALISA (b. 04.04.1958) (Male)

1994 (Ph.D.) *Relationships of student gender, teacher experience and setting to students achievement and attitudes toward mathematics in Botswana junior secondary schools*, Ohio University (Athens, Ohio, USA.); Advisor: Bonnie Beach.

Basinyi CHIMIDZA (b. 28.09.1960) (Male)

1995 (Ph.D.) *Modules Associated to Disconnected Surfaces by Quantization Functors*, Louisiana State University (Baton Rouge, Louisiana, USA); Advisor: Pat Gilmer.

Dumma C. MAPOLELO (Male)

1995 (Ph.D.) *Botswana Preservice Primary Teachers' Beliefs About and Attitudes Towards Mathematics*, University of Georgia (Athens GA, USA); Advisor: Jim Wilson.

Kgomotso Gertrude GAREGAE (b. 28.8.1962) (Female)

2002 (Ph.D.) *Teachers' beliefs about mathematics, its teaching and learning and the communication of these beliefs to students: A case study in Botswana*, University of Manitoba (Winnipeg, Manitoba, Canada); Advisor: Lars Jansson.

Burkina Faso

Albert OUEDRAOGO (b. 1935) (Male)

1969 (Doctorat 3ème cycle) *Problème inverse de la diffusion et généralisation de l'équation de Marchenko* [Inverse problem of diffusion and generalisation of Marchenko's equation], Université Pierre et Marie Curie - Paris VI (France); Advisor: J. L. Destouches.

1981 (Doctorat d'état) *Controles ponctuels de systèmes elliptiques et paraboliques d'ordre 2m: Application à un système parabolique avec masse de Dirac* [Punctual controls of elliptic and parabolic systems of order 2m], Université Pierre et Marie Curie - Paris VI (France); Advisor: J. L. Lions.

Hamidou TOURÉ (b. 14.10.1954) (Male)

1982 (Doctorat 3ème cycle), *Sur l'équation générale par la théorie des semi-groupes non linéaires dans L1* [Nonlinear semi-group theory in L1 for a general equation], Université de Franche Comté (Besançon, France); Advisor: Philippe Bénilan.

1994 (Doctorat unique) *Etude de problème parabolique fortement dégénéré en une dimension d'espace* [Study of strong degenerated parabolic problems in one space dimension], Université de Franche Comté (Besançon, France); Advisor: Philippe Bénilan.

1995 (Doctorat d'état), *Etude de problème parabolique hyperbolique non linéaire* [On nonlinear hyperbolic parabolic type problems], Université de Ouagadougou (Burkina Faso); Advisors: Philippe Bénilan & Albert Ouedraogo.

Dembo GADIAGA (b. 1950) (Male)

1982 (Doctorat 3ème cycle) *Sur une classe de tests qui contient le test du khi-deux: le cas d'un processus stationnaire* [On a class of tests which contains the khi-deux test for a stationary process], Université de Lille I (France); Advisor: Denis Bosq.

2003 (Doctorat d'état) *Tests Fonctionnels d'Ajustement et de non Influence pour des Variables Aléatoires Dépendantes* [Functional Tests and no-effect hypothesis for dependent random variables], Université de

Ouagadougou (Burkina Faso); Advisors: Denis Bosq & Albert Ouedraogo.

Sabéko Marcel BONKIAN (b. 1951) (Male)

1983 (Doctorat 3ème cycle) *Contribution à l'étude des mesures aléatoires du second ordre* [Contribution to the study of random measures of the second order], Université des sciences et techniques de Lille 1 (France); Advisor Pierre Jacob.

Boubacar YOBI AMIDOU (b. 22.06.51) (Male)

1983 (Doctorat 3ème cycle) *Diagrammes de De Finetti* [De Finetti Diagrams], Université des Sciences et Techniques du Languedoc (Montpellier, France); Advisor: A. Micali.

Akry KOULIBALY (Male)

1984 (Doctorat d'état) *Contributions à la théorie des algèbres de Malcev* [Contributions to the theory of Malcev algebras], Université de Montpellier II (France); Advisor: Artibano Micali.

Longin SOME (Male)

1984 (Doctorat 3ème cycle) *Mise en œuvre informatique de quelques méthodes multigrilles dans le cadre de la méthode des éléments fins*, Université Pierre et Marie Curie (Paris, France).

Kalifa TRAORÉ (b. 22.05.62) (Male)

1990 (Doctorat 3ème cycle) *Cohomologie des algèbres de Malcev* [Cohomology of Malcev algebras], Université de Ouagadougou (Burkina Faso); Advisor: Akry Koulibaly.

Sado TRAORÉ (b. 1965) (Male)

1994 (Doctorat unique) *Approche variationnelle de la dualité quasi-convexe* [Variational approach to quasi-convex duality]; Université d'Avignon et des Pays du Vaucluse (Avignon, France); Advisor: Michel Volle.

Nakelgbamba Boukary PILABRE (b. 1956) (Male)

1995 (Doctorat 3ème cycle) *Sur la Lie-admissibilité de la dupliquée non commutative d'une algèbre* [On the Lie-admissibility of the non-commutative duplication of an algebra], Université de Ouagadougou (Burkina Faso); Advisor: Akry Koulibaly.

Sibiri TRAORE

1998 (Ph.D.) *Conception d'une architecture neuronique de grande taille inspirée de l'anatomie et de la physiologie du cerveau humain pour la commande des robots*, Université Laval (Canada); Advisor: Michel Guillot.

Marie Francoise OUEDRAOGO (b. 03.12.1967) (Female)
1999 (Doctorat 3ème cycle) *Sur les Superalgèbres Triples de Lie* [On Lie Triple Superalgebras], Université de Ouagadougou (Burkina Faso); Advisor: Akry Koulibaly.

Stanislas OUARO (b. 19.01.1975) (Male)
2001 (Doctorat unique) *Etude de problèmes elliptiques-paraboliques nonlinéaires en une dimension d'espace* [On non-linear elliptic-parabolic problems in one space dimension], Université de Ouagadougou (Burkina Faso); Advisor: Hamidou Touré.

Patricia ZOUNGRANA (b. 26.06.1971) (Female)
2001 (Doctorat unique) *Sur les sous-boucles de Cartan d'une boucle homogène et les sous-algèbres de Cartan d'une algèbre triple de Lie* [On Cartan subloops of homogeneous loop and Cartan subalgebras of Lie triple algebra], Université de Ouagadougou (Burkina Faso); Advisor: Akry Koulibaly.

Oumar TRAORÉ (b. 18.06.72) (Male)
2002 (Doctorat unique) *Contrôles de problèmes de dynamique des populations* [Controls in population dynamics problems], Université de Ouagadougou (Burkina Faso); Advisor: Albert Ouedraogo.

Burundi

Juma SHABANI (b. 25.05.1952) (Male)
1986 (Doctorat en sciences) *Modèles exactement solubles d'interactions de surface en mécanique quantique non relativiste* [Exact solvable models of surface interactions in non relativist quantum mechanics], Université de Louvain (Belgium); Advisor: Jean Pierre Antoine.

Jean-Bosco KAYOYA (b. 1961) (Male)
1993 (Doctorat unique) *Analyse sur les algèbres de Jordan simples réelles* [Analysis on real simple Jordan algebras], Université de Paris 6 (France); Advisor: Jacques Faraut.

Jean NDIMUBANDI (b. 1965) (Male)
1996 (Doctorat en sciences) Oscillateurs relativistes et Mécanique quantique (para)supersymétrique [Relativist oscillators and (para)super-symmetric quantum mechanics], Université de Liège (Belgium); Advisor: Jules Beckers.

Janvière NDIRAHISHA (b. 18.12.1966) (Female)
2003 (Doctorat) *Réprésentations de Grothendieck* [Grothendieck Representations], University of Antwerp (Belgium); Advisor: Fred Van Ostayen.

Cameroon

Georges Edward NJOCK (b. 07.11.1940) (Male)

1970 (Ph.D.) *Exploration de la notion géométrique d'aire des polygones par un groupe de transformations du plan euclidien* [Exploration of the geometrical notion of the area of polygons by a group of transformation of the Euclidean plane], Université Laval (Quebec, Canada); Advisor: Fernand Lemay.

Michel NGUIFFO BOYOM (Male)

1977 (Docteur-ès-Sciences Mathématiques) *Pseudo-groupes de Lie extrémaux et quelques applications topologiques* [Pseudo-groups of Lie extremals and some topological applications], Université de Paris-Sud (Orsay, France).

Laure Pauline FOTSO (Female)

1981 (Ph.D.) *Multiple objective programming*, Rensselaer Polytechnic Institute (USA); Advisor: Joseph Ecker.

Fidèle AYISSI ETEME (b. 08.01.1940) (Male)

1982 (Doctorat d'état) *Base d'une Mathématique -valente chrysippienne*, Université Claude Bernard (Lyon, France); Advisor: Daniel Ponasse.

Victoire TANKOU (Female)

1988 (Ph.D.) *Use of auxiliary information in sampling theory*, Southern Illinois University (Carbondale IL, USA); Advisor: Sudhakar Dharmadhikari.

Christophe MOUAHA (b. 26.06.1959) (Male)

1988 (Doctorat unique) *Codes linéaires sur un corps fini déduits de codes sur une extension* [Linear codes over a finite field deduced from codes over an extension field], Université d'Aix-Marseille II (Marseille Luminy, France); Advisor: Jacques Wolfmann.

Siméon FOTSO (20.12.1961) (Male)

1988 (Doctorat 3ème cycle) *Contribution à l'étude du modèle age - période-cohorté*, Université Paul Sabatier (Toulouse, France); Advisors: Jacques Dauxois & Jeanne Fine.

Sélestin NDJEYA (16.04.1959) (Male)

1988 (Doctorat unique) *Codes autothermitiens*, Université de Marseille II (France); Advisor: Jacques Wolfmann.

Lionel BAPOUNGUE (b. 05.02.1951) (Male)

1989 (Doctorat de l'Université) *Sur la résolubilité de l'équation diophantienne $ax^2+2bxy-ky^2 = \pm 1$* , Université de Caen (France); Advisor: Eugène Dubois.

Alphonse MBA (13.04.1959) (Male)

1989 (Doctorat 3ème cycle) *Prolongement tangent de feuillettages*, Université de Yaoundé I (Cameroon); Advisor: Jean Wouafou Kamga.

Philip Wagala GWANYAMA (Male)

1990 (Ph.D.) *A Model of Human Mathematics Problem-Solution in Analysis*, University of Wisconsin (Madison, USA); Advisor: John Harvey, III.

Bruno Kamdoum TCHAMWA (Male)

1991 (Doctorat) *Contribution to the Conception and the Realization of an Event Accounting Model Based on Database Approach*, Université Rennes I (France); Advisor: Pierre Baranger.

Gideon Akumah NGWA (Male)

1993 (D.Phil.) *The Analysis of Spatial and Spatio-Temporal Patterns in Models for Morphogenesis*, University of Oxford (UK); Advisor: Philip Maini.

Nicolas Gabriel ANDJIGA (b. 09.09.1961) (Male)

1993 (Doctorat d'état) *Constitution et choix social*; Université de Yaoundé I (Cameroon); Advisor: Joel Moulen.

Élie YOUNDJE

1993 (Doctorat) *Estimation non-paramétrique de la densité conditionnelle par la méthode du noyau*, Université de Rouen (France); Advisor: Monique Bertrand.

Jules WAKU KOUOMOU (Male)

1993 (Doctorat) *Ondelettes et applications en imagerie et en calcul de surfaces*, Université Joseph Fourier (Grenoble, France); Advisor: Jean-Marc Chassery.

Anatole TEMGOUA KAGOU (Male)

1993 (Doctorat 3ème cycle) *Domaines de Siegel de type II Noyau de Bergman*, Université de Yaoundé (Cameroon).

Jean-Claude NDOGMO (Male)

1994 (Ph.D.) *Sur les Fonctions invariantes sous l'action coadjointe d'une algèbre de Lie résoluble avec un nilradical abélien* [On functions invariant under the coadjoint action of a solvable Lie algebra with an

Abelian nilradical], Université de Montréal (Canada); Advisor: Pavel Winternitz.

Souleymane BAH (Male)

1994 (Doctorat 3ème cycle) *Problème de Cauchy sur conoïde caractérisque pour les équations aux dérivées partielles semi-linéaires hyperboliques du second ordre*, Université de Yaoundé (Cameroon).

Louis Roder Tcheugoue TEBOU (b. 10.24.1969) (Male)

1995 (Doctorat unique) *Étude de quelques problèmes de contrôlabilité exacte et de stabilisation dépendant ou non de petits paramètres* [Study of Some Exact Controllability and Stabilization Problems Depending on Small Parameters or Not], Université de Metz (France); Advisor: Jeannine Saint Jean Paulin.

1999 (Habilitation à Diriger des Recherches en Sciences [HDR]) *Une approche directe pour la stabilisation locale de certains systèmes distribués* [A direct approach for the local stabilization of certain distributed systems], Université de Strasbourg (France).

Samuel N. JATOR (b. 08.10.1965) (Male)

1997 (Ph.D.) *Continuous Adams- Moulton Methods for the Direct Solution of Non-stiff ODEs with Error Estimation*, University of Ilorin (Nigeria).

Bertrand TCHAMWA (Male)

1997 (Doctorat) *Contribution à l'étude des méthodes d'intégration directe explicites en dynamique non linéaire des structures*, École Centrale de Nantes (France); Advisor: Ch. Wielgosz.

Mama FOPOUAGNIGNI (08.03.1968) (Male)

1998 (Ph.D.) *Laguerre-Hahn orthogonal polynomials with respect to the Hahn operator: Fourth-order difference equation for the rth associated and the Laguerre-Freud equations for the recurrence coefficients*, Université d'Abomey (Calavi, Benin); Advisors: André Ronveaux & Norbert Hounkonnou.

Séraphin Mbouayoueyou MEFIRE

1998 (Ph.D.) *Couplage éléments finis mixtes-méthodes d'intégrale de frontière pour la résolution des équations de la magnétostatique tridimensionnelle*, Université Paris-Sud XI (France); Advisor: Jacques Laminie.

Lawrence DIFFO LAMBO (b. 25.10.1958) (Male)

1999 (Doctorat d'état) *Comportement rationnel dans un jeu de vote*; Université de Yaoundé I (Cameroon); Advisor: Joel Moulen.

