CURRICULUM VITAE

Zouhair Mouayn

Table of Contents

1. Personal Data p.2
2. Academic Degrees p.2
3. Academic Position p.2
4. Research Interests & MSC numbers p.3
5. List of Publications ..... pp. 3-5
6. Talks ..... pp. 5-6
7. Visiting Positions p.7
8. Grants p.7
9. Membership in Professional Societies p.8
10. Managerial Activities p.8
11. Academic Responsibilities p.8
12. Commission of Trust p.9
13. Professional Service p.9
14. Experience in University Teaching ..... pp. 10-12
15. Outreach Activities p.13
16. References p.14

1. Personal data

First name:	Zouhair
Family name:	Mouayn
Nationality:	Moroccan
Date of Birth:	22/11/1966
Mobile phone:	00212(0)663564850
Postal address:	BP.123, Béni Mellal 23000, Morocco
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2. Academic degrees

- 1991 : Licence es-Sciences Mathématiques, Mohammed V-Agdal University, Rabat, Morocco.
- 1992 : Diplôme des Etudes approfondies en Mathématiques, spécialité *Analyse harmonique* (D.E.A), Ibn Tofail University, Morocco.
- 1995 : Diplôme d'Etudes Supérieures es-Sciences Mathématiques (D.E.S, Thèse de 3° Cycle), Ibn Tofail University, Morocco. Title thesis: *Poisson integral representation of eigenfunctions of the family* $\square_{nu1,nu2}$ *of Maass-Casimir Operators in the hyperbolic disk*.
- 2004 : Doctorat D'Etat es-Sciences Mathématiques, Mohammed V-Agdal University, Rabat, Morocco. Title thesis: *Coherent states attached to the Landau problem on two-dimensional surfaces and spectral theory of Fock-Darwin Hamiltonians in the Euclidean complex n-Space.*

Mathematical Genealogy: http://www.genealogy.ams.org/id.php?id=89420

3. Academic position

- 1995-2001: Assistant Master *with one year civil service* (MA).
- 2001-2004: Assistant Professor of Higher Education (PA).
- 2004-2008: Professor with Habilitation (PH)
- 2008- Present: Professor of Higher Education (PES): Full Professor.

Curent status: Professor of Mathematics at the Department of Mathematics, Faculty of Sciences and Technics (M'Ghila), University Sultan Moulay Slimane, PO. Box. 523, Béni Mellal 23000, Morocco.
E-mail: mouayn@fstbm.ac.ma

Legend (French Abbreviation):

MA : Maitre Assistant.
PA : Professeur de L'Enseignement Supérieur Assistant.
PH : Professeur Habilité.
PES : Professeur de L'Enseignement Supérieur.

4. Research interests & MSC numbers

4.1. Current fields of interest

1. Harmonic Analysis & Partial Differential Equations.
2. Spectral Theory, Group Representations and Function Spaces.
3. Orthogonal Polynomials & Special functions.
4. Mathematical Physics.

4.2. 2010 MSC numbers

Quantum Theory (81-XX); Special functions (33-XX); Partial differential equations (35-XX); Functions of several complex variables and analytic spaces (32-XX); Integral transforms, operational calculus (44-XX); Operator theory (47-XX); Functions of a complex variable (30-XX); Functional analysis (46-XX); Global analysis, analysis on manifolds (58-XX); Potential theory (31-XX); Ordinary differential equations (34-XX); Fourier analysis (42-XX); Abstract harmonic analysis (43-XX); Differential geometry (53-XX).

