

## Curriculum vitae



**RAJAA CHERKAOUI EL MOURSLI**

### PERSONNAL DATA

Last Name : **Cherkaoui El Moursli**  
First Name : **Rajaâ**  
Date and place of birth : **12 Mai 1954, Salé (Morocco)**  
Nationality : **Moroccan**  
Marital status : **Married (Spouse Abdelhakim TADILI)**  
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Personal Address : **50 rue Allaimoun, secteur 5, Hay Riad Rabat , Morocco**

### EDUCATION AND DIPLOMA

- 1990: **Ph.D. Thesis in nuclear Physics** (Doctorat d'Etat) Faculty of Sciences, Rabat, University Mohammed V-Agdal, in collaboration with Department of Physics and Particle Grenoble, France.
- 1982: **PhD graduate in nuclear Physics** (Doctorat de troisième cycle) *University Joseph Fourier* Grenoble France
- 1979: **Magister degree in Nuclear Physics** (Diplome d'Etude Approfondies) *University Joseph Fourier* Grenoble France
- 1978 : **Degree in Physics** (Maitrise de recherché) *University Joseph Fourier* Grenoble France
- 1978: **General University Study's degree in Physics (DEUG)** *University Joseph Fourier* Grenoble France
- 1975: **High school degree in Experimental Sciences** *Descartes High school (Lycée Descartes), Rabat (Morocco)*

### AWARDS AND NOMINAIONS

- 2006, Nominated Corresponding Member of Hassan II Academy of Science and Technology, Morocco.

<http://www.academie.hassan2.sciences.ma/fr/academie/presentation.php>

- 2014, Nominated Resident Member of Hassan II Academy of Science and Technology, 2014. <http://www.academie.hassan2.sciences.ma/fr/academie/residents.php>
- 2015, The L'Oréal-UNESCO Awards for Women in Science Prize for Africa and the Arab States, 2015 Laureate,. <http://www.unesco.org/new/en/natural-sciences/priority-areas/gender-and-science/for-women-in-science-programme/2015-awards/>
- 2015, The prize "Illi Des Libertés 2015" <http://www.illionweb.com/societe/coups-coeur-gueule/video-illi-des-libertes-2015-au-jt-de-2m/>
- 2015, Elected a Fellow of the African Academy of Sciences.
- 2015-2018, Membership of ICSU Regional Committee for Africa.
- 2016-2019, Appointed as a member of the Committee on Harnessing Science, Engineering, and Medicine to Address Africa's Challenges by InterAcademy Council / InterAcademy Partnership for Research (IAP-R)
- Since 2016, Nominated member of the board of the Moroccan Agency for safety and nuclear and radiation safety.
- Since 2016, Member of the Scientific Committee of the Women's Foundation for Africa (Fundacion Mujeres por Africa)
- 2017, The first prize of the largest publishing in science and technology, Friday 26 May 2017, "The 2nd Day of Scientific Research and Innovation of Mohammed V University" Friday, May 26, 2017.
- 2017, Honoured by the Organization of Islamic Cooperation (OIC) at the First OIC Summit on Science and Technology in Astana, Kazakhstan on 10-11September, 2017. On this occasion, the OIC has decided to honour four Muslim Scientists in recognition of their valuable contribution in the field of Science and Technology.
- 2018, Elected a Fellow of The World Academy Science (TWAS) for the advancement of Sciences in developing countries.

#### **PROFESSIONAL CAREER and RESPONSABILITIES**

- 2013- 2017: **Vice President** for Research, Cooperation and Partnership of Mohammed V University, Rabat, Morocco
- 1996-2016: **Head of Laboratory of Nuclear Physics (LPNR)** Faculty of Science, Mohammed V University, Rabat, Morocco
- 2014: **Acting Dean** of the Faculty of Arts and Humanities, Mohammed V University Agdal, Morocco
- Since 1994: **Professor**, Faculty of Science, Rabat, Morocco
- 1990-1994: **Master lecturer** Faculty of Science, Rabat, Morocco
- 1982-1990: **Lecturer**, Faculty of Science, Rabat, Morocco
- 2013- 2015 : **Member of Mohammed V-Agdal-Abu Dhabi University's board of trustees**
- Jan. 2015 : **Member of the Committee** for the selection of the General Secretary of CNESTEN
- 2014- 2018: **Scientific Expert Evaluator** for National Center for Scientific and Technical Research (CNRST)

- Jan. 2018: **Member of the Committee** for the selection of the head of the division "Moroccan Academic and Research Wide Area Network " for CNRST.
- 2013-2017 **Member of the Research and Innovation Committee of Mohammed V University**
- Jan. 2015 : **Member of the Committee** for the selection of the General Secretary of CNESTEN
- Sept. 2014 : **Member of the Committee** for the selection of the head of the new division "cooperation " for CNRST.
- Dec. 2014 : **Member of the Committee** for the selection of the head of the new division "promotion of research and innovation " for CNRST.
- 2001-2005 : **Elected member of the scientific committee** of the Faculty of Science, Mohammed V University Agdal, Rabat, Morocco
- 2007-2014 : **Member of the Scientific Advisory Committee of CNESTEN**
- 2004-2005: **Member of the scientific Board of CNESTEN**
- 2005-2006 : **Member of the expert Committee** in setting up a grid like the European countries to increase computing capacity (grid computing) organized by the CNRST
- 2006-2007 : **Member of the educational committee** of the University Mohammed V Agdal
- 2006-2008: **Member of the Scientific Committee** on the Environment of the University Mohammed V Agdal
- 2007-2009: Created & leading **the first Master of Medical Physics (MSPM)** in Morocco, Faculty of Science, Mohammed V University Agdal, Rabat, Morocco
- 2004-2006: **Leading the DESA:** "Physics and Radiation Technology", Faculty of Science, Mohammed V University Agdal, Rabat, Morocco
- Since 2004: **Member of Scientific Committee and coordinator of module 1** of the Superior Regional Training on radiation safety and control of radiation sources organized annually by the National Center for Energy Sciences and Nuclear (CNESTEN) under the auspices of the International Atomic Energy Agency (IAEA)
- 2003-2007 : **Member of the UFR DESA** Sûreté, qualité, santé et environnement, domicilié à l'Ecole Mohammadia d'Ingénieurs.
- 2002-2006: Participation in the organizing and teaching committee of nuclear physics in the qualifying training in Mohammedia School of Engineers, held annually, Rabat, Morocco
- 1997-2005 : **Member of the UFR doctorat** « Développement des Applications de la Physique Nucléaire », Mohammed V University
- 1997-2001 : **Member of the UFR Doctorat** « Physique des Hautes Energies » Mohammed V University
- 1998-2006 : **Member of the UFR-DESA** « Valorisation des ressources naturelles et protection de l'environnement. Méthodes physico-chimiques, radiochimie et rayonnement ».
- 1998-2006 : **Member of the UFR doctoral** « Faibles Radioactivités, Physique Mathématique et Environnement », Mohammed V University Agdal, Rabat, Morocco
- Since 1996: **Associated member in CERN and member of the International collaboration ATLAS.** One of the main initiators of the official participation of Morocco to the international collaboration ATLAS at the Large Hadrons Collider at CERN, Geneva

