Dr. Sondos Abbas Al-Marsumi

Contact Information:

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Baghdad, Al-Slaikh
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Specialization: Theoretical Physics

Academic Rank: Assistant Professor

Born: 1963

Educational Qualifications:

Bachelor's Degree in Physics
University: Al-Mustansiriya University
Year: 1985
Top of the class

Master's Degree in Physics (Molecular Physics)
College: College of Education, Al-Mustansiriya University
Year: 1990
Grade: Good

PhD in Physics (Theoretical Physics)
College: College of Science, Al-Mustansiriya University
Year: 1997
Grade: Very Good

Promoted to Assistant Professor in 2002.

Studies and Research:

1. Study of the interaction potential using the variation theory (non-relativistic case).
2. Study of the electrical properties of AC circuits that include neon, copper, and nickel elements.
3. Study of the mechanical growth mechanism of nanoplatelet crystals resulting from the doping of bismuth oxide with copper atoms, and their optical properties. Published in 2018.
4. Study of the properties of crystalline materials using nanotechnology techniques. Published in 2018.

Doctoral Research (1997-2002):

1. Study of the interaction potential using super-variation theory and Padé approximation technique:
   $x^2 + \lambda x^2 / 1 + g x^2$
2. Study of the ultrasound effects on polyethylene solutions at different temperatures.

Doctoral Thesis Title:

Study of the Shielding Factor of the Coulomb Barrier Potential in Calculating the Characteristic Energy Values of Different Atoms.

Academic Experience:

University Professor 1990-current

Head of the Physics Department at the College of Education and Applied Sciences in Arhab – University of Sana'a from 2007 to 2017

Courses taught:

Al-Mustansiriya University:

1. Atomic and Molecular Physics
2. Programming Languages: Fortran and Basic
3. Fundamentals of Electromagnetic Theory

University of Sana'a:

1. Quantum Mechanics
2. Laser Physics
3. Electromagnetic Theory
4. Nuclear Physics
5. Atomic Physics
6. Thermodynamics and Statistical Mechanics
7. Statistical Physics
8. Electric and Magnetic Physics

University Professor from 1990 to 2023.
Head of the Department of Physics at the College of Education and Applied Sciences in Arhab, University of Sana'a (2007-2017).