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1999 (Doctorat 3ème cycle) *Système de Maxwell-Vlasov avec densité de charge sur un espace-temps courbe*, Université de Yaoundé I (Cameroon); Advisor: Norbert Noutchegueme.

Marie Gisele KAMANOU-GOUNE (Female)

1999 (Ph.D.) *An Index of Household Material Wealth Based on Principal Components of Disease Indicators*, University of California (Berkeley CA, USA); Advisor: Kjell Doksum.

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1999 (Doctorat 3ème cycle) *Système de Yang-Mills-Vlasov pour des particules à densité propre sur un espace-temps courbe*, Université de Yaoundé I (Cameroon).

Blaise Honoré TAGNE SIMO (Male)

1999 (Doctorat 3ème cycle) *Modélisation mathématique et justification des modèles bidimensionnels isotropes et anisotropes des coques 'épaisses' linéaires élastiques*, Université de Yaoundé I (Cameroon).

Sophonie Blaise TCHAPNDA NJABO

1999 (Doctorat 3ème cycle) *Système de Maxwell-Vlasov-Poisson sur un espace-temps courbe*, Université de Yaoundé I (Cameroon).

Celestin Wafo SOH (b. 18.03.1972) (Male)

2000 (Ph.D.) *Lie Algebraic properties of systems of differential equations*, University of the Witwatersrand (Johannesburg, South-Africa); Advisor: Fazal M. Mahomed.

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2001 (Ph.D.) *Mathematical Quantization for massive Data Sets*, George Mason University (VA, USA); Advisor: Edward Wegman.

Jean Michel TCHUENCHE (b. 14.09.1972) (Male)

2002 (Ph.D.) *Mathematical Population Dynamics of Sickle-Cell Anaemia, A Genetically Transmitted Disease*, University of Ibadan (Nigeria); Advisor: C. O. A. Sowunmi.

Miranda Ijang TEBOH-EWUNGKEM (b. 09.07.1974) (Female)

2003 (Ph.D.) *Mathematical Analysis of Oxygen and Substrate Transport within a Multicappillary System in Skeletal Muscle*, Leligh University (Bethlehem, Pennsylvania, USA); Advisor: Eric P. Salathe.

Ferdinand NGAKEU (Male)

2003 (Ph.D.) *Noncommutative differential geometry of finite bicrossproduct Hopf algebras*, IMSP (Porto Novo, Benin); Advisors: Jean-Pierre Ezin & Dominique Lambert.

Hubert Madeleine NNANG (b. 14.09.1966) (Male)
2004 (Ph.D.) *Homogénéisation déterministe d'opérateur monotone*, Université de Yaoundé I (Cameroon); Advisor: Gabriel Nguetseng.

Bertrand TCHANTCHO (09.01.1975) (Male)
2004 (Ph.D.) *Système de décision sociale: Comportements prudents et pouvoir électoral individuel*, Université de Yaoundé I (Cameroon); Advisor: Joël Moulen & L. Diffo Lambo.

Achille NTYAM (b. 06.08.1968) (Male)
2004 (Ph.D.) *Prolongements des connexions: Dérivées covariantes et courbure de la connexion linéaire $T_A T$* , Université de Yaoundé I (Cameroon); Advisor: Jean Wouafé Kamga.

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2004 (Dr.rer.nat) *On the Cycle Spaces Associated to Orbits of Semi-Simple Lie Groups*, Ruhr-Universität (Bochum, Germany); Advisors: Alan T. Huckleberry.

Canary Islands (Spain)

José BARRIOS GARCIA (15.03.1957) (Male)
1997 (Ph.D.) *Sistemas de numeración y calendarios de las poblaciones Bereberes de Gran Canaria y Tenerife en los siglos XIV-XV* [Number systems and calendars of the Berber populations of Grand Canary and Tenerife in the 14th-15th centuries], Universidad de La Laguna (Tenerife, Canary Islands); Advisors: Fernando Estévez González (Tenerife) & Mariusz S. Ziolkowski (Warsaw University, Poland).

Central African Republic

Gaston Mandata N'GUEREKATA (b. 20.05.1953) (Male)
1980 (Ph.D.) *Remarques sur les Equations Differentielles Abstraites* [Remarks on abstract differential equations], Université de Montréal (Canada); Advisor: Samuel D. Zaidman.

Nalimbi MADA
1986 (Doctorat 3ème cycle) *Étude de la numération dans certaines langues centrafricaines et applications dans l'enseignement élémentaire* [Study of the numeration in certain Centralafrican languages and applications in primary schools], Université Paris VII (France).

DR of Congo [Zaire]

Pascal D. MUBENGA

1972 (Ph.D.) *Convergence of Bounds in Optimization*, Western Michigan University (Kalamazoo, USA); Advisor: Arthur Stoddart.

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1983 (Doctorat 3ème cycle) *Sur quelques difficultés dans l'enseignement des entiers négatifs aux élèves du 1er cycle de l'enseignement secondaire au Zaïre* [On some difficulties of the teaching of negative numbers to pupils of the first level of the secondary school in Zaire], Université de Paris 7 (France).

Kayembe MWIKA

1985 (Doctorat 3ème cycle) *Comportements d'élèves zaïrois face à des expressions fractionnaires (dans le 1er cycle de l'enseignement secondaire)*, Université Paris VII (France).

Imana KATENBERA (Male)

1986 (Doctorat 3ème cycle) *Sur la résolution des problèmes de soustraction au cours élémentaire: étude du rôle de la grandeur des nombres et des différentes représentations de la soustraction en vue de l'élaboration des situations didactiques* [On the solution of subtraction problems in primary school: study of the role of the magnitude of numbers and different representation of subtraction with a view to the elaboration of didactic situations], Université Bordeaux 1 (France); Advisor: Guy Brousseau.

Narcisse VELU (Male)

1989 (Doctorat 3ème cycle) *Conditions d'apparition et de disparition d'un concept mathématique dans les programmes : la relation d'équivalence* [Conditions for the appearance and disappearance of a mathematical concept in the programme: the equivalence relationship], Université Bordeaux 1 (France); Advisor: Guy Brousseau.

Bulayam KIALOBO

1989 (Doctorat) *L'analyse des résultats en mathématiques à l'examen d'État du Zaïre en 1978, section scientifique* [Analysis of the mathematics results in the state exam in Zaire in 1978, scientific section], Université de Paris 7 (France).

Alexandre Bendeko MOPONDI (Male)

1986 (Doctorat 3ème cycle) *Le rôle de l'institutionnalisation dans l'algorithme de la proportionnalité* [The role of institutionalisation in the proportionality algorithm], Université de Bordeaux 1 (France); Advisor: Guy Brousseau.

1992 (Doctorat d'université) *Rôle de la compréhension dans l'apprentissage: notion de proportionnalité en 5ème et en 6ème au Zaïre* [Role of

comprehension in learning: notion of proportionality in the 5th and 6th grades in Zaire], Université de Bordeaux 1 (France); Advisor: Guy Brousseau.

Amboka BOLA (Male)

1992 (Doctorat d'université) *Le sens dans le contrat didactique; institutionnalisation d'un algorithme : application à la soustraction* [Meaning in a didactic contract; institutionalisation of an algorithm: application to subtraction], Université Bordeaux 1 (France); Advisor: Guy Brousseau.

Berthold ULUNGU-E.L. (b. 12.05.1954) (Male)

1993 (Doctorat) *Optimisation Combinatoire Multicritère : Détermination de l'Ensemble des solutions Efficaces et Méthodes Interactives* [Multi-Objectif Combinatorial Optimisation: Efficient Solution Set Determination and Interactive Methods], Université de Mons-Hainaut (Mons, Belgium); Advisor: Jacques Teghem.

Yéléko BANWITTIYA (Male)

1993 (Doctorat d'université) *L'ingénierie du sens en mathématiques: la division dans N, Q et D à l'école primaire* [Construction of meaning in mathematics: Division in N, Q and D in primary school], Université Bordeaux 1 (France); Advisor: Guy Brousseau.

André-Michel ODIMBOLEKO-OKITALOSHIMA (b. 25.01.1954) (Male)

1994 (Doctorat d'état) *Evolution de Feynman-Kac sur l'espace de Banach des fonctions*, Universitaire Instelling Antwerpen (Belgium); Advisor: Johannes van Casteren.

Emmanuel Ngimbi NGEMBO (Male)

1994 (Doctorat) *Plongement d'espaces de fonctions dans le bidual de $C(K;E)$* , Université de Liège (Belgium); Advisor: Jean Schmets.

Issa RAMADHANI (Male)

1994 (Ph.D.) *Investigation of the Asymptotic Behavior of Certain Finite-Difference Models of Schrödinger-Type Ordinary Differential Equations and Scalar Curvature Functions under Conformal Deformations of Metrics*, Institut de Mathématiques et de Sciences Physiques (Porto Novo, Benin).

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2001 (Ph.D.) *DW Complexes and Their Underlying Topological Spaces*, University of Cape Town (South Africa); Advisor: Paul Frank Cherenack.

Côte d'Ivoire

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1974 (Doctorat d'état) *Sur les espaces homogènes moyennables*, Université de Cocody (Abidjan, Côte d'Ivoire); Advisor: Pierre Eymard.

Lévry Bogard DALAUD (Male)

1974 (Doctorat 3ème cycle) *Analyse des séries stationnaires à temps discret ; Application au cas d'un modèle statistique du mouvement du pôle*, Université Paris VI (France); Advisor: P. Nahon.

Konin KOUA (Male)

1982 (Doctorat 3ème cycle) *Multiplicateurs et quasi-multiplicateurs dans les algèbres de Banach commutatives à unité approchées bornées*, Université Bordeaux I (France); Advisor: Jean Esterle.

1991 (Doctorat d'état) *Similarité entre Quotients d'idéaux fermés d'algèbres de fonctions analytiques*, Université de Cocody (Abidjan, Côte d'Ivoire); Advisor: Jean Esterle.

Etienne LIGAN GBENOUKPO (Male)

1982 (Doctorat 3ème cycle) *Sur la Mécanique analytique de corps solide dans l'espace à N dimensions*, Université de Dakar (Senegal); Advisor: Niang Souleymane.

19xx (Doctorat d'état) *Théorie des chocs et percussions sur les systèmes variables de particules; Applications*, Université de Cocody (Abidjan, Côte d'Ivoire); Advisors: Edmond Fedida & Niang Souleymane.

Bernard N'ZOUKOUDI (Male)

1982 (Doctorat) *Dual unitaire du groupe symplectique $Sp(2, R)$* , Université de Aix-Marseille I (Luminy, France); Advisor: Jacques Carmona.

Assohoun Venance ADJE (Male)

1984 (Doctorat 3ème cycle) *Méthodes des pas fractionnaires*, Université Paris-Dauphine (France); Advisor: Pierre Louis Lions.

1987 (Doctorat unique) *La Méthode des sur et des sous-solutions dans les Equations Différentielles discontinues, avec des conditions aux limites non linéaires*, Université Catholique de Louvain (Louvain-la-Neuve, Belgium).

Mamadou Hassimiou DIALLO (Male)

1984 (Doctorat 3ème cycle) *Les Quasi-fibrés différentiels*, Université de Cocody (Abidjan, Côte d'Ivoire); Advisor: B. A. Boubakar.

19xx (Doctorat d'état) *Caractérisations des $C^{\{r\}}$ -fibrés vectoriels, les variétés bi-riemannniennes, les drapeaux riemanniens*, Université de Cocody (Abidjan, Côte d'Ivoire); Advisor: B. A. Boubakar.

Théophile Blanchard LOGON (b. 10.03.1955) (Male)

1986 (Ph.D.) *On the properties of interpolation spaces connected to the regularization by Tikhonov of ill-posed problems* [Etude des propriétés des espaces d'interpolation liées à la régularisation selon Tikhonov des problèmes mal posés] (in Russian), Peoples Friendship University (Moscow, Russia); Advisor: I. F. Dorofeev & N. M. Issakov.

Etienne DESQUITH (b. 26.12.1953) (Male)

1988 (Doctorat 3ème cycle) *Sur la moyennabilité des groupes localement compacts et des espaces homogènes* [On the amenability of locally compact groups and of homogeneous spaces], Université de Cocody (Abidjan, Côte d'Ivoire); Advisor: Saliou Touré.

1992 (Doctorat d'état es-Sciences) *Structures d'algèbres de Banach sur le dual topologique d'un espace de Banach et applications* [Banach algebra structures on the topological dual of a Banach space and applications], Université de Cocody (Abidjan, Côte d'Ivoire); Advisor: Saliou Touré.

Philippe Kodjo AYEGNON (Male)

1988 (Doctorat 3ème cycle) *Propriétés asymptotiques des filtrations approximables par des puissances d'idéaux*, Université de Cocody (Abidjan, Côte d'Ivoire); Advisor: Daouda Sangaré.

1997 (Doctorat d'état) *Filtrations approximables par des puissances d'idéaux : Propriétés asymptotiques et Dérivations asymptotiques*, Université de Cocody (Abidjan, Côte d'Ivoire); Advisor: Daouda Sangaré.

Kodia SOUMAHORO (Male)

1988 (Doctorat unique) *Comportement électromécanique des cristaux antiferroélectriques*, Université Pierre & Marie Curie (Paris, France); Advisor: Gérard Maugin.

François Emmanuel TANOE (Male)

1989 (Doctorat unique) *Monogénéité des corps biquadratiques*, Université de Franche-Comté (Besançon, France); Advisor: Marie-Nicole Gras.

Moussa SYLLA (Male)

1991 (Doctorat) *Modélisation dynamique d'une grande structure spatiale*, Université Pierre & Marie Curie (Paris, France); Advisor: Madeleine Pascal.

Ibrahim LOKPO (Male)

1992 (Doctorat) *Contribution à la réutilisation dans les systèmes parallèles*, Université de Toulouse (France); Advisor: Gérard Padiou.

Zakaria BERTÉ (Male)

1992 (Ph.D.) *L'apprentissage de contenus logico-mathématiques opératoires formels chez des élèves du secondaire de Côte d'Ivoire*, Université de Montréal (Canada).

Toussaint SOHOU (Male)

1992 (Doctorat 3^e cycle) *Sur le Théorème d'inversion locale de NASH-MOSER*, Université de Cocody (Abidjan, Côte d'Ivoire); Advisor: B. A. Boubakar.