- 2000-2006 : Expert evaluator for several thesis for the Commission of equivalence of the Ministry of Higher Education and Scientific Research
- Since 2013 : Editorial Board Member of Radiation Regulator (<http://radiationregulator.net/board/rajaa.html>)
- Since 2011 : Member of the Scientific Committee of the Journal Physical and Chemical News (ISSN 1114-3800)
- Since 2000: Member of the Scientific Committee of the Moroccan Journal on Nuclear Sciences
- Since 2000 : Member of the Scientific Committee of the “Journal Maghrébin de Physique”
- 2000-2006 : Evaluation of Nuclear and Particle Physics Project for CNRST
- Since 2013: Member of the selection committee for the post of assistant professor in Moroccan universities.
- 2002 Member of the selection committee for a research position at CNESTEN

## RESEARCH PROJECTS

- Since 1996 : Associated Member of The International Collaboration ATLAS
- Since 2016 : Associated Member of The international collaboration KM3NET
- 2016-2020 : Member and national coordinator of the european project H2020/Rise entitled ‘MARine atmospheric Science Unravelling: Analytical and mass spectrometric techniques development and application — MARSU’ coordinated by CNRS-France
- 2015-2019 : Membre and coordinator for UM5R of the « Modernisation of Institutional Management of Innovation and Research in South Neighbouring countries – MIMIR » project and coordinator , Erasmus+, KA2 – Capacity-building in the Field of Higher Education – coordinated by UB – University of Barcelona, Spain.
- 2015-2019 : Member of the GROUPEMENT DE RECHERCHE INTERNATIONALE GDRI project “Physique de l’infiniment petit et de l’infiniment grand » (P2IM) coordinated by CNRS-France.
- 2013- 2016 : Member of the european project TEMPUS COMPERE-Averroès (COMPétence Projets Européens REseaux Averroès) and national coordonnateur for this project (Coordinated by « Université Montpellier 2 -France).
- 2010-2013 : Member of the european project TEMPUS OSMOSE « Ouverture Structurée université Monde Socio-Economique » coordonné par l’Université Bordeaux 1 - Sciences et Technologie, France
- 2009-2010 : Coordinator and Responsible of PCI 2009 n°A/203372/09 entitled « grid y e-ciencia: analisis de datos del detector atlas y fisica medica; grille de calcul et e-ciencias: analyse des données du détecteur atlas et physique medical ». Between Instituto de Fisica Corpuscular-Valencia-Spain) and nuclear Physics Laboratory, Faculty of Science, University Mohammed V Agdal, Rabat, Morocco.
- 2010-2011 : Coordinator and Responsible of PCI 2010 n°A/030322/10 entitled « grid y e-ciencia: analisis de datos del detector atlas y fisica medica; grille de calcul et e-ciencias: analyse des données du détecteur atlas et physique medical » between Instituto de Fisica Corpuscular-Valencia-Spain) and nuclear Physics Laboratory, Faculty of Science, University Mohammed V Agdal, Rabat, Morocco
- 2012-2013 : Coordinator and Responsible of PCI 2011 A1/035250/11 entitled « grid y e-ciencia: analisis de datos del detector atlas y fisica medica; grille de calcul et e-ciencias:

- analyse des données du détecteur atlas et physique medical » between Instituto de Fisica Corpuscular-Valencia-Spain) and nuclear Physic Laboratory, Faculty of Science, University Mohammed V Agdal, Rabat, Morocco
- 2010-2013 : Member of the LIA "International Laboratory for collider physics (ILCP)" between France, Sweden and Morocco. Coordinated by CNRS/France
- 2009-2012 : Coordonator and Responsible of the project " Applications et recherches en physique des rayonnements et physique subatomique " in the framework Programme d'Urgence 2009-2012
- 2003-2010 : Member of GDRI (Groupement De Recherche International) entitled « Construction, assembly and tests of the ATLAS electromagnetic barrel calorimeter » GDRI between IN2P3/CNRS, the universities Joseph Fourier of Grenoble, of Méditerranée of Aix-Marseille II, and of Savoie, the Moroccan CNRST and KTH Sweden),)
- 2001-2005 : Coordinator and responsible of Integrated Action PAI, n°MA/02/43, entitled "Estimation of heavy metal deposition in Morocco by measuring their accumulation in lichens, mosses and tree bark. ", between the Laboratoire Pierre Süe of French Atomic Energy Agency (LPS / CEA / Saclay / France and nuclear Physic Laboratory, Faculty of Science, University Mohammed V Agdal, Rabat, Morocco
- 2002-2005: Coordinator and Responsible of PROTARS II, n° P11/03 (Programme Thématique d'Appui à la Recherche Scientifique-Maroc)
- 2001-2006: Member of PROTARS II P21/60 (Programme Thématique d'Appui à la Recherche Scientifique-Maroc)
- 2003-2006 : Member of the « action Intégrée » PAI Morocco-France, n° MA 03/66, entitled : « Elaboration et étude structurale par diffraction de rayons X et par diffraction de neutrons de matériaux ferroélectriques de type  $\text{LiMO}_3$  (M = Nb ou Ta) et de matériaux de type  $\text{LiFe}_{1-x}\text{M}_x\text{PO}_4$  (M = Co, Ni, Al, ...). Applications dans le domaine des nouvelles technologies ». Collaboration between Léon Brillouin Laboratory (LLB/CEA/Saclay/ France) and nuclear Physic Laboratory, Faculty of Science, University Mohammed V Agdal, Rabat, Morocco
- 2001-2004 : Member of the « action Intégrée » PAI Morocco-France, n° MA-05/01 « Construction d'un détecteur de pieds de gerbes pour l'expérience ATLAS ». Collaboration with « le Laboratoire de Physique Subatomique et de Cosmologie (LPSC) », Grenoble, France.
- 1996-2003: Convention CNESTEN-CEA - Joint participation with CNESTEN for bilateral research projects with the French Atomic Energy (CEA-CNESTEN Convention). This allowed us to have, 12 months of training per year in profits of Moroccan teachers and researchers and two missions of French experts per year.

## RESEARCH TOPICS

- Since 2016, Prof. Rajaa Cherkaoui El Moursli is a member of the International Collaboration KM3NET. KM3NeT is the next generation neutrino telescope. Once completed, it will have a detector volume of several cubic kilometres of clear sea water. Located in the deepest seas of the Mediterranean, it will open a new window on our Universe. With the telescope scientists

of KM3NeT will search for neutrinos from distant astrophysical sources such as supernovae, gamma ray bursters or colliding stars. An array of thousands of optical sensors will detect the faint light in the deep sea from charged particles originating from collisions of the neutrinos and the Earth. The facility will also house instrumentation for Earth and Sea sciences for long term and on-line monitoring of the deep sea environment and the sea bottom at depth of several kilometers. A new initiative is to extend the KM3NeT Research Facility with a neutrino detector dedicated to particle physics research exploiting oscillations in atmospheric neutrinos. One part of this detector will be built and tested at the Faculty of Sciences in Rabat

