





PERSONAL INFORMATION

Eshtiaq Hijaz



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<u>ehijaz@najah.edu</u>

Sex Female | Date of birth 01/05/1992 | Nationality Palestinian

STUDIES APPLIED FOR

Ph.D Position

WORK EXPERIENCE

August 2018 – present

• Lecturer, Department of Physics, An-Najah National University, Nablus, Palestine.

January 2014 - May 2015

 Teacher assistant, Department of Physics, An-Najah National University, Nablus, Palestine.

EDUCATION

2014-2016

• M.Sc. in Physics (**Honors - total average 3.92/4**), Thesis "The Magnetization of The (GaAs) double quantum dots in a magnetic Field ", An- Najah National University, Palestine.

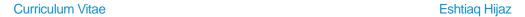
2010-2013

 B.Sc. in Physics (Honors - total average 4/4), An- najah National University,
Palestine.

2009-2010

 Palestinian National Certificate - the scientific stream (Tawjihi).

(Honors - total average 97.6%)





Mother language

Arabic

Other language

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	C2	B2	B2	C1

English

Computer skills

- Programming using Mathmatica (computer package).
- good command of Microsoft Office tools

ADDITIONAL INFORMATION

Field of Research Interest

Research interest in **Theoretical Condensed Matter (Nanostructures)** which emphasis on :

- The effects of Rashba orbit Interaction and applied magnetic field on the magnetic properties of donor impurity in a quantum ring.
- 2D-Materials (Silicene on Ferromagnetic Layers).
- Magnetic and thermal properties of the (GaAs) double quantum dots.

Awards & Honors

- Award of Deanship of Scientific Research for researches of the master thesis, 2018.
- Top M.Sc. student (Average 3.92/4), 2016.
- Top B.Sc. student (Average 4/4), 2014.

Scholarships

- M.Sc. Scholarship, An-Najah National University (2014-2016).
- B.Sc. Scholarship, An-Najah National University students (2010-2013).
- B.Sc. Scholarship, Ministry of Higher Education (2010).



Publications

- [1] Hjaz, E., Elsaid, M. K., & Elhasan, M. (2017). Magnetization of coupled double quantum dot in magnetic fields. *Journal of Computational and Theoretical Nanoscience*, *14*(4), 1700-1705.
- [2] Elsaid, M. K., & Hijaz, E. (2017). Magnetic Susceptibility of Coupled Double GaAs Quantum Dot in Magnetic Fields. *Acta Physica Polonica*, *A.*, *131*(6).
- [3] Hijaz, E., & Elsaid, M. K. (2018). The electronic states and magnetization of coupled AlGaAs/GaAs quantum dots in magnetic fields. *International Journal of Modern Physics B*, 32(02), 1850011.
- [4] Elsaid, M., Hjaz, E., & Shaer, A. (2017). Energy states and exchange energy of coupled double quantum dot in a magnetic field. *International Journal of Nano Dimension*, 8(1), 1-8.
- [5] Elsaid, M. K., Shaer, A., Hjaz, E., & Yahya, M. H. (2020). Impurity effects on the magnetization and magnetic susceptibility of an electron confined in a quantum ring under the presence of an external magnetic field. *Chinese Journal of Physics*, 64, 9-17.
- [6] Ayham, S., & Eshtiaq, H. (2019). The heat capacity of a semiconductor quantum dot in magnetic fields. *Наносистемы: физика, химия, математика*, 10(5).
- [7] Zaid, S. F. A., Shaer, A., Hjaz, E., Ali, M., & Elsaid, M. K.(2021). Pressure and Temperature Effects on the Magnetic Properties of Donor Impurities in a Gaas/Algaas Quantum Heterostructure Subjected To a Magnetic Field Jordan Journal of Physics. Jordan Journal of Physics14(3). Accepted



Conferences

1. Symposium on "Simulation – based Sciences and Engineering", Palestine Academy for science and Technology, Ramallah, Palestine, March 7-9, 2019. Presentation: The magnetic properties of (GaAs) Double Quantum Dots in a Magnetic Field.

2. Sixth Palestinian Conference on Modern Trends in Mathematics and Physics PCMTMP-V, Palestine Technical University Kadoorei, Tulkarm, Palestine, August 5-8, 2018.

Presentation: Magnetic Properties of Coupled Double GaAs Quantum Dot in Magnetic Fields.

3. Second Palestinian International Graduate Conference on Natural, Medical and Health Sciences and Humanities (SPIGCNMHSH 2017), An-Najah National University, Nablus, Palestine, April 20, 2017.

Presentation: Magnetic Susceptibility of Coupled Double GaAs Quantum Dot in Magnetic Fields.

- 4. Fifth Palestinian Conference on Modern Trends in Mathematics and Physics, Arab American University, Jenin, Palestine, July 31-August 2, 2016. Presentation: The Energy States and Magnetization of GaAS Double Quantum Dots in a Magnetic Field.
- 5. Second Palestinian International Conference on Material Science and Nanotechnology,

An-Najah National University, Nablus, Palestine, March 23-24, 2016.

Presentation: Energy spectra of double quantum dots by variational calculations.

Teaching Experience

- 1. Advanced Physics Lab
- 2. Geometrical and physical optics
- 3. Optics Lab
- 4. General Physics for life sciences
- 5. General Physics I
- 6. General Physics II
- 7. General Physics Labs (I & II)
- 8. General Physics Lab for Engineering College
- 9. General Physics for Students of Medicine and Life Sciences

References

Prof. Dr. Mohammad El-Said, An-Najah National University, Palestine, Tel:+972597036348.