

CURRICULUM VITAE

ALNADHIEF HAMED AHMED ALFEDEEL

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PERSONAL DETAILS

Gender: Male
Date of birth: 25th of March, 1979
Place of birth: Sudan
Present Citizenship: Sudanese
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EDUCATION

08/2009-06/2013 PhD in Applied Mathematics (Cosmology) at University of Cape Town, South Africa.
Thesis Title: *The impact of Inhomogeneity on the Analysis of Cosmological Data*; Supervisor: Associate Professor. Charles Hellaby.

07/2007-07/2009 Master of Science in Applied Mathematics (Cosmology) at University of Cape Town, South Africa.
Thesis Title: *Observations in Inhomogeneous Cosmology and the Cosmic Mass*; Supervisor: Associate Professor. Charles Hellaby.

08/2006-06/2007 Postgraduate Diploma in Mathematical Sciences at African Institute for Mathematical Sciences (AIMS) collaborated with University of Cape Town, South Africa.
Specialization: Cosmology and Gravity.
Thesis Title: *Emergent phenomenon and Analogue Gravity* ; Supervisor: Dr. Jeff. Murugan.

12/2000-10/2005 Undergraduate Studies in Physics (Honors first class) at University of Khartoum, Sudan.

EMPLOYMENT

Assistant Professor at University of Khartoum, Faculty of Science, Department of Physics, Khartoum, Sudan.

Assistant Professor at Napata College University, Department of Basic Science, Ryadh-Khartoum, Sudan.

Part-timer lecturer at University of Shendi, College of Science and Technology, Shendi, Sudan.

Part-timer lecturer at Al-Neelain University, Science and Technology College, Department of Mathematical Sciences, Khartoum, Sudan.

WORKING EXPERIENCE

09/2013–Up to date Teaching Special Functions, Integral Transforms, Linear Algebra, Statistical Mechanics, Atomic Physics, Heat, Quantum Mechanics I, Quantum Mechanics II, Optics and electromagnetic theory courses to the students of Physics at Khartoum University, Sudan.

10/2014–Up to date Teach A course in Electromagnetic Theory (EMT) and Quantum Physics to the student of Science and Technology College, Department of Mathematical Sciences at Al-Neelain University, Khartoum, Sudan.

15/2015–Up to date Teaching a course in Basic Mathematic, Calculus I, Matrix and Linear Algebra, and Calculus II to the student of Information Technology at Napata College Unversity, Khartoum-Ryadh, Sudan.

02/2014–4/2014 Teach A course in Calculus I and II to the student of Physics and Mathematics at Shendi University, Shendi, Sudan.

04/2013–4/2014 Teach Vector Analysis course to the Student of Physics at University of Khartoum and Shendi University, Sudan.

01/2013–4/2014 Teaching A course in Optics and LASER Physics, to the students of Shendi University, Shendi, Sudan.

07/2009–10/2012 Teaching A course in Ordinary Differential Equations, Complex variables and its Applications and Tensor Calculus for Extended Honor Program (EHP) students, National Astromony and Space Science Program (NASSP), University of Cape Town, South Africa.

07/2007–01/2012 Part-Timer Tutor: Working as a tutor in Applied Mathematics Department at University of Cape Town, South Africa.

11/2005–07/2006 Part-Timer Tutor: Working as a tutor in Physics Department at University of Khartoum, Khartoum, Sudan.

ATTENDED CONFERENCES

5-12 July, 2013, work period on Applied Mathematics, Al-Neelain. University, Khartoum, Sudan.

15-20 December, 2012, the 20th Texas Symposuim on Relativistic Astrophysics, Sao Paulo, Brazil.

1-15 December, 2011 The Cape Town international Cosmol-
ogy school at University of Stallenbosch, Cape Town, South
Africa.

12-13 September, 2011 SOUTH AFRICAN GRAVITY SO-
CIETY (SAGS) conference, At Rhodes University, Graham
stown, South Africa.

6-7 April, 2009 SOUTH AFRICAN GRAVITY SOCIETY
(SAGS) conference, University of Kwazulu Natal, South Africa.

LIST OF PUBLICATIONS

Solving The Observer Metric

C. Hellaby and Alnadhief H.A. Alfedeel
published at Physical Review D, **79**-04501

The Lemaître Model and the Generalisation of the Cosmic Mass

Alnadhief H.A. Alfedeel and C. Hellaby
published at GERG Journal **42** - 1935

The Metric of the Cosmos from Luminosity and Age Data

Krzysztof Bolejko, Charles Hellaby, Alnadhief H. A. Alfedeel
published at the JACP09(2011)01

The Null Cone Observations in Lemaître Metric

Alnadhief H. A. Alfedeel and Charles Hellaby
To be published

Electrodynamics in Riemannian space with Torsion

Alnadhief H. A. Alfedeel and Arbab I. Arbab
To be published

Inverse Problem In Lemaître model

Alnadhief H. A. Alfedeel
In progress

AWARD AND PRIZES

Student Prize for the best talk at the SOUTH AFRICAN GRAVITY SOCIETY (SAGS) conference 6–7 April, 2009, Durban.

LANGUAGE KNOWLEDGE

Arabic	native
English	second language

REFERENCES

These persons are familiar with my professional qualifications and my character:

- **Assoc. Prof. Charles Hellaby**
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Qassim University, Kingdom of Saudi Arabia.
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- **Dr. Jeff Murugan**
PGD Essay supervisor
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