Ashraf Abdelrahman Assadig

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Education

30-07-2016 - 23-08-2016
Online Course
Georgia Institute of Technology
Material Behavior

03-07-2016 - 29-07-2016
Online course
Solar Energy International
RE100: Introduction to Renewable Energy

15-08-2015 - 29-06-2016
MASTERS
African Institute for Mathematical Sciences (AIMS-Cameroon)
Master in Mathematical Sciences

10-02-2013 - 14-02-2013
Training course
Sudan Atomic Energy Commission (SAEC), Khartoum (Sudan)
Basic radiation safety training course

01-09-2007 - 30-08-2012
B.Sc (Hons)
University of Khartoum, Faculty of Science, Department of Physics
B.Sc (Hons) in Physics

Work History

23-11-2016 - up-to-date
Lecturer, Physics Department
University of Medical Science and Technology (Sudan)

01-09-2013 - 29-06-2015
Teaching Assistant
University of Medical Science and Technology (Sudan)
Teaching physics experiments,
Tutorials,
Academic adviser.

Skills

Languages Skills

Mother tongue: Arabic

Other languages: English, IELTS band 6.0

Job related skills

Fair knowledge of programming language (python) and typing programming(Latex), in addition to other software used in solar energy, mathematics and statistics such as HOMER, Sage, R,....

Communication skills

Good communication skills gained through my experience as Teaching Assistant and excellent contact skills, one of my jobs duties was an academic adviser.

Research experiences and interests

Proposed off-grid stand alone hyper system in Khartoum, Sudan (Ongoing research)

This work suggests an off-grid stand alone system of renewable energy for a proposed building in Khartoum Sudan. We are attempting to utilize the considerable solar energy available in Sudan by proposing a module for a building in Khartoum, Sudan.

On some bosonic fields with particle properties: Klein-Gordon formulations and their quantaisation.

My master degree essay. It studies sine-Gorgon and phi-4 fields seeking their mathematical formulation as well as their particle-like properties.

Triple-photon decay in electron-positron pair annihilation.

It was my bachelor essay, in which I used python programming language to simulate electron-positron pair annihilation considering the triple photon emission.

Research interests

Material science (material for solar cells), renewable energy (Solar energy), Nuclear physics and theoretical physics.

Publications

Simulation of a triple-photon decay in electron-positron pair annihilation, Advances in Applied Science Research, 2014, 5(5):213-225

Abstract

Electron-positron annihilation is a fundamental process, when an electron and a positron collide in free space; the energy-momentum conservation requires that the annihilation takes place with the emission of at least two photons. In this work a simulation of the triple-photon decay in electron-positron pair annihilation was created and the result was compared with the experimental results.

Referees

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