5. List of publications

5.1. In the years (2010-2015)

1. Demni N and **Mouayn Z** : Analysis of generalized probability distributions associated with higher Landau Levels, *Infin. Dimens. Anal. Quantum. Probab. Relat. Top*. **18** (4) DOI: 10.1142/S0219025715500289 (2015)
2. Abreu L D, Balazs P, De Gosson M and **Mouayn Z** : Discrete coherent states for higher Landau levels, *Annals of Physics* **363,** 337-353 DOI:10.1016/j.aop.2015.09.009 (2015)
3. **Mouayn Z**: Polyanalytic relativistic second Bargmann transforms *J. Math. Phys.* **56** 053501 DOI/10.1063/1.4919544 (2015)
4. Kayupe Kikodio P and **Mouayn Z** : New coherent states with Laguerre polynomials coefficients for the symmetric Poschl-Teller oscillator *J. Phys. A: Math. Theor.* **48** DOI 10.1088/1751-8113/48/21/215204 (2015)
5. **Mouayn Z**: Discrete Bargmann transforms attached to Landau levels on the Riemann sphere *Ann. Henri Poincaré* **16** (2) 641-650 (2015)
6. **Mouayn Z** : Husimi's Q-function for the isotonic oscillator in a generalized negative binomial states representation *Math. Phys. Anal. Geom.* DOI 10.1007/s11040-014-9156-3 (2014)
7. Yamani H and **Mouayn Z** : Supersymmetry of tridiagonal Hamiltonians *J. Phys. A: Math.Theor.* **47** 265203 DOI 10.1088/1751-8113/47/26/265203 (2014)
8. Ghanmi A & **Mouayn Z** : A formula representing magnetic Berezin transforms on the unit ball of $\mathbb{C}^n$ as functions of the Laplace-Beltrami operator *Houston J. Math.* **40** (1) (2014)
9. **Mouayn Z** : Une famille de transformation de Bargmann circulaires *C. R. Acad. Sci. Paris*, Série I. 350, 1017-1022 (2012)
10. **Mouayn Z** : Resolution of the identity of the classical Hardy space by means of Barut-Girardello coherent states *ISRN Math. Phys.* Article ID 530473 (2012)
11. **Mouayn Z** : Coherent states quantization for generalized Bargmann spaces with formulae for their attached Berezin transforms in terms of the Laplacian on C^n *J. Fourier Anal. App.* **18** 609–625 (2012)
12. El Wassouli F, Ghanmi A, Intissar A and **Mouayn Z** : Generalized second Bargmann transforms associated with the hyperbolic Landau levels in the Poincaré disk *Ann. Henri Poincaré* 13 (2012)
13. **Mouayn Z** : Phase coherent states with circular Jacobi polynomials for the pseudoharmonic oscillator *J. Math. Phys.* 53 (2012)
14. Askour N, Intissar A and **Mouayn Z :** A formula representing magnetic Berezin transforms as functions of the Laplacian on C^n, *Integral Transforms and Special Functions,* 22 (11) 841-849 (2011)
15. Ghanmi A, Hafoud A and **Mouayn Z :** Generalized binomial probability distribution attached to Landau levels on the Riemann sphere, *Advances in Mathematical Physics*, Article ID 393417, 17 (2011)

16. **Mouayn Z** : Coherent state transforms attached to generalized Bargmann spaces on the complex plane, *Mathematische Nachrichten* 284, Issue 14-15, 1948–1954 (2011)
17. **Mouayn Z** : A new class of coherent states with Meixner–Pollaczek polynomials for the Gol'dman–Krivchenkov Hamiltonian, *Journal of Physics. A: Mathematical & Theoretical* 43 (29) 295201 (2010)
18. **Mouayn Z** and Touhami A.**:** Probability distributions attached to generalized Bargmann-Fock spaces in the complex plane, *Infinite Dimensional Analysis, Quantum Probability and Related Topics* 13 (2) 257–271 (2010)
19. **Mouayn Z** : A Generating function for Hermite polynomials associated with Euclidean Landau levels, *Theoretical and Mathematical Physics* 165 (2) pp. 1435–1442 (2010)

5.2. Previous publications

20. **Mouayn Z** : Coherent states attached to the spectrum of the Bochner Laplacian for the Hopf fibration, *Journal of Geometry and Physics* 59, Issue 2, pp. 256-261 (2009)
21. Ghanmi A and **Mouayn Z** : A deformed Bargmann transform by an SU(2) matrix parameter, *Rendiconti dell'Istituto di Matematica dell'Università di Trieste* 41 pp. 77–84 (2009)
22. **Mouayn Z** : An integral transform connecting spaces of hyperbolic Landau states with a class of weighted Bergman spaces, *Complex Variables and Elliptic Equations* 53, pp. 1083 - 1092 (2008)
23. **Mouayn Z** : Decomposition of magnetic Berezin transforms on the Euclidean complex space Cn, *Integral Transforms and Special Functions* 19 Issue 12, pp. 903 - 912 (2008)
24. **Mouayn Z** : Flensted-Jensen's functions attached to the Landau problem on the hyperbolic disc, *Applications of Mathematics* 52 (2) pp. 97-104 (2007)
25. **Mouayn Z** : Coherent states attached to Landau levels on the Poincaré disc, *Journal of Physics A: Mathematical and General* 38 pp. 9309-9316 (2005)
26. **Mouayn Z** : Poisson integral representation of some eigenfunctions of Landau Hamiltonian on the hyperbolic disc, *Bulletin of the Belgian Mathematical Society -Simon Stevin* 12, pp. 249-257 (2005)
27. **Mouayn Z** : Coherent states attached to Landau levels on the Riemann sphere, *Reports on Mathematical Physics* 55 (2) pp. 269-276 (2005)
28. **Mouayn Z** : Characterization of two-dimensional Euclidean Landau states by coherent state transforms.: *Journal of Physics A: Mathematical and General* 37 pp.4813-4819 (2004)
29. **Mouayn Z** : Characterization of hyperbolic Landau states by coherent state transforms, *Journal of Physics A: Mathematical and General* 36 pp. 8071-8076 (2003)
30. Askour N and **Mouayn Z** : Explicit solution to the spectral problem of an even-dimensional magnetic field with oscillator potential, *Physica Scripta* 68, p. 32 (2003)
31. Askour N and **Mouayn Z** : Resolution of unity of generalized Bargmann spaces by means of displaced Fock states, *Chinese Physics. Letters* 19 p.1576 (2002)
32. Askour N and **Mouayn Z** : Resolvent kernel for the Khon Laplacian on Heisenberg group, *Electronic Journal of differential Equations* (2002)
33. Askour N and **Mouayn Z** : Spectral decomposition and resolvent kernel for magnetic Laplacian in Cn, *Journal of Mathematical Physics* 41 (10) 6937-6943 (2000)
34. Askour N, Intissar A and **Mouayn Z** : Explicit formulae for reproducing kernels of generalized Bargmann spaces, *Journal of Mathematical Physics* 41 (5) 3057-3067 (2000)
35. Askour N, Intissar A and **Mouayn Z** : Espaces de Bargmann généralisés et formules explicites pour leurs noyaux reproduisants, *C. R. Acad. Sci. Paris* t. 325, Série I, 707-712 (1997)

