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WORK EXPERIENCE

Faculty of Science, Benha University.

Feb, 2009 — July, 2013

Demonstrator at Physics Department.

Faculty of Science, Benha University.

July, 2013 — April, 2017

Assistant Lecturer at Physics Department.

Faculty of Science, Benha University.

April, 2017 — till now.

Assistant Professor at Physics Department.

QUALIFICATIONS

Current positions

Assistant Professor, Department of Physics, Faculty of Science, Benha University, Egypt.

Areas of specialization

Theoretical Physics, High Energy Physics, Quantum Gravity Phenomenology.

Appointments held

1. B. Sc degree of Physics with general grad Excellent with honor at Faculty of Science, Benha University (2008).
2. Master of Science prelim "Theoretical physics" 2009 at Faculty of Science, Benha University.
3. M. Sc degree in Theoretical Physics at Faculty of Science, Benha University entitled "A study on The Thermal Properties of The Quark- Gluon Plasma" (2013) .
4. PhD. degree in Theoretical Physics at Faculty of Science, Benha University entitled "Phenomenological Aspects of Quantum Theory of Gravity" (2017).

Publications

1. "A study on quark-gluon Plasma equation of state using generalized uncertainty principle" N. M. El Naggari, L.I. AbouSalem, I. Elmashad, Ahmed Farag Ali. Journal of Modern Physics, 2013, 4 , 13-20 [doi:10.4236/jmp.2013.44A003].
2. " Quantum Gravity effect on the Quark-Gluon Plasma" I. Elmashad, A. F. Ali, L.I. Salem, JUnNabi , A. Tawfik, SOP Trans.Theor.Phys. 1 (2014) 1-6. e-print: arXiv:1208.4028 [hep-ph].

3. "The Quark-Gluon Plasma Equation of State and the Generalized Uncertainty Principle" L. I. Abou-Salem, N. M. El Naggar, and I. A. Elmashad, Advances in High Energy Physics, 103576 (2015).
4. "Generalized Dirac structure beyond the linear regime in graphene" A. Iorio, P. Pais, I. A. Elmashad, A. F. Ali, Mir Faizal, and L. I. Abou-Salem [arXiv:1706.01332] [physics.gen-ph], International Journal of Modern Physics D Vol. 27, No. 8 (2018) 1850080.
5. "Testing the Core-Cluster Model Calculations for Some Heavy Deformed Nuclei" L. I. Abou-Salem, K. E. Abdelmageed, I. A. Elmashad, and R. Al Allam (2019) (Submitted for publishing).

Academic Teaching

I have a good experience in teaching both practical and theoretical courses for undergraduate students like:

1. Teaching the Physics Laboratories (Ph 180, Ph 181,etc).
2. Teaching assistant in Quantum Mechanics (Ph 311, Ph 411).
3. Teaching Quantum Mechanics (Ph 311 and Ph 411) for third year students and Applied Physics for first year students.
4. Teaching Principles of Modern Physics Ph 225 for second and third year students.
5. I am a general supervisor to the second year labs. for optics and sharing in its development by applying a new and modern experiments.
6. Teaching for first year students for Faculty of Science- Benha University, Faculty of Veterinary Medicine- Benha University, Faculty of Computers and Informatics- Benha University, Faculty of Education- Benha University (from first to fourth year students) and Faculty of Pharmacy- Zagazig University.

Conferences and Workshops

1. I am a participant at the ECTP international conference on "Primordial QCD Matter in LHC Era Implication of QCD results on the early universe" Dec 4- 8, 2011 Cairo- Egypt.
2. I am a participant at "Third International High Energy Physics School" in Cairo University (Opening and Lecture Sessions) and British University in Egypt (Training and Closing Sessions) April 26- May 3, 2012.
3. I am a participant at the ECTP international conference on "Primordial QCD Matter in LHC Era" Feb 10- 14, 2013 Cairo- Egypt.
4. I am a participant at "German-Egyptian School of Particle Physics" Feb 24-28, 2013 at Zewail City of Science and Technology.
5. I am a participant at "The 1st School in Plasma Physics" April 27-29, 2016 Port Said, Egypt.

Computer Skills

Have a good knowledge of Programming with FORTRAN, Mathematica, MS Office and LATEX.

Foreign Languages

International English Language testing System (IELTS) Band Score: **5.5**

INTERESTS

My research area is Theoretical Physics. More specifically, I am interested in Quark-Gluon Plasma QGP state of matter and its thermodynamic properties. I studied the Quantum Gravity effect on many topics like quark-gluon plasma and the Dirac equation which are used in the description of a new material of practical interest like

Graphene. Also, my research is focusing on studying the possible restrictions on the generalized uncertainty principle GUP different models and their results on some low energy phenomena. Now, i am interested in studying electrical and magnetic properties in Graphene.

EDUCATION

B. Sc degree of Physics with general grad Excellent with honor.

2004 — 2008

Faculty of Science, Benha University.

Master of Science prelim "Theoretical physics"

2008 — 2009

Faculty of Science, Benha University.

M. Sc degree in Theoretical Physics

2010 — 2013

Faculty of Science, Benha University.

PhD. degree in Theoretical Physics.

2014 — 2017

Faculty of Science, Benha University.

REFERENCES

Prof. Dr. Loutfy Ibrahim Abou Salem

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