2000 (Doctorat d'état) *Spectre de l'espace des feuilles ; Problème additif de Cousin basique*, Université de Cocody (Abidjan, Côte d'Ivoire); Advisors: B. A. Boubakar & Edmond Fedida.

Adama COULIBALY (Male)

1994 (Doctorat unique) *Méthodes de points intérieurs en programmation linéaire*, Université Blaise Pascal (Clermont-Ferrand, France); Advisor: Jean-Pierre Crouzeix.

Konan Mathias KOUAKOU (Male)

1994 (Doctorat) *Isomorphismes entre Algèbres d'Opérateurs différentiels sur les courbes algébriques affines*, Université Claude Bernard (Lyon, France); Advisor: Chamarie Mard.

Moussa KOUROUUMA (Male)

1994 (Dr.rer.nat.) *Harmonische Snitte Riemannschen Faserbündel*, Ruhr-Universität (Bochum, Germany); Advisor: Jürgen Jost.

Modeste N'ZI (Male)

1998 (Doctorat) *Propriétés asymptotiques de certains champs aléatoires généralisant l'aire de Lévy*, Université de Cocody (Abidjan, Côte d'Ivoire); Advisor: Théodorescu Radu.

Adolphe CODJIA (Male)

2000 (Doctorat) *Sur l'existence de sections généralisées pour les actions de groupes de Lie compacts*, Université de Cocody (Abidjan, Côte d'Ivoire); Advisor: Edmond Fedida.

Kinvi KANGNI (Male)

2000 (Doctorat d'état) *Distributions et transformations de Fourier sphériques de type delta (δ)*, Université de Cocody (Abidjan, Côte d'Ivoire); Advisor: Saliou Touré.

Siaka KONE (Male)

2001 (Ph.D.) *Mixed order systems of ordinary linear Differential Equations*, University of the Witwatersrand (Johannesburg, South Africa); Advisor: Manfred Müller.

Justin FEUTO (Male)

2003 (Doctorat) *Espaces $(Lq, Lp)^{\wedge\{\alpha\}}(G)$ sur un groupe de type homogène et continuité de l'intégrale fractionnaire*, Université de Cocody (Abidjan, Côte d'Ivoire); Advisor: Konin Koua & Ibrahim Fofana.

Samuel N'Dédé ELOGNE (Male)

2004 (Doctorat d'université) *Estimation nonparamétrique de la structure de covariance de champs aléatoires par des méthodes d'interpolations*, Université Paul Sabatier (Toulouse, France); Advisor: C. Thomas-Agnan.

Egypt

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1923 (Ph.D.) *The Quantum Theory of Stark and Zeeman Effects*, University of London (UK); Advisor: Owen W. Richardson.

1924 (D.Sc.) University of London (UK).

Caleb GATTEGNO (1911-1988) (Male)

1937 (Ph.D.) *Les cas essentiellement géodésiques des équations de Hamilton-Jacobi intégrables par séparation des variables* [The essentially geodesic cases of Hamilton-Jacobi equations integrable by the separation of variables], Basle University (Switzerland).

Attiya Abd-EL-Salam ASHOUR (b. 13.09.1924) (Male)

1948 (Ph.D.) *Electromagnetic induction in a non-uniform ionosphere*, University of London (UK); Advisor: A. T. Price.

1967 (D.Sc.) University of London (UK).

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1967 (Ph.D.) *The geometry of geodesics in Finsler geometry*, University of Southampton (UK); Advisor: F. Brickell.

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1967 (Ph.D.) *Mathematical treatment of microscopic optics*, University of Manchester (UK); Advisor: Robin K. Bullough.

1994 (D.Sc.) University of Manchester (UK).

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1976 (Ph.D.) *The theory of final groups*, Eotvos Lorand University (Budapest, Hungary); Advisor: Korraadi Keresztsely.

1996 (D.Sc.) Hungarian Academy of Sciences (Budapest, Hungary).

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1976 (Ph.D.) *Mathematical treatment of quantum optics*, University of Manchester (UK); Advisor: Robin K. Bullough.

1993 (D.Sc.) University of Manchester (UK).

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1977 (Ph.D.) *Protocol Machines: Towards a Logical Theory of Communications Protocols*, University of Waterloo (Canada); Advisor: Eric Manning.

Hamad M. YEHYIA (b. 03.04.1945) (Male)

1978 (Ph.D.) *Qualitative analysis of the problem of rotation of a rigid body about a fixed point*, Moscow State University (Russia); Advisor: V. G. Demin.

1986 (D.Sc.) Moscow State University (Russia).

Amal RASHED (Male)

1981 (Ph.D.) *A Study of Fuzzy Variables and Some Comparisons with Random Variables*, University of Sheffield (UK); Advisor: M. B. Rao.

Mohamed EL AGAWANY (Male)

1982 (Doctorat) *Sur les algèbres universelles*, Université de Montpellier II (France); Advisor: Artibano Micali.

Néfertiti MAGAHED

1988 (Doctorat) *Autour des algèbres de Malcev*, Université de Montpellier II (France); Advisor: Artibano Micali.

Mohamed EL ATTAR (Male)

1994 (Ph.D.) *Oscillations of Retarded Differential Equations*, Tanta University (Egypt); Advisor: Ovide Arino.

M. A. H. ESMAIL

1994 (Ph.D.) *The Linear Quadratic Regulator Problem for Degenerate Systems in Hilbert Spaces*, Minia University (Egypt); Advisor: Franz Kappel.

Ashraf FATHALLAH

1998 (Ph.D.) *State-Dependent Delay Differential Equations arising in the Study of Stage-Structured Population Growth*, Cairo University (Egypt); Advisor: Ovide Arino.

Abdel-Rahman Aly HUSSEIN (Male)

1999 (Ph.D.) *Application of the Trotter-Kato Theorem to Collocation Methods*, Minia University (Egypt); Advisor: Franz Kappel.

El-Sayed M. E. MOSTAFA

2000 (Ph.D.) *Efficient Trust Region Methods in Numerical Optimization*, Alexandria University (Egypt); Advisors: Ekkehard Sachs & Mahmoud El-Alem.

Mohamed Barakat (Male)

2001 (Dr. rer. nat.) *Functional Spaces. A Direct Approach*, Rheinisch-Westfaelische Technische Hochschule (Aachen, Germany); Advisor: Wilhelm Plesken.

Fathy Ibrahim ABDEL-BASSIER

2002 (Ph.D.) *On the Structure of Higher-Order Gravitational Field Equations on n-Dimensional Spacetimes*, Minia University (Egypt); Advisor: Rainer Schimming.

Samir H. Saker (Male)

2002 (Ph.D.) *Oscillation Theory of Delay Differential and Difference Equations and Some of Their Applications*; Adam Mickiewicz University (Poznan, Poland).

Eritrea

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1984 (Ph.D.) *On Singularly Perturbed Second Order Differential Equations with a Discontinuous Coefficient in a Hilbert Space*, Howard University (Washington DC, USA); Advisor: James A. Donaldson.

Ghidewon Abay ASMEROM (Male)

1990 (Ph.D.) *Graph Products and Covering Graph Imbeddings*; Western Michigan University (Kalamazoo MI, USA); Advisor: Arthur White, II.

Eshetu T. WONDmagegnehu

2002 (Ph.D.) *Mixture distribution of increasing failure rates*, University of Pittsburgh (PA, USA); Advisors: Henry W. Block & Thomas H. Savits.

Berhane Tequabo GHAIM (b. 1968) (Male)

2003 (Ph.D.) *On the Geometry of Banach Space Operators*, Kent State University (Kent, Ohio, USA); Advisors: Joe Diestel.

Ethiopia

Seyoum GETU (Male)

1973 (Ph.D.) *Generalizing Alternative Rings*, University of Missouri (Columbia, USA); Advisor: David Rodabaugh.

Demissu GEMEDA (b. 03.12.1946) (Male)

1976 (Ph.D.) *Multiplicative Structure of Finite Free Resolutions of Ideal Generated by Monomials in an R-Sequence*, Brandeis University (MA, USA); Advisor: David Buchsbaum.

Adinew ALEMAYEHU (b. 1948) (Male)
1985 (Dr.rer.nat.) *Development, Analysis and Implementation of Parametric Adams 1-3 Step Methods*, Humboldt-Universitaet (Berlin, Germany), Advisor: Eberhard Griepentrog.

Demissie ALEMAYEHU (Male)
1986 (Ph.D.) *Bootstrapping Multivariate Models and Robust Statistics*, University of California (Berkeley CA, USA); Advisor: R. D. J. Beran.

Shiferaw BERHANU (Male)
1987 (Ph.D.) *Hypo-Analytic Pseudodifferential Operators*, Rutgers University (New Brunswick, USA); Advisor: J. François Trèves.

Abdulcadir Sheikh ISSA (Male)
1988 (Ph.D.) *Spaces of Functions L^p -Differentiable in the Local Sense up to a Variable Order and Their Stability under Pseudodifferential Operators*, Howard University (Washington DC, USA).

Amha TUME-LISAN (b. 01.01.1949) (Male)
1989 (Ph.D.) *The Ideal Structure of the Space of Ultrafilters on a Discrete Semigroup and Related Ramsey Theorems*, Howard University (Washington DC, USA); Advisor: Neil Hindman.

Isaac BEKELE (Male)
1991 (Ph.D.) *Sequential Procedures for Estimation of the Time of Attainment of a Threshold Value*, Cornell University (Ithaca NY, USA); Advisor: Charles McCulloch.

Abera ABAY (Male)
1993 (Ph.D.) *Some Limiting Distributions for Renewal Processes*, Temple University (Philadelphia PA, USA); Advisor: Janos Galambos.

Gebreselassie BARAKI (Male)
1993 (Ph.D.) *Abstract interpretation of polymorphic higher-order functions*, University of Glasgow (UK).

Dawit BEKELE (Male)
1994 (Ph.D.) *Contribution to the study of the distribution applications in Ada*, Université de Toulouse (France).

Kenzu ABDELLA (b. 1964) (Male)
1994 (Ph.D.) *Shear Flow Instability and Numerical Simulation of Droplets*, The University of Western Ontario (London, Canada); Advisor: Henning Rasmussen.

Mulatu LEMMA (Male)

1994 (Ph.D.) *Some Power Series Transformations and Weighted Mean Transformations that Preserve Absolute Convergence*, Kent State University (Kent, Ohio, USA); Advisor: John Fridy.

Ahmed MOHAMMED (Male)

1995 (Ph.D.) *A Modulus of Continuity and Harnack's Inequality for Second Order Parabolic Schroedinger Equations*, Temple University (Philadelphia PA, USA); Advisor: Gary Bates.

Kbenesh W. BLAYNEH (Female)

1996 (Ph.D.) *Hierarchical Size-Structured Population Models*, University of Arizona (Tucson, AZ, USA); Advisor: J. M Cushing.

Abdulkadir HASSEN (Male)

1996 (Ph.D.) *Log-Polynomial Period Functions for the Hecke Groups*, Temple University (Philadelphia PA, USA); Advisor: Marvin Knopp.

Aklilu ZELEKE (Male)

1997 (Ph.D.) *The Effect of Finite Memory Cutoff on Loop Erased Walk in Three Dimensions*, Temple University (Philadelphia PA, USA); Advisor: Wei-Shih Yang.

Tewodros AMDEBERHAN (Male)

1997 (Ph.D.) Applications of the WZ Theory to Irrationality Proofs and Explicit Determinant Evaluations, Temple University (Philadelphia PA, USA); Advisor: Doron Zeilberger.

Negash BEGASHAW (Male)

1997 (Ph.D.) *Optimization Algorithms Based on Conic Approximations and Collinear Scalings*, Washington State University (USA); Advisor: Kuruppu Ariyawansa.

Melkamu ZELEKE (Male)

1998 (Ph.D.) *Discrete Radon Transform, Covering Congruences and Boolean Functions*, Temple University (Philadelphia PA, USA); Advisor: Doron Zeilberger.

Tsegaye Gedif AYELE (b. 05.01.1966) (Male)

1999 (Ph.D.) *About smoothness of solutions and conditions of localization for spectral decomposition of operators with constant coefficients*, Peoples' Friendship University (Moscow, Russia).

Selemon GETACHEW (Male)

2000 (Ph.D.) *Galois theory of polynomial iterates*, Brown University (Providence RI, USA); Advisor: Joseph H. Silverman.

Akalu TEFARA (b. 22.09.1969) (Male)
2000 (Ph.D.) *Improved Algorithms and Implementations in the Multi-WZ Theory*, Temple University (Philadelphia, USA); Advisor: Doron Zeilberger.

Dawit Wakjira ABERRA (Male)
2000 (Ph.D.) *The Reflection principle, the Schwarz Potential and Quadrature*, University of Arkansas (USA); Advisor: Dmitry S. Khavinson.

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2002 (Sc.D.) *Bayesian Models for Gene Expression Analysis*, Harvard University (Boston MA, USA); Advisor: Joseph Ibrahim.

Zekarias BERHANE (Male)
2003 (Ph.D.) *Flexible Models for Recurrent Time to Event Data*, University of Pittsburgh (USA); Advisor: Lisa Weissfeld.

Assefaw Hadish GEBREMEDHIN (Male)
2003 (Dr.scient) *Practical Parallel Algorithms for Graph Coloring Problems in Numerical Optimization*, Universitetet i Bergen (Norway); Advisor: Fredrik Manne.

Mohammed TESEMMA (b. 1972) (Male)
2004 (Ph.D.) *Reflection groups and semigroup algebras in multiplicative invariant theory*, Temple University (Philadelphia PA, USA); Advisor: Martin Lorenz.

Gabon

Martin Ngu NDUMU (Male)
1989 (Ph.D.) *Brownian Motion and the Heat Kernel on Riemannian Manifolds*, University of Warwick (UK); Advisor: K. David Elworthy.

Guy Martial NKIET (b. 1966) (Male)
1994 (Doctorat unique) *Mesures d'association et analyse canonique* [Measures of association and canonical analysis], Université Paul Sabatier (Toulouse, France); Advisor: Jacques Dauxois.

Philibert NANG (b. 1967) (Male)
1996 (Doctorat unique) *D-modules holonomes réguliers associés au groupe des similitudes* [Regular holonomic D-modules associated to the group of similitudes], University of Paris 6 (France); Advisor: Louis Boutet de Monvel.

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1996 (Doctorat unique) *Estimation de la fonction d'intensité d'un processus ponctuel par la méthode de complexité minimale* [Minimum complexity estimation for the intensity function of a point process], Université Joseph Fourier (Grenoble, France); Advisor: Gérard Grégoire.

Ghana

Daniel Afedzi AKYEAMPONG (Male)

1966 (Ph.D.) *Applications of higher symmetry groups to particle physics*, University of London (UK); Advisors: Abdus Salam & Paul Matthews.

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1967 (D.Phil.) *Some Problems in Quantum Theory and its Classical Limit* University of Oxford (UK); Advisor: John Trevor Lewis.

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1989 (Ph.D.) *On the Oscillatory Regimes of Solutions of Differential Equations with (Distributions) Impulse Perturbations*, Odessa State University (Odessa, USSR); Advisor: David Cheban.

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1989 (Ph.D.) *Improved Estimation of the Covariance Matrix, the Precision Matrix and the Generalized Matrix*, Bowling Green State University (Ohio, USA); Advisor: Arjun Gupta.

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1990 (Ph.D.) *Discrete time competitive systems*, North Carolina State University (NC, USA); Advisor: John Franke.

Nicholas Kumih OPPONG (Male)

1992 (Ph.D.) *Mathematics Generalizations Made by High School Students in Mathematics Problem Solving Sessions*, University of Georgia (Athens GA, USA); Advisor: Jim Wilson.

Evans K. AFENYA (Male)

1992 (Ph.D.) *Modeling Granulocytopoiesis, Normal and Leukemic States*, University of Illinois at Chicago (USA); Advisor: Calixto Calderón.

Joseph APALOO (Male)

1994 (Ph.D.) *A Mathematical Theory of Evolution of Ecological Communities*, University of Montana (Missoula Montana, USA); Advisor: Robert McKelvey.

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1995 (Ph.D.) *Numerical Methods for the Computation of Invariant Tori*, Simon Fraser University (USA); Advisor: Robert Russell.

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1999 (Ph.D.) *An Investigation into Ill-Conditioning and Regularization of Optimal Control Computations*, The University of Western Australia (Perth, Australia); Advisor: L. S. Jennings.

Kwaku NYKI

1999 (Ph.D.) *An Integrated Growth and Yield Model for the Tropical High Forests of Ghana* University of Aberdeen (UK).

Kofi Dankwa ANIM-APPIAH (Male)

2000 (Ph.D.) *Interleaved Concatenated Coding for Input-Constrained Channels*, Georgia Institute of Technology (Atlanta GA, USA); Advisor: Steven McLaughlin.

Anthony Y. Aidoo (b. 1955) (Male)

2001 (Ph.D.) *Studies on a Prototype Channel Geometry for Acetylcholine Receptor Channel*, University of Vermont (Burlington, VT, USA); Advisor: Daniel Bentil.

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2002 (Ph.D.) *Topics in the Differential Geometry of Supermanifolds*, Howard University (Washington D.C., USA); Advisors: Stanley Einstein-Matthews & Joshua Leslie.

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2003 (Ph.D.) *The Investigation of a Class of Capacitated Arc Routing Problems: Collection of Garbage in Developing Countries*, The University of Birmingham (Birmingham, UK); Advisor: Said Salhi.

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1981 (Ph.D.) *Etude de quelques espaces modulaires définis par des fonctions dépendants d'un paramètre* [Study of some modular spaces defined by functions dependent on one parameter], Uniwersytet im Adama Mickiewicza (Pozna, Poland); Advisor: Julian Musielak.

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2004 (Ph.D.) *A Numerical Method to Solve the Two-Step Parabolic Heat Transport Equations in a Microsphere Subjected to an Ultrafast Laser Pulse*, Louisiana Tech University (USA); Advisors: Weizhong Dai & Richard Greechie.

Kenya

George Kinuthia Kiarie SAITOTI (b. 1944) (Male)
1971 (Ph.D.) *Mod-2 K-Theory of the Second Iterated Loop Space on a Sphere*,
University of Warwick (UK); Advisor: Luke Hodgkin.

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1971 (Ph.D.) *Frobenius Groups*, Syracuse University (NY, USA); Advisor:
Larry C. Grove.

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1975 (Ph.D.) *Computation of steady two-dimensional transonic flows by an integral equation method*, Stanford University (CA, USA); Advisor:
John R. Spreiter.

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1978 (D.Ed.) *A comparative analysis of mathematical knowledge and mathematical attitude between urban Suburban elementary school teachers*, Texas Southern University (TX, USA).

Henry Amadalo MULINDI (Male)
1979 (D.Ed.) *Guidelines for pure and applied modern mathematics curriculum development for secondary schools in Kenya*, Columbia University (New York, USA).

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1984 (Ph.D.) *Extensions of Banach's theorem on reversible matrices*, University of Birmingham (UK);
1986 (Ph.D.) *On the spectrum of the cesaro operator*, Kenyatta University (Nairobi, Kenya).

John Nyamai MAUNDU (Male)
1986 *Student achievement in science and mathematics: a case study of extra-provincial and harambee secondary schools in Kenya*, McGill University (Canada).

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1987 (Ph.D.) *A study of junior secondary school pupils competence in selected processes of science*, Kenyatta University (Nairobi, Kenya).

Gerald N. KIMANI (Male)
1991 (Ph.D.) *A study of factors influencing achievement in mathematics among primary school in-service student teachers in Kenya*, Kenyatta University (Nairobi, Kenya).

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1991 (Ph.D.) *A study of some differentiable manifolds*, Kenyatta University (Nairobi, Kenya).

Romanus Odhiambo OTIENO (Male)
1995 (Ph.D.) *Robust variance estimation for finite population sampling*,
Kenyatta University (Nairobi, Kenya).

Ellam Khalagai WANJALA
1996 (Ph.D.) *Secondary school pupils errors in algebra and teacher strategies
in identifying and counteracting the errors*, University of Leeds (UK).

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1997 (Ph.D.) *Stability of Lie Groups of Nonlinear Hyperbolic Equations*,
University of South Africa (Pretoria, South Africa); Advisor: Elemer
Rosinger.

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2000 (Ph.D.) *Access Clause Trees in Disjunctive Deductive Databases*,
University of New Brunswick (Canada); Advisor: Bruce Spencer.

Simon Meru RUKANGU (Male)
2000 (Ph.D.) *Pupils' development of spatial ability in mathematics: an issue of
learning environment in selected secondary schools*, Kenyatta University
(Nairobi, Kenya).

Patrick Guge Oloo WEKE (b. 28.12.1962) (Male)
2001 (Ph.D.) *Simplified Optimal and Relay Linear Unbiased Estimation of
Parameters of Logistic Distribution*, Harbin Institute of Technology
(Harbin, China); Advisors: Wang Chengguan & Wu Congxin.

Joseph L. AWANGE (Male)
2001 (Dr.-Ing.) *Gröbner Bases, Multipolynomial Resultants and the Gauss
Jacobi Combinatorial Algorithms: Adjustment of Nonlinear GPS/LPS
Observations*, Universität Stuttgart (Germany); Advisors: Erik Grafarend
& Willi Freeden.

Mourice Ouma OTIENO (b. 09.02.1968) (Male)
2002 (Ph.D.) *On Quasi-affinity, Equivalence and Intersection of some Classes
of Operators in Hilbert Spaces*, University of Nairobi (Kenya); Advisors:
Jairus M. Khalagai & G. P. Pokhariyal.

Bennett OTIENO (Male)
2002 (Ph.D.) *An Alternative Measure of Preferred Direction for Circular Data*,
Virginia Polytechnic Institute and State University (USA); Advisor:
Christine Anderson-Cook.

Moshe MOLELEKOA (b. 1942) (Male)
1982 (Ph.D.) *Space-time symmetries of Yang-Mills gauge fields*, University of Washington (Seattle, Washington, USA); Advisors: Judith M. Arms & J. M. Westwater.

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1998 (Ph.D.) *Contributions to Bayesian Statistical Inference*, University of Western Ontario (London ON, Canada); Advisor: M. Haq.

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1999 (Ph.D.) *Verified High-Level Synthesis Front-End and Simulator Using Dependence Flow Graphs*, Auburn University (Alabama, USA); Advisor: Richard Chapman.

Thabiso NYABANYABA (b. 07.01.1961) (Male)
2002 (Ph.D.) *The ordinary level (O level) mathematics examination in Lesotho and the impact of recent trends on Basotho students' epistemological access*, University of the Witwatersrand (Johannesburg, South Africa); Advisor: Jill Adler.

Liberia

Mark Siafa KORLIE (b. 1962) (Male)
1996 (Ph.D) *Particle Modeling of Liquid Drop Formation on a Solid Surface in 3-D*, University of Texas (Arlington, USA); Adviser: Donald Greenspan.

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1997 (Ph.D.) *Optimizing Systems Reliability with Integer Programming*, New Mexico State University (USA); Advisor: Joaquin Loustaunau

David Thomas GAY (b. 08.03.1968) (Male)
1999 (Ph.D.) *Symplectic 4-Dimensional 2-Handles and Surgery along Transverse Knots*, University of California (Berkeley CA, USA); Advisor: Robion Kirby.

Madagascar

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1970 (Doctorat 3ème cycle) *Etudes sur l'analyse de variance multidimensionnelle : de la théorie aux applications*, Université Paul Sabatier (Toulouse, France).

Harisson RATSIMBA-RAJOHN (Male)
1981 (Doctorat 3ème cycle) *Etude de deux méthodes de mesures rationnelles : la commensuration et le fractionnement de l'unité, en vue d'élaboration*

de situations didactiques, Université Bordeaux 1 (France); Advisor: Guy Brousseau.

- 1992 (Doctorat d'Université) *Contribution à l'étude de hiérarchie implicative. Application à l'analyse de la gestion didactique des phénomènes d'ostension et de contradictions* [Contribution to the study of implicative hierarchy. Application to the analysis of didactic management of the phenomena of exposition and of contradiction], Université Rennes 1 (France); Advisors: Régis Gras & Guy Brousseau.

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- 1983 (Doctorat 3ème cycle) *Difficultés linguistiques et pédagogiques soulevées par l'emploi, dans les textes mathématiques de certains adjectifs marqueurs de variance*, Université Paris VII (France).

André TOTOHASINA (Male)

- 1992 (Doctorat d'université) *Méthode implicative en analyse de données et application à l'analyse de conceptions d'étudiants sur la notion de probabilité conditionnelle*, Université Rennes I (France).

Benjamin RANDRIANIRINA (Male)

- 1998 (Ph.D.) *Combinatoire des systèmes d'équations différentielles et aux dérivées partielles*, Université de Quebec (Montreal, Canada); Advisors: Pierre Leroux & G. Labelle.

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- 1999 (Doctorat 3ème cycle) *R-multipermutations hierarchisées et dérangements*, Université d'Antananarivo (Antananarivo, Madagascar); Advisor: Roberto Mantaci (Université Paris 7, France).

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- 1981 (Ph.D.) *On Injective Resolvents*, University of Kentucky (USA); Advisor: Edgar Earl Enochs.

Busiso Pascal CHISALA (Male)

- 1986 (Ph.D.) *Canonical Coordinates for Hyperelliptic Curves in Characteristics P*, University of California (Berkeley CA, USA); Advisor: Arthur Ogus.

Llolsten KAONGA (b. 30.06.1957) (Male)

- 1994 (Ph.D.) *Decomposable Functions and Universal C*-Algebras*, University of New Hampshire (Durham NH, USA); Advisor: Donald Hadwin.

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1998 (Ph.D.) *Some contributions to queueing theory*, University of Sheffield (UK); Advisor: Damodar Shanbhag.

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2000 (Ph.D.) *On using everyday experiences in teaching secondary mathematics in Malawi: Possibilities and constraints for change*, Deakin University (Melbourne, Australia); Advisors: Susie Groves & Elizabeth Buckingham.

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2001 (Ph.D.) *Tutte Polynomials, Chromatic Polynomials and Matroids*, Victoria University of Wellington (New Zealand); Advisor Geoff Whittle.

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2001 (Dr.rer.nat.) *Representing Graphs on Groupoids, Symmetry and Form*, University of Vienna (Austria); Advisor: Gert Sabidussi.

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2004 (Ph.D.) *Kinetic-Based Numerical Schemes in Fluid Dynamics*, Technische Universität Darmstadt (Germany); Advisor: Axel Klar.

Mali

Daouda SANGARE (b. 13.07.1943) (Male)

1977 (Doctorat d'état) *Sur la composition et l'extension des filtrations et pseudo-valuations* [On the composition and extension of filtrations and pseudo-valuations], Université de Caen (France); Advisor: Marc Krasner.

Saddo Ag ALMOLOUD (Male)

1992 (Doctorat d'université) *L'ordinateur, outil d'aide à la démonstration et au traitement de données didactiques*, Université Rennes I (France).

Souleymane Ambogou GNELECOUMBAGA (Male)

1996 (Doctorat) *Asymptotic Analysis of the Problem of Contact of a Highly Conducting and Perforated Domains*, Université Jean Mottet (Saint-Etienne, France); Advisor: Grigori Panasenko.

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1996 (Ph.D.) *An inverse problem for electromagnetic waves in an inhomogeneous and orthotropic medium*, University of Delaware (USA).

Ibrahim COULIBALY (Male)

1997 (Doctorat) *Contributions à l'analyse numérique des méthodes quasi-Monte Carlo*, Université Joseph-Fourier (Grenoble, France); Advisor: Christian Lecot.

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1999 (Doctorat 3ème cycle) *Test for equality of multivariate extreme value distribution parameters*, Université de Bamako (Mali); Advisor: Shi Daoji.

Aboubacar Bass BAGAYOGO (Male)

2001 (Ph.D.) *Generation de maillage de peau pour géométries complexes par décomposition spatiale hiérarchique*, École Polytechnique (Montreal, Canada); Advisors: Ricardo Camarero & André Fortin.

Mauritania

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1988 (Doctorat unique) *Elimination Réduite* [Reduced elimination], Université Louis Pasteur (Strasbourg, France); Advisor: J. P. Jouanolou.

Ould Ahmed Izid Bih ISSELKOU (b. 31.12.1961) (Male)

1991 (Doctorat unique) *Problèmes Semilinéaires Elliptiques dans des Domaines Bornés et non Bornés* [Existence and Nonexistence Results for Nonlinear Elliptic Problems on Bounded and Unbounded Domains], Université d'Orléans (France); Advisor: Alice Simon.

