

February 1, 2024

Contents

1 2004 LIST OF PUBLICATIONS

1.1 By the members in Benin

1. L. Gouba, G. Y. H. Avossevou and J. Govaerts and M. N. Hounkonnou,
Fermionisation of a Two-Dimensional Free Massless Complex Scalar Field
Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), University of Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Govaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp 233 - 243.
2. G. Y. H. Avossevou and J. Govaerts and M. N. Hounkonnou,
Self-Adjoint Extensions of the Dirac Hamiltonian With a δ -Sphere Interaction
Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), University of Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Govaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp 544 - 557.
3. E. Azatassou and M. N. Hounkonnou,
On Generalized Continuous D Semi-Classical Orthogonal Polynomials of Class One
Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), University of Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Govaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp 558 - 567.
4. C. Hounga, M. N. Hounkonnou and A. Ronveaux,
Nonlinear Recurrence Relations for Modified q -Discrete Hermite Orthogonal Polynomials
Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), University of Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Govaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp 568 - 574.
5. G. Debiais and M. N. Hounkonnou,
Optical Parameter Determination of the Atmosphere From a LIDAR Signal by Hilbert Transforms. Attempt at Aerosol Characterization
Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), University of Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Govaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp 188 - 208.
6. M. N. Hounkonnou, K. Sodoga and E. S. Azatassou,
Factorization of Sturm-Liouville Operators: Solvable Potentials and Underlying Algebraic

- Structure*,
 J. Phys. A: Math. Gen. **38** 371 - 390 (2004).
7. G. Honnouvo and M. N. Hounkonnou,
Asymptotics of Eigenvalues of the Aharonov-Bohm Operator With a Strong δ - Interaction on a Loop,
 J. Phys. A: Math. Gen. **37** 693 - 700 (2004).
 8. M. N. Hounkonnou, K. Sodoga, Y. Justum and D. Lauvergnat,
Exactly Solvable Potentials for some triatomic molecular systems,
 J. Phys. B: At. Mol. Opt. Phys. **37** 1859 (2004).
 9. Gilbert Honnouvo, M. N. hounkonnou and Gabriel Yves Hugues Avossevou,
von Neumann Quantization of Aharonov-Bohm Operator with δ Interaction: Scattering Theory, Spectral and Resonance Properties,
 J. of Nonlinear Math. Phys. **11**, Supplement 66 - 71 (2004).
 10. K. Thirulogasanthar, G. Honnouvo and A. Krzyzak,
Multi-Matrix Vector Coherent States,
 Annals of Physics **314**, 119 - 144 (2004).
 11. K. Thirulogasanthar and G. Honnouvo,
Coherent States With Complex Functions,
 International Journal of Theoretical Physics **43** (4), (2004).
 12. A. Afouda, E. A. Lawin and Th. Lebel,
A Stochastic Streamflow Model Based on a Minimum Energy Expenditure Concept,
 Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), University of Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Govaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp 153 - 169.
 13. G. Edah and B. Piraux,
Nonperturbative Approach to Double Ionization of Negative Hydrogen by a Single Photon
 Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), University of Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Govaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp 209 - 216.
 14. K. Thirulogasanthar and G. Honnouvo,
Vector Coherent States for Tensoried Matrices
 Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), University of Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Govaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp 500 - 510.

15. B. Lasorne, F. Gatti, E. Baloïtcha, H.-D. Dieter Meyer and M. Desouter-Lecomte, *Cumulative isomerization provability studied by various transition state wave packet methods including the MCTDH algorithm. Benchmark: HCN/CNH isomerization.* J. Chem. Phys. **121**, 644 (2004).
16. G. G. Balint-Kurti and E. Baloïtcha, *General comment on "Conical Intersections and Potential Energy Surfaces for the Photodissociation of Ozone".* Faraday discuss. 127, 97 (2004).

1.1.1 By the members in Cameroon

1. M. Foupouagnigni, W. Koepf and A. Ronveaux, *On Solutions of Fourth-Order Differential Equations Satisfied by Some Classes of Orthogonal Polynomials,* J.Comput. Appl. Math. **162** 299 - 326 (2004).
2. M. Foupouagnigni, W. Koepf and A. Ronveaux, *On Factorization and Solutions of q-Difference Equations Satisfied by Some Classes of Orthogonal Polynomials,* J. Diff. Eqn Appl. **10** (8) 729 - 747 (2004).

1.2 By the members outside Africa

1. S.T. Ali, R. Roknizadeh and M.K. Tavassoli, *Representations of coherent states in non-orthogonal bases,* J. Phys. **A37**, 4407-4422 (2004).
2. S.T. Ali, M. Engliš and J.-P. Gazeau, *Vector coherent states from Plancherel's Theorem and Clifford algebras,* J.Phys. **A37**, 6067-6089 (2004).
3. S.T. Ali, M. Engliš, *Quantization methods: A guide for physicists and analysts,* preprint, arXiv: math-ph/0405065 v1, 29 May 2004, pp. 72, to appear in Reviews in Math. Phys.
4. S.T. Ali and F. Bagarello, *Some physical appearances of vector coherent states and CS related to degenerate Hamiltonians,* preprint, arXiv: quant-ph/0410151 v1, 20 Oct. 2004, pp. 34, to appear in J. Math. Phys.
5. S.T. Ali, *Vector coherent states over matrix domains,* in *Contemporary Problems in Mathematical Physics,* Proceedings of the Third International Workshop, Cotonou, Benin, 1-7 November, 2003, Eds: Jan Govaerts, M. Norbert Hounkonnou and Alfred Z. Msezane, World Scientific, Singapore (2004), pp. 375-383.
6. J-P. Antoine, *Partial \star -Algebras, Twenty Years Later,* Suppl. Rendiconti Circolo Matematico Palermo, Ser.II, **73** (2004) 13-33 (Int. Conf. Operator Theory and Operator Algebras, Altavilla Milicia (Palermo), June 2003).

