



THE TECHNICAL UNIVERSITY OF KENYA

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NAME: PROF PAUL BAKI OLANDE

FACULTY: APPLIED SCIENCES AND TECHNOLOGY

SCHOOL: PHYSICAL SCIENCES AND TECHNOLOGY

DEPARTMENT: PHYSICS AND SPACE SCIENCE

CURRENT DESIGNATION: PROFESSOR

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CONSULTATION HOURS: 8AM-5PM MON - FRI



EDUCATION

QUALIFICATION	AREA OF SPECIALIZATION	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	PHYSICS	UNIVERSITY OF NAIROBI (KENYA)	1999
Masters of Science (M.Sc.)	PHYSICS	UNIVERSITY OF NAIROBI (KENYA)	1994
Bachelor of Science (BSc)	SCIENCE	UNIVERSITY OF NAIROBI (KENYA)	1992

WORK EXPERIENCE

PERIOD	POSITION	INSTITUTION
2011 - 2015	ASSOCIATE DEAN	THE TECHNICAL UNIVERSITY OF KENYA (KENYA)
2014 - 2015	PROFESSOR	THE TECHNICAL UNIVERSITY OF KENYA (KENYA)
2010 - 2014	ASSOCIATE PROFESSOR	THE KENYA POLYTECHNIC COLLEGE (KENYA)
2012 - 2012	EXTERNAL EXAMINER	BUSITEMA UNIVERSITY (UGANDA)
2003 - 2009	SENIOR LECTURER	UNIVERSITY OF NAIROBI (KENYA)
2000 - 2003	LECTURER	UNIVERSITY OF NAIROBI (KENYA)
1995 - 1999	TUTORIAL FELLOW	UNIVERSITY OF NAIROBI (KENYA)
1993 - 1995	GRADUATE ASSISTANT	UNIVERSITY OF NAIROBI (KENYA)
1992 - 1994	OCCUPATIONAL HEALTH AND SAFETY OFFICER	MINISTRY OF LABOUR (KENYA)

GENERAL STATEMENT ON RESEARCH AREA(S)

SPACE PHYSICS, GENERAL RELATIVITY AND GRAVITATIONAL PHYSICS

SELECTED PUBLICATIONS

- *P.Baki Astronomy in the Cultural Heritage of African Societies*, Innovations in Astronomy Education, eds. Jay M. Pasachoff, Rosa M. Ros, and Naomi Pasachoff.

[Cambridge University Press, pp 288 \(2008\)](#)

- P. Baki A Geometric Representation of the Electromagnetic field in Finsler Spaces,
[Maseno Journal of Education, Arts and Science, 112\(2007\)](#)

- P. Baki *A Possible Electromagnetic Singularity in Finslerian Space-times*

[African Journal of Science and Technology, VOL.7, NO.2, 106\(2006\)](#)

- P. Baki Unification of Gravitation and Electromagnetism in a Relativistic Version of Finslerian Geometry,
[AFRICAN JOURNAL OF SCIENCE AND TECHNOLOGY, vol.3no.2, 101\(2002\)](#)

- P. Baki and J.O Malo Cauchy Analysis of the Linearized Antisymmetric Sector of the Massive Non Symmetric Gravitational Theory,
[J. Math, Phys. vol.17, No 40, 3439 \(1999\)](#)

- "**P. Baki**, Contribution of Space Science in the Improvement of Quality of Life.". In: Proceedings of the Kenya National Academy of Sciences. Heinrich ... [National Symposium on science technology and society, july 2006- in press](#)

- **P. Baki** , SPH 101: Mechanics I, A peer reviewed Physics lecture module for distance learners." [In: published by University of Nairobi.](#)

CURRENT POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
Joyce W. Thairu	The Neutrino See Saw Mechanism in the Baryon Asymmetry in the Universe, MSC dissertation,	2006
Nzioki Anne Marie	The Large Scale Structure and Dark Matter in the Evolution of the Universe, MSC Dissertation,	2006

PROFESSIONAL AFFILIATIONS AND SOCIETIES

MEMBER, KENYA NATIONAL ACADEMY OF SCIENCES

ASSOCIATE MEMBER, COMMITTEE ON SPACE RESEARCH

MEMBER, WORKING GROUP ON SPACE SCIENCES IN AFRICA

MEMBER, UNIVERSITIES ACADEMIC STAFF UNION

CHAIRMAN, TECHNICAL SUBCOMMITTEE ON SQUARE KILOMETRE ARRAY, NATIONAL COUNCIL OF SCIENCE AND TECHNOLOGY, KENYA