5.3. Under review

1. Boussejra A and **Mouayn Z** : Coherent states quantization of generalized Bergman spaces on the unit ball B^n with a new formula for their associated Berezin transforms. arXiv:1204.0934
2. Yamani H and **Mouayn Z** : Supersymmetry of the Morse oscillator arXiv:1508.00134
3. Ahbli K, Kayupe Kikodio P and **Mouayn Z** : Orthogonal polynomials attached to coherent sates for the symmetric Poschl-Teller oscillator arXiv:1601.00322
4. Chhaiba H, Demni N and **Mouayn Z** : Analysis of generalized negative binomial distributions attached to hyperbolic Landau levels arXiv:1602.01371

5.4. Working papers

1. Ghanmi A and **Mouayn Z** : An integral representation for Folland's fundamental solution of the sub-Laplacian on Heisenberg groups IH^n arXiv:1103.0705

2. Ghanmi A and **Mouayn Z** : Barut-Girardello coherent states for hyperbolic Landau levels on the disk.
3. **Mouayn Z.**: An index ${}_2F_2$ hypergeometric transform arXiv:1105.2164
4. Boussejra A, M. Elomari, Ghanmi A, Intissar A and **Mouayn Z** : Singular values of a weighted Cauchy transform on generalized Bergman spaces on the unit disk
5. Ali S. T, Ismail M. E. H and **Mouayn Z** : Complex orthogonal polynomials and nonlinear coherent states.
6. Boussejra A, **Mouayn Z** and Ould Moustapha M V.: Scattering Matrices for Maass Laplacians in IB_n.
7. Abreu L D and **Mouayn Z** : New coherent states with polyanalytic coefficients functions.
8. **Mouayn Z,** Kassogue H, Kayupe Kikodio P and Fatani I : Wehrl entropies attached to Euclidean Landau levels.

6. Talks

6.1. Selected international invited talks

- Polish Academy of Sciences, Wroclaw University of Technology (17-19 October 2007) Wroclaw, POLAND.
- Invited Mediterranean speaker, French-Egyptian Congress of Mathematics (3-5 May 2010) Cairo, EGYPT.
- Invited plenary speaker, 13th Workshop on Applications and Generalizations of Complex Analysis University of Aveiro (25-26 March 2011) Aveiro, PORTUGAL.
- Mittag-Leffler Institute, The Bellman function technique in Harmonic Analysis Summer School (08-12 July 2013) Stockholm, SWEDEN.
- NuHAG Institute, University of Vienna (6 November 2013) Vienna, AUSTRIA.
- Institute for Mathematics, Astrophysics & Particle Physics, Radboud University (16 January 2014) Nijmegen NETHERLANDS.
- Invited speaker, Mathematical Physics Seminar CRM, University of Montreal (23 September 2014) Montreal, CANADA.
- Invited plenary speaker, 14th Regional Conference on Mathematical Physics (9-14 November 2015) Islamabad, PAKISTAN.
- Invited plenary speaker, 21th Colloquium of the Tunisian Mathematical Society (21-24 March 2016), Hammamet, TUNISIA.

6.2. Participation/Talks at international conferences and academic institutions abroad

- 2006 : Participation at *International Congress of Mathematicians* 22-30 August, Madrid, SPAIN.
- 2006 : *Talk* at *International conference on Harmonic analysis and Applications* 06-11 November, Sousse, TUNISIA**.**
- 2007 : *Talk* at *15th Colloquium of the Tunisian Mathematical Society* 19-22 March, Sousse, TUNISIA.
- 2007 : *Talk* at *Control, Constraints and Quanta* ESF Mathematics Conference 10-16 October, MSHE & Institute of Mathematics, Bedlewo, POLAND.
- 2007 : *Talk* during a Scientific Visit to Mathematics Department, 17-19 October, Wroclaw University of Technology, Wroclaw, POLAND.
- 2008 : Participation at *Geometry and Integrability in Mathematical Physics* 15-19 September GIMP'08 Meeting at CIRM, Luminy, Marseille, FRANCE.
- 2009 : *Talk* at *Analytical and Probabilistic Aspect of Dunkl Theory* CIMPA School 13-25 April, Monastir, TUNISIA.
- 2010 : *Lecture* at the *French-Egyptian Congress of Mathematics* 3-5 May, Cairo, EGYPT.
- 2011 : *Talk* at *13th Workshop on Applications and Generalizations of Complex Analysis* 25-26 March, University of Aveiro, PORTUGAL.
- 2011 : Participation at *16th European Intensive Course on Complex Analysis and its Generalizations* March 21-April 1 Univ. Coimbra & Aveiro, PORTUGAL.
- 2011 : *Talk* at *Analysis Seminary*, Center of Mathematics (CMUC), University of Coimbra, 01 April, Coimbra, PORTUGAL.
- 2012 : *Talk* at the conference *Harmonic Analysis, Convolution Algebras, and Special Functions* 10-14 September, Technische Universität München, Munich, GERMANY.
- 2013 : *Talk* at *Special functions & Orthogonal Polynomials Conference* 20-21 February, King Saud University, Riyadh, SAUDI ARABIA.