7. J-P. Antoine,
Wavelet Analysis and Some of its Applications in Physics,
 Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), University of Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Govaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp 384-413.
8. J-P. Antoine and L. Jacques,
The 2-D Wavelet Transform in Image Processing: Two Novel Applications,
 Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), University of Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Govaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp 414-435.
9. J-P. Antoine,
Partial \star -algebras: General Theory and Some Operator Realizations,
 Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), University of Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Govaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp 519-543.
10. I. Bogdanova, P. Vandergheynst, J-P. Antoine, L. Jacques and M. Morvidone,
Discrete Wavelet Frames on the Sphere,
 in Proc. EUSIPCO 2004 (Vienna, Sept. 2004), **vol. I**, 49-52; F. Hlawatsch et al. (eds.), TU Wien, Vienna, 2004.
11. J-P. Antoine and L. Jacques,
The Multiselectivity Scheme: A Pyramidal Organization of Wavelets with Variable Angular Selectivity,
 in Proc. EUSIPCO 2004 (Vienna, Sept. 2004), **vol. I**, 65-68; F. Hlawatsch et al. (eds.), TU Wien, Vienna, 2004.
12. J-P. Antoine,
Introduction to "Precursors in Physics: Affine Coherent States",
 in Fundamental Papers in Wavelet Theory, C. Heil and D. Walnut (eds); Princeton University Press, Princeton, NJ, 2004 (in press)
13. J-P. Antoine and L. Jacques,
Traitement de l'Image : de l'Equation de la Chaleur aux Ondelettes,
 in Actes de l'Université d'été "Sciences mathématiques et modélisation" (IREM-Bordeaux, août 2004) (in press).
14. J. Govaerts and F.G. Scholtz,
Revisiting the Fradkin-Vilkovisky Theorem,
J. Phys. **A37** (2004) 7359 - 7379 (e-print arXiv:hep-th/0406099).

15. B. Lauss, J. Govaerts *et al.*, with the μ Cap and μ Lan Collaborations,
Muon Lifetime and Muon Capture,
Proceedings of the Conference on the Intersections of Particle and Nuclear Physics 2003,
CIPANP 2003, New York City (USA), May 19 - 24, 2003, AIP Conference Proceedings,
Vol. 698, ed. Z. Parsa (American Institute of Physics, New York, 2004), pp. 230-233
(e-print [arXiv:nucl-ex/0401005](https://arxiv.org/abs/nucl-ex/0401005)).
16. J. Govaerts,
*On the Road Towards the Quantum Geometer's Universe:
An Introduction to Four-Dimensional Supersymmetric Quantum Field Theories*,
Proceedings of the Third International Workshop on Contemporary Problems in Mathe-
matical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), Université
d'Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Go-
vaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp. 94
- 150 (e-print [arXiv:hep-th/0408021](https://arxiv.org/abs/hep-th/0408021)).
17. J. Govaerts,
*The Cosmological Constant of One-Dimensional
Matter Coupled Quantum Gravity is Quantised*,
Proceedings of the Third International Workshop on Contemporary Problems in Mathe-
matical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), Université
d'Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Go-
vaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp. 244
- 272 (e-print [arXiv:hep-th/0408022](https://arxiv.org/abs/hep-th/0408022)).
18. J. Govaerts,
Topological Quantum Field Theory and Pure Yang-Mills Dynamics,
Proceedings of the Third International Workshop on Contemporary Problems in Mathe-
matical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), Université
d'Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Go-
vaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp. 273
- 293 (e-print [arXiv:hep-th/0408023](https://arxiv.org/abs/hep-th/0408023)).
19. L. Gouba, G. Avossevou, J. Govaerts and M.N. Hounkonnou,
Fermionisation of a Two-Dimensional Free Massless Complex Scalar Field,
Proceedings of the Third International Workshop on Contemporary Problems in Mathe-
matical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), Université
d'Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Go-
vaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp. 233
- 243 (e-print [arXiv:hep-th/0408024](https://arxiv.org/abs/hep-th/0408024)).
20. G. Avossevou, J. Govaerts and M.N. Hounkonnou,
Self-Adjoint Extensions of the Dirac Hamiltonian with a δ -Sphere Interaction,
Proceedings of the Third International Workshop on Contemporary Problems in Mathe-
matical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), University
of Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Go-

- vaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp. 544 - 557 (e-print [arXiv:hep-th/0408019](https://arxiv.org/abs/hep-th/0408019)).
21. G. Stenuit, S. Michotte, J. Govaerts and L. Piraux,
Temperature Dependence of Penetration and Coherence Lengths in Lead Nanowires,
Supercond. Sci. Technol. **18** (2005) 174 - 182.
 22. F.E. Gray, J. Govaerts *et al.*, The μ Lan and μ Cap Collaborations,
Precision Muon Lifetime and Capture Experiments at PSI,
Proceedings of the 6th International Workshop on Neutrino Factories and Superbeams
(NuFACT04), Osaka (Japan), July 26 - August 1st, 2004,
e-print [arXiv:nuc1-ex/0410042](https://arxiv.org/abs/nuc1-ex/0410042), 4 pages, to appear in *Nuclear Physics B Proceedings Supplements*.
 23. R. Das, N.C. Deb, K. Roy and A.Z. Msezane,
Dipole Allowed and Intercombination Transitions in $K7^+$ and $Ti10^+$ Ions,
Astronomy & Astrophysics **416**, 375 (2004).
 24. M. Ya. Amusia, A.Z. Msezane and V.R. Shaginyan,
Two Types of the Effective Mass Divergences and the Grn Ratio in Heavy Fermion Metals,
Phys. Lett. **A320**, 459 (2004).
 25. G.P. Gupta and A.Z. Msezane,
Calculated Energy Levels, Oscillator Strengths and Lifetimes in Al-Like Argon,
Physica Scripta **69**, 273 (2004).
 26. G.P. Gupta and A.Z. Msezane,
Energy levels and Lifetimes of High Angular Momentum and High Spins Levels $3s3p3d$ ($4FJ$) in $Ti X$,
Physica Scripta, in Press (2004).
 27. S.M. Belov, N.B. Avdonina, Z. Felfli, M. Marletta, A.Z. Msezane and S.N. Naboko,
Semiclassical Approach to Regge Poles Trajectories Calculations for Nonsingular Potentials: Thomas-Fermi Type,
J. Phys. **A37**, 6943 (2004).
 28. G.P. Gupta, K.M. Aggarwal and A.Z. Msezane,
Comment on Relativistic Many-Body Calculations of Energies of $n=3$ States in Aluminum Like Ions,
Phys. Rev. **A70**, 036501 (2004).
 29. M. Ya. Amusia, L.V. Chernysheva, N.S. Cherepkov, Z. Felfli and A.Z. Msezane,
Spin Polarization of Photoelectrons from 3d Electrons of Xe, Cs and Ba,
Phys. Rev. **A**, In Press (2004).
 30. D. Sokolovski and A.Z. Msezane,
A Semiclassical CAM Theory and PADconstruction for Resonances, Rainbows and Reaction Thresholds,
Phys. Rev. **A70**, 032710 (2004).