- Since 1996, Prof. Rajaa Cherkaoui El Moursli is a Member of the International Collaboration ATLAS (174 institutions in 38 countries). ATLAS (A Toroidal LHC Apparatus) is one of the experiments equipping the collision points at the Large Hadron Collider (LHC) at CERN-Geneva started by the end of the year 2009. The main goal of the experiment is the discovery of the Higgs boson, the missing piece in the Standard Model (SM) of Particle Physics and to explore physics beyond the SM. The Nobel Prize in Physics 2013 was awarded jointly to François Englert and Peter W. Higgs for the theoretical discovery of a mechanism that contributes to our understanding of the origin of mass of subatomic particles, and which was confirmed through the discovery of the predicted fundamental particle on 2012, by the ATLAS and CMS experiments at CERN's Large Hadron Collider. The calorimeters are the vital sub-detectors of ATLAS and are playing a key role in the discovery potential aimed by the experiment since they are devices for measuring particles energy. R. Cherkaoui had the opportunity to accompany the detector during its phase of construction, simulation, test and launch. Now her contribution work focuses on data analysis of this experiment.
- Prof. Cherkaoui has developed research in Medical Physics in Morocco by the implementation of the first Master of medical physics (2007-2009). This has allowed providing new hospitals radiation physicists, which has followed the national strategy in this area, in particular the creation of number of services nuclear medicine and radiotherapy throughout Morocco. Currently, an important team is working in Simulation and imaging in Medical Physics (Radiotherapy, Radiology and Nuclear Medicine).
- In 1982, she joined the Faculty of Sciences, University Mohammed V - Agdal Rabat as a researcher professor; and since 1996 she worked as a head of the Laboratory of Nuclear Physics (LPNR). This responsibility led her to develop several themes around nuclear applications: neutron activation; ICP-MS; study and monitoring of environmental pollution; Study of retention modes of heavy metals and radionuclide in Moroccan apatite phosphates and their residues for potential applications in pollution control; Neutron scattering on powders, crystal structures and magnetic; Imagery.

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#### **SCIENTIFIC SUPPORT**

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- Supervision of :
  - 14** thesis (thèses de doctorat d'Etat +thèse de Doctorat-PhD) ( **6** in progress)
  - 27** final studies projects (DEA, DESA and Master)
  - 6** graduation project studies (Licence)
- Examiner and Member of Jury of **51** thesis
- Supervision of Human Resources (scientific/technical staff)

#### **14 Thesis (PhD) supervised :**

- **PHD (Thèses de Doctorat) :**
  1. "Optimization of the ATLAS electromagnetic end-cap performances and LHC luminosity determination using the End-Cap high-voltage system", Nacim Haddad, 14 Octobre 2017, Mohammed V in Rabat.

2. « Search for resonances in highly-boosted lepton+jets final state in proton-proton “Search for  $t\bar{t}$  resonances in highly-boosted lepton+jets final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS Detector at the Large Hadron Collider”, Zineb Idrissi, 14 October 2017, Mohammed V in Rabat.
  3. « Identification des Emetteurs de Rayonnements Gamma et Résolution du Problème d’Empilement par les Méthodes de Séparation Aveugle des Sources », M. Abdelhamid MEKAOUI, 17 January 2015, Mohammed V in Rabat.
  4. « Validation et optimisation de la Simulation Monte-Carlo de Différents TEP Cliniques et Développement d'un Algorithme Adaptif de Filtrage des Images Médicales », M.Yassine Toufique, 19 April 2014, Mohammed V in Rabat.
  5. « Contribution à l’étude des apatites en vue de leur application pour le confinement et le conditionnement de déchets radioactifs », Mme Bouchra SGHIR, 24 March 2011, Mohammed V in Rabat.
  6. « Etude des qualités chimiques et géochimiques du bassin versant du bouregreg », (co-direction), Hamid Bounouira, 28 April 2007, Mohammed V in Rabat.
  7. « Conception et réalisation de nouveaux types de jauges radio métriques et leurs applications en industrie », Khalid LARAKI, 25 May 2007, Mohammed V in Rabat.
  8. « Etude des performances du Pre-Echantillonneur Central d'ATLAS», Younouss EL MOUAHHIDIN, 14 March 2002, Mohammed V in Rabat.
  9. « Une possibilité de déterminer la fonction de structure du gluon dans l’expérience ATLAS en utilisant la section efficace  $\gamma$ -jet dans les collisions pp à  $\sqrt{s} = 14$  TeV au LHC », El Mamoun ABOUELOUFA, 14 March 2002, Mohammed V in Rabat.
  10. « Chronologie Th/U des dépôts quaternaires de carbonates purs et impurs au Maroc », Slimane SEMGHOULI, 11 June 2001, Mohammed V in Rabat.
- **4 « Thèses de doctorat d’Etat » :**
    1. « Le Biomonitoring de la Pollution Atmosphérique au Maroc au moyen de Lichens, Mousses et Ecorces d’arbres – Application des techniques d’analyse AANI- $k_0$  et ICP-MS », EL KHOUKHI Tahar, 16 February 2002, Mohammed V in Rabat.
    2. « Structures magnétiques dans quelques phosphates d’éléments de transition », EL KHAYATI Naïma, 08 December 2001, Mohammed V in Rabat.
    3. « Contribution à l’étude et à la compréhension du mécanisme de rétention d’un radionucléide dans les apatites naturelles marocaines : cas du Radon 222 », BOURHAL Fatima Zahra, 07 November 2001, Mohammed V in Rabat.
    4. « Application de l’activation par neutrons rapides pour la mesure de sections efficaces des réactions nucléaires induites par neutrons de 14 MeV, la détermination de rendements des fragments de fission  $^{238}\text{U}(n,f)$  et  $^{232}\text{Th}(n,f)$  à 3 et 14,7 MeV, et pour l’analyse multi-élémentaire de bio-indicateurs de la pollution atmosphérique », CHOUAK Abdelkader, 10 November 2001.

#### **Project studies supervised (DEA, DESA et Master)**

1. « Biomonitoring de la pollution atmosphérique en métaux lourds. Application des techniques d’analyse AAN- $k_0$  et ICP-MS », Hassan Ait El Aouam, 16 octobre 2003
2. « Dopage du silicone par irradiation neutronique » Loubna El Ghenati 2006
3. « Analyse des tests en faisceaux d’Atlas » Zineb El Mouridi, 2006

4. « La physique de la transparence de couleur : Un nouveau domaine des interactions fortes » BELAAOUJA Smail Belaaouja, 2006
5. « Application des techniques de mesures radiologiques à la surveillance de l'environnement du CENM » Loubna Lakhrissi, 2006
6. « Interprétation des résultats des essais de mise en service du réacteur Triga Mark II. » Khadija Bendame, 2006
7. « Contrôle de qualité de système de planification de traitement (TPS) » AIT AYOUB ABDENNACER, 2009
8. 'Mise en place et validation des outils d'évaluation des performances des scanners multibarettes sur la base du protocole de contrôle externe de l'AFSSAPS », BADDOUH LAILA, 2009
9. « Les tests d'acceptations de l'installation de l'accélérateur Elekta », BENALI RIM, 2009
10. « Argus de Varian et DAVID de PTW : étude des performances et application au contrôle journalier des fluences de dose dans les traitements IMRT au sein d'un service de radiothérapie », BENALLILOU HICHAM, 2009
11. « Logiciel de calcul des Unités moniteurs », BENKHOUYA YASSINE, 2009
12. « Dosimétrie in vivo par des diodes à semi-conducteur », BOUDCHICHE NADIA, 2009
13. « la dosimétrie in vivo, Service de radiothérapie », EL BAYDAOUI REDOUANE , 2009
14. « Dosimétrie in vivo par des diodes à semi-conducteur en radiothérapie externe : Réalisation d'un logiciel de calcul et de gestion. » EL GHALMI MOHAMMED, 2009
15. « Etude de la mise en place d'un système d'automatisation des préparations de radiopharmacie », ERRIFAI RACHID, 2009
16. « implémentation d'une technique de dosimétrie par film gafchromique et son application pour des QA IMRT et des mesures au Cyberknife » HERRASSI YASSINE, 2009
17. « Simulation d'un traitement de curiethérapie HDR avec le code MCNPX: Comparaison avec le logiciel Nucletron PLATO Brachytherapy de l'INO » JETTO NOURELHOUDA, 2009
18. « La mise en œuvre sur un accélérateur linéaire médical de la dosimétrie par imageur portal en vue de contrôler les traitements par IMRT », KRABCH MOHAMMED EL ADNANI, 2009
19. « Acceptance d'un système de dosimétrie par film gafchromique pour le contrôle des plans de traitement IMRT en Tomothérapie », NOURREDDINE ABDELATI, 2009
20. « Développement d'un outil de la Dose à l'entrée, du Produit Dose Surface en Radiologie Conventiennelle et Interventionnelle », SAIDI KAMAL , 2009
21. « la dosimétrie opérationnelle des travailleurs en médecine nucléaire avec étude de poste », SEBIHI RAJAA, 2009
22. « le post-traitement 3D en scanner », TOUFIQUE YASSINE, 2009
23. « Contrôle de qualité des collimateurs multilames », ZANANE NIDAL, 2009
24. « Reconstruction des événements Top enregistrés dans le détecteur ATLAS », MED AMINE HYAYA, 2010
25. « Analyse des données générés par Madgraph dans la collision proton-proton » Hanane IBNOUMOU, juillet 2011
26. « Système informatique de l'Expérience ATLAS appliqué à la reconstruction de la masse du Boson W » Zineb IDRISSE, le 21 septembre 2011