- 2013 : *Talk* at *Analysis Seminary* during a Scientific Visit to Center of Mathematics University of Coimbra (CMUC), March 30-April 10, Coimbra, PORTUGAL.
- 2013 : *Talk* during a Scientific Visit to Mathematics Department 14-23 June, Faculty of Sciences & Technics, Nouakchott, MAURITANIA.
- 2013 : *Talk* at *The Bellman function technique in Harmonic Analysis* Summer School 08-12 July, Mittag-Leffler Institute, Stockholm, SWEDEN.
- 2013 : *Talk* at *NuHAG Seminary* 06 November, Numerical Harmonic Analysis Group, University of Vienna, AUSTRIA.
- 2013 : *Talk* at *Seminary on Complex & Hypercomplex Analysis* 16 December, Department of Mathematics, University of Aveiro, PORTUGAL.
- 2014 : *Lecture* at *Mathematical Physics Seminar* 16 January, Institute for Mathematics, Astrophysics & Particle Physics (IMAPP), Radboud University Nijmegen, NETHERLANS.
- 2014 : *Talk* at *Analysis Seminary*, Center of Mathematics (CMUC), University of Coimbra, 05 April, Coimbra, PORTUGAL.
- 2014 : *Talk* at the 30th International Colloquium on Group Theoretical Methods in Physics (Group30) 14-18 July, Ghent University, BELGIUM.
- 2014 : *Talk* at *International Congress of Mathematicians* ICM2014, 13-21 August, Seoul, KOREA.
- 2014 : *Talk* at *Mathematical Physics Seminar,* 23 September, CRM, University of Montreal, Montreal, CANADA.
- 2015 : *Talk (plenary)* at 14 th Regional Conference on Mathematical Physics, 9-14 November, Islamabad, PAKISTAN.
- 2016 : *Talk (plenary)* at 21th Colloquium of the Tunisian Mathematical Society, 21-24 March, Hammamet, TUNISIA.
- 2016: *Talk (plenary)* at International Conference "Past and Futur Directions in Hypercomplex and Harmonic Analysis, March 29-April 2, University of Aveiro, Aveiro, PORTUGAL.
- 2016 : Participation at the *21st European Intensive Course on Complex Analysis, its Generalizations and Applications*, 04-08 April, Department of Mathematics, University of Aveiro, Aveiro, PORTUGAL.
- 2016 : *Talk* at *Seminary on Complex & Hypercomplex Analysis*, April 08, Department of Mathematics, University of Aveiro, Aveiro, PORTUGAL.

6.3. Participation/Talks at national conferences

- 1996-1997: *Talks* at the *Seminary of the Department of Mathematics*, Faculty of Sciences, Rabat.
- 2001: Participation at the *National Meeting on Mathematical Physics* 11-12 April, Faculty of Sciences Ben M'sik, Casablanca.
- 2003: *Talk* at *3rd National Meeting on Differential Geometry & Applications,* 26 June, Faculty of Sciences Ben M'sik, Casablanca.
- 2003 : Participation at *Journées d'Analyse & Geometry*, 26-27 June, Faculty of Sciences Ain Chock, Casablanca.
- 2004: *Talk* at *Journées de Mathématiques à la mémoire du Prof. O. Arino* 9-10 January, Faculty of Sciences Semlalia, Marrakech.
- 2004: *Talk* at *National Meeting on Mathematics-Physics* 14-15 May, Faculty of Sciences, Meknes.
- 2004: *Talk* at *1rd Meeting on Theoretical Physics* 27-30 May (RENAPT), Faculty of Sciences & Technics, Tanger.
- 2005: *Talk* at *Journées de Mathématiques* 9 July (Kénitra-Rabat team), Faculty of Sciences, Rabat.
- 2006: *Talk* at *Colloque International en Mathématique-Physique* 1-3 June, Errachidia.
- 2006: *Talk* at *Meeting "Coherent States on Generalized Heisenberg Algebras: Algebraic & Geometrical Aspects"* 12-13 June, Faculty of Sciences, Rabat.
- 2006: *Talk* at *Rencontre Mathématique* 20 July, organized by MAHASG, Fac. Sciences, Rabat.
- 2006: *Talk* at *Journée Mathématique* 03 November, organized by MAHASG, Fac. Sciences, Rabat.
- 2007:*Talk* at *Seminary of Theoretical Physics Laboratory* 20 January (LPT), Fac. Sciences, Rabat.
- 2007 : *Talk* at *7rd National Meeting on Differential Geometry & Applications* 30 June, Fac. Sciences Ben M'sik, Casablanca.
- 2007: *Talk* at *Journées d'Analyse Harmonique* 16-17 July, Faculty of Sciences Ain Chock, Casablanca.
- 2008 : *Talk* at *Journée Mathématique* 22 July, organized by MAHASG at Faculty of Sciences, Rabat.