31. M. Ya. Amusia, A.S. Baltenkov, V.K. Dolmatov, S.T. Manson and A.Z. Msezane, *Confinement Resonances in Photoelectron Angular Distributions from Endohedral Atoms*, Phys. Rev. **A70**, 023201 (2004).
32. Zhifan Chen and Alfred Z. Msezane, *Generalized Oscillator Strengths for Inner - Shell Electron Transitions*, Phys. Rev. **A70**, 032714 (2004).
33. Zhifan Chen and Alfred Z. Msezane, *Coefficients of Radial Integral in the Electrostatic Interaction and their Application*, Can. J. Phys. **82**, 517 (2004).
34. M. Ya. Amusia, A.Z. Msezane, V.R. Shaginyan, and D. Sokolovski, *On the Relationship between the Hartree - Fock and Kohn - Sham Approaches*, Physics Letters **A330**, 10 (2004).
35. A.S. Baltenkov, V.K. Dolmatov, S.T. Manson and A.Z. Msezane, *Nondipole Effects in Photoabsorption of Electrons in Two - Center Zero - Range Potentials*, J. Phys. **B37**, 3837 (2004).
36. Z. Felfli, S.M. Belov, M. Marletta, N.B. Avdonina, A.Z. Msezane and S.N. Naboko, *Regge Poles Trajectories Calculations for Nonsingular Potentials: Thomas - Fermi Type*, Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), University of Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Govaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp 217 - 232.
37. Zhifan Chen, N. Cherepkov, and A.Z. Msezane, *Generalized Oscillator Strengths for Open-Shell and Closed-Shell Atoms*, Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics, Institut de Mathématiques et de Sciences Physiques (IMSP), University of Abomey-Calavi, Cotonou (Republic of Benin), November 1st - 7th, 2003, eds. J. Govaerts, M.N. Hounkonnou and A.Z. Msezane (World Scientific, Singapore, 2004), pp 175 - 180.
38. M. Ya. Amusia, A.S. Baltenkov, L. V. Chernysheva, Z. Felfli, S. T. Manson, and A. Z. Msezane, *Effects of Spin- Orbit Activated Interchannel Coupling on Dipole Photoelectron Angular Distribution Asymmetry Parameters*, J. Phys. **B37**, 937 (2004).
39. N.A. Cherepkov, M.Ya. Amusia, L.V. Chernysheva, Z. Felfli, and A.Z. Msezane, *Spin Polarization of Photoelectrons from 3d Electrons of Xe, Cs. and Ba*, Bull Am. Phys. Soc. **49**, 36 (2004).

40. A. Baltenkov, S.T. Manson, V. Dolmatov and A.Z. Msezane,
Retardation Effects in Molecular Photodetachment,
Bull. Am. Phys. Soc. **49**, 37 (2004)
41. Z. Felfli, T.W. Gorczyca, N.C. Deb, S.T. Manson, and A.Z. Msezane,
R-Matrix Calculation of the Outer - Shell Photoionization of Ni (15+),
Bull. Am. Phys. Soc. **49**, 38 (2004)
42. S. Belov, Z. Felfli, M. Marletta, N.B. Avdonina, A.Z. Msezane, and S. Naboko,
Regge Poles Trajectories for Nonsingular Potentials: the Thomas - Fermi Potentials,
Bull. Am. Phys. Soc. **49**, 41 (2004)
43. M. Ya. Amusia, A.Z. Msezane, D. Sokolovski, and V.R. Shaginyan,
Relationship Between the Hartree-Fock and Kohn-Sham Approaches,
Bull. Am. Phys. Soc. **49**, 42 (2004).
44. M.Ya. Amusia, L.V. Chernysheva, Z. Felfli, and A.Z. Msezane,
Octupole Contributions to the Generalized Oscillator Strengths of Discrete Dipole Transitions in Noble Gases,
Bull. Am. Phys. Soc. **49**, 42(2004)
45. D. Sokolovski, A.Z. Msezane, and V.R. Shaginyan,
Superluminal Tunnelling as a Quantum Measurement Effect,
Bull. Am. Phys. Soc. **49**,103 (2004).
46. Zhifan Chen and A.Z. Msezane,
Generalized Oscillator Strengths for Inner-Shell Electron Transitions,
Bull. Am. Phys. Soc. **49**,111 (2004).
47. Zhifan Chen and A.Z. Msezane,
Oscillator Strengths from the (87)Rb Excited State 5p(2P),
Bull Am. Phys. Soc. **49**, 111 (2004)
48. V. Tayal, G.P. Gupta, A.N. Tripathi, and A.Z. Msezane,
Fine - Structure Energy Levels, Oscillator Strengths, and Lifetimes in Mg-Like Argon,
ECAMP VIII 8th European Conf. On Atomic and Molecular Physics, (Rennes, France),
July 6 - 10 (2004), in press.
49. G.P. Gupta and A.Z. Msezane,
Large Scale CIV3 Calculations of Fine-Structure Energy Levels and Lifetimes in Ti X, Fe XIV and Ni XVI,
ECAMP VIII 8th European Conf. On Atomic and Molecular Physics, (Rennes, France),
July 6 - 10 (2004), in press.
50. M.Ya. Amusia, L.V. Chernysheva, N.A. Cherepkov, Z. Felfli and A.Z. Msezane,
Spin Polarization of Photoelectrons from 3d Electrons of Xe, Cs and Ba,
The 14th APS Topical Conference on Atomic Processes in Plasmas, (La Fonda in Santa Fe, NM), April 19-22 (2004) p.39.