27. « Software de l'Expérience ATLAS : Application à la reconstruction de la masse du quark top »  
Nacim HADDAD, le 21 septembre 2011

#### **Supervised project Graduation degree in physics supervised:**

- « Applications des techniques nucléaires à la médecine » Ahmed El Mimouni et Toufik El Mebtoul , soutenu juin 2006
- « Radioprotection » Sassi et Marhous, soutenu juin 2008
- « Détecteur ATLAS » Amine Oulad Ameer et Mehdi Louarrat, soutenu juin 2009
- « Conception d'un programme informatique pour la détermination de l'Uranium et Radon par la spectrométrie gamma dans un échantillon de phosphate » Ahmed Ait Errouhi et Malika Agouzoul, soutenu juin 2010
- « Rayonnements ionisants et radioprotection », Laassiri Mounia et Laaroussi Imane, soutenue le 17 juin 2011

#### **Supervision of Human Resources (Technical)**

Training of Mr. Azzerab Ben Mansour, technician at nuclear physics laboratory in UM5A. This training allowed him to integrate international ATLAS collaboration. He has participated to the assembly and integration of ATLAS detectors at the Laboratory for Subatomic Physics and Particle in Grenoble and at the European Centre for Nuclear Research (CERN) in Geneva, from 19/07/2002 to 19/08/2002 and 30/06/2003 to 27/07/2003. Transportation costs and subsistence expenses were paid by the ATLAS collaboration.

#### **Examinator and member of Jury of the following theses:**

1. "Optimization of the ATLAS electromagnetic end-cap performances and LHC luminosity determination using the End-Cap high-voltage system", Nacim Haddad, 14 Octobre 2017, Mohammed V in Rabat
2. « Search for resonances in highly-boosted lepton+jets final state in proton-proton "Search for  $t_t$  resonances in highly-boosted lepton+jets \_nal state in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS Detector at the Large Hadron Collider", Zineb Idrissi, 14 October 2017, Mohammed V in Rabat
3. "Sciences, Techniques et Ingénierie" Mr. Alaeddine Lahbas, soutenue 8 juillet 2107, Faculty of Science Semlalia, Marrakech.
4. « Identification des Emetteurs de Rayonnements Gamma et Résolution du Problème d'Empilement par les Méthodes de Séparation Aveugle des Sources », M. Abdelhamid MEKAOUI, soutenue le 17 janvier 2015
5. « Contribution a l'étude de la radioactivite naturelle dans les stations thermales au maroc : impact sur la sante des individus », Mounaim GHILANE, soutenue le 6 decembre 2014, Faculty of Science Semlalia, Marrakech.
6. « Contributions à l'étude du Secteur du Higgs dans le Modèle de Seesaw type II. », Mr. Jamal RAMADAN, soutenue le 03 mai 2014, Faculty of Science Semlalia, Marrakech.
7. « Validation et optimisation de la Simulation Monte-Carlo de Différents TEP Cliniques et Développement d'un Algorithme Adaptif de Filtrage des Images Médicales », M. Yassine Toufique, soutenue le 19 Avril 2014, Faculty of Science, Rabat.
8. « Contribution à la segmentation d'images couleurs par classification des pixels dans l'espace HSV: application à la détection du stress hydrique chez la menthe », ZENNOUHI Rachid, soutenue le samedi 20 avril 2013

9. « suivi de la qualité de l'air dans la ville de Meknès » Mlle Hasna Ait Bouh, soutenue le samedi 21 Janvier 2012 à la faculté des sciences de Meknes.
10. « Etude de la performance de l'imagerie en parallèle combinant l'encodage de sensibilité et l'écho de spin écho planaire » Melle Sanaa EL MRINI, Soutenue le 02/07/2012 à la faculté des sciences de Rabat
11. « Contribution à l'étude des apatites en vue de leur application pour le confinement et le conditionnement de déchets radioactifs », Mme Bouchra SGHIR, soutenue le 24 mars 2011
12. « Evaluation de l'exposition externe au rayonnement tellurique gamma, sur l'axe syénitique akongo-lolodorf (sud-ouest du Cameroun) » : Monsieur ELE ABIAMA Patrice, 04 aout 2010
13. « Contribution à l'analyse de la radioactivité du miel naturel, impact sur la santé des consommateurs », Mr. Azeddine MORTASSIM, Faculté des sciences Semlalia, Marrakech, le 29 octobre 2010
14. « Mise en œuvre de techniques avancées pour la mesure de concentrations naturelles ou polluantes en métaux lourds des sols et eaux de surface de la région de Safi-Casablanca du littoral atlantique » GOGON Boghé Douo Louis Huberson, Faculté des sciences Semlalia, Marrakech, le 16 janvier 2010
15. « Performance de la calorimétrie ATLAS : Etude de la diaphonie dans l'EMEC et intégration d'un système d'information distribué dans le DCS de haute tension du Tilecal. » Abderahmane ELKHARRIM, Faculté des Sciences Oujda ,16 novembre 2009
16. « Construction, Assemblage et Tests du Calorimètre ATLAS» Yahya TAYALATI, habilitation, Faculté des Sciences Oujda 16 novembre 2009
17. « Mesures expérimentales et simulation Monte Carlo de la fonction de réponse d'un détecteur Si(Li) : application à l'analyse quantitative multi-élémentaire par XRF et PIXE » Mohammed Reda MESRADI. Université de Strasbourg 15 mai 2009
18. « Calcul de l'albedo doublement différentiel et application au transport des photons gamma dans les canaux en utilisant la méthode de Monte Carlo », Fouad Boutadghart , Faculté des sciences Semlalia, Marrakech 11 avril 2009
19. « Etude de la transparence de couleur du méson vecteur  $\rho_0$  », Lamiaa El Fassi, Faculté des sciences de Rabat le 24 mai 2008
20. « Conception et réalisation de nouveaux types de jauges radio métriques et leurs applications en industrie », Khalid LARAKI, Faculté des Sciences de Rabat, soutenue le 25 mai 2007.
21. Etude des qualités chimiques et géochimiques du bassin versant du Bouregreg » (co-direction) Hamid Bounouira, Faculté des sciences de Kénitra, le 28 avril 2007
22. « Mesures des radio-isotopes de l'uranium et du radium dans les échantillons d'eau, de sédiments et de la matière en suspension dans le Bassin Versant de l'Oued Moulouya », El Mehdi ALIBRAHMI Faculté des Sciences Kénitra, 2007
23. « Contribution à la détermination de la perte d'énergie des particules chargées en position canalisée et aléatoire dans le silicium » Omar EL BOUNAGUI, Faculté des sciences Semlalia, Marrakech, le 2007
24. « Etude des caractéristiques structurales et magnétiques de phosphures et arséniures de métaux de transition de formule  $MM'X$  (M, M'=métaux 3d, X=As,P), My Abdelaziz KOUMINA, Faculté des sciences Semlalia, Marrakech, le 14 juillet 2007