- 2009 : Participation at *International Mathematical Meeting on Harmonic Analysis and Partial Differential Equations* 1-4 April, MAHASG, Marrakech.
- 2009 : *Talk* at *Rencontre Mathématique* 22-23 October, organized by MAHASG, Faculty of Sciences & Technics, Settat.
- 2010 : *Talk* at *Rencontre Mathématique* (RM) 30 January, organized by MAHASG at Faculty of Sciences, Rabat.
- 2010 : Talk at *Meeting "Scientific Days of Theoretical Physics"* 21-22 May organized by Laboratory of Theoretical Physics (LPT), Faculty of Sci., Rabat.
- 2010 : *Talk* at *1rdMeeting on Analysis, Geometry & Applications* 24-25 December LAGA, Faculty of Sciences, Kénitra.
- 2011 : *Talk at Journée Nationale "Special functions & Harmonic Analysis"* Animated by Prof. Mourad E. H. Ismail 26 November, Faculty Sci., Meknes.
- 2012 : *Talk* at the *3th International Conference on Operator Algebras and Applications* 1-5 November University Hassan 1er, Settat-Marrakech.
- 2015 : *Talk* at the *4th Conference of Settat on Operator Algebras and Applications* 27-30 January, Marrakech.
- 2015 : Talk at *Mathematical Meeting* 28 March, organized by MAHASG at the Faculty of Sciences of Rabat.

6.4. Invitations at forthcoming events

- 2016 : 31th International Colloquium on Group Theoretical Methods in Physics (Group31) 19-25 June, ICGTMP, Rio de Janeiro, BRAZIL.
- 2016 : School of Coherent States, 13-18 November, CIRM, Marseille, FRANCE.
- 2017 : School of Mathematics, University of Leeds, Leeds, UK.

7. Visiting positions

- 2007 : Polish Academy of Sciences , Wroclaw University of Technology (17-19 October) Wroclaw, POLAND.
- 2013 : Center of Mathematics University of Coimbra CMUC (March 30-April 10) Coimbra, PORTUGAL.
- 2013 : Mathematics Department, Faculty of Sciences & Techniques, Nouakchott (14-23 June) MAURITANIA.
- 2013 : NuHAG Institute, University of Vienna (4-8 November) Vienna, AUSTRIA.
- 2014 : Institute for Mathematics, Astrophysics & Particle Physics, Radboud University Nijmegen (16-19 January) Nijmegen, NETHERLANDS.
- 2014: Department of Mathematics and Statistics, Concordia University (14-27 September) Montreal, CANADA.
- 2014 : Institut des Hautes Etudes Scientifiques (IHES), Paris (November 10-December 10) FRANCE.
- 2014 : Institut de Recherche Mathématiques de Rennes (IRMAR), University of Rennes 1 (26-30 November) Rennes, FRANCE.
- 2016 : Institut de Recherche Mathématiques de Rennes (IRMAR), University of Rennes 1 (February 29th-March 5th) Rennes, France.
- 2016 : Research group *Complex and Hypercomplex Analysis,* Department of Mathematics, University of Aveiro, (March 28-April 9) Aveiro, PORTUGAL.

8. Grants & financial supports

- 2006: Support from the organizing committee to attend the International Congress of Mathematicians ICM2006, Madrid (22-30 August), SPAIN.
- 2006: Support from the organizing committee to attend the *International conference on Harmonic analysis and Applications* 06-11 November, Sousse, TUNISIA.
- 2007: Support from the European Science Foundation (ESF) to attend the conference *Control, Constraints and Quanta* 10-16 October, MSHE & Institute of Mathematics, Bedlewo, POLAND
- 2007: Support from the Wroclaw University of Technology during a scientific visit to the Department of mathematics, Wroclaw (17-19 October), POLAND.
- 2008: Support from the organizing committee to attend the conference *Geometry and Integrability in Mathematical Physics* (15-19 September) CIRM, Luminy, Marseille, FRANCE.
- 2009: Support from CIMPA to attend the CIMPA School 13-25 April, Monastir, TUNISIA.
- 2010: Support from ÉGIDE Service Invitations et Conferences en France (ICF) to attend the *French-Egyptian Congress of Mathematics* 3-5 May, Cairo, EGYPT.
- 2011: Support from the organizing committee to attend *16th European Intensive Course on Complex Analysis and its Generalizations* March 21-April 1 Univ. Coimbra & Aveiro and a scientific visit to the Center of Mathematics (CMUC) Coimbra, PORTUGAL.
- 2012: Support from the organizing committee to attend the conference *Harmonic Analysis, Convolution Algebras, and Special Functions* 10-14 September, Technische Universität München, Munich, GERMANY.