51. D. Lauvergnat and A. Nauts,
A Harmonic Adiabatic Approximation to calculate vibrational states of ammonia,
Chem. Phys, **305** 105 (2004).

1.3 PUBLISHED BOOKS

1. S.T. Ali, A. Odziejewicz, P. Kielanowski and M. Schlichenmaier, *Geometrical Methods in Physics: Bialowieza XXI and XXII*, Proceedings of the of the XXI and XXII Workshop on Geometrical Methods in Physics, June/July 2002 and 2003, Bialowieza, Poland; Journal of Nonlinear Mathematical Physics, Vol. 11 Supplement (2004).
2. S.T. Ali, G.G. Emch, A. Odziejewicz, M. Schlichenmaier and L. Woronowicz, *Twenty Years of Bialowieza: A Mathematical Anthology*, (Aspects of Differential Geometric Methods in Physics), World Scientific, Singapore (2005).
3. J-P. Antoine, R. Murenzi, P. Vandergheynst and S.T. Ali,
Two-Dimensional Wavelets and their Relatives, 476 pp.
Cambridge University Press, Cambridge (UK) (2004).
4. J. Govaerts, M. N. Hounkonnou and A. Z. Msezane,
Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics,
World Sci. Publishing, River Edge, NJ (2004).

1.4 INTERNAL REPORTS AND PREPRINTS

1.4.1 By the members in Benin

1. M. N. Hounkonnou, A. Ronveaux and K. Sodoga,
Heun's Differential Operators: Factorisation and Solvable Potentials,
ICMPA-XII/01 (2004).
2. M. N. Hounkonnou and K. Sodoga,
Generalized Coherent States for Associated Hypergeometric-Type Functions,
ICMPA-XII/02 (2004).
3. C. Hounga, M. N. Hounkonnou and A. Ronveaux,
New Families of Orthogonal Polynomials: Continuous Case,
ICMPA-V/01 (2004).
4. A. D. Kanfon and D. Lambert,
Kinetically Quintessence and Inflation With F-Harmonic Maps,
ICMPA-IV/01 (2004).
5. C. Hounga, M. N. Hounkonnou and A. Ronveaux,
New Families of Orthogonal Polynomials: Discrete Case,
ICMPA-IV/01 (2004).

6. C. Hounga, M. N. Hounkonnou and A. Ronveaux,
New Families of q -Orthogonal Polynomials,
ICMPA-III/01 (2004).
7. G. Edah, B. Piraux and R. Shakeshaft,
Photo-Double Ionization of Heliumlike Ions,
ICMPA-XI/01 (2004).
8. Ezinvi Baloïtcha,
Cumulative reaction probability $N(E)$ as estimated from empirical bimolecular rate constant $k(T)$,
March, (2004).
9. Ezinvi Baloïtcha and Gabriel G. Balint-Kurti,
Theory of the Photodissociation of Ozone in the Hartley continuum; potential energy surfaces, conical intersections and photodissociation dynamics.
J. Chem. Phys. (Submitted)

1.4.2 By the members outside Africa

1. I. Bogdanova, P. Vandergheynst, J-P. Antoine, L. Jacques and M. Morvidone,
Stereographic Wavelet Frames on the Sphere,
Applied and Computational Harmonic Analysis (submitted).
2. J-P. Antoine and C. Trapani,
Banach Partial \star -Algebras: Basic Properties, Representations, Spectrum,
Mathematische Nachrichten (submitted).
3. J. Govaerts,
Les secrets codés d'un sacré cadeau de votre ami Albert,
Contribution to the Science Awareness Magazine "Science Infuse", Faculty of Sciences
(Catholic University of Louvain, Louvain-la-Neuve, Belgium), March 2004.
4. J. Govaerts,
Trois constantes, quatre révolutions et une symphonie inachevée,
Contribution to the Science Awareness Magazine "Science Infuse", Faculty of Sciences
(Catholic University of Louvain, Louvain-la-Neuve, Belgium), June 2004.

1.5 INVITED LECTURES

1.5.1 By the members outside Africa

1. J-P. Antoine,
Etats Cohérents: du Laser au Traitement d'Images,
Rencontre Nationale de Physique Théorique, Tanger (Maroc), 27-29 mai 2004.
2. J. Govaerts,
Physics Conferences to Secondary High Schools in Belgium,

L'Univers au coeur de l'atome, or, *La cosmologie ... ou encore une histoire de pomme*,
March 22, April 28, November 29, 2004.

3. J. Govaerts,
Conference organised by the student astronomy club at the Catholic University of Louvain
(Louvain-la-Neuve, Belgium),
De l'Electron à l'Univers, ou l'Incroyable Saga des Particules, November 11, 2004,
4. J. Govaerts,
Conference and Lecture Series for the General Public (Brussels, Belgium),
(i) *Trois Constantes, quatre révolutions et une symphonie inachevée*, (ii) *Les Symétries
du Modèle Standard de la physique des particules*,
September 11, 18, 25, October 2, 9, 16, 23, November 6, 15, 2004.