25. «Autour des Etats cohérents déformés et du modèle de Hubbard avec phonons - Généralités sur l'effet Josephson et ses applications technologiques », Fethi Madouri, Faculté des sciences, Rabat, le 24 juillet 2007
26. « La contribution du quark étrange au spin du proton », Ahmed El Alaoui, thèse en physique, Faculté des sciences de Rabat, le 27 Janvier 2006
27. : « Contribution à l'étude de la pollution de l'air par les métaux lourds dosés dans les lichens et les écorces d'Eucalyptus, par activation neutronique et par ICPMS », Madame Zahra MOUTIA, thèse d'Etat à la Faculté des Sciences de RABAT, le 22 mai 2004
28. « Dosimétrie de neutrons : Contribution à l'identification du risque radiologique imputé aux neutrons et étude de l'influence des méthodes de déconvolution de la distribution en énergie de la fluence neutronique et de l'équivalent de dose ambiant » M'Barek EL MESSAOUDI, Faculté des Sciences de RABAT, 2004
29. « A study of interaction of photons with organic and inorganic materials » Gurpreet KAUR, these de Ph. D, 2003, Guru Nanak Dev University, Amritsar India,
30. « Le Biomonitoring de la Pollution Atmosphérique au Maroc au moyen de Lichens, Mousses et Ecorces d'arbres – Application des techniques d'analyse AANI-k<sub>0</sub> et ICP-MS. », EL KHOUKHI Tahar, 2002, Faculté des Sciences Rabat.
31. « Elaboration des sources  $\alpha$  de U(VI) et de Th(IV) par électrodéposition combinée à l'extraction par solvant et/ou à la coprécipitation. Application au dosage isotopique de l'uranium et du thorium dans les phosphates, le phosphogypse, l'acide phosphorique industriel, les carbonates impures, certains sédiments ferrugineux et les eaux douces et saumâtres », Rachid Zarki, 26 avril 2002, Faculté des Sciences de Rabat.
32. « Une possibilité de déterminer la fonction de structure du gluon dans l'expérience ATLAS en utilisant la section efficace gamma-jet dans les collisions pp à 14 TeV au LHC », Abouelouafa El Mamoun, 14 mars 2002, Faculté des Sciences de Rabat.
33. « Etude des performances du pré-échantillonneur central d'ATLAS ». Younouss El Mouahhidi, 14 mars 2002, Faculté des Sciences de Rabat.
34. « Nouvelles méthodes nucléaires pour l'étude de l'influence de la porosité et l'humidité sur l'émanation du gaz radon dans différents sols ». Hassan Khajmi, 12 octobre 2001 à la Faculté des Sciences Semlalia de Marrakech.
35. « Performances de l'activation par neutrons thermiques, épi thermiques et de 14 MeV ainsi que de la fluorescence X pour l'analyse de bio indicateurs de la pollution atmosphérique. Application à la mise au point d'une méthode de bio surveillance de la qualité de l'air au Maroc », A. Senhou, 27 Avril 2001, Faculté des Sciences de Rabat.
36. « Chronologie Th/U des dépôts quaternaires de carbonates purs et impurs au Maroc ». Slimane Semghouli, 27 Avril 2001, Faculté des Sciences de Rabat.
37. « Apports des méthodes d'analyse multiélémentaires à la caractérisation des sédiments marins », .M. Bahlouli, 7 avril 2001, Faculté des Sciences de Kénitra.
38. « Structures magnétiques dans quelques phosphates d'éléments de transition », N. El Khayati, 08 décembre 2001, Faculté des Sciences de Rabat.
39. « Application de l'activation par neutrons rapides pour la mesure de sections efficaces des réactions nucléaires induites par neutrons de 14 MeV, la détermination de rendements des fragments de fission U-238(n, f) à 3 et 14,7MeV, et pour l'analyse multi-élémentaire de bio-indicateurs de la pollution atmosphérique », A. Chouak, 10 novembre 2001, Faculté des Sciences de Rabat.

40. « Contribution à l'étude et la compréhension du phénomène de rétention d'un radionucléide (exemple, le radon-222) dans les apatites naturelles marocaines : Candidates comme matrices de conditionnements des déchets radioactifs séparés ». F.Z. Boujral, 07 novembre 2001 à la Faculté des Sciences de Rabat.
41. « Fonctions d'excitations, près du seuil des réactions (n,p), (n, $\alpha$ ) et (n, 2n) sur le zirconium et test intégral », M. Ibn Majah, 25 janvier 2001, Faculté des Sciences de Rabat.
42. « Analyse radiochimique des échantillons de coquilles de mollusques au nord de la ville d'Agadir : application à la datation des hauts niveaux marins dans le passé et à la modélisation de la relation entre l'âge réel et les ages apparents », E.K. JAHJOUH, 14 mars 2001, Faculté des Sciences de Kénitra.
43. « Simulation monte carlo pour la therapie avec les ions legers », Mohamed HAMAL, octobre 2000, faculte des sciences de Oujda.
44. « Tests et étude des performances du pré-échantillonneur central d'ATLAS ». B. Belhorma, 20 septembre 2000, Laboratoire de Physique Subatomique et de Cosmologie ([IN2P3/CNRS](#)), Université Joseph Fournier, Grenoble I, France.
45. « Etude de la répartition des activités des radio-isotopes de l'uranium et du radium dans les eaux naturelles et du radon dans l'air des habitations au Maroc », O.K Hakam, 20 novembre 2000, Faculté des Sciences de Rabat.
46. « Invariance Parafermioniques et Supercordes Fractionnaires », H. Chakir, 2000, Faculté des Sciences de Rabat.
47. « Synthèse chimique et étude structurale de nouveaux diphosphates de type  $AB_2(P_2O_7)$ . A :ion bivalent et B :ion trivalent. Propriétés magnétiques de  $CuFe_2(P_2O_7)_2$  », A. BOUTFESSI, 08 Juillet 1999, Faculté des Sciences de Rabat.
48. « Contributions à la physique des saveurs lourdes par l'approche des règles de somme en chromodynamique quantique », M. CHABAB, 1998 Faculté des Sciences de Rabat.
49. « Mise au point d'un dispositif complet d'analyses élémentaires par fluorescence X au CNESTEN ». M. BOUNAKHLA, 08 Mai 1998, Faculté des Sciences Kénitra.
50. « Mesure des activités volumiques du radon dans l'air des habitations et des enceintes de travail par les détecteurs solides de traces nucléaires ». Soutenue le 17 mai 1993 par Oum Keltoum HAKAM.
51. « Etude de l'émanation eu Radon 222 de phosphates sédimentaires et de phosphogypses correspondants. Effet de la température ». Soutenue le 16 Juillet 1993 par Fatima-Zahra BOUJRHAL

