



CURRICULUM VITAE

I. Personal Data

Name: Zoalnoon Ahmed Abeid Allah Saad

Academic Rank: Assistant Professor

Nationality: Sudanese

Languages: Arabic & English

Date of Birth: 01/01/1984

Current Contact Information:

King Khalid University, College of Arts & Sciences. Dhahran Al Janoub, Department of Physics.

Permanent Contact Information:

Shendi University, College of Science, department of Physics, Nile Valley, Shendi, Sudan.

II. Academic Qualifications

1. PhD, Sudan University of Science & Technology, Sudan, Khartoum.
2. M.Sc., Sudan University of Science & Technology, Sudan, Khartoum.
3. B.Sc., Omdurman Islamic University, College of Science & Technology, Khartoum

III. Employment History:

1. Assistant Professor, King Khalid University, Saudi Arabia 2017- present.
2. Assistant Professor, Shendi University, Sudan, River Nile Stat 2016-2017.
3. Assistant Professor, Al Butana University, Sudan, Gezira State 2016-2017.
4. Lecturer, Shendi University, Sudan, River Nile State 2015– 2016.
5. Lecturer, Sudan University of Science & Technology 2013-2015.

IV. Research Interests:

1. Nuclear Physics
2. Particle physics
3. Quantum Field Theory
4. Cosmology



5. **Nanoparticles**
6. **Optical properties of nanostructure**
7. **Nanotechnology**
8. **High-energy physics.**

V. Research Publications

A. Ph.D. Thesis:

The Momentum Perturbation of String Theory

M.Sc. Thesis:

Theoretical & Experimental Results of Higgs Boson and the effect of Einstein Generalized Lagrangian on it

Published papers:

My research involves Quantum Field and Cosmology. This is why our group publishes multi-authored papers. In addition to being responsible for perturbation Theory and String Theory, has also been utilized in these publications. Based on Web of Sciences metrics, my papers have many citations.

1. Allah, A., & Ahmed, Z. (2013). Theoretical & Experimental Results of Higgs Boson and the effect of Einstein Generalized Lagrangian on it (Master dissertation, Sudan University of Science and Technology).
2. Saad, Z. A. A. A. (2016). Standard Model & Quantum Theory Based on Momentum Perturbation (Doctoral dissertation, Sudan University of Science and Technology).
3. M Abdalgadir, H., Dirar, M., A Abeid Allah, Z., & M Abdalgadir, L. (2016). Second, order Lagrangian, electromagnetic field. Journal of Scientific and Engineering Research.
4. Saad, Z. (2016). Second Order Field Dependent Lagrangian & its Effect on Higgs Field. <http://www.Elixirpublishers.Com/index..>, (92), 39264-39265.
5. Abdelrahman Khalid, N., Dirar Abdallah, M., Ahmed Abeid Allah, Z., & Ahmed Elhour, S. (2018). LORENZ TRANSFORMATION FOR FREE SPACE AND FIELDS USING MAXWELL'S



EQUATIONS AND NEWTON'S LAWS. GLOBAL JOURNAL OF ENGINEERING SCIENCE AND RESEARCHES, 5(3), 80-85.

6. Dirar Abdallah, M., Abdelrahman Khalid, N., Ahmed Abeid Allah, Z., & Ahmed Elhour, S. (2018). MAXWELL EQUATION AND LORENTZ TRANSFORMATION IN A CURVED SPACE FOR FIELDS AND FREE SPACE ON THE BASIS OF MAXWELL'S EQUATIONS. Global Journal of Engineering Science and Researches, 5(3), 86-90.
7. Ahmed, A. M. K., Yousif, M. A. M., Kurawa, Z. M., Saad, Z. A. A. A., Makawy, S. S., Mohammed, M. I., ... & Mohamed, S. A. E. (2020). Determination of Photon and Elementary Particles Rest Masses Using Maxwell's Equations and Generalized Potential Dependent Special Relativity. Natural science, 12(8), 588-598.
8. Yousif, M. A. M., Ahmed, A. M. K., Kurawa, Z. M., Elnor, O. A., Yagoub, M. D. A. A., El-Tahir, I. M. E., ... & Saad, Z. A. A. A. (2020). Equivalence of String Classical and Quantum Energy beside Equivalence of Wave Packet and Relativistic Velocity in Euclidean and Curved Space. Natural Science, 12(07), 520.
9. Shirgawi, M. Y., Saad, Z. A. A. A., & Yagoub, M. D. A. A. (2022). The Gravitomagnetic and Field Magnetic Centrifugal Force Using Force and Four-Dimensional Potential Concepts. Natural Science, 14(3), 125-132.
10. Yousef, M. A. M., Alsubaie, A. S., Saad, Z. A. A. A., & Abd-Alla, M. D. (2022). Electronic Chips Acting as Capacitors or Inductors when Laser Act as Information Transmitter. East European Journal of Physics, (2), 141-152.
11. HassabAlla M. A. Mahmoud, L. M. Abdalgadir, Zoalnoon Ahmed Abeid Allah, Mubarak Dirar Abdallah, Derivation of Time and Spatial Decaying of Schrodinger Equation Using Maxwell Electric Equation to Describe Scattering in Some Physical Systems, NeuroQuantology [June2022] Volume20| Issue6 | Page1607-1616 |doi: 10.14704/ nq.2022.20.6.NQ22156

VI. Teaching experience

Undergraduate courses taught at KKU:

1. **Phy211: General Physics**
2. **Phy232: Wave & Vibrations**
3. **Phy326: Electromagnetic Theory_1**



4. Phy331: Electromagnetic Theory_2
5. Phy330: Light & Optics
6. Phy343 Statistical Physics
7. Phy351 Mathematical Physics_2
8. Phy456 Quantum Physics_2
9. Phy461: Atomic physics & Spectra
10. Phy481: Nuclear Physics_1
11. Phy482: Nuclear Physics_2
12. Phy483: Nuclear Physics Practical
13. Phy491: Special Topics
14. Phy492: Graduation Project

VII. Teaching Philosophy:

My teaching strategy and Philosophy are centered on teaching the dynamic processes of physics specifically in theoretical nuclear sciences. My teaching also based on action learning process based of the use of the real regional and global problems related to different disciplines of physics and means of problems solving solutions. The action learning is one of the educational process by which a person studies his or her own action and experience to improve performance by solving and finding solutions of some problem related to the subject. In addition, I have used examples to actual global problems in reference to our current knowledge and designed research for undergraduate and graduate projects. I believe that this philosophy of teaching has enabled me to reach the students in their understanding the value of the subject. I always try to provide knowledge to the students at an international level and encourage them to enjoy learning science through critical thinking enabling them to solve puzzles and problems related to their team with close guidance while conducting experiments inspiring and guiding them to exploit their knowledge in the use of available resources whenever possible. Such mode of active learning has always motivated the student to utilize valuable information for their future careers. The primary challenge in my teaching approach is devising new and creative ways to design research project. This approach is intended to create interest among student so that they are eager to find new means and ideas to their overall understanding of current problems in our region for possible solutions. In addition, my goal is also for continuous improvement of my courses by incorporating the use of multimedia including on-line web based applications and use of computer software to enhance the learning experience of the students. This interactive process of teaching is perhaps the most rewarding part of my work.