Faisal Sayed

MASTER STUDENT

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Education _____

Assiut University MASTER OF SCIENCE, PHYSICS • Area of Specialization: Space Plasma Physics • Thesis: Electrostatic ion acoustic waves at plasma environme • Supervisor: Prof. Waleed Moslem	ent of lower ionosphere of Venus	Asyut, Egypt Expected Mar. 2021
 Assiut University BACHELOR OF SCIENCE, PHYSICS Honors thesis: Invariance of Maxwell's Equations under Lore Academic supervisor: Dr. Sherif Rashad Cumulative GPA: 3.60/4.00 	entz transformations	Asyut, Egypt Sept. 2012 – June. 2016
Teaching Experience		
Department of Physics, Faculty of Science, Assiut University TEACHING ASSISTANT • Teaching undergraduate student labs such as:		Asyut, Egypt Jun. 2017 – Present
 Mechanics Lab Thermodynamics Lab Electricity and Magnetism Lab Nuclear & radiation Physics lab 	 Light and Optics Lab Modern Physics Lab Physical Electronics Lab 	
This work included grading student reports and devising exams. introductory to advanced upper level	These tasks were performed for a rang	ge of class levels, from
• Tutoring topics in physics for science and engineering u	ndergraduates, including:	
MechanicsThermodynamics	Electricity and MagnetismLight and Optics	
at the level of Serway and Jewett's textbook Physics for Scientist Research Experience	-	
 Joint Institute for Nuclear Research THE FOURTH STAGE OF THE INTERNATIONAL STUDENT PRACE I attended a short course on modern cosmology and solved Friedmann model filled with radiation and dark energy. observational data 	d some problems on the evolution of	

Assiut University

GRADUATE RESEARCH

I am enrolled in the plasma physics master program since September 2019. My research interests are located in the fields of theoretical space plasma physics and involve theoretical modelling of the propagation of different waves and their instabilities in the planetary ionospheres and magnetospheres of the solar system

Assiut University

UNDERGRADUATE RESEARCH

• My graduation research project article titled "Invariance of Maxwell's Equations under Lorentz Transformations" was in the field of relativistic electrodynamics and discusses all the details that appear to require Maxwell's equations to be invariant under the Lorentz transformations can be derived from postulates different from what Einstein used. We start with Maxwell's equations and apply the relativity principle to them. With this approach, Special theory of relativity is reformulated in a mere form that has its dynamical applications without using the Lorentz transformations and its kinematical contradictions

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Asyut, Egypt Sept. 2019 – Present

Asyut, Egypt

Sept. 2015 – Jun. 2016

Publications

PUBLISHED

F S H Sayed, W M Moslem, R E Tolba, A A Turky, R A Koramy. Three-dimensional propagation of ion-acoustic waves in the plasma environment of the Venusian ionosphere. Physica Scripta, 95, 115603, 2020

F.S.H. Sayed, A.A. Turky, R.A. Koramy, W.M. Moslem. Nonlinear ion- acoustic waves at Venus ionosphere. Advances in Space Research 66, 1276, 2020

IN PREP

F.S.H. Saved, W.M. Moslem. Linear characteristics of ion-acoustic waves in the ionosphere of Venus. It is prepared to be submitted to Journal of Geophysical Research: Space physics

Conference presentations

Mar. 2019, Nonlinear analysis of ion acoustic waves at Venus ionospheres. 2nd One day conference (Downstream Research in Plasma Physics), held on the last day of the 5th Spring Plasma School which was held under the auspices of the British University in Egypt in Port Said, Egypt.

Oct. 2016, Invariance of Maxwell's equations under Lorentz transformations. The Fifth International Conference for Young Scientists in Basic and Applied Sciences held at Faculty of Science, Assiut University, Egypt

Schools, Workshops, & Conferences

May 2020 – Present, 6 th Biennial African School of Fundamental Physics and Applications	Marrakesh, Morocco
• 1 – 5 Mar. 2020, 5th Spring Plasma School (5th SPSP)	Port Said, Egypt
• 29 Aug. 2019, Advanced Summer Workshop of Physic	Zewail City, Egypt
 10 – 14 Mar. 2019, 4th Spring Plasma School (4th SPSP) 	Port Said, Egypt
• 28 Aug – 8 Sept. 2016, 3rd Summer School on Basic Physics	Zewail City, Egypt
• 6 – 7 Nov. 2015, SCITA Astrofans Conference	Cairo, Egypt
• 10 May. 2015, Relativity Day conference	Zewail City, Egypt
Awards, & Grants	

Awarus, & Grants

Nov. 2020 Jul. 2020 Jan. 2020	Assiut University award for scientific publishing, Assiut University Assiut University award for scientific publishing, Assiut University Academic Scientific Research and Technology (ASRT) Award, National Network of Nuclear Science (NNS)
Oct. 2016	The best graduate student oral presentation, The Fifth International Conference for Young Scientists in

Basic and Applied Science

Skills

A) Computer skills

- Numerical computation: Matlab Mathematica Maple
- Word/text processing software: LaTeX Scientific work place Microsoft Office
- **Programming:** Python

B) Languages

- **English** (proficient)
- Arabic (native)

References

- 1) Prof. Waleed Moslem
 - Physics Department, Faculty of Science, Port Said University &
- ⊠ wmmoslem@sci.psu.edu.eg 2) Prof. Bijan Saha
- Laboratory of Information Technologies, Joint Institute for Nuclear Research, Dubna, Moscow reg. Russia
 - **⊠** bijan64@mail.ru & 8 Bijan Saha

3) Dr. Sherif Rashad

- Physics Department, Faculty of Science, Assiut University
- **⊠** srmokhtar@aun.edu.eg & **Sherif Rashad MOKHTAR**

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