

Zoubair Mariam
Current Ph.D in Nuclear Physics

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Postgraduate :

2009-2010: Current Ph.D in Nuclear Physics at Faculty of Sciences, University Abdelmalek Essaadi, Tetouan (Morocco). Laboratory of Radiation and Nuclear Systemes.

2006-2008: Master of Research in Material Physics and Radiation : Option Radiation at Faculty of Sciences, University Abdelmalek Essaadi, Tetouan (Mrocco). Laboratory of Radiation and Nuclear Systemes.

2002-2005: Bachelor in Material Physics option Radiation, University Abdelmalek Essaadi, Tetouan (Morocco). Laboratory of Radiation and Nuclear Systemes

Professional Expetise:

2009-2010: Current Ph.D at Laboratory of Radiation and Nuclear Systemes, University Abdelmalek Essaadi, Tetouan (Morocco) on collaboration with Varian Company (Paolo Alto, USA).

Title : Study the characteristics of the head of a Medical Linear Accelerator and its degradation Induced by irradiation of its structural material.

2008-2009 : Formation at Microelectronics Laboratory of Universidad de Cadiz, Spain on the following technique :

ü MEB , MET, STM, AFM

ü X – Ray Detector, Compression Test, Traction, Tire, Rupture by Tire

2008-2009 : Visit at Environement Laboratory of Faculty of Sciences de Granada, Spain to learn about the studies of ambient Radioactivity and Meteorological Parameters.

2006-2008: Master Training Course at Laboratory of Radiation and Nuclear Systemes, University Abdelmalek Essaadi, Tetouan (Morocco)

Subject : Study of Factor Accumulation "Buildup" Dosimetry in Gamma al with Code Mercury 6.3.

2005-2006: Bachelor Training Course at Laboratoory of Radiation and Nuclear Systemes, University Abdelmalek Essaadi, Tetouan (Morocco)

Subject : Environnement and Radioactivity – Study of Béryllium 7 Concentration according to the Meteorological Parameters.

Competences:

Scientists :

- § Mechanical and Physical Materials Properties, Fluid Mecanics
- § Physics and Reactor Calculation (Physics of reactors and repeat calculation, technology and Nuclear Security)
- § Nuclear Reactions, Radiation Detection , Probabilities and Monte Carlo Method
- § Nuclear and Neutronic Energy (Neutron physics, Neutron Scattering, Neutron Resonances, Thermonuclear Fusion).
- § Semiconductor materials and nanostructures (Energy Bands, Concept of Effective Mass Transportation, Semiconductor Intrinsic, Extrinsic, p-n junction).
- § Ionizing Radiation and Applications (Ionizing Radiation and Their Applications: Radiation, Medical Applications, Industrial Applications and Environmental Impacts).
- § Image Treatment : Visual Perception, Image Representation, Unitary Transformations, Linear Filtering, Enhancement and Restoration, Image Segmentation...
- § Atomic and Molecular Spectroscopie.

Techniques :

- § Monte Carlo modeling
- § Code MCNPX
- § Linux
- § Programmation : Matlab, Maple9.

Language skills :

§ French, Spanish : Fluently

§ English : Fairly

Others Activities :

Member of Scientific Days Organizing Committees of the Doctoral School of Physics,
University Abdelmalek Essaadi, Tetouan (Morocco)

ü Thesis Project and Complementarities formation.

ü Scientific Research Promotion on the urgent action plan .

COMMUNICATIONS AUX CONGRES

§ 14th International Topical Meeting on Research Reactor Fuel Management
RRFM2010, " THE STUDY OF TIME-DEPENDENT NEUTRONICS PARAMETERS OF
THE 2MW TRIGA MARK II MOROCCAN RESEARCH REACTOR USING BUCAL1
COMPUTER CODE"

El Bakkari, B.; Nacir, B.; El Younoussi, C.; Boulaich, Y.; Riyach, I.;
Otmani, S.; Marrich, I.; Elhachmi, B.; El Bardouni, T.; Meroun, O.; Boukhal, H.;
Zoubair, M.; Htet, A.; El Mahjoub.

§ 14th International Topical Meeting on Research Reactor Fuel Management
RRFM2010, " ANALYSIS OF THE CREOLE EXPERIMENT ON THE REACTIVITY
TEMPERATURE COEFFICIENT USING THE MCNP5 CODE WITH ENDF/BVII
AND JEFF3.1 NEUTRON CROSS SECTION EVALUATIONS"

Bardouni, T.; El Younoussi, C.; El Bakkari, B.; Boukhal, H.; Zoubair, M.; Bouzekri, N.;
Erradi, L.; Santamarina, