

# 1 2004 PREPRINTS - INTERNAL REPORTS

## 1.1 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 Quintescence 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)

## 1.2 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.