Sid'Ahmed Ahmed LESSIAD (b. 31/12/1964) (Male)

1997 (Doctorat 3ème cycle) *Quantification par déformations des structures de Poisson quadratiques en dimensions 3 et 4* [Deformations Quantization of quadratic Poisson structures in dimensions 3 and 4], Faculté des Sciences Semlalia (Marrakech, Morocco); Advisor: Thami Az-Eddine.

Khalil EL MEHDI (b. 20.12.1967) (Male)

1998 (Ph.D.) *Sur un problème de type Yamabe: L'effet topologique des points critiques à l'infini* [On a Yamabe type problem: The topological effect of critical points at infinity], Université Tunis II (Tunisia); Advisor: Abbas Bahri (Rutgers University, New Jersey, USA).

Mohamed Lemine OULD SALIHI (Male)

1998 (Doctorat) *Couplage de méthodes numériques en simulation directe d'écoulements incompressibles*, Université Joseph-Fourier (Grenoble, France); Advisor Georges-Henri Cottet.

Toka DIAGANA (b. 27.12.1967) (Male)

1999 (Doctorat unique) *Sommes d'opérateurs et conjecture de Kato-McIntosh* [Sums of Linear Operators and Kato-McIntosh's Conjecture], Université Claude Bernard - Lyon 1 (France); Advisor: J. B. Baillon.

Mauritius

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1965 (Ph.D.) *Some stability problems in the theory of flow of elastico-viscous liquids*, University of Wales (Aberystwyth, UK); Advisors: T.V. Davies & K. Walters.

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2000 (Ph.D.) *Stability of Communication Networks*, University of Cambridge (UK) & University of Mauritius (Mauritius); Advisor: F. P. Kelly (University of Cambridge).

Morocco

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1978 (Doctorat 3ème cycle) *Sur les Modules Topologiques et Bornologiques* [On topological and bornological modules], Université de Rabat (Morocco); Mohamed Akkar.

1995 (Doctorat d'état) *Sur les Algèbres Topologiques non Associatives* [On non-associative topological algebras], Université de Rabat (Morocco); Advisor: Mohamed Akkar.

Habiba EL BOUAZZAOUI (Female)

1982 (Doctorat 3ème cycle) *Etude de situations scolaires des premiers enseignements du nombre et de la numération. Relations entre divers caractères de ses situations et le sens, la compréhension de l'apprentissage de ces notions* [Study of school situations of the first teaching of number and numeration. Relationships between diverse characters of these situations and the meaning, the understanding of the learning of these notions]. Université Bordeaux 1 (France); Advisor: Guy Brousseau.

1988 (Ph.D.) *Conceptions des élèves et des professeurs a propos de la notion de continuité d'une fonction* [Pupils' and teachers' conceptions concerning the notion of continuity of a function], Université Laval (Québec, Canada); Advisors: Claude Gaulin & Guy Brousseau.

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1985 (Doctorat 3ème cycle) *Bifurcations de codimension 1 et 2 pour un système différentiel autonome de R3 à non linéarité quadratique*, Université Paul Sabatier (Toulouse, France).

Driss ESSELAOUI (Male)

1986 (Ph.D.) *Méthodes numériques pour la simulation d'écoulements viscoélastiques*, Université Laval (Quebec, Canada); Advisor: Michel Fortin.

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1987 (Ph.D.) *Quelques problèmes d'optimisation de formes en hydrodynamique*, Université Laval (Quebec, Canada); Advisor: Michel Fortin.

Benyounes BEMMOUNA

1987 (Ph.D.) *Étude des conduites métacognitives d'élèves marocains du secondaire en relation avec la résolution de problèmes mathématiques*, Université Laval (Quebec, Canada).

Ahmed LAKRAMTI (Male)

1987 (Ph.D.) *Difficultés d'apprentissage en mathématiques, qui sont en relation avec différents aspects de la langue d'enseignement (l'Arabe) au Maroc*, Université Laval (Quebec, Canada).

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1988 (Doctorat) *Raf al-Hijab d'Ibn al-Banna (critical edition, French translation, philosophical study and mathematical analysis)*, Université Paris I - Panthéon-Sorbonne (France).

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1990 (Ph.D.) *Frege, présupposition et rédondance*, Université de Paris X-Nanterre (France).

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1992 (Doctorat d'état) *Contribution à l'étude du comportement asymptotique d'équations différentielles et de diffusion réaction à retard*, Université Sidi Mohamed ben Abdellah (Fez, Morocco); Advisor: Ovide Arino.

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1992 (Doctorat 3ème cycle) *Contribution à l'étude du problème de bifurcation de Hopf locale dans le cadre des équations différentielles avec retard*, Université Mohammed V –Agdal (Rabat, Morocco); Advisor: Ovide Arino.

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1993 (Docteur en sciences) *Bornes de Berry-Esséen pour les statistiques de rangs sérielles*, Université Libre de Bruxelles (Brussels, Belgium); Advisor: Marc Hallin.

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1993 (Ph.D.) *Association-balanced arrays with applications to experimental design*, University of North Carolina (USA); Advisor: I. M. Chakravarti.

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1994 (Doctorat 3ème cycle) *Contribution à l'étude des modèles à non linéarité homogène de la dynamique de population*, Université Cadi Ayyad (Marrakech, Morocco); Advisor: Ovide Arino.

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1995 (Doctorat) *Estimations d'erreur a posteriori, élément finis mixtes, méthodes de stabilisation et méthodes multiniveaux* Université Claude Bernard - Lyon 1 (France); Advisors: Jacques Baranger & Jean-François Maitre.

Brahim SADIK

1995 (Ph.D.) *Contribution à l'étude de la complexité; du calcul d'un ensemble caractéristique en algèbre différentielle*, Université Cadi Ayyad (Marrakech, Morocco); Advisors: Abdelilah Kandri-Rody & François Ollivier.

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1995 (Doctorat d'Université). *Problèmes de didactique de la numération; échecs et succès de la re-mathématisation* [Problems of the didactics of numeration; failures and successes of re-mathematisation], Université Bordeaux 1 (France); Advisor: Guy Brousseau.

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1996 (Doctorat d'état) *Contribution à la modélisation et à l'étude mathématique de problèmes de dynamique de population*, Université Cadi Ayyad (Marrakech, Morocco); Advisor: Ovide Arino.

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1996 (Doctorat 3ème cycle) *Contribution à l'étude mathématique d'équations à mémoire modélisant des problèmes de ressources renouvelables*, Université Cadi Ayyad (Marrakech, Morocco); Advisor: Ovide Arino.

Lahoucine IZELGUE

1997 (Ph.D.) *Spectra and Factorization in Pullbacks Arising from Integral Domains. Contribution to the Study of the Dimension of Integer-Valued Polynomial Rings*, Université Sidi Mohamed ben Abdellah (Fez, Morocco); Advisor: Salah-Eddine Kabbaj.

Driss Nour EL-ABIDINE

1997 (Ph.D.) *Contribution to the Study of Nagata & Kaplansky's Ideal Transforms, Class Groups, and Factorization Properties in Integral*

Commutative Rings, Université Sidi Mohamed ben Abdellah (Fez, Morocco); Advisor: Salah-Eddine Kabbaj.

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1997 (Doctorat) *Comportement hydrodynamique de différents processus de zero range*, Université de Rouen (France); Advisors: Cláudio Landim & Ellen Saada.

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1997 (Doctorat) *Estimation non linéaire par ondelettes : régression et survie*, Université Joseph-Fourier (Grenoble, France); Advisor: Anestis Antoniadis.

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1998 (Doctorat 3ème cycle) *Dimension de Gelfand-Kirillov d'une extension de Ore, Formule de Tauvel et caténarité*, Université Cadi Ayyad (Marrakech, Morocco); Advisor: El Youssef.

El Mghari Idrissi LARBI

1998 (Doctorat 3ème cycle) *Décomposition primaire dans les anneaux noethériens non commutatifs*, Université Cadi Ayyad (Marrakech, Morocco); Advisor: El Youssef.

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1998 (Doctorat) *Homogénéisation de l'équation de la chaleur et des ondes et application à la contrôlabilité approchée*, Université de Rouen (France); Advisor: Patrizia Donato.

Mostafa ADIMY (Male)

1999 (Habilitation) *Semi-groupes intégrés et équations aux dérivées partielles non locales en temps*, Université de Pau et des Pays de l'Adour (France); Advisor: Ovide Arino.

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1999 (Doctorat) *Stabilisation dynamique et Approximation numérique du problème de contrôle*, Université de Besançon (France).

Amal MELLOUK

1999 (D.Sc.) *Statistiques de rangs et polynômes de Bernstein*, Université Sidi Mohamed ben Abdellah (Fez, Morocco); Advisor: Khalid Rifi.

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2000 (D.Sc.) *Méthodes probabilistes pour une classification optimale d'un tableau de données*, Université Sidi Mohamed ben Abdellah (Fez, Morocco); Advisor: Khalid Rifi.

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2000 (Ph.D.) *Branching Processes Cell Population Models*, Université Sidi Mohamed ben Abdellah (Fez, Morocco); Advisors: Laheen Omari & Ziad Taib.

Abdelali KAAOUACHI

2000 (Ph.D.) *Estimation non paramétrique basé sur les rangs pour les modèles ARMA*, Université Mohammed I (Oujda, Morocco); Advisor: Jelloul Allal.

Youssef LOUKILI (Male)

2000 (Ph.D.) *Modeling by Hybrid Mixed Finite Volume Elements of Groundwater Flows and Pollutant Transport in Porous Reservoirs*, Université Ibn Tofail (Morocco); Advisor: Driss Esselaoui.

Akka ZEMMARI (Male)

2000 (Ph.D.) *Contribution à l'analyse d'algorithmes distribués*, Université Bordeaux 1 (France); Advisors: Nasser Saheb & Boas Erez.

Samir BOUCHIBA (Male)

2001 (Ph.D.) *Prime Spectra and Dimension Theory in Tensor Products of Commutative Algebras*, Université Sidi Mohamed ben Abdellah (Fez, Morocco); Advisor: Salah-Eddine Kabbaj.

Khalid BOUSHABA

2001 (Ph.D.) *Mathematical Modeling of Oceanic Plankton*, Université Cadi Ayyad (Marrakech, Morocco); Advisors: Mohamed Khaladi & Ovide Arino.

Hassane BOUZAHIR

2001 (Ph.D.) *Contribution à l'Etude des Aspects Qualitatif et Quantitatif pour une Classe d'Equations Différentielles à Retard Infini, en Dimension Infinie*, Université Cadi Ayyad (Marrakech, Morocco); Advisor: Khalil Ezzinbi.

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2001 (D.Sc.) *Développement asymptotique pour les statistiques de rangs linéaires sérielles*, Université Sidi Mohamed ben Abdellah (Fez, Morocco); Advisor: Khalid Rifi.

Said El BAGHDADI

2001 (Doctorat d'état) *Class Groups and Homogeneous Class Groups of Pullbacks and Graded Integral Domains. On a Class of Prüfer v-Multiplication Domains*, Université Cadi Ayyad (Marrakech, Morocco); Advisor: Salah-Eddine Kabbaj.

Mohammed KHALIS (Male)

2001 (Ph.D.) *Spectra of Power Series Rings over Pullbacks and of Constructions of the Form $A+XB[[X]]$. On the Class Group of Pullbacks and t-Dimension of Certain Integral Domains*, Université Sidi Mohamed ben Abdellah (Fez, Morocco); Advisor: Salah-Eddine Kabbaj.

Lahcen LAAYOUNI

2001 (Ph.D.) *Adaptativite en elements finis et methodes*, Université Mohammed V - Agdal (Rabat, Morocco); Advisors: Ali Souissi & Boujemâa Achchab.

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2001 (Ph.D.) *Classes of Pulbacks and Trivial Ring Extensions Defined by Homological Conditions*, Université Sidi Mohamed ben Abdellah (Fez, Morocco); Advisor: Salah-Eddine Kabbaj.

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2001 (Ph.D.) *Dual of an Ideal, Trace Properties, and Star-Operations in Integral Domains*, Université Sidi Mohamed ben Abdellah (Fez, Morocco); Advisor: Salah-Eddine Kabbaj

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2002 (D.Sc.) *Développements d'Edgeworth pour les statistiques de rangs sérielles signés* Université Sidi Mohamed ben Abdellah (Fez, Morocco); Advisor: Khalid Rifi.

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2002 (D.Sc.) *Comportement asymptotique des statistiques sérielles de rangs signés*, Université Sidi Mohamed ben Abdellah (Fez, Morocco); Advisor: Khalid Rifi.

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2003 (Ph.D.) *Etude numérique de problèmes nonlinéaires avec conditions aux bords non standards et applications*, Université Mohammed I (Oujda, Morocco); Advisor: Abdesslam Boutayeb.

Said El MELHAOUI

2003 (Ph.D.) *Contribution à la resolution de problèmes de tests d'hypothèses paramétriques et non paramétriques dans quelques modèles de séries temporelles*, Université Mohammed I (Oujda, Morocco); Advisor: Jelloul Allal.

Abdelmounim BELAHMIDI

2003 (Doctorat) *Equations aux dérivées partielles appliquées à la restauration et à l'agrandissement des images*, Université Paris Dauphine (France); Advisor: Antonin Chambolle.

Abdelaati DAOUIA

2003 (Doctorat d'université) *Analyse non paramétrique des frontières de production et des mesures d'efficacité à l'aide de quantiles conditionnels non standards*, Université Paul Sabatier (Toulouse, France); Advisors: Yves Aragon & Christine Thomas-Agnan.

M'barek ADIOUI (Male)

2004 (Doctorat) *Modélisation et étude mathématique et informatique de comportements collectifs. Alignement dans un banc de poissons*, Université Denis Diderot (Paris, France); Advisors: Khashayar Pakdaman & Hassan Hbib.

Mozambique

Paulus GERDES (b. 11.11.1952) (Male)

1986 (Dr.phil.) *Zum erwachenden geometrischen Denken* [On the awakening of geometrical thinking], PH Dresden (Dresden, Germany); Advisor: Heiner Meyer.

1996 (Dr.rer.nat.habil.) *Sona Geometrie – Reflektionen über eine Sandzeichentradition im südlichen Zentralafrika* [Sona Geometry – Reflections on a Sand Drawing Tradition in Southern Central Africa], Wuppertal University (Wuppertal, Germany).

