PERSONAL INFORMATION

Eshtiaq Hijaz

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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	
English	B2	C2	B2	B2	C1

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.