- 2013: Support from King Saud University to attend the conference *Special functions & Orthogonal Polynomials Conference* 20-21 February, King Saud University, Riyadh, SAUDI ARABIA.
- 2013: Support from the university of Coimbra for a Scientific Visit to the Center of Mathematics (CMUC), March 30-April 10, Coimbra, PORTUGAL.
- 2013: Support from the university of Nouakchott for a Scientific Visit to Mathematics Department 14-23 June, Faculty of Sciences & Technics, Nouakchott, MAURITANIA.
- 2013: Support from the Mittag-Leffler Institute to attend *The Bellman function technique in Harmonic Analysis* Summer School 08-12 July, Mittag-Leffler Institute, Stockholm, SWEDEN.
- 2013-2014: Support from the CMUC and FCT (Portugal), through European program COMPETE/FEDER and by FCT project PTDC/MAT/114394/2009.
- 2014 : Support from Radboud University Nijmegen for a scientific visit to Institute for Mathematics, Astrophysics & Particle Physics IMAPP (13-19 January), Radboud University Nijmegen, NETHERLANS
- 2014 : Support from the organizing committee to attend the 30th International Colloquium on Group Theoretical Methods in Physics (Group30) Ghent University, Ghent 14-18 July, BELGIUM.
- 2014 : NANUM 2014 Travel Grant to attend the International Congress of Mathematicians ICM2014, SEOUL (13-21 August), KOREA.
- 2014 : Support from NSERC grant, Department of Mathematics and Statistics, Concordia University, Montreal (14-27 September) CANADA.
- 2014 : Support from IHES (Institut des Hautes Etudes Scientifiques), Paris (November 10-December 10) FRANCE.
- 2014 : Support from IRMAR (Institut de Recherche Mathématiques de Rennes) Université de Rennes 1 (26-30 November), Rennes, FRANCE.
- 2015 : Support from the organizing committee of the 14 th Regional Conference on Mathematical Physics, 9-14 November, Islamabad, PAKISTAN.
- 2016 : Support from IRMAR, University of Rennes 1 (February 29th-March 5th) Rennes, FRANCE.
- 2016 : Support from Department of Mathematics, University of Aveiro, (March 28-April 9) Aveiro, PORTUGAL.

9. Membership in professional societies & similar activities

- 1994 : Founding member of the Moroccan University group of Geometry and Analysis, Kénitra, Morocco (MUGGA).
- 2005---Present : General Secretary of the Moroccan Association of Harmonic Analysis and Spectral Geometry, Rabat, Morocco (MAHASG).
- 2007---Present : Member of the Tunisian Mathematical Society (SMT).
- 2013 : Participation at the Workshop on *Establishing Mathematical Science Research Institute* 19 February, King Saud University, Saudi Arabia.
- 2014-Present : Member of the International Association of Mathematical Physics (IAMP).

10. Managerial activities

Organization of scientific meetings in Morocco

- 1994 : *Journées d'Analyse & Géométrie (JAG)* Avril (MUGGA), Méhdia, Kénitra.
- 2003 : *4rd National Meeting of Young Researchers in Physics (RNJCP4)* 25-27 December, Faculty of Sciences Ben M'sik, Casablanca *(Scientific committee*).
- 2004 : *National Meeting on Differential Geometry & Applications (RNGDA'04)* 24 June, Faculty of Sciences Ben M'sik, Casablanca.
- 2005 : *Journées d'Analyse & Applications (JAAP05)* 17-19 February, Béni Mellal.
- 2006 : *Journée Mathématique* 16 December (MAHASG) at Faculty of Sciences, Rabat.
- 2007 : *National Meeting on Mathematics* 12-13 July Moroccan Association of Harmonic Analysis & Spectral Geometry (MAHASG) Rabat.
- 2008 : *Journée Mathématique* 01 November (MAHASG) at Faculty of Sciences, Kénitra.
- 2009 : *International Mathematical Meeting "Harmonic Analysis and Partial Differential Equations"* (IMM'9) 1-4 April, MAHASG, Marrakech.
- 2010 : *Mathematical Meeting (RM)* 30 October (MAHASG) at Faculty of Sciences, Rabat.
- 2011 : *Mathematical Meeting "Special functions & Harmonic Analysis in Symmetric Spaces"* Animated by Prof. Mourad E. H. Ismail 1-3 December MAHASG Fac. Sci., Rabat.
- 2015 : *Mathematical Meeting* 28 March (MAHASG) at the Faculty of Sciences of Rabat.