1.6 SEMINARS GIVEN

1.6.1 By members in Benin

1. M. N. Hounkonnou,
Seminair of Mathematical Physics,
Centre de Recherches Mathématiques (CRM), Université de Montréal, May 2004,
Recurrence Coefficients for the Generalized Charlier Semi-Classical Orthogonal Polynomials.
2. M. N. Hounkonnou,
Seminar of Mathematical Physics,
Center for Mathematical Sciences Research, (Rutgers, The State University of New Jersey,
USA), April 2004,
New Families of Orthogonal Polynomials.
3. M. N. Hounkonnou,
Chair of Seminars of Theoretical Physics Research Unit de l'Institut de Mathématiques
et de Sciences Physiques (IMSP), 2004,
Functional Analysis Methods for Mathematical and Theoretical Physics.
4. M. N. Hounkonnou,
April 2004, *Mathematical Sciences Education in Benin*,
New Jersey University of Rutgers.
5. L. Gouba,
Two-Dimensional Scalar QED: The Gauge Invariant Formulation,
May 2004, National Seminars at Institut de Mathématiques et de Sciences Physiques
(IMSP).
6. K. Sodoga,
April 2004,
Generalized Creation and Annihilation Operators for Shape-Invariant Potentials,
National Seminars at Institut de Mathématiques et de Sciences Physiques (IMSP).

7. L. Gouba,
 April 2004,
Sur l'Intégrale Fonctionnelle: Cas d'un Système Mécanique à Deux Degrés de Liberté,
 Theoretical Physics Research Unit Seminars at Institut de Mathématiques et de Sciences
 Physiques (IMSP).
8. L. Gouba,
 April 2004,
Sur les Solitons,
 Theoretical Physics Research Unit Seminars at Institut de Mathématiques et de Sciences
 Physiques (IMSP).
9. L. Gouba,
 May 2004,
Fermionisation d'un Champ Scalaire Complexe de Masse Nulle en Dimension 2,
 Theoretical Physics Research Unit Seminars at Institut de Mathématiques et de Sciences
 Physiques (IMSP).
10. M. N. Hounkonnou,
 Mathematical Physics Seminar,
 ICMIPA, November 27th, 2004,
*On the Solutions of Non Linear Recurrence Equations for the Generalized Charlier Semi-
 Classical Orthogonal Polynomials*.
11. J. Ben Geloun,
 Mathematical Physics Seminar,
 ICMIPA, November 27th, 2004,
On The Lagrangian Formulation of Quantum Field Theory: The Noether Theorem.
12. A. D. Kanfon,
On F-Harmonic Maps in Cosmology,
 October 2004,
 National Seminars at Institut de Mathématiques et de Sciences Physiques (IMSP).
13. C. Hounga,
 March 2004,
New Families of Orthogonal Polynomials: Continuous Case,
 National Seminars at Institut de Mathématiques et de Sciences Physiques (IMSP).
14. C. Hounga,
 June 2004,
New Families of Orthogonal Polynomials: Discrete Case,
 National Seminars at Institut de Mathématiques et de Sciences Physiques (IMSP).
15. G. Edah,
 June 2004,
Effet de la Corrélation dans les Réactions $(e, 2e)$ et $(\gamma, 2e)$,

Theoretical Physics Research Unit Seminars at Institut de Mathématiques et de Sciences Physiques (IMSP).

16. M. N. Hounkonnou,
June 2004,
On Sturm-Liouville Second Order Difference Equations,
Theoretical Physics Research Unit Seminars at Institut de Mathématiques et de Sciences Physiques (IMSP).
17. K. Sodoga,
October 2004,
On Lie Group Representations,
Theoretical Physics Research Unit Seminars at Institut de Mathématiques et de Sciences Physiques (IMSP).
18. K. Sodoga,
March 2004,
Factorisation des Opérateurs de Sturm-Liouville,
Theoretical Physics Research Unit Seminars at Institut de Mathématiques et de Sciences Physiques (IMSP).
19. K. Sodoga,
April 2004,
Propriétés Fondamentales des Opérateurs de Sturm-Liouville,
Theoretical Physics Research Unit Seminars at Institut de Mathématiques et de Sciences Physiques (IMSP).
20. G. Edah,
June 2004,
Description du Double Continuum de Deux Electrons Emis dans le Champ du Noyau,
National Seminars at Institut de Mathématiques et de Sciences Physiques (IMSP).

1.6.2 By the members outside Africa

1. J. Govaerts,
3 February 2004,
Gauge Fixing and the Cosmological Constant,
Center for Particle Physics and Phenomenology (CP3), Catholic University of Louvain (Louvain-la-Neuve, Belgium).
2. D. Lauvergnat and M. Desouter-Lecomte,
26 October 2004,
Dynamique Quantique : Réduction de Dimension ,
Laboratoire de Chimie Physique, Comité d'évaluation (Orsay, France).
3. D. Lauvergnat,
January 15 2004,

Dynamique de molécules déformables : Apport des méthodes "ab-initio" ,
Laboratoire de Chimie Physique, Habilitation à Diriger des Recherches (Orsay, France).

1.7 PARTICIPATION TO INTERNATIONAL CONFERENCES AND WORKSHOPS

1.7.1 By the members in Benin

1. G. Edah,
Fifteenth Engelbrecht Summer School in Theoretical Physics,
KwaZulu Natal, South Africa, January (2004).
2. L. Gouba, J. Govaerts and M. N. Hounkonnou,
Université de Lomé, (Togo) October 27 (2004),
Sur la Dualité Fermion/Boson en Dynamique Quantique de Dimension 2.
3. E. S. Azatassou, H. Hounga and M. N. Hounkonnou,
Université de Lomé, (Togo) October 27 (2004),
Discrete Semi-Classical Orthogonal Polynomials of Class Two.
4. G. Honnouvo,
International Workshop: Wavelets: Theory and Applications,
University of Prince Edward Island, Charlottetown, P.E.I., Canada, 26 April - 7 May,
2004.
5. G. Honnouvo,
Séminaire de Physique Mathématique,
Centre de Recherches Mathématiques,
Fourier Transforms on Lie Groups and Applications for Imaging and Data Processing,
(Conférencier: A. Atoyan), Université de Montréal, November 2 (2004).
6. G. Honnouvo,
Séminaire de Physique Mathématique,
*Application de l'Extension Continue d'une Transformée de Type Fourier dans l'Analyse
des Données Radar,*
(Conférencier: M. Germain),
Centre de Recherches Mathématiques, Université de Montréal, November 9 (2004).
7. Ezinvi Baloïtcha,
Faraday Discussion 127 -*Non-Adiabatic Effects in Chemical Dynamics*
Oxford (United Kingdom), April 5-7(2004).
8. Ezinvi Baloïtcha,
18th International Symposium on Gas Kinetics, Bristol August 7-12(2004).
9. Ezinvi Baloïtcha and Gabriel G. Balint-kurti
*Photodissociation of Ozone in the Hartley Bands Conical intersections, potential energy
surfaces and dynamics.*

Core Strategic Measurement for Atmospheric Science (COSMAS), Bristol August 12-13(2004).

1.7.2 By the members outside Africa

1. S.T. Ali, VII International Workshop on Wavelets, Quantization and Partial Differential Equations: Theory and Applications, University of Havana, Cuba, February 23-27, 2004.
2. S.T. Ali, International Workshop: Wavelets – Theory and Applications, University of Prince Edward Island, Charlottetown, PEI, April 26 – May 7, 2004.
3. S.T. Ali, XXIII-rd Workshop on Geometrical Methods in Physics, Bialowieza, Poland, June 27 – July 4, 2004.
4. S.T. Ali, Workshop on wavelets and their Applications, King Abdul Aziz City of science and Technology (KACST), Riyadh Saudi Arabia, Dec. 14, 2004.
5. S.T. Ali, International Conference on Operator Theory, Quantum Probability and Non-commutative Geometry, Kolkata, India, Dec. 20 – 23, 2004.
6. J-P. Antoine,
Rencontre Nationale de Physique Théorique,
Tanger (Maroc), May 27-29 (2004).
7. J-P. Antoine,
Université d'été "Sciences mathématiques et modélisation",
IREM-Bordeaux, August 23-27 (2004).
8. J-P. Antoine,
XII. European Signal Processing Conference,
EUSIPCO-2004, Vienna, September 6-10, (2004).
9. V. Tayal, G.P. Gupta, A.N. Tripathi, and A.Z. Msezane,
Fine - Structure Energy Levels, Oscillator Strengths, and Lifetimes in Mg-Like Argon,
ECAMP VIII 8th European Conf. On Atomic and Molecular Physics,
(Rennes, France), July 6 - 10 (2004).
10. G.P. Gupta and A.Z. Msezane,
Large Scale CIV3 Calculations of Fine-Structure Energy Levels and Lifetimes in Ti X, Fe XIV and Ni XVI,
ECAMP VIII 8th European Conf. On Atomic and Molecular Physics,
(Rennes, France), July 6 - 10 (2004).
11. M.Ya. Amusia, L.V. Chernysheva, N.A. Cherepkov, Z. Felfli and A.Z. Msezane,
Spin Polarization of Photoelectrons from 3d Electrons of Xe, Cs and Ba,
The 14th APS Topical Conference on Atomic Processes in Plasmas,
(La Fonda in Santa Fe, NM), April 19-22 (2004).

12. D. Lauvergnat,
Reduction of dimensionality,
COST P4 WG4 (theory), (Brussels, Belgium),
October 30, 2004.
13. D. Lauvergnat, A. Nauts, M. Desouter-Lecomte and G. Dive,
Exact numerical computation of kinetic energy operator: Reaction Path Hamiltonian on Adenine+OH reaction. ,
Radiation Damage in Biomolecular Systems (Lyon, France),
24-27 june, 2004.

1.8 PH.D. THESIS SUPERVISED AND DEFENDED 2004

1.8.1 By the members in Benin

- M.N. Hounkonnou:
 1. L. Gouba (with J. Govaerts, co-supervisor),
Théories de Jauge en Dimension 2,
Université d'Abomey-Calavi.
 2. C. Hounga,
Sur de Nouvelles Familles de Polynômes Orthogonaux,
Université d'Abomey-Calavi.
 3. E. S. Azatassou,
Sur les $D_{q,\omega}$ Polynômes Orthogonaux Semi-Classiques,
Université d'Abomey-Calavi.
 4. J. Ben Geloun (with J. Govaerts, co-supervisor),
Modèle de Schwinger dans un Espace-Temps 1+1 non Commutatif,
Université d'Abomey-Calavi.
 5. K. Sodoga,
Sturm-Liouville Differential Operators: Factorization and Solvable Potentials,
Université d'Abomey-Calavi.
 6. A. Anjorin,
On Differential Operators of Mathematical Physics: Supersymmetric Factorization and Solvable Potentials,
Université d'Abomey-Calavi.
 7. F. Guédjé (with G. Débiais, co-supervisor),
On Optical Parameter Determination of the Atmosphere from a LIDAR Signal,
Université d'Abomey-Calavi and Université de Perpignan.
 8. K. Mahaman (with B. Somé, co-supervisor),
Contribution à la Modélisation du Cancer du Cerveau,
Université d'Abomey-Calavi.
 9. G. Honnouvo (with S. T. Ali, co-supervisor),
On von Neumann Quantization of Bohm-Aharonov Operator: Scattering and Spectral

Theory,
Université d'Abomey-Calavi and Concordia University.

- E. Houngninou,
Dynamics and Disturbance of Equatorial Aeronomy as Observed by HF Radar,
PhD thesis (Thèse d'Etat) defended, CETP- S^t Maur, France.