Manuel Joaquim ALVES (b. 30.6.1963) (Male)

1999 (Ph.D.) *Singular Functional Differential Equations of Second Order* (in Russian), Perm State Technical University (Perm, Russia); Advisor: Nikolay Azbelev.

João Sebastião Paulo MUNEMBE (b. 22.06.1962) (Male)

2000 (Ph.D.) *Constructive Study of Asymptotic Properties of Solutions to Differential Delay Systems with Periodic Parameters* (in Russian), Perm State Technical University (Perm, Russia); Advisor: Vladimir Petrovich Maksimov.

Sarifa Abdul FAGILDE (nee MAGIDE) (b. 20.05.1959) (Female)

2002 (Ph.D.) *Towards a characterisation of communication and gender patterns in secondary mathematics classrooms in Mozambique*, University of the Western Cape (Bellville, South Africa); Advisors: Cyril Julie (South Africa) & Maria Luiza Cestari (Norway).

Abdulcarimo ISMAEL (b. 01.03.1962) (Male)

2002 (Ph.D.) *An ethnomathematical study of Tchadji – about a Mancala type board game played in Mozambique and possibilities for its use in Mathematics Education*, University of the Witwatersrand (Johannesburg,

South Africa); Advisors: Paul Laridon (South Africa) & Paulus Gerdes (Mozambique).

Marcos CHERINDA (b. 26.02.1963) (Male)

2002 (Ph.D.) *The use of a cultural activity in the teaching and learning of mathematics: The exploration of twill weaving in Mozambican classrooms*, University of the Witwatersrand (Johannesburg, South Africa), Advisors: Paul Laridon (South Africa) & Paulus Gerdes (Mozambique).

Bhangy CASSY (b. 17.09.1959) (Male)

2003 (Ph.D.) *Effect of classroom interaction and gender on mathematics performance and attitudes toward mathematics of secondary pupils in Mozambique*, University of the Witwatersrand (Johannesburg, South Africa), Advisor: Peter Fridjhon.

José João MIGUEL (b. 12.01.1967) (Male)

2003 (Ph.D.) *Mathematical models with after-effect in population dynamics*, Agricultural University of Norway (Aas, Norway); Advisors: Arkadi Ponossov & Andrei Shindapin.

Evaristo Domingos UAILA (b. 23.02.1967) (Male)

2004 (D.Ed.) *Geometria e autonomia: um estudo dos programas, dos discursos dos professores e das práticas curriculares na Cidade da Beira, Moçambique* [Geometry and autonomy: a study of programmes, of teachers' discourses and of curricular practices in the city of Beira, Mozambique], Pontifícia Universidade Católica de São Paulo (Brazil); Advisors: Fernando José de Almeida (Brazil) & Rachael E. Thompson (Mozambique).

John Manuel FRANCISCO (b. 22.03.1967) (Male)

2004 (Ph.D.) *Students' reflections on mathematical learning: results from a longitudinal study*, Rutgers University (New Brunswick, NJ, USA); Advisor: Carolyn A. Maher.

Jan DRAISMA (b. 09.07.1944) (Male)

2005 (Ph.D.) *Teaching gesture and oral computation in Mozambique: four case studies*, Monash University (Clayton, Victoria, Australia); Advisors: Alan Bishop & Barbara Clarke.

Niger

Issoufou KOUADA (Male)

1975 (Ph.D.) *Linear Vector Maximization*, Rensselaer Polytechnic Institute; Advisor: Joseph Ecker.

Moumouni Kane AÏSSATA

1983 (Doctorat 3ème cycle) *Étude de quelques problèmes pédagogiques et linguistiques concernant l'enseignement des mathématiques au Niger*, Université Paris VII (France).

Beidi Soumana HAMMA (b. 01.01.1961) (Male)

1992 (Ph.D) *Méthodes Numériques d'Optimisation Globale* [Numerical Methods of global optimisation], Université Paul Sabatier (Toulouse, France); Advisor: Jean-Baptiste Hiriart-Urruty.

Aboubakar MAITOURNAM (b. 12.12.1966) (Male)

1999 (Doctorat) *Modélisation de niveaux de gris de mammographies numérisées et détection de microcalcifications* [Modelling of digitized mammographies grey levels and microcalcifications detection], Université de Paris 5 (France); Advisor: Christine Graffigne.

Abdoua TCHOUSSO (b. 01.01.1966) (Male)

2004 (Doctorat unique) *Etude de la stabilité asymptotique de quelques modèles de transfert* [On asymptotic stability of some models of heat] Université Claude Bernard - Lyon I (France); Advisors: Hamidou Touré & Cheng-Zhong Xu.

Nigeria

Chike Edozien Umuezei OBI (b. 21.04.1921) (Male)

1950 (Ph.D.) *Periodic Solutions of Non-linear Differential Equations of Second Order*, University of Cambridge (Cambridge, UK); Advisors: Mary Lucy Cartwright & J. E. Littlewood.

Adegoke OLUBUMMO (19.04.1923 – 26.10.1992) (Male)

1955 (Ph.D.) *Studies in the Theory of Linear Spaces*, University of Durham (Castle-Upon-Tyne, UK); Advisor: Werner Rogosinski.

James Okoye Chucuka EZEILO (Male)

1959 (Ph.D.) *Some topics in the theory of non-linear differential equations of the third order*, University of Cambridge (Cambridge, England UK).

1989 (D.Sc. honoris causa), University of Maiduguri (Nigeria)

1995 (D.tech. honoris causa), Federal University of Technology (Akure, Nigeria)

1996 (D.Sc. honoris causa), University of Nigeria (Nsukka, Nigeria).

Victor Omololu OLUNLOYO (Male)

1961 (Ph.D.) *On the Numerical Determination of the Solutions of Eigenvalue Problems of the Sturm-Liouville Type*, University of St. Andrews (Aberdeen, UK).

Chukuka OKONJO (b. 1928) (Male)
1962 (Dr.rer.nat.) *Über stationäre Null-Eins-Prozesse* [About stationary 0-1-processes], Universität zu Köln (Germany); Advisors: Ewald Burger & Johann Pfanzagl.

Alexander Obiefoka Enukora ANIMALU (b. 28.08.1938) (Male)
1965 (Ph.D.) *Model Potential in Solids*, University of Ibadan (Nigeria); Advisor: Volker Heine.

Sunday Osarumwense IYAHEN (b. 03.10.1937) (Male)
1967 (Ph.D.) *On certain classes of linear topological spaces*, University of Keele (UK); Advisor: Alexander Robertson.
1987 (D.Sc.) University of Keele (UK).

Boniface EKE (b. 06.06.1933) (Male)
1969 (Ph.D.) *Structure of Inseparable Composites*, Iowa State University (USA); Advisor: Bernard Vinograde.

Jekeri Okee
1970 (Ph.D.) *Untersuchungen über den einstelligen intuitionistischen Prädikatenkalkül der ersten Stufe*, Humboldt-Universität (Berlin, Germany); Advisor: Karl Schröter.

Aderemi Oluyomi KUKU (b. 20.03.1941) (Male)
1971 (Ph.D.) *On the Whitehead group of p -adic integral group-rings of finite p -groups*, University of Ibadan (Nigeria); Advisor: Hyman Bass.

Olusola AKINYELE (b. 11.05.1944) (Male)
1971 (Ph.D.) *Studies in Abstract Harmonic Analysis on Semigroups*, University of Ibadan (Nigeria), Advisor: Adegoke Olubummo.

Hezekiah Oduoye ADEYEMI
1971 (Ph.D.) *Capacity Regions for Two-Way Channels*, University of California (Berkeley CA, USA); Advisor: David Blackwell.

Ethelbert Nwakuche CHUKWU (b. 22.11.1940) (Male)
1972 (Ph.D.) *Symmetries and Identification of Linear Control Systems*, Case Western Reserve University (Cleveland, Ohio, USA); Advisor: Otomar Hájek.

Christopher Olutunde IMORU (Male)
1972 (Ph.D.) *The Jensen-Steffensen Inequality*, Northwestern University (Evanton, Illinois, USA); Advisor: Ralph P. Boas Jr.

Samuel A. ILORI (b. 11.01.1945) (Male)

1972 (Ph.D.) *Some problems in the theory of flag manifolds and flag bundles*, University of Oxford (UK); Advisor: Aubrey W. Ingleton

Kevin Ejere OSONDU (Male)

1974 (Ph.D.) *A Unified Theory of Extension of Bins to Semigroups and of Semigroups to Groups*; State University of New York (Buffalo NY, USA); Advisor: Dov Tamari.

Bola O. BALOGUN (b. 1943) (Male)

1975 (Ph.D.) *Some problems in Group Theory*, University of California (Los Angeles CA, USA); Advisor: E.G. Straus.

Godwin Osakpemwoya Samuel EKHAGUERE (Male)

1976 (Ph.D.) *A Markov Property for Multicomponent Euclidean Coariant Gaussian Generalized Stochastic Fields*, University of London (UK); Advisor: Raymond Frederick Streater.

David Olarewaju OLAGUNJU (Male)

1981 (Ph.D.) *Bifurcation and Stability of Propagating Oscillatory Flames*; Northwestern University (Evanton, Illinois, USA); Advisor: Bernard Matkowsky.

Olawoye Soladoye ADEGBOYE

1981 (Ph.D.) *On Testing against Restricted Alternatives in Gaussian Models*, Bowling Green State University (Ohio, USA); Advisor: Arjun Gupta.

Victoria Wilson INYANG (Female)

1984 (Ph.D.) *Uniserial Space Groups*, University of London (UK); Advisor: Susan McKay.

Peter Adewumi OSANAIYE (Male)

1984 (Ph.D.) *Quality Assurance in Sequences of Batches with Varying Quality*, University of Essex (UK).

Charles Ejike CHIDUME (Male)

1985 (Ph.D.) *Iterative Methods and Nonlinear Functional Equations*, Ohio State University (USA); Advisor William Jay Davis.

George Emese OKECHA (b. 04.04.1949) (Male)

1986 (Ph.D.) *Numerical quadrature of singular and non-singular integrals*, University of Bradford (Bradford, England); Advisor: David Hunter.

M. ODIOWEI

1986 (Ph.D.) *Complex Arithmetic Methods for Second Order Systems* University of Manchester (UK); Advisors: Ian Gladwell & I. M. Smith.

Adewale Roland Tunde SOLARIN (b. 05.04.1954) (Male)
1987 (Ph.D.) *On finite Bol loops*, Obafemi Awolowo University (Ile-Ife, Nigeria); Advisor: Bhagirath Lal Sharma.

Uyammadu MBANEFO (Male)
1987 (Ph.D.) *Mixed Boundary-Value Problems of Stress Singularities in the Neighbourhood of a Fractured and Debonded Fibre Embedded in an Infinite Elastic Matrix*, University of California (Berkeley CA, USA); Advisors: Jerrold Marsden & R. Westman.

Sani I. DOGUWA
1988 (Ph.D.) *Statistical analysis of mapped spatial point patterns*, University of Essex (UK); Advisor: Graham Upton.

Anthony Nnemeka EKE (b. 12.02.1949) (Male)
1990 (Ph.D.) *Contributions to Nonlinear Functional Differential Equations*, University of Nigeria (Nsukka, Nigeria); Advisors: C. E. Chidume & James O. C. Ezeilo.

Livinus Ugochukwu UKO (b. 24.06.1960) (Male)
1990 (Ph.D.) *Numerical solution of variational inequalities* (in Italian), Universita degli studi di Milano (Milan, Italy); Advisor: Claudio Baiocchi.

Peter Bamidele SHOLA (Male)
1990 (Ph.D.) *Numerical solution of a free-boundary viscous flow*, University of Essex (UK).

Yewande OLUBUMMO (b. 08.02.1960) (Female)
1991 (Ph.D.) *Measures on empirical logics and the properties of their associated dual Banach spaces*, University of Massachusetts (Amherst, USA); Advisor: Thurlow Cook.

Adebisi AGBOOLA (b. 11.08.1964) (Male)
1991 (Ph.D.) *Abelian Varieties and Galois Module Structure in Global Fields*, Columbia University (New York, USA); Advisor: Ted Chinburg.

Broderick O. OLUYEDE
1991 (Ph.D.) *Dependence of Bivariate Random Variables and Testing Dependency in Ordinal Contingency Tables*, Bowling Green State University (Ohio, USA); Advisor: Truc Nguyen.

Daniel Irowa OKUNBOR (Male)
1992 (Ph.D.) *Canonical Integration Methods for Hamiltonian systems*, University of Illinois (Champaign-Urbane IL, USA); Advisor: Robert D. Steel.

Abba B. GUMEL (b. 1966) (Male)
1993 (Ph.D.) *Parallel and sequential algorithms for second-order parabolic equations with applications*, Brunel University (UK).

Edima Okon OKU-UKPONG
1994 (Ph.D.) *Solutions of Non-Newtonian Flow Problems*, University of Windsor (Canada); Advisor: Om Chandna.

Nkechi Madonna Adeleine AGWU (b. 10.08.1962) (Female)
1995 (Ph.D.) *Using a Computer Laboratory Setting to Teach College Calculus*, Syracuse University (New York, USA); Advisor: Howard Johnson.

Oluwole Daniel MAKINDE (b. 12.12.1967) (Male)
1996 (Ph.D.) *Laminar Flow in Channels and Tubes of Varying Cross-Section*, University of Bristol (Bristol, United Kingdom); Advisor: P. G. Drazin.

Ninuola Ifeoluwa AKINWANDE (b. 22.01.1959) (Male)
1997 (Ph.D.) *A deterministic mathematical model of yellow fever disease dynamics*, University of Ibadan (Nigeria); Advisor: C. O. A. Sowunmi.

Godwin Christopher Ezike MBAH (b. 27.06.1962) (Male)
1998 (Ph.D.) *Mathematical Modelling on the Control of Glucose/Insulin Concentrations in the blood of an insulin-dependent diabetic subject*, University of Nigeria (Nsukka, Nigeria); Advisor: John Chukwuemeka Amazigo.

Ezekiel Olusola AYOOLA (b. 26.09.1958) (Male)
1999 (Ph.D.) *On numerical procedures for solving Lipschitzian quantum stochastic differential equations*, University of Ibadan (Nigeria); Advisor: G. O. S. Ekhaguere.

Michael A. ALAWODE (Male)
1999 *On the units of Burnside rings of some finite groups*, University of Ibadan (Nigeria); Advisor: A. O. Kuku.