11. Academic responsibilities

- 2000-2001 : Representing the Mathematics department within a pedagogical *adhoc* committee at the Faculty of Sciences and Technics, Béni Mellal (FST BM).
- 2001-2006 : Observer Member at the Faculty Council (FST BM).
- 2001-2002 : Observer Member at the University Council (Cadi Ayyad University, Marrakech).
- 2001-2002 : Member of the Animation, Steering and Monitoring Reform Committee CAPESUR (*Comité d'Animation, de Pilotage et de Suivi de la Réforme*), Cadi Ayyad University, Marrakech. The mission of CAPESUR was to prepare the implementation of the reform according to the law 01.00 (May 2000) on the organization of higher education.
- 2002-2004 : Coordinator of the *Scientific Research Committee* of the Mathematics Department at FST BM.
- 2005-2006 : Member of the University Council (Cadi Ayyad University, Marrakech) .
- 2003-2009 : Member of the *Joint Administrative Committee* CAP (Cadi Ayyad University). The CAP makes decisions on tenure, promotion and all administrative affairs concerning Assistant Professors *(CAP: Commission Administrative Paritaire).*

12. Commissions of trust

12.1. Doctorate thesis (PhD) Committee member (Jury)

- 2004 : M. Lahmouz : *"Algèbres de Lie Symplectiques d'ordre k structures de Nambu"* 20 December at the Faculty of Sciences of Ben M'sik, Casablanca, Morocco.
- 2007 : F. El Wassouli : *"Représentation L^p-intégrale des solutions du système d'équation différentielles de Hua sur la boule de Lie*" 27 April at the Faculty of Sciences, Kénitra, Morocco.

12.2. Habilitation committee member (Jury)

- 2012 : D. Gretete, 1 March at Faculty of Sciences, Kénitra, Morocco.

12.3. Reviewer for committee

- 2012 : PhD thesis, Gaston Berger University, Saint-Louis, Sénégal.
- 2012 : Habilitation à diriger la Recherche, Sultan Moulay Slimane University, Béni Mellal, Morocco.
- 2014 : Habilitation à diriger la Recherche, University of Tunis El Manar, Tunisia.

12.4. Hiring committee member

- 2011: Assistant-Professor Position (Permanent), Session 09/26, Moulay Ismail University, Faculty of Sciences & Technics of Errachidia, Morocco.

13. Professional service

13.1. Editorial board membership

- International Journal of Theoretical and Mathematical Physics (*Scientific & Academic Publishing*).
- American Journal of Mathematical Analysis (*Science & Education Publishing*).
- International Journal of Partial Differential Equations and Applications (*Science & Education Publishing*).
- Application and Applied Mathematics: An International Journal (AAM) http://www.pvamu.edu/aam

13.2. Journals refereed for

- Journal of Mathematical Physics (*AIP Publishing*).
- Journal of Physics A: Mathematical & Theoretical (*IOP Publishing*).
- Mathematical Physics, Analysis and Geometry (*Springer*).
- International Journal of Theoretical Physics (*Springer*).

- Applied Mathematics and Physics (*Science & Education Publishing*).
- The Scientific World Journal: Mathematical Analysis (*Hindawi Publishing Corporation*).
- Journal of Partial Differential Equations (*Global Science Press*).
- Journal of Function Spaces (*Hindawi Publishing Corporation*).
- Advances in Mathematics (*China*).
- Turkish Journal of Analysis and Number Theory (*Science & Education Publishing*).
- Journal of Difference Equations and Applications (*Taylor & Francis*)

13.3. Reviewing

- WSEAS (*World Scientific and Engineering Academy and Society*).

14. Experience in university teaching

Legend (French Abbreviation):

- MST : Maitrise en Sciences & Techniques.
- IEEA : Informatique-Electronique-Electrotechnique-Automatique.
- MSS Elect. : Maitrise en Sciences Spécialisées Eléctronique
- SVT : Sciences de la Vie et de la Terre.
- MP : Mathématiques/Physique.
- PC : Physique-Chimie.
- SEG : Sciences Economiques et Gestion.
- SV-STU : Sciences de la Vie/Sciences de la Terre et de l'Univers.
- FST BM : Faculty of Sciences & Technics (Béni Mellal).
- FP : Faculty Polydisciplinaire
- FS : Faculty of Sciences.

14.1. Teaching Bachelor levels

Legend: G1: 1th Bachelor level, G2: 2th Bachelor level and G3: 3th Bachelor level.

Ibn Tofail University (FS)

- 1992-1993:
  - Analysis & Algebra ..... PC, G1.

Cadi-Ayyad University (FSTBM)/(FP)

- 1995-1996:
  - Analysis, Algebra & Statistics ..... SVT, G1.
  - Applied Mathematics in Earth Sciences ..... SVT, G2.
- 1996-1997:
  - Applied Mathematics in Mechanics ..... MST Mechanics, G3.
  - Complex Analysis & Differential Equations ..... MP, G2.
  - Applied Mathematics in Earth Sciences ..... SVT, G2.
- 1997-1998:
  - Analysis and Geometry ..... MP, G2.
  - Applied Mathematics in Mechanics ..... MST Mechanics, G3.
  - Applied Mathematics in Earth Sciences ..... SVT, G2.
- 1998-1999:
  - Applied Mathematics in Mechanics ..... MST Mechanics, G3.
  - Analysis, Algebra & Statistics ..... SVT, G1.
- 1999-2000:
  - Analysis & Geometry ..... PC, G2.
- 2000-2001:
  - Analysis, Algebra & Statistics ..... SVT, G1.
- 2001-2002:
  - Statistics ..... SEG, G1.
  - Distributions, P.D.E & Fourier Analysis ..... MST IEEA, G3.
- 2002-2003:

- Distributions, P.D.E & Fourier Analysis ..... MST IEEA, MSS Elect., G3.