1.8.2 By the members outside Africa

- S. T. Ali:
 1. R. Deptula, *Coherent States Based on the Euclidean Group*, Concordia University, defended Dec. 2004.
 2. G. Honnouvo (with M. N. Hounkonnou, co-supervisor),
On Discrete Wavelets: Theory and Applications,
Concordia University.
 3. Tamara Diaz Chang (with V. Hussin, co-supervisor), *Coherent States from the Jaynes Cummings Model*, Université de Montréal.
- J-P. Antoine:
 1. Laurent JACQUES,
Ondelettes, Repères et Couronne Solaire, defended 21.06.2004.
 2. Samuel GISSOT,
Analyse du Mouvement dans les Séquences d'Images EUV de la Couronne Solaire.
 3. Samira BISKRI (UST H.Boumedi(r), Alger),
Techniques d'Analyse en Ondelettes et Applications en Géophysique.
 4. Eddy-Evian NTIRWIHISHA (U. du Burundi),
Analyse en Ondelettes et Applications á la Séismologie.
- J. Govaerts:
 1. Geoffrey Stenuit,
Configurations de vortex magnétiques dans des cylindres mésoscopiques supraconducteurs,
Université catholique de Louvain (Louvain-la-Neuve, Belgium), defended July 9th, 2004.
 2. Emilie Burton,
Evaluation numérique automatisée de diagrammes de Feynman à une et deux boucles,
Université catholique de Louvain (Louvain-la-Neuve, Belgium).
 3. Damien Bertrand,
Champs électromagnétiques et théorie de Ginzburg-Landau relativiste pour les supraconducteurs nanoscopiques: une extension covariante relativiste de la théorie BCS scalaire,
Université catholique de Louvain (Louvain-la-Neuve, Belgium).

4. Florian Payen,
Dynamique non perturbative et topologie en électrodynamique quantique à 2+1 et 3+1 dimensions,
Université catholique de Louvain (Louvain-la-Neuve, Belgium).
 5. Bruno Bertrand,
Topologie et dynamique non perturbative en Théories de Maxwell-Chern-Simons supersymétriques à 2+1 dimensions,
Université catholique de Louvain (Louvain-la-Neuve, Belgium).
 6. Jonathan Delepine,
Constante cosmologique et gravitation quantique,
Université catholique de Louvain (Louvain-la-Neuve, Belgium).
 7. Laure Gouba (with M.N. Hounkonnou, co-supervisor),
Théories de jauge en dimension deux,
Université d'Abomey-Calavi.
 8. Joseph Ben Geloun (with M.N. Hounkonnou, co-supervisor),
Modèle de Schwinger dans un espace-temps de dimension 1+1 non commutatif,
Université d'Abomey-Calavi.
- B. Piroux:
 1. G. Edah,
Description du Double Continuum de Deux Electrons Emis dans le Champ du Noyau,
Université d'Abomey-Calavi (2004), defended 08.07.2004.

1.9 AUTHORS' AFFILIATION

- S. T. Ali
Department of Mathematics and Statistics
Concordia University
7141 Sherbrooke Street West
Montreal, Quebec, Canada H4B 1R6
- J-P Antoine
Institut de Physique Théorique
Universit(c)atholique de Louvain
2, chemin du Cyclotron
B-1348 Louvain-la-Neuve
BELGIUM
E-mail : antoine@fyoma.ucl.ac.be
- G. Y. H. Avossevou
International Chair in Mathematical Physics and Applications (ICMPA)
072 B.P.: 50 Cotonou
Rep. of Benin
E-mail: avossevou@yahoo.fr and

Unité de Recherche en Physique Théorique
Institut de Mathématiques et de Sciences Physiques
B.P.: 2628, Porto-Novo
Rep. of Benin

- E. S. Azatassou
International Chair in Mathematical Physics and Applications (ICMPA)
072 B.P.: 50 Cotonou
Rep. of Benin
E-mail: azatassou2002@yahoo.fr and
Unité de Recherche en Physique Théorique
Institut de Mathématiques et de Sciences Physiques
B.P.: 2628, Porto-Novo
Rep. of Benin
- E. Baloitcha
International Chair in Mathematical Physics and Applications (ICMPA)
072 B.P.: 50 Cotonou
Rep. of Benin
E-mail: ezinvi_baloitcha@cipma.net or ezebalo@yahoo.fr
and
Center for Computational Chemistry
School of Chemistry
University of Bristol
Cantock's Close
Clifton, Bristol BS8 1TS
United Kingdom
- G. Edah
International Chair in Mathematical Physics and Applications (ICMPA)
072 B.P.: 50 Cotonou
Rep. of Benin
E-mail: g_edah@yahoo.fr
and
Unité de Recherche en Physique Théorique
Institut de Mathématiques et de Sciences Physiques
B.P.: 2628, Porto-Novo
Rep. of Benin
- G. Honnouvo
Unité de Recherche en Physique Théorique
Institut de Mathématiques et de Sciences Physiques
B.P.: 2628, Porto-Novo

Rep. of Benin
and
International Chair in Mathematical Physics and Applications (ICMPA)
072 B.P.: 50 Cotonou

Rep. of Benin
E-mail: g_honnouvo@yahoo.fr
and

Department of Mathematics and Statistics
Concordia University
7141 Sherbrooke Street West
Montreal, Quebec, Canada H4B 1R6

- M. Foupouagnigni
University of Yaoundé 1
Advanced School of Education
Department of Mathematics P.O. Box: 8422 Yaoundé
Cameroon
E-mail: fougouama@yahoo.fr or fougoua@uycdc.uninet.cm
- L. Gouba
International Chair in Mathematical Physics and Applications (ICMPA)
072 B.P.: 50 Cotonou
Rep. of Benin
E-mail: lrgouba@cipma.net or lrgouba@yahoo.fr
and
Unité de Recherche en Physique Théorique
Institut de Mathématiques et de Sciences Physiques
B.P.: 2628, Porto-Novo
Rep. of Benin
- J. Govaerts
Institut de Physique Nucléaire
Universit(c)atholique de Louvain
2, chemin du Cyclotron
B-1348 Louvain-la-Neuve
BELGIUM
E-mail : jan.govaerts@fynu.ucl.ac.be
- C. Hounga
International Chair in Mathematical Physics and Applications (ICMPA)
072 B.P.: 50 Cotonou
Rep. of Benin
E-mail: berhounga@yahoo.fr
and
Unité de Recherche en Physique Théorique