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#### **ORGANIZATION OF SCIENTIFIC EVENTS**

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- Workshop « Improvement of R&D and Innovation Linkage to create wealth in the African context» March 22-23, 2018 at the Hassan II Academy of sciences
- KM3NeT Meeting 5-9 February 2018, Mohammed V University in Rabat.  
<https://indico.cern.ch/category/1003/>
- Organization of the national final of the 4th edition of the International Francophone Competition "Ma thèse en 180 secondes" - Edition 2017 - (mt180.ma), Thursday 25 May at 17h at the CNRST.
- Organization of the international final My thesis in 180 seconds 2016, National Theater

Mohammed V Rabat, Le jeudi 29 septembre 2016

- TEDux "Pratiques Pédagogiques Innovantes", 26 Nov. 2016, Rabat, Maroc
- « International Particle Physics Masterclasses ». 10 Mars 2016, Rabat, Maroc
- Journées scientifiques du GDRI P2IM, 17-18 Dec. 2015, Rabat, Maroc, <http://cfma.in2p3.fr/wiki/index.php?title=Management>
- Workshop on ATLAS activity in Rabat, 10 Nov. 2016, Rabat, Maroc, <https://indico.cern.ch/event/587802/>
- Member of the Jury of L'ORÉAL-UNESCO FOR WOMEN IN SCIENCE, MAGHREB REGIONAL FELLOWSHIPS since 2015
- President of the moroccan organizing committee of « The Three Minute Thesis » competition since 2014.
- Member of the jury of « The Three Minute Thesis » International competition, a research communication national competition developing academic, presentation, and research communication skills. Students has to explain their research in three minutes in a language appropriate to a non-specialist, Paris, 1 october 2015. <http://mt180.fr/?lang=fr>
- Member of the organizing committee of forum **VIAJEO Plus** The second MPC Forum was held at the University Mohammad V in Rabat, in Morocco, between 19-20 May 2015. The aim of this international encounter was to facilitate the uptake of green urban mobility solutions across the Mediterranean Partner Countries (MPCs) and identify future cooperation opportunities between EU and MPC
- President of the Moroccan organizing committee of « The Three Minute Thesis ». Moroccan Competition in Morocco, a research communication national competition developing academic, presentation, and research communication skills. Students has to explain their research in three minutes in a language appropriate to a non-specialist, 2015.
- Member of the organizing committee and also member of jury of « The Three Minute Thesis » competition in Morocco, a research communication national competition developing academic, presentation, and research communication skills. Students has to explain their research in three minutes in a language appropriate to a non-specialist audience, CNRST, Rabat 2014.

[http://www.cnr.ac.ma/index.php?option=com\\_content&view=article&id=563%3Aresultats-de-la-finale-nationale-du-concours-international-l-ma-these-en-180-s-r&catid=1%3Aactualites&Itemid=48&lang=fr](http://www.cnr.ac.ma/index.php?option=com_content&view=article&id=563%3Aresultats-de-la-finale-nationale-du-concours-international-l-ma-these-en-180-s-r&catid=1%3Aactualites&Itemid=48&lang=fr)

<http://www.um5a.ac.ma/index.php/fr/accueil/112-french/flash-actualites/631-ma-these-en-180s>

- Chairman of science week organized by Mohammed V University Agdal on 2012 and 2013. The aim of Science Week is to promote the relevance of science, technology, engineering and maths (STEM) in schools
- Since 2010, in the framework of the Hassan II Academy of Sciences and Technology, in charge of creating a scientific club at school "Lycée Ayoubi" in Salé, Morocco and many Events programs include conferences, meetings with eminent scientific personalities, on ground-visits, expositions and projection of scientific movies followed by discussions and debates.

- Member of the organizing committee and scientific committee of the workshop “GRID and E-SCIENCES: DATA ANALYSIS OF ATLAS DETECTOR AND MEDICAL PHYSICS”, chaired by Rajaa Cherkaoui El Moursli and Santiago Gonzalez, II PCI2009 Workshop in Valencia, Spain 22, 23 May 2013  
<http://indico.ific.uv.es/indico/conferenceDisplay.py?confId=759>
- Member of the organizing committee and scientific committee of the workshop “GRID and E-SCIENCES: DATA ANALYSIS OF ATLAS DETECTOR AND MEDICAL PHYSICS”, II PCI2009 Workshop at Rabat 27, 28 Jun 2012  
<http://indico.ific.uv.es/indico/conferenceDisplay.py?confId=617>
- Member of the organizing committee and scientific committee of the workshop “GRID and E-SCIENCES: DATA ANALYSIS OF ATLAS DETECTOR AND MEDICAL PHYSICS”, II PCI2010 Workshop at Rabat, 05-06 October 2011, Rabat, Morocco.  
<http://indico.ific.uv.es/indico/conferenceDisplay.py?confId=470>
- Member of the organizing committee of the workshop « **Partons in Nucleons and Nuclei:PINAN11**”, September 26–30, 2011 Marrakech, Morocco.  
<http://quarks.temple.edu/~partons/wordpress/>,
- Member of the organizing committee and scientific committee of the workshop “GRID and E-SCIENCES: DATA ANALYSIS OF ATLAS DETECTOR AND MEDICAL PHYSICS”, II PCI2009 Workshop at IFIC, 18 - 19 November 2010 Valencia, Spain  
<http://indico.ific.uv.es/indico/conferenceDisplay.py?confId=388>
- Member of the organizing committee and scientific committee of the workshop “GRID and E-SCIENCES: DATA ANALYSIS OF ATLAS DETECTOR AND MEDICAL PHYSICS”, Rabat, 04,05,06 october 2010  
<http://indico.ific.uv.es/indico/conferenceDisplay.py?confId=365>
- Member of the organizing committee of the LAr ATLAS week, 02 - 05 February 2009, Marrakech, Morocco.  
<http://www.ucam.ac.ma/fssm/atlaslar/>
- Member of the organizing committee and scientific committee of the workshop “journée sur la radioactivité dans les eaux naturelles : Implications radiologiques ». 22 December 2009, Faculty of sciences, Kénitra, Morocco.
- Chair of organizing committee of the Tutorial introduction to GridComputing Grid Computing June 13, 2008 at the Faculty of Sciences Rabat, in partnership with the CNESTEN and CNRST.
- Representative of the President of the University Mohammed V-Agdal, the Higher Education, Science & TechnologyStakeholders' Workshop To Be Organized scheduled by the ADBon 12-13 April, 2007 in Accra (Ghana), organized by the group ofAfrican Development Bank.
- Coordinator of the organization of the week "Youth and Science in Ayoubi high school in Sale every year since 2007, and this actions is carried out by the Hassan II Academy of Science and Technology
- Training on the fundamentals of radiation protection at the National Center for Prevention and Protection against Ionizing Radiation (CNPPRI), National Training Course on Fundamentals for Newly Recruited Staff CNPPRI in Gabon, Libreville, Gabon, 12-23 March 2007, as IAEA experts.

- President of the Organizing Committee and the Scientific Committee of the workshop "nuclear and conventional analytical techniques," 08 and 09 December 2006, jointly organized by the Faculty of Science and CNESTEN.
- Member and head of the organizing committee of the workshop RAIS "national infrastructure for radiation safety: towards effective and sustainable systems" for Francophone countries, 21-25 February 2005 in the Faculty of Science, in collaboration with the Agency international Energy Agency (IAEA), Rabat, Morocco
- Member of the organizing committee of the World Year of Physics, Faculty of Sciences Rabat 2005
- Coordinator of the participation of the physics department at the National Week of Science in 2004, Faculty of Sciences, Rabat.l.
- Member of the Organizing Committee and the Scientific Committee on first national days on the measures of low radioactivity and its applications in earth science, life and environment, 16-17 June 2004, Faculty of Kenitra
- Member of the organizing committee of the conference debate on the epidemiological study following the major nuclear accidents. 2004
- Member of the Organizing Committee of the conference : Radioprotection dans le secteur industriel : état des lieux et perspectives 2004.
- Member of the Organizing Committee of the conference « International Conference on National Infrastructure for Radiation Safety Towards Effective and Sustainable Systems », organised by The International Atomic Agency (IAEA) and the Université Mohammed-V Agdal du 1<sup>er</sup> au 5 September 2003 at Rabat
- Membre du comité scientifique de la conférence «African Research Reactors Conférence» Rabat-Maroc 17-18 mars 2003
- Membre du comité d'organisation et du comité scientifique « International Conference on NUCLEAR DESALINATION : Challenges and options », 16-18 October 2002 mai 2002, Marrakech.
- Member of the Organizing Committee « Les réacteurs de recherche Nucléaire, Expérience internationale et perspectives de développement au Maroc », 12 mai 2001, Rabat.
- Member of the Organizing Committee « droit Nucléaire: de la Réglementation à la pratique », 20 Mars 1999.
- Member of the Organizing Committee « Les nouveaux réacteurs de puissance », 18 Mai 1996
- Member of the Organizing Committee « La Gestion des Déchets Radioactifs », 6 Mai 1995
- Member of the Organizing Committee, « Utilisation des techniques nucléaires en Hydrologie », 12 Juin 1993
- Member of the Organizing Committee, « L'utilisation des techniques nucléaires en Médecine », 11 Avril 1992
- Member of the Organizing Committee, « La conservation des denrées alimentaires par ionisation », 20 Avril 1991
- Member of the organizing committee, "The Use of Nuclear Techniques in Morocco," June 13, 1987

1. Participation as speaker to the Third Africa Forum on Science, Technology and Innovation (STI) - Cairo, Egypt, February 10-12, 2018: Session J: Women in Science: Addressing the Gender Gap in the Field of Science, Technology and Innovation
2. "The International collaboration ATLAS and its impact on innovation in Morocco" ; International Conference on Women Leaders in Science, Technology and Engineering", WLSTE+10, 23-25 October 2017, Kuwait
3. "From particle physics with ATLAS Experiment to medical physics" , the 3<sup>rd</sup> ISTIC Biennial International Conference on Women in Science, Technology and Innovation (STI): Innovative Solutions by Women for UN Sustainable Development Goals 2016-2030", 15-16 May 2017, Kuala Lumpur, Malaysia.
4. « Les droits de la femme au Maroc » Lors de la rencontre "Partenariat Euro-Méditerranéen des Femmes", 7 mars 2017, Parlement Européen à Bruxelles,
5. « Concevoir et rédiger un projet de recherche », Premières Journées marocaines de la Relève en Recherche lors du concours internationale MT180, 28-29 septembre 2016
6. "Cooperation and increased mobility with the South Mediterranean".The 27th annual EAIE conference in Glasgow, 15–18 September 2015.
7. « Formation de demain pour le travail d'après demain » Lors de la 15<sup>ème</sup> édition des Rencontres Économiques d'Aix-en-Provence qui a eu lieu les 3, 4 et 5 juillet 2015, Pr. Rajaa Cherkaoui El Moursli. <http://lesrencontreseconomiques.fr/2015/sessions/comment-reconcilier-formations-offres-travail/>
8. Participation as speaker to the company forum of Fujitsu Limited at Yokohama, Kanagawa on 28 April, 2015 in Japan.
9. Ultrasound Image Enhancement Using An Adaptive Anisotropic Diffusion Filter . Y. Toufique, R. Cherkaoui El Moursli, Lh. Masmoudi, A. El Kharrim, M. Kaci, S. Allal. Biomedical Engineering (MECBME), 2014 2nd Middle East Conference on. 17-20 February, Doha, Qatar. <http://mecbme.net/>
10. A benchmark of clinical PET using GATE simulation on the computing Grid Y.Toufique, R. Cherkaoui El Moursli, M. Kaci, A. El Kharrim, R. Merrouch. Computer Systems and Applications (AICCSA), 2013 ACS International Conference on. 27-30 May 2013, Ifran/Fes, Morocco. [http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6616504&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs\\_all.jsp%3Farnumber%3D6616504](http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6616504&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6616504)
11. Simulation Of Two Commercial PET Using Gate and Grid Computing. Y.Toufique, R. Cherkaoui El Moursli, M. Kaci.
12. La Grille Informatique . Y.Toufique, R. Cherkaoui El Moursli, M. Kaci, A. El Kharrim, R. Merrouch. Les journées Doctoriales 2013 de la Faculté des Sciences de Rabat Agdale (FSR), Rabat, Maroc.
13. Validation of Two Pet Sytems using Gate. Y.Toufique, R. Cherkaoui El Moursli. La Rencontre Annuelle Plénière du Réseaux Universitaire de Physique des Hautes Énergies (RUPHE) organise à la Faculté des Sciences et Techniques de Tanger, Maroc.
14. « Status of the PCI 2011 project « I PCI2011 (A1/035250/11) Workshop, 27-28 June 2012, Rabat, Morocco. <http://indico.ific.uv.es/indico/conferenceDisplay.py?confId=617>
15. Grid Applied to Simulation of Pet Sytems with GATE. Y.Toufique, R. Cherkaoui El Moursli, M. Kaci. Workshop PCI2011, Grille de calcul et e-sciences : analyse des données du détecteur ATLAS et physique médicale, 27 au 28 Juin 2012, IFIC Valence Espagne
16. Use of Gate and Grid in Medical Physic. Y.Toufique, R. Cherkaoui El Moursli, M. Kaci Workshop PCI2010, Grille de calcul et e-sciences : analyse des données du détecteur, ATLAS et physique médicale, Du 10 au 12 Janvier 2012, IFIC Valence Espagne.
17. « Analysis platform at Rabat university and its evolution » PCI 2012 workshop, 20th April



- 2012, Valencia, Spain. <http://indico.ific.uv.es/indico/conferenceDisplay.py?confId=600>
18. International Collaboration ATLAS and its impact on scientific development in Morocco” R. Cherkaoui El Moursli, Conférence internationale Parmenides V, « Vers une vision intégrée du développement scientifique en Méditerranée » , Paris, March 20-21, 2012
  19. Grid Applied To Simulation Of Positron Emission Tomography (Pet) Systems Using Gate. Y.Toufique, M. Kaci, A. El Kharrim, R. Cherkaoui El Moursli1, R. Merrouch. 6<sup>th</sup> Iberian Grid Infrastructure Conference. 7-9 November 2012, Lisbon, Portugal. [www.ibergrid.eu/2012](http://www.ibergrid.eu/2012)
  20. Radiation Dosimetry In The New PET/CT Facility In Morocco. Cherkaoui El Moursli. RC, El kharrim, AE. Talsmat. KT, Toufique.Y, Verra, P. 13<sup>ème</sup> Congrès Internationale de Protection des Radiation IRPA, 13-18 Mai 2012, Glasgow, Royaume-Uni.
  21. “The data challenges of the Atlas experiment at the LHC (Large Hadron Collider)” Prof. Rajaa Cherkaoui El Moursli , Mohammed V Agdal University, -Rabat, corresponding member of the Hassan II Academy of Science and Technology, Morocco, Solemn Plenary Session 2012, computational engineering, Hassan II Academy of Sciences and Technology, February 15th to 17<sup>th</sup>, Rabat, Morocco.
  22. Simulation en TEP, Y.Toufique, R. Cherkaoui El Moursli, M. Kaci. La journée scientifique sur « Les applications médicales des rayonnements ionisants & Radioprotection », 24 Février 2011, Faculté des Sciences de Kenitra, Maroc
  23. “High Performance Networking for the Simulation Calculations and Data analysis in Nuclear Medicine and High Energy Physics” R. Cherkaoui El Moursli, **theme: “enhancing the contribution of nuclear science and technology towards supporting sustainable socio-economic development”** Nuclear Technology Centre, Sheda, Abuja, 31<sup>st</sup> October to 1<sup>st</sup> November 2011
  24. **Simulation of a Comercial Pet with Gate.** Y.Toufique, R. Cherkaoui El Moursli, M. Kaci. Workshop PCI2010, Grille de calcul et e-sciences : analyse des données du détecteur ATLAS et physique médicale, **05 au 06 Octobre 2011**, Faculté des Sciences de Rabat, Maroc.
  25. “The Routine Determination of Uranium Activity in Natural Rocks and Minerals by Gamma Spectrometry”, Fatima Zahra Boujrhah, Rajaa Cherkaoui El Moursli, International Conference Uranium Mining and Hydrogeology VI, 18-22 septembre 2011, Freiberg, Germany.
  26. “Direct and Indirect Effects of Uranium on Microstructure of Sedimentary Phosphate: Fission Tracks and Radon Diffusion”, Fatima Zahra Boujrhah, Rajaa Cherkaoui El Moursli, International Conference Uranium Mining and Hydrogeology VI, 18-22 septembre 2011, Freiberg, Germany.
  27. “Nuclear Physics Program in Morocco”, R. Cherkaoui El Moursli, Partons in Nucleons and Nuclei, September 26 – 30, 2011, Marrakech, Morocco  
[http://quarks.temple.edu/~partons/wordpress/?page\\_id=308](http://quarks.temple.edu/~partons/wordpress/?page_id=308)
  28. « The ATLAS experiment and the Grid », R.Cherkaoui El Moursli, Africa 6 2011 WORKSHOP & TUTORIAL EUMEDGRID/EPIKH at CNRST – Rabat, 16 June 2011.  
<http://agenda.ct.infn.it/conferenceOtherViews.py?view=standard&confId=523>.
  29. « La radioprotection et le développement durable » R.Cherkaoui El Moursli, Fatima Zahra Boujrhah, Colloque International sur l’Utilisation de la Radioactivité pour le Développement Durable, Meknés, 6 et 7 mai 2011 .  
<https://sites.google.com/site/colloqueurdd2011/programme>
  30. “The ATLAS Experiment and the High Performance Networking”, R. Cherkaoui El Moursli, The UAE Forum in Information and Communication Technology Research 2011 (ICTRF2011), Abudhabi. <http://events.kustar.ac.ae:81/events/ictrf2011/index.php?page=Presentations>
  31. “High performance networking for the ATLAS experiment” R. Cherkaoui El Moursli, ASREN Founders Meeting, 8 December 2010, Cairo, Egypte.  
<http://www.eumedconnect2.net/server/show/ConWebDoc.3277>

32. "characterization of clay used for beauty by moroccan traditional women", F.Z. Boujrrhal, R. Cherkaoui El Moursli, H. Poellmann, A. Winiarski, IVème Colloque International "Argiles et environnement ", 26 – 28 Octobre 2010, Oujda Maroc.
33. **Simulation Monte Carlo using Gate and medical image filtering using PDE**, Y. Toufique, Lh. Masmoudi, R. Cherkaoui El Moursli Séminaire Scientifique, **18 juin 2010**, IFIC Valence Espagne
34. **Filtering images by using a new approach of Anisotropic Diffusion**. Y.Toufique, Lh. Masmoudi, R. Cherkaoui El Moursli. Workshop PCI2009, Grille de calcul et e-sciences : analyse des données du détecteur ATLAS et physique médicale, **04 au 06 Octobre 2010**, Faculté des Sciences de Rabat, Maroc.
35. **Simulation of an Ordinary PET using Gate** . Y.Toufique, R. Cherkaoui El Moursli, Lh. Masmoudi..Workshop PCI2009, Grille de calcul et e-sciences : analyse des données du détecteur ATLAS et physique médicale, **04 au 06 Octobre 2010**, Faculté des Sciences de Rabat, Maroc.
36. "limonite: characterization by conventional and nuclear techniques" F.Z. Boujrrhal, R. Cherkaoui El Moursli, Symposium International sur la desertification, 12 – 14 Octobre 2010, Errachidia – Maroc
37. "Morocco in ATLAS", R. Cherkaoui El Moursli, II PCI2009 Workshop at IFIC, **18 - 19 November 2010** Valencia, Spain..  
<http://indico.ific.uv.es/indico/conferenceDisplay.py?confId=388>
38. "Le Programme National des Energies Renouvelables en Maroc" R. Cherkaoui El Moursli, *EPAM* 2010. 2ème Ecole de Physique Avancée au Maghreb, 29 Mai au 07 Juin 2010, à l'hôtel El Marsa Sidi-Fredj à Alger
39. "High-performance networking in the context of the ATLAS particle physics experiment " , R. Cherkaoui El Moursli, EU-Med Event 3 - Conference on e-Infrastructures across the Mediterranean,30-31 March 2010 Brussels, Belgium.  
<http://www.terena.org/activities/development-support/eumedevent3/agenda.html>
40. **Les Derniers Modes d'Imagerie Médicale** . Y.Toufique, Lh. Masmoudi, R. Cherkaoui El Moursli. **31 Décembre 2010**, La première édition de la journée des doctorants de la Faculté des Sciences de Rabat.Mar
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42. « The Post-Treatment 3D Scanner », Y. Toufique, R.Cherkaoui El Moursli, Lh.Masmoudi, M. Cherkaoui Malki, Le 2ème Congrès International Radiations Médicales : Recherche et Applications, 7-9 Avril 2010 à Marrakech – Maroc
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### **ASSOCIATIONS and civic engagement**

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1. Vice President of the Association of Engineers in nuclear engineering from Morocco (AIGAM). <http://aigam.ma>
2. Founding member and President of the Moroccan Association for Radiation Protection (AMR). <http://www.cnesten.org.ma/amr/>  
The Association AMR is member of the International Radiation Protection Association (IRPA). <http://www.irpa.net/page.asp?id=178>
3. Member of International Radiation Physics Society (IREPS) since 1994
4. Visiting Member of the French Association for the Advancement of Science (AFAS)
5. Sponsorship of the scientific club of Lycée Ayoubi, Salé
6. Many public conferences in Moroccan high schools

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### **Publications**

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Search for diboson resonances with boson-tagged jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector M Aaboud, G Aad, B Abbott, O Abdinov, B Abeloos, SH Abidi, ... Physics Letters B 777, 91-113	5	2018
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Search for $W \rightarrow tb$ decays in the hadronic final state using pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector M Aaboud, A Kupco, S Webb, S Sekula, T Dreyer, Y Wang, K Jakobs, ...		2018

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