

CURRICULUM VITAE



Personal information

- **Personal**
 - Dr. ABDELLAOUI ASSIA
 - LECTURER A, PHYSICS department, University of Oum El Bouaghi, Algeria.
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- **Researcher identity**
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Education

- **Ph.D.'s degree** in theoretical physics (2006)
- **Master's degree** in theoretical physics (1999)
- **License's degree** in theoretical physics (1995)

Functions and Affiliations

- **Lecturer A att department of physics, Exact Sciences Faculty, University Larbi ben M'hidi, Oum el Bouaghi**.....
- **Head of Department of physics**,

Teaching modules

- 2003-2023: Quantum mechanics, Electromagnetic waves and relativity; Mechanics of the material point, Analytical mechanics; Nuclear physics; Particle phycis, English; French; history of science.
- 2002/2003: Mechanics II and Electricity II - T.D + T.P : 2nd DES physics.
- 2000-2002: Vibrations and Optical Waves - Course + T.D : 2nd TCT.
- 1999/2000: Vibrations and Optical Waves - T. D : 2nd TCT.
Analysis and Algebra : 1st D.E.U.A Mechanics.
- 1995/1996: Instrumentation - 3rd D.E.U.A Mechanics.
Electricity - T. P : 3rd ING Mechanical.

International publications

- A. Abdellaoui et F. Benamira, *Quantization of Liénard's nonlinear harmonic oscillator and its solutions in the framework of supersymmetric quantum mechanics*, Phys. Scr. 94 015201 (2019).

- F. Benamira et A. Abdellaoui, *Many-channel Landauer-like magneto-conductance formula in a uniform magnetic field*, Acta Physica Polonica A **4**, 122, (2012).
- A. Abdellaoui et F. Benamira, *Mesoscopic density-operator in a uniform magnetic field*, Physica Status Solidi C1, 12, 3769-3772, 2004.
- A. Abdellaoui et F. Benamira, *Mesoscopic Conductance in 4 probe setup*. (Université de Constantine) not submitted.
- F. Benamira et A. Abdellaoui, *Quantum fluctuations of the mesoscopic conductance in four terminal measurement*. (Université de Constantine). Not submitted.
- F. Benamira et A. Abdellaoui, *Correction terms to the limit of Van Hove of the density operator*. Not submitted.

Interests and Qualifications

— Interests:

- Statistical Physics Excluding Equilibrium and Condensed Matter Physics.
 - Transport phenomena in mesoscopic systems,
 - Quantum Hall effect,
 - Transport in the presence of spin,
- Quantum nonlinear oscillators.

Qualifications

- • Tutorial for 1st year students LMD-SM 2010/2011.
- Projection of the film "Fusion-the Core" to SM students (1st year and physics students) on Feb. 10, 2015 followed by a panel discussion by myself and professors and researchers from the physics and geology departments.
- Creation of "Bouillons de culture SC-Matière", a monthly educational activity with student contributions; published on the university website.
- Participation at cultural event : the 16 April "Knowledge Day" 2015, and the Light and Ibn el Haytham Year.
- Organization of LA MOUSABAKA in its first edition on 03 June 2015 to test sciences QI students knowledge.
- Head of the Fundamental Physics bechlor (LMD-SM) from December 2013 to September 2015.
- Opening of a bachelor's degree in "fundamental physics" in 2013 proved by the regional conference and by the MESRS department.
- • Creation of the e-Nour science club.