Institut de Mathématiques et de Sciences Physiques
B.P.: 2628, Porto-Novo
Rep. of Benin

- E. Hounninou
International Chair in Mathematical Physics and Applications (ICMPA)
072 B.P.: 50 Cotonou
Rep. of Benin
E-mail:
and
Département de Physique
Faculté des Sciences et Techniques (FAST)
Université d'Abomey-Calavi
B.P.: 526, Cotonou
Rep. of Benin
- M. N. Hounkonnou
International Chair in Mathematical Physics and Applications (ICMPA)
072 B.P.: 50 Cotonou
Rep. of Benin
E-mail: norbert_hounkonnou@cipma.net or hounkonnou@yahoo.fr
and
Unité de Recherche en Physique Théorique
Institut de Mathématiques et de Sciences Physiques
B.P.: 2628, Porto-Novo
Rep. of Benin
- Yves Justum
Laboratoire de Chimie Physique, UMR 8000
Université Paris-Sud
Batiment 490
91405 Orsay
France
Phone: (33) 1 69 15 44 40
Fax: (33) 1 69 15 44 47
Email: Yves.Justum@lcp.u-psud.fr
- A. D. Kanfon
International Chair in Mathematical Physics and Applications (ICMPA)
072 B.P.: 50 Cotonou
Rep. of Benin
E-mail: kanfon@cipma.net or kanfon@yahoo.fr
and

Unité de Recherche en Physique Théorique
Institut de Mathématiques et de Sciences Physiques
B.P.: 2628, Porto-Novo
Rep. of Benin

- David Lauvergnat
Laboaratoire de Chimie Physique, UMR 8000
Université Paris-Sud
Batiment 490
91405 Orsay
France
Phone: (33) 1 69 15 44 44
Fax: (33) 1 69 15 44 47
Email: David.Lauvergnat@lcp.u-psud.fr
- Alfred Z. Msezane
Department of Physics and Center for Theoretical Studies of Physical Systems (CTSPS)
Clark Atlanta University
223 James P. Brawley Drive
S.W., Atlanta, Georgia 30314
Phone: (404) 880-8663
Fax: (404) 880-8360
Email: amsezane@ctsps.cau.edu
- K. Sodoga
International Chair in Mathematical Physics and Applications (ICMPA)
072 B.P.: 50 Cotonou
Rep. of Benin
E-mail: ksodoga@cipma.net or ksodoga@yahoo.fr
and
Unité de Recherche en Physique Théorique
Institut de Mathématiques et de Sciences Physiques
B.P.: 2628, Porto-Novo
Rep. of Benin

1.10 VISITING SCIENTISTS FROM ABROAD

1. Prof. Bernard Piraux, (Catholic University of Louvain, Louvain-la-Neuve, Belgium).
2. Prof. S. T. Ali, (Concordia University, Montreal, Canada).
3. Dr. Hans-Peter Thamm, (University of Bonn, Germany).
4. Prof. S. Dossou-Gbété, (Université de Pau, France).
5. Dr D. Batossi, (France).

6. Prof. K. Tchakpélé, (Université de Lome, Togo).
7. Prof. T. Assih, (Université de Lome, Togo).
8. Dr M. Gosset, (LTH, Grenoble, France).
9. Prof. A. Banyaga, (Pennsylvania State University, USA).
10. Mr A. Agim Oketchuku, (University of Lagos, Nigeria).
11. Mr M. Aina, (Université de Limoges, France).

2 FINANCIAL REPORT

2.1 ICMPA GRANTS PROGRAMME FOR UNDERGRADUATE STUDENTS 2004

This programme intends to help the best undergraduate students with limited means and who need assistance to pursue their studies in African Universities. For 2004, this programme has permitted to support 6 students of the Université d'Abomey-Calavi. The 2004 fellows are:

1. Alia Didier Yelognissé (Benin);
2. Anago E. K. Romual (Benin);
3. Faton Elfried Grita Fifa (Benin);
4. Godonou S. Parfait (Benin);
5. Houngbénon Parfait (Benin);
6. Osséni Rachidi (Benin).

The ICMPA Grants Programme for Undergraduate Students (The ICMPA-GPUS) is currently sponsored by Professor Odon Vallet Foundation (France).

2.2 ICMPA RESEARCH FELLOWSHIPS 2004

In 2004, due to lack of financial resources, this programme has not been well accomplished. Only limited actions have been developed in benefit of Ph.D students of the Institut de Mathématiques et de Sciences Physiques and local researchers from University of Abomey-Calavi. These actions have mainly consisted in acquiring computer facilities. Besides, the stay at the ICMPA of the following two foreign Ph.D students have been partly supported (rooms):

1. Ben Geloum Joseph from Senegal and
2. Anjorin Aderibigbe from Nigeria.

Dr Hubert Onibon from Benin has benefited of a postdoral position. The ICMPA Research Fellowships 2004 has been sponsored mainly by the Daniel Iagolnitzer Foundation and by the Institut de Recherche pour le Développement (IRD, France)

2.3 ICMIPA TRAINING PROGRAMS 2004

The ICMIPA training programs have been financed, in terms of grants for students, in 2004 by the following sponsors:

1. UNESCO;
2. Service de Cooperation et d'Action Culturelle (SCAC, French Embassy, Cotonou)

The following students have been granted in 2004:

For UNESCO grants:

1. Afouda Eric (Benin) and
2. Nounawon Parfait (Benin);

For SCAC grants :

1. Alamou Eric (Benin).