- 2003-2004:
  - Probability & Statistics ..... SV-STU, G1.
  - Statistics ..... SEG, G1.
- 2004-2005:
  - Probability & Statistics ..... SV-STU, G1.
- 2005-2006 & 2006-2007:
  - Analysis & Geometry ..... PC, G2.

Sultan Moulay Slimane University

Legend (French Abbreviation):

- MIP : Mathématiques-Informatique-Physique.
- MIPC : Mathématiques-Informatique-Physique-Chimie.
- AGE : Licence en Aménagement et Gestion de l'Environnement.
- BCG : Biologie-Chimie-Géologie.

- 2008-2009
  - Numerical Analysis/Probability & Statistics ..... MIP, G2.
  - Probability & Statistics ..... Electrical Engineering EEI, G3.
- 2009-2010
  - Probability & Statistics ..... Electrical Engineering, G3.
  - Applied Mathematics in Mechanics ..... MST Mechanics, G3.
- 2010-2011
  - Numerical Analysis/Probability & Statistics ..... MIP, G2.
  - Statistics ..... AGE, G3 & BCG, G1.
- 2011-2012
  - Algebra ..... MIP, G2.
  - Statistics ..... BCG, G1.
- 2014-2015
  - Algebra ..... MIPC, G1.
  - Analysis ..... MIPC, G1.
- 2015-2016
  - Analysis ..... MIPC, G2

14.2. Teaching Master level

Sultan Moulay Slimane University (FSTBM)

Legend (French Abbreviation): GMA : Génie Mathématiques & Applications.

- 2010-2011, 2011-2012, 2012-2013, 2014-2015, 2015-2016 :
  - Optimal Control Theory ..... Master GMA.

14.3. Supervising thesis

Bachelor thesis:

- 2010-2011

  Students : S. Bengotaya and A. Elhajjam (FST BM)

  Bayesian Models for a generalized Poisson law and quantum optics.

- 2011-2012

  Student : H. Kassogue (FST BM)

  Entropic parameters for a Rakhmanov distribution of Laguerre-type.

- 2014-2015

  Students : A. Talhaoui, S. Aslaoui (FST BM)

  Infinite divisibility, Lévy processes and finances (bibliographic research).

  Student : F. E. Fikri

  A survey on the Entropy (bibliographic research).

- Master thesis:
  - 2012-2013
    Student : P. K. Kayupe (FST BM)
    Fock-Darwin Hamiltonians on $\mathbb{R}^2$.
  - 2014-2015
    Student : K. Ahbli (FST BM)
    An optimal control problem for Fock-Darwin Hamiltonians on $\mathbb{R}^2$.
  - 2015-2016 : Student : A. Kouraich (FST BM)
    The J-matrix method.
- PhD thesis:
  - 2011—Present:
    Student : A. Elimrany (Mohammed V Univ. , Rabat)
    Coherent states attached to Landau levels on the two torus $\mathbb{T}2$.
  - 2014—Present:
    Student : P. K. Kayupe (Ibn Tofail Univ., Kénitra)
    Coherent states for the Poschl-Teller potentials.

15. Outreach activities

15.1. Implementation of a documentary background via a donations program (2002-2004)

The acquisition power of our scientific libraries has been severely affected by Budget restrictions. In order to counteract this, I have been making contacts aiming at the implementation of a documentary background at the Faculty of Sciences & Techniques of Béni Mellal via donations from international institutions. Below are some examples of such donations:

- Donation (Journals & books) by the American Mathematical Society (AMS), USA.
- Donation (Journals) Research Institute for Mathematical Sciences Kyoto University, JAPAN.
- Donation (Publications) TWAS/ICTP The Abdus Salam International Centre for theoretical Physics, Trieste, ITALY.
- Donation (Scientific Journals & Revues) by the Library of Max-Plank-Institute Stuttgart, GERMANY.
- Donation (100 years of Bulletin of the SMF) by the French Mathematical Society, FRANCE.

15.2. e-News letter

I have developed a web-based document released on internet to the attention of the public at large (2578 email address & 59 Letters since 05/01/2016): https://groups.google.com/forum/#!forum/Math-Morocco
The goal of this activity is to create awareness among the general public in order to communicate the mathematical research works performed in Morocco and its implications for citizens. This activity should also introduce students from schools and universities to research and innovation in mathematics.

15.3. Mentoring programs for high-school and young students

Saturday programs:

- 1-(Mornings): Directed to talented High-School students : With the help of the University administration I am offering lectures on different topics of Mathematical Analysis adapted to High-School kids in order to attract young talent to mathematics. The lectures are also open for all students on the first level.

- 2-(Afternoons): Initiation to mathematical research: I introduce students from different degrees to research topics in mathematics, to stimulate student's curiosity about mathematical research.

References

Mourad E H. Ismail
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