



THE TECHNICAL UNIVERSITY OF KENYA

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NAME: PROF PAUL BAKI

Faculty:	Applied Sciences and Technology
School:	PHYSICS AND EARTH SCIENCES
Department:	TECHNICAL AND APPLIED PHYSICS
Current Designation:	Professor, PHYSICS AND SPACE SCIENCES
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Consultation Hours:	8AM-5PM MON - FRI



EDUCATION

LEVEL	QUALIFICATION NAME	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	INSTITUTION	POSITION
2014 - To date	THE TECHNICAL UNIVERSITY OF KENYA	PROFESSOR
2010 - 2014	THE KENYA POLYTECHNIC UNIVERSITY COLLEGE	ASSOCIATE PROFESSOR
2009 - 2010	UNIVERSITY OF NAIROBI	ASSOCIATE PROFESSOR
2003 - 2009	UNIVERSITY OF NAIROBI	SENIOR LECTURER
2000 - 2003	UNIVERSITY OF NAIROBI	LECTURER
1995 - 1999	UNIVERSITY OF NAIROBI	TUTORIAL FELLOW
1993 - 1995	UNIVERSITY OF NAIROBI	GRADUATE ASSISTANT
1992 - 1994	MINISTRY OF LABOUR	OCCUPATIONAL HEALTH AND SAFETY OFFICER

GENERAL STATEMENT ON RESEARCH AREAS

SPACE PHYSICS, GENERAL RELATIVITY AND GRAVITATIONAL PHYSICS

CURRENT RESEARCH PROJECTS

Space Weather Effects and Impact on Technological Systems	Space Physics
Zero Gravity Research	Human Space Technology Initiative

SELECTED PUBLICATIONS

TITLE	LINK TO PULICATION
<i>P.Baki Astronomy in the Cultural Heritage of African Societies</i> ,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 <i>A Possible Electromagnetic Singularity in Finslerian Space-times</i>	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 Symertic 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.

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
Olwendo J.O	Ph.D	2010- 2014

PROFESSIONAL AFFILIATIONS AND SOCIETIES

TITLE	INSTITUTION
MEMBER	KENYA NATIONAL ACADEMY OF SCIENCES
ASSOCIATE MEMBER	COMMITTEE ON SPACE RESEARCH
MEMBER	WORKING GROUP ON SPACE SCIENCES IN AFRICA
MEMBER	UNIVERSITES ACADEMIC STAFF UNION
CHAIRMAN	TECHNICAL SUBCOMMITTE ON SQUARE KILOMETRE ARRAY,NATIONAL COUNCILOF SCIENCE AND TECHNOLOGY,KENYA