Olusola Clement IDOWU (b. 23.04.1970) (Male)
2000 (Ph.D.) *Simulations of acoustic turbulence and dynamic action in irrotational flows*, University of Newcastle (UK); Advisor: David Samuel.

James Adedayo OGUNTUASE (Male)
2001 (Ph.D.) *On weighted norm inequalities for a certain class of integral operators*, Obafemi Awolowo University (Ile-Ife, Nigeria); Advisor: Christopher Olutunde Imoru.

Ayokunle Oladipo AWOSANYA

2001 (Ph.D.) *Using History in the Teaching of Mathematics*, Florida State University (USA); Advisor: Elizabeth Jakubowski.

John Olusola ADENIRAN (27.06.1969) (Male)

2002 (Ph.D.) *The study of certain classes of loops via their Bryant-Schneider groups*, University of Agriculture (Abeokuta, Nigeria); Advisor: Adewale Roland Tunde Solarin.

Folake Oyedigba AKINPELU (b. 14.09.1963) (Female)

2003 (Ph.D.) *In the response of Euler-Bernoulli beam with an attached mass to uniform partially distributed moving mass*, University of Ilorin (Kwara state, Nigeria); Advisor J. A. Gbadeyan.

Sammani Danwawu ABDULLAHI (b. 01.08.1969)

2003 (Ph.D.) *Vertex Enumeration and Counting for Certain Classes of Polyhedra*, University of Leeds (UK); Advisors: L. G. Proll & Martin Dyer.

Isaac Atanda ADETUNDE (b. 31.05.1965) (Male)

2003 (Ph.D.) *Dynamic Analysis of raleigh Beams carrying an added mass and traversed by uniform partially distributed moving loads*, University of Ilorin (Nigeria).

Franklin Olusodayo OGUNFIDITIMI (b. 10.08.1960) (Male)

2004 (Ph.D.) *New fixed point iteration methods for the solution of boundary value problems*, Federal University of Technology (Minna, Nigeria); Advisor: K. R. Adeboye.

Rwanda

Augustin BANYAGA (b. 31.03.1947) (Male)

1976 (Docteur es Sciences Mathématiques) *Sur la structure des groupes de difféomorphismes qui préservent une forme symplectique ou une forme de contact régulière* [On the structure of the groups of diffeomorphisms preserving a symplectic form or a regular contact form], Université de Genève (Geneva, Switzerland); Advisor: André Haefliger.

Alphonse IYAMUREMYE

1986 (Ph.D.) *Théorie des Fredholm et de Riesz dans les algèbres de Banach*, Université Laval (Sainte-Foy, Quebec, Canada); Advisor: B. Aupetit.

Désiré KARANGWA (b. 1952) (Male)

1988 (Doctorat) *Une étude analytique sur le comportement à longue terme du système Galléen de Jupiter* [An analytical study of the longterm

behaviour of the Galilean system of Jupiter], Université de Namur (Belgium).

Philippe RUKIMBIRA (b. 07.05.1960) (Male)

1991 (Ph.D.) *Some Properties of Almost Contact Flows*, Pennsylvania State University (University Park, Pennsylvania, USA), Advisor: Augustin Banyaga.

Jean-Baptiste GATSINZI (b. 24.05.1963) (Male)

1993 (Doctorat) *Sur l'espace classifiant les fibrations de fibre donnée* (Homotopy type of classifying spaces), Université Catholique de Louvain (Louvain-La-Neuve, Belgium); Advisor: Yves Felix.

Issa KAGABO (b. 1967) (Male)

1998 (Ph.D.) *Contribution à la résolution du problème de transport continu* [Contribution to the solution of the continuous transport problem], Université de Montréal (Canada); Advisor: Serge Dubuc.

René-Michel SHUMBUSHO (Male)

2004 (Ph.D.) *Elliptic Curves with Prime Conductor and a Conjecture of Cremona*, University of Georgia (Athens GA, USA); Advisor: Dino Lorenzini.

Senegal

Galaye DIA (Male)

1977 (Doctorat 3ème cycle) *Closed convex bounded valued integrals*, Université de Dakar (Senegal); Advisor: Doudou Sakhir Thiam.

1986 (Doctorat d'état) [Order Statistics on the point Process. Estimation of the regression], Université Pierre et Marie Curie (Paris, France); Advisor: Jean Geffroy.

Mary Teuw NIANE (b. 15.07.1954) (Male)

1984 (Doctorat 3ème cycle) *Approximation polyédrale d'une fonction convexe SCI et Application à l'optimisation vectorielle* [Polyhedral approximation of a convex function SCI and application to vector optimisation], Université Cheik Anta Diop (Dakar, Senegal); Advisor: Doudou Sakhir Thiam.

1990 (Doctorat unique) *Régularité et contrôlabilité exacte de l'équation des plaques vibrantes dans un domaine polygonal* [Regularity and exact controllability of the equation of vibrating sheets in a polygonal domain], Université de Nice-Sophia-Antipolis (Nice, France); Advisor: Pierre Grisvard.

1990 (Doctorat d'état) *Régularité, contrôlabilité exacte et contrôlabilité spectrale de l'équation des ondes et de l'équation des plaques vibrantes* [Regularity, exact controllability and spectral controllability of the wave

equation and the equation of vibrating sheets], Université Cheik Anta Diop (Dakar, Senegal); Advisor: Pierre Grisvard.

Gane Samb LO (Male)

- 1986 (Doctorat unique) *On some estimators of the index of the Paretolaw and limit theorems for extreme value sums*, Université Pierre et Marie Curie (Paris, France); Advisor: Paul Deheuvels.
- 1991 (Doctorat d'état) *Caractérisation empirique, des extrêmes et questions statistiques liées* [Empirical characterisation, extremes and related statistical questions], Université Cheik Anta Diop (Dakar, Senegal); Advisor: Paul Deheuvels.

Abdoulaye Elimane KANE (b. 1943) (Male)

- 1987 (Doctorat d'état) *Les systèmes de numération parlée des groupes ouest-atlantiques et Mandé. Contribution à la recherche sur les fondements et l'histoire de la pensée logique et mathématique en Afrique de l'Ouest* [The spoken numeration systems of the West-Atlantic groups and the Mande. Contribution to the research on the foundations and the history of logical and mathematical thought in West Africa], Université de Lille III (France).

Ousmane Wora DIALLO (Male)

- 1988 (Ph.D.) *Methods in Functional Analysis in the Theory of Barbashin Linear Integro-Differential Equations*, Minsk State University (Byelorussia); Advisor: Petr Zabreiko.

Aboubakary DIAKHABY (Male)

- 1992 (Doctorat 3ème cycle) *Estimation de la densité et de la régression dans les processus ponctuels chromatiques* [Estimation of the density and the regression in chromatic punctual processes], Université Cheik Anta Diop (Dakar, Senegal); Advisor: Galaye Dia.

Kalifa BODIAN (Male)

- 1994 (Doctorat 3ème cycle) *Observabilité spectrale approchée de l'équation des ondes* [Approached spectral observability of the wave equation], Université Gaston Berger (Saint-Louis, Senegal); Advisor: Mary Teuw Niane.

Aliou DIOP (Male)

- 1995 (Doctorat 3ème cycle) *Estimation de la queue d'une fonction de répartition, Approximation dans le domaine extrémal et Application au calcul de Probabilités extrémales* [Estimation of the tail of a repartition function, approximation in the extremal domain and application to the calculation of extremal probabilities], Université Gaston Berger (Saint-Louis, Senegal); Advisor: Gane Samb Lo.

2004 (Doctorat d'état) *Comportement extrémal de processus non linéaires* [Extremal behaviour of non-linear processes], Université Gaston Berger (Saint-Louis, Senegal); Advisors: Gane Samb Lo & Dominique Guégan.

Abdoulaye SOUNAYE (Male)

1995 (Doctorat 3ème cycle) *Logique et Espace: Logicisation de la Géométrie et Géométrisation de la Logique*, Université Cheikh Anta Diop (Dakar, Senegal).

Aissa WADE (b. 1967) (Female)

1996 (Doctorat unique) *Normalisation de structures de Poisson* [Normalisation of Poisson structures], Université de Montpellier 2 (France); Advisor: Jean-Paul Dufour.

Oumar Demba MBODJ (Male)

1997 (Doctorat unique) *Codes cycliques et Sommes de Gauss* [Cyclic codes and Gauss sums], Université de Toulon et du Var (Toulon, France); Advisor: Jacques Wolfmann.

Cheikh Ahmed Tidiane DIACK (Male)

1997 (Doctorat) *Tests de convexité pour une fonction de regression*, Université Paul Sabatier (Toulouse, France); Advisor: Christine Thomas-Agnan.

Koffi Enyonam ABALO (Male)

1998 (Doctorat) *Sur diverses généralisations des transporteurs asymptotiques; Dépendance intégrale des anneaux de Rees relatifs*, Université de Cocody (Abidjan, Côte d'Ivoire); Advisor: Donatien Niango.

Papa NGOM

1998 (Doctorat) *Mesures d'information généralisées et théorie de l'échantillonnage*; Université d'Aix-Marseille (France); Advisor: Pierre Hammad.

Abdou SÈNE (Male)

1999 (Doctorat unique) *Analyse Asymptotique des plaques piezo-électriques et contrôlabilité exacte* [Assymptotic analysis of piezo-electric sheets and exact controllability], Université Joseph Fourier (Grenoble, France); Advisors: Annie Raoult & Mary Teuw Niane.

Souleymane Bachir DIAGNE (Male)

2000 (Doctorat) *De l'Algèbre Numérique à l'Algèbre de la Logique*, Université de Paris I (France).

Ouateni DIALLO

2000 (Doctorat) *Modélisation et simulation numérique de résines réactives dans un milieu poreux*, Université Lyon 1 (France).

Salomon SAMBOU

2001 (Doctorat) *Equation de Cauchy-Riemann pour les courants prolongeables*, Université Joseph Fourier (Grenoble, France).

Mamadou SY (Male)

2003 (Doctorat 3ème cycle) *Paramétrisation en mécanique des fluides : analyses mathématiques de quelques modèles* [Parameterisation in fluid mechanics: mathematical analysis of some models], Université Gaston Berger (Saint-Louis, Senegal); Advisors: Didier Bresch & Mary Teuw Niane.

Mamadou Abdoul DIOP (Male)

2003 (Doctorat unique) *Équations aux dérivées partielles stochastiques et homogénéisation* [Equations with stochastic partial derivatives and homogenisation], Université de Provence (Aix-Marseille, France); Advisor: Etienne Pardoux.

Madiagne DIALLO

2003 (Doctorat unique) *Réseaux de flots: flots paramétrés et tarification*, Université de Versailles-Saint-Quentin-en-Yvelines (France); Advisor: Dominique Barth.

Ngalla DJITTÉ (Male)

2004 (Doctorat Unique) *Systèmes Différentiels extérieurs et Applications aux problèmes inverses* [Exterior differential systems and applications to inverse problems], Université Paris IX Dauphine (France); Advisors: Ivar Ekland & Mary Teuw Niane.

Sierra Leone

Lennox Samuel Onipede LIVERPOOL (b. 24.06.1946) (Male)

1971 (Ph.D.) *Analytic Functions and Iteration Theory*, Imperial College of Science and Technology, University of London (UK); Advisor: Irving Noel Baker.

Abimbola Sylvester YOUNG (b. 22.08.1947) (Male)

1974 (Ph.D.) *Prediction analysis with some types of regression functions*, University of London (UK); Advisor: Dennis V. Lindley.

Tanniemola Blackett LIVERPOOL (b. 20.04.1971)

1995 (Ph.D.) *A Stochastic Approach to Describing Geological Systems*, University of Cambridge (UK); Advisor: S. F. Edwards.

Cyril Efoe ATTIOGBE (Male)

2004 (Ph.D.) *On characterizing nilpotent Lie algebras by their multipliers*,
North Carolina State University (NC, USA); Advisor: Ernest Stitzinger.

South Africa

Hanno RUND

1950 (Ph.D.) *Finsler Spaces Considered as Generalized Minkowskian Spaces*,
University of Cape Town (South Africa); Advisor: Christian Pauc.

Hendrik Jacobus Schutte (Male)

1952 (Ph.D.) *Oor algebraïse uitbreidinge van primêre ringe* [About algebraic
extensions of prime rings], Rijksuniversiteit Leiden (Netherlands);
Advisor: Hendrik Kloosterman.

James Ray VANSTONE (Male)

1959 (Ph.D.) *Generalized Metric Differential Geometry*, University of Natal
(Durban, South Africa); Advisor: Hanno Rund.

Ismael Jacob MOHAMED (b. 1930) (Male)

1960 (Ph.D.) *On Series of Subgroups Related to Groups of Automorphisms*,
University of London (UK); Advisor: Kurt Hirsch.

Andries P. J. VAN DER WALT (Male)

1963 (Ph.D.) *'n Bydrae tot die nie-kommutatiewe ideaalteorie* [Contribution to
a non-commutative theory of ideals], Potchefstroomse Universiteit
(South Africa); Advisor: Hendrik Schutte.

Wessel J. KOTZÉ (Male)

1964 (Ph.D.) *Iterative Solution of Equations in Linear Topological Spaces*,
McGill University (Canada); Advisor: Hans Schwerdtfeger.

Hermanus H. LEMMER (Male)

1964 (D.Sc.) *Verdelingsvrye toetsingsmetodes vir die probleem van twee of
meer stekproewe*, University of Pretoria (South Africa); Advisor: D.
Stoker

John KNOPFMACHER (1937-1999) (Male)

1965 (Ph.D.) *Extensions in Varieties of Groups and Algebras*, University of
Manchester (UK); Advisor: J. F. Adams.

John WAINWRIGHT (Male)

1965 (Ph.D.) *Invariance Properties of Variational Problems Involving Spinors*,
University of South Africa (Pretoria, South Africa); Advisor: Hanno
Rund.

Johannes Christiaan DU PLESSIS (Male)

1965 (Ph.D.) *Invariance Properties of Variational Principles in General Relativity* University of South Africa (Pretoria, South Africa); Advisor: Hanno Rund.

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1989 (Doctorat) *Problèmes aux limites pour des E.D.P. hyperboliques non linéaires*, Université des Sciences et de la Technologie Houari Boumedienne (Tunis, Tunisia).

Boubakeur MEROUANI

1990 (Doctorat) *Comportements singuliers des solutions du système de l'élasticité dans un polygone*, Université des Sciences et de la Technologie Houari Boumedienne (Tunis, Tunisia).

Noureddine SASSI (b. 1944) (Male)

1993 (Doctorat d'état) *Représentation de l'autre et de soi par rapport à la langue maternelle et aux mathématiques dans le premier cycle de l'enseignement secondaire tunisien* [Representation of the other and of the self in relationship to the mother tongue and mathematics in the first level of the Tunisian secondary school], Université de Nantes (France).

Hanène HATTAB ABROUGUI (b. 1969) (Female)

1998 (Doctorat 3ème cycle) *La démonstration en géométrie dans l'enseignement secondaire tunisien : exigences d'enseignants et difficultés d'élèves de 4ème relativement à un problème de démonstration* [Proof in geometry in the Tunisian secondary school: teachers' demands and 4th grade pupils difficulties concerning a type of proof], Université de Grenoble 1 (France); Advisor: Colette Laborde.

Mohameden Ould AHMEDOU (Male)

1998 (Ph.D.) *Contribution topologique des "points critique à l'infini" dans un probleme variationnel noncompact*, Université de Tunis (Tunisia); Advisor: Abbas Bahri.

Mohamed Ben AYED (Male)

1998 (Ph.D.) *Prescribed Scalar Curvature Problem and Related Topics*, Université de Tunis (Tunisia); Advisor: Abbas Bahri.

Khalil El MEHDI (Male)

1998 (Ph.D.) *Sur un probleme variationnel non compact*, Université de Tunis (Tunisia); Advisor: Abbas Bahri.

Hammami MOKHLES

1998 (Ph.D.) *Morse Lemma at Infinity and Related Topics*, Université de Tunis (Tunisia); Advisor: Abbas Bahri.

Mohamed Ekbal BOUZGARROU (Male)

1998 (Doctorat) *Parallélisation de la méthode du “Branch and Cut” pour résoudre le problème du voyageur de commerce*, Institut National Polytechnique de Grenoble (France); Advisor: Denis Naddef.

Mondher TANGOUR (b. 1956) (Male)

1999 (Doctorat 3ème cycle) *Analyse des acquisitions des élèves en mathématiques et en sciences en première année de collège tunisien* [Analysis of the acquisitions in mathematics and science by the pupils of the first year of the Tunisian high school], Université de Bourgogne (France); Advisor: Jean-Pierre Jarousse.

Ridha SFAXI (b. 17.03.1967) (Male)

2001 (Doctorat 3ème cycle) *Les suites de polynômes diagonales par rapport à $x-c$* [Diagonal polynomial sequences with respect to x-c], Faculté des sciences de Sfax (Tunisia), Advisors: Pascal Maroni & Jilani Alaya.

Mohamed Habib MARSIT (Male)

2001 (Doctorat d'état) *Approche psychocognitive diagnostique des difficultés d'apprentissage des mathématiques* [Diagnostic psycho-cognitive approach to learning difficulties in mathematics], Université de Tunis (Tunisia); Advisor: Noureddine Sassi.

Essahbi EL AMRI (Male)

2001 (Doctorat 3ème cycle) *Implicit et évidence dans l'enseignement et l'apprentissage de la démonstration en géométrie euclidienne plane au collège* [Implicit and evidence in the teaching and learning of the proof in Euclidian plane geometry in high school], Université Claude Bernard (Lyon, France); Advisor: Claude Tisseron.

Marouane BEN MILED (b. 1965) (Male)

2003 (Doctorat) *Les commentaires arabes au Livre X des Eléments d'Euclide, jusqu'au XII^e siècle* [Arabic commentaries on Book X of Euclid's Elements, up to the XIIth century], Université Denis Diderot (Paris, France); Advisor: Roshdi Rashed.

Faïza CHELLOUGUI (b. 1965) (Female)

2004 (Doctorat) *L'utilisation des quantificateurs universel et existentiel en première année universitaire, entre l'explicite et l'implicite* [Using universal and existential quantifications in first year university, switching between explicit and implicit usages], co-tutelle: Université de Tunis

(Tunis, Tunisia) & Université Claude Bernard (Lyon, France); Advisors: Mahdi Abdeljaouad & Claude Tisseron.

Uganda

Ben KIREGYERA (Male)

1984 (Ph.D.) *On use of auxiliary information in sampling for some skewes and non-skewed populations*, University of Essex (UK).

Christopher MAWATA (Male)

1987 (Ph.D.) *Schauder Estimates and Existence Theory for Entire Solutions of Linear Parabolic Equations*, University of Hawaii (Honolulu, Hawaii); Advisor: Gerald Hile.

Margaret NABASIRYE (Female)

1995 (Ph.D.) *Statistical inferences on insect pest resistance indices: implications for selection in crop plants*, Makerere University (Kampala, Uganda).

Joseph Y. T. MUGISHA (Male)

1999 (Ph.D.) *Mathematical models for the study of the spread of HIV/AIDS pandemic in (age-) structured populations*, Makerere University (Kampala, Uganda).

Venasius BARYAMUREEBA (b. 18.05.1969) (Male)

2000 (Ph.D.) *On solving large sparse linear systems arising from linear programming and linear regression*, Universitetet i Bergen (Norway); Advisor: Trond Steihaug.

Vincent Aloysius SSEMBATYA (b. 27.05.1968) (Male)

2001 (Ph.D.) *Homeomorphisms of Knaster Continua*, University of Florida (Gainesville, Florida, USA); Advisor: James Keesling.

John Magero MANGO (Male)

2001 (Ph.D.) *Boundary element methods in acoustics*, Makerere University (Kampala, Uganda).

Besigye Bafaki GAD (01.04.1958) (Male)

2002 (Ph.D.) *Mathematical Models for the Study of Schistosomiasis Dynamics in a Ugandan Community*, Makerere University (Kampala, Uganda); Advisor: Livingstone Luboobi.

Saul Hannington NSUBUGA (Male)

2003 (Ph.D.) *The Geometry of Immobilizing Sets of Objects* University of Edinburgh (UK); Advisor: Elmer Rees.

Rebecca Namugabwe NSUBUGA (Female)
2004 (Ph.D.) *Statistical inference for infectious disease of animals*, University of Edinburgh (UK).

Immaculate Kizito NAMUKASA (b. 07.07.1972) (Female)
2004 (Ph.D.) *Attending in Mathematics: A Dynamic View about Students' Thinking*, University of Alberta (Edmonton, Alberta, Canada); Advisor: Elaine Simmt.

Charles OPOLOT-OKURUT (b. 15.02.1954) (Male)
2004 (Ph.D.) *Attitudes towards Mathematics, achievement in Mathematics Aptitude Problems and Concomitant Teacher practices in Ugandan Secondary Schools*, University of the Western Cape (Bellville, South Africa); Advisor: Cyril Julie.

Gerald G. WANJALA (b. 05.03.1966) (Male)
2005 (Ph.D.) *The Schur transform of a generalized Schur function and operator realizations*, Rijks Universiteit Groningen (Netherlands); Advisor: Aad Dijksma.

Zambia

Patrick Azele PHIRI (b. 25.11.1951) (Male)
1979 (Ph.D.) *Equilibrium points and control problems in dynamic urban modelling*, University of Leeds (UK); Advisors: F. A. Goldworthy, A. G. Wilson & J. Rubio.

Matthew KAMBULE (Male)
1986 (Ph.D.) *The Hotta Complex*, University of Massachusetts (Amherst MA, USA); Advisor: Hans Fischer.

Chiteng'a John CHIKUNJI (b. 14.1.1962) (Male)
1996 (Ph.D.) *On the classification of finite rings*, University of Reading (UK); Advisor: Basil Corbas.

Amos BANDA (Male)
1998 (Ph.D.) *A Nonresponse Problem with Some Follow-up Data Using Subsampling and Double Sampling Approaches*, University of Iowa (USA); Advisor: Leon Burmeister.

Zimbabwe

Heneri Amos Murima DZINOTYIWEYI (b. 15.03.1950) (Male)
1978 (Ph.D.) *Equi-regular Measures and Measures continuous under Translation on Topological Semigroups*, University of Aberdeen (UK); Advisor: Alan T. Paterson.

Josephat Martin HARVEY (Male)
1979 (Ph.D.) *Factorisations, auto-triviality, Pseudo-topological functors and Topology*, University of Zimbabwe (Harare, Zimbabwe).

Matoteng M. NCUBE (b. 04.02.1953) (Male)
1984 (Ph.D.) *Some Statistical Quality Control Techniques*, University of Louisiana (Lafayette, USA); Advisor: Bill Woodall.

David Kufakwami Jani MTETWA (b. 1953) (Male)
1991 (Ph.D.) *An investigation of Zimbabwean secondary school students' mathematical beliefs and classroom contexts*, University of Virginia, (Charlottesville, Virginia, USA); Advisor: Joseph Garofalo.

Temba SHONHIWA (b. 25.5.1958) (Male)
1996 (Ph.D.) *Investigations of Number Theoretic Functions*, West Virginia University (Morgantown, Virginia, USA); Advisor: Henry W. Gould.

Anotida MADZVAMUSE (Male)
2000 (D.Phil.) *A Numerical Approach to the Study of Spatial Pattern Formation*, University of Oxford (UK); Advisor: Philip Maini.

3. Examples of African Mathematical Pioneers in the 20th Century

(updated version of Appendix 7 of: Gerdes, Paulus & Djebbar, Ahmed: *Mathematics in African History and Culture: An Annotated Bibliography*, African Mathematician Union, Cape Town, 2004, pp. 225-226)

Mohamed Akkar (Morocco)
Daniel Afedzi Akyeampong (Ph.D. 1966) (Ghana)
Morris Sika Alale (d. 1995) (Kenya)
Francis Kofi Ampenyia Allotey (b. 1931) (Ph.D. 1966) (Ghana) *
Mohamed Amara (Tunisia)
Attia Abdel Salam Ashour (b. 1924) (Egypt)
Augustin Banyaga (b. 1947) (Ph.D. 1976) (Rwanda) *
Benali Benzaghou (Ph.D. 1969) (Algeria) *
Mohammed Tidjani Boudjelkah (Ph.D. 1970) (Algeria)
Chan Feng Chan Man Fong (b. 1938) (Ph.D. 1965) (Mauritius)
Mohamed Djedhour (Ph.D. 1970) (Algeria)
Heneri Amos Murima Dzinotyiweyi (b. 1950) (Ph.D. 1979) (Zimbabwe)
Mohamed El Amin El Tom (b. 1941) (Ph.D. 1969) (Sudan) *
Philip Emeagwali (b. 1954) (Nigeria)
George Eshiwani (Ph.D. 1974) (Kenya)

James Okoye Chukuka **Ezeilo** (Ph.D. 1959) (Nigeria)
Jean-Pierre **Ezin** (b. 1944) (Ph.D. 1981) (Benin) *
Caleb **Gattegno** (1911-1988) (Ph.D. 1937) (Egypt)
Khélifa **Harzallah** (Tunisia)
Mohamed H. A. **Hassan** (Sudan)
Henri **Hogbe-Nlend** (Cameroon)
Ahmed **Jebli** (Morocco)
Overtoun **Jenda** (b. 1954) (Ph.D. 1981) (Malawi) *
Désiré **Karangwa** (b. 1952) (Ph.D. 1988) (Rwanda)
Idriss **Khalil** (Morocco) *
Akry **Koulibaly** (Burkina Faso)
Aderemi Oluyomi **Kuku** (b. 1941) (Ph.D. 1971) (Nigeria)
Lennox Samuel Onipede **Liverpool** (b. 1946) (Ph.D. 1971) (Sierra Leone)
Edward **Lungu** (b. 1950) (Ph.D. 1980) (Zambia)
Verdiana G. **Masanja** (Tanzania) ***
Ralph W. P. **Masenge** (Ph.D. 1988) (Tanzania)
Leila **Moalla** (Tunisia) ***
Ismael Jacob **Mohamed** (b. 1930) (Ph.D. 1960) (South Africa) **
Geoffrey Raphael Vehaeli **Mmari** (Tanzania) *
Moshe **Molelekoa** (b. 1942) (Ph.D. 1982) (Lesotho) *
Ali Mostafa **Mosharafa** (1898-1950) (Ph.D. 1923, D.Sc. 1924) (Egypt) *
Paul **Mugambi** (Uganda) *
Benjamin **Mweene** (Ph.D. 1970) (Zambia) *
John Nguthu **Mutio** (Kenya)
Gaston Mandata N'guerekata (b. 1953) (Ph.D. 1980) (Central African Republic) *
Souleymane **Niang** (b. 1929) (Senegal)
Georges Edward **Njock** (b. 1940) (Ph.D. 1970) (Cameroon)
Loyiso **Nongxa** (b. 1954) (Ph.D. 1982) (South Africa)
Joachim **Nzotungicimpaye** (Ph.D. 1986) (Burundi)
Chike Edozien Umuezi **Obi** (b. 1921) (Ph.D. 1950) (Nigeria)
Wandera **Ogana** (b. 1946) (Ph.D. 1975) (Kenya)
Adegoke **Olubummo** (1923-1992) (Ph.D. 1955) (Nigeria)
Albert Ouedraogo (b. 1935) (Ph.D. 1969) (Burkina Faso) *
Jan **Persens** (b. 1946) (Ph.D. 1986) (South Africa)
Patrick **Phiri** (b. 1951) (Ph.D. 1979) (Zambia)
Batmanathan Dayanand **Reddy** (b. 1953) (Ph.D. 1977) (South Africa)
George **Saitoti** (b. 1944) (Ph.D. 1971) (Kenya) *
Daouda **Sangaré** (b. 1943) (Ph.D. 1977) (Mali) *
Hamet **Seydi** (Senegal)
Juma **Shabani** (Ph.D. 1986) (Burundi) *
Saliou **Touré** (Côte d'Ivoire) *
Grace Alele **Williams** (Nigeria) ***
Mohamed **Zitouni** (Ph.D. 1973) (Algeria)

* First Ph.D. in mathematical sciences of the respective country

** First black South African to have obtained a Ph.D. in mathematics.

*** First female Ph.D. in mathematical sciences of the respective country

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for the **English** version;

or to the Secretary

Ahmed Djebbar: Département de mathématiques, Bt. M 2, Université de
Lille 1, 59655 Villeneuve D'Ascq Cedex, France
(Fax: 33-1-45 33 77 12; E-mail: ahmed.djebbar@math.univ-lille1.fr,
Ahmed.Djebbar@wanadoo.fr)

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