



Curriculum Vitae



Personal Information:

Name: Moataz Mostafa Ali Elkhateeb

(M. M. Elkhateeb)

Affiliation: Faculty of Science, Assiut University, Assiut, Egypt

Current Position: Lecturer of Mathematics

Degree: PhD. of Mathematics (Quantum Information) [2020]

Nationality: Egyptian

Date of Birth: 14th of December, 1988

Place of Birth: Assiut, Egypt

E-mail: m3tz@aun.edu.eg; moatzelkhateeb@gmail.com



Research Information:

Work Website: [Moataz Mostafa Elkhateeb | Faculty of Science \(aun.edu.eg\)](http://moatazmostafaalielkhateeb.com)

Google scholar: <https://scholar.google.com.eg/citations?user=hAVC5LcAAAAJ>

ORCID: <https://orcid.org/0000-0003-3404-5808>

Scopus ID: [57215597299](https://scopus.com/authorid/57215597299)

Research ID: [AAG-5090-2020](https://doi.org/10.1007/978-3-319-5090-2)



Education:

1. Bachelor of Science (Mathematics) Assiut University, Egypt, 2006-2009.
2. Master of Science (Scientific Computing), Assiut University, Egypt, 2010-2016.
3. PhD. of Science (Quantum Information), Assiut University, Egypt, 2016-2022.

Conferences:

1. The International Conference on Pure and Applied Sciences, Luxor, Egypt, March 28-30, 2015.
2. The One Day Conference in Mathematics, Faculty of Science, Assiut University, April 14, 2016.
3. The 7th International Conference on Mathematics and Information Sciences, Faculty of Science, Suhag University, February 15-17, 2018.
4. The 8th International Conference on Mathematics and Information Sciences, Cairo, February 8-10, 2019.
5. The 9th International Conference on Mathematics and Information Sciences, Faculty of Science, Aswan, February 6-8, 2020.

Top Skills:

- Research
- Presentations
- University Teaching
- Higher Mathematical Education
- MATLAB
- Winedit

Contribution to teaching the following courses:

- Quantum Mechanics, Quantum Optics, Analysis Mechanics, Applied Mathematics.
- Algebra (Introductory), Linear Algebra.
- Calculus, Advanced Calculus, Differential Equations (Ordinary and Partial).
- Analytical Geometry (Planar and Solid), Special Functions, Fourier and Laplace transformations.
- Computer Science and Programming Languages (Fortran, MATLAB Programs).

Related Professional Experience

➤ **Attained and satisfactorily completed the following training programs organized by the FLDC (Faculty and leadership development center) (<http://www.fldp.aun.edu.eg>):**

1. Student Evaluation, May 14-16, 2011.
2. Analytical and Creative Thinking, June 9-10, 2015.
3. Strategic Planning, June 13-14, 2015.
4. Research Ethics, September 1-2, 2015.
5. International Publishing of Research, September 1-2, 2015.
6. Communication Skills, September 20-21, 2015.
7. How to Activate the E-course, March 1-3, 2018.
8. Conference Organization, December 30-31, 2018.
9. Statistical Analysis in Scientific Research, January 8-9, 2019.
10. Credit Hour System, June 7-9, 2020.
11. Code of Ethics, June 7-9, 2020.
12. Publication of research in international journals, June 28-30, 2020.

Field of Interest

- Interaction between atomic system with some states of light.
- Influence of noise on quantum coherence and entanglement generation in quantum information
- Study of the dynamics of these real physical models with presence of quantum dissipation is an open point.
- The effect of the dissipation on the systems which have multi-level qubit.
- The effect of the dissipation on the systems which have multi two-level qubits.
- Quantum information and computation.

References:

1- Prof. Abdel-Shafy F. Obada

- Faculty of Science, Al-Azhar University (Cairo)
- Manchester Univ. UK 1994 D. Sc. - UMIST, Manchester, UK 1964-7 Ph.D. (Maths)
- Email: obada@mail.scu.eun.eg or obada75@hotmail.com

2- Prof. Abdel-Baset Abdel-Hameed Mohamed

- Faculty of Science, Assiut University, Assiut, Egypt Ph.D. (Maths)
- Email: abdelbastm@yahoo.com

3- Ass. Prof. Hosney A. Hessein

- Faculty of Science, Assiut University, Assiut, Egypt Ph.D. (Maths)
- Email: ammar_67@yahoo.com

4- Prof. Mahmoud M. Abdel-Aty

- Faculty of Science, Sohag University, 82524 Sohag, Egypt - D. Sc. And Ph.D. (Maths)
- Email: abdelatyquantum@gmail.com or abdelatyquant@yahoo.co.uk

Publication:

➤ International Refereed Journals:

2020

1. A.-S. F. Obada, A.-B.A. Mohamed, M. Hashem, and **M.M. Elkhateeb**, “Generating non-classical correlations between two superconductor qubits confined in a transmission cavity in dispersive limit under intrinsic noise”, *Physica E: Low-dimensional Systems and Nanostructures* **117**, 113854 (2020).
2. A.-S. F. Obada, A.-B.A. Mohamed, M. Hashem, and **M.M. Elkhateeb**, “Trace distance discord and Bell-function correlations beyond entanglement in two SC-qubits interacting with a dissipative SC-cavity”, *Laser Phys.* **30**, 055203 (2020).
3. A.-S. F. Obada, A.-B.A. Mohamed, M. Hashem, and **M.M. Elkhateeb**, “Dynamics of quantum coherence and entanglement in an intrinsic noise model of a V-type qutrit system interacting with a coherent field”, *Physica Scripta* **95**, 085101 (2020).
4. Abdel-Baset A. Mohamed, Mostafa Hashem, **Moataz M. Elkhateeb**, and Abdel-Shafy F. Obada, “Generating non-locality correlation via 2-photon resonant interaction of dissipative two-qubit system with coherent field”, *The European Physical Journal D* **74**, 130 (2020).

5. Abdel-Baset A. Mohamed, Mostafa Hashem, **Moataz M. Elkhateeb**, and Abdel-Shafy F. Obada, “Quantum dynamics of a qutrit in a cavity filled with Kerr-like medium and intrinsic noise”, *Modern Physics Letters A* **35**, 2050287 (2020).

2022

6. Abdel-Baset A. Mohamed, Mostafa Hashem, **Moataz M. Elkhateeb**, and Abdel-Shafy F. Obada, “Intrinsic decoherence effect on dynamics of a Lambda-type qutrit interacting nonlinearly with a coherent field”, *AEJ - Alexandria Engineering Journal* **61**, 2348 (2022).