

Makhoute Abdelkader – Curriculum Vitae

University Professor

Physics of Radiation and Laser-Matter Interactions, Faculty of Sciences, Moulay Ismail University

B.P 11201, Meknes -Morocco

Phone: + 212 6 11 099 091 Email: makhoute@netcourrier.com

Personal data:

14/10/1963 Citizenship: Moroccan. Marital status: married, five children

Education and training

1987 Bachelor degree in Physics, Oujda, Morocco.

1988 MSc in Physics, Free University of Brussels, Belgium.

1989 ERASMUS European Diploma, Paris-Sud University, Orsay-France

1991 PhD in Science, Free University of Brussels, Belgium

Research and professional experience

1992-1996 Lecturer, MIU, FS, Meknes-Morocco; Since 1997 Professor of Universities, MIU, FS, Meknes-Morocco; 2018-2022 Director of the Laboratory 'Complex System Dynamics and Numerical Simulation, MIU, FS, Meknes-Morocco; 2007-2016 Coordinating of Laser and Nanophysics Master's, MIU, FS, Meknes-Morocco; Since 2006 Head of Unit of Training and Research in Physics of Radiation and Laser-Matter Interactions, MIU, FS, Meknes-Morocco; 1996-2005 Head of Unit of Training and Research in Atomic, Molecular Physics and Applied Optics, MIU, FS, Meknes-Morocco; 2004-2011 Regular associate researcher, International Centre for Theoretical Physics, Trieste, Italy; 2009-2012 Coordinator of the Inter-University Cooperation Agreement between the MIU and the 'Universit degli Studi di Palermo', Dipartimento di Scienze ed fisiche Astronomiche, Palermo, Italy; 1992-2002 Coordinator of the Inter-University Cooperation Agreement between the MIU (Meknes-Morocco) and Free University of Brussels (Brussels-Belgium); Since 1995 Coordinator of the Inter-University Cooperation Agreement between the MIU (Meknes-Morocco) and Pierre and Marie Curie University, Paris VI –France; 1994-1996 Responsible of the Bachelor's Degree in Applied Sciences, MIU, FS, Meknes-Morocco.

Awards and Honors (most important only)

- Award of distinction 'one of the best researchers in Africa', Cotonou- Benin, 1999.
- Regular Associate of "The Abdus Salam International Centers for Theoretical Physics" from January 1, 2004 to December 31, 2011'.
- Among best 'referee' of year 2006 of 'Optical Letters', Optical Society of America, USA.
- Grade (A to B) advancement of Research-Professors of the Faculty of Sciences - Meknes over scientific dossier: exceptional, first rank, in 2002.
- Grade (B to C) advancement of Research-Professors of the Faculty of Sciences - Meknes over scientific dossier: exceptional, first rank, in 2008.

Directions and animation

- President, referee and jury member of *more than fifty* theses.
- Regular Member of the International Chair in Mathematical Physics and Applications, Cotonou, Bénin.
- Referee of Journal of Physics B: Atomic, Molecular and Optical Physics, IOP, UK.
- Referee of "Physical Science International Journal- SCIENCEDOMAIN international" selection committee.
- Member and Referee of "Optical Society of America" selection committee.
- An Active member of the "New York Academy of Sciences".
- Member and Referee of the "Physical and Chemical News" selection committee.
- Member of the "Journal Maghrébin de Physique" selection committee.
- Member of Scientific Committee and technical program committee of several international scientific meetings (Conferences, workshops ...)
- Course mission (Programme d'échanges inter-universitaires africains de l'AUPELF-UREF) of Master's Degree of Physic-Sciences, National University of Benin, Institute of Mathematics and Physical Sciences, Porto-Novo, Republic of Benin (1998).
- Two course-research missions (The Abdus Salam ICTP Visiting Scholar programme) of Master's Degree of Physic-Sciences, National University of Benin, Institute of Mathematics and Physical Sciences, Porto-Novo, Republic of Benin 2001-2002.
- Member of the "IAEA International Nuclear Information System Database for Universities of INIS Members",

from 2003.

Teaching activities, courses (most important only)

- Applied Quantum Mechanic, course, Master's Degree of Laser and Nanophysics, MIU, FSM, 2007-2014.
- Advanced Quantum Mechanic, course, Master's Degree of Laser and Nanophysics, MIU, FSM, 2007-2014.
- Quantum Collisions Theory, course, Master's Degree of Laser and Nanophysics, MIU, FSM, 2007-2012.
- Atomic Spectroscopy, course, Master's Degree of Theoretical Chemistry, MIU, FSM, 2009-2011.
- Physics of Materials}}, course and tutorials for Bachelor's Degree of Physic-Sciences, MIU, FSM, since 2014
- Atomic Physics, course and tutorials for Bachelor's Degree of Physic-Sciences, MIU, FSM, 2005-2014.
- Physics of Radiation, course and tutorials for Bachelor's Degree of Physic-Sciences, MIU, FSM, 2005-2014.
- Mathematical Physics, course and tutorials for Bachelor's Degree of Physic-Sciences, MIU, FSM, 2011-2013.
- Theory of Laser-Atom Interactions, course, 3rd cycle of Physic-Sciences, National University of Benin, Institute of Mathematics and Physical Sciences, Porto-Novo, Republic of Benin, 1998, 2000, 2002 and 2004.
- Advanced Atomic Physics, course, 3rd cycle of Physic-Sciences, MIU, FSM, 1998-1999.
- Theory of Laser-Atom Interactions, course, 3rd cycle of Physic-Sciences, MIU, FSM, 1999-2000.
- Theory of Electron-Atom Collisions Assisted by Laser-Field, Doctorate course, Cheikh Diop University, Polytechnic Superior School of Dakkar, Dakkar-Senegal, 1999.
- Atomic and Molecular Physics, tutorials for Bachelor's Degree of Physic-Sciences, MIU, FSM, 1992-2006.

Publications (approximate)

Articles (peer reviewed): 76
Book chapters: 9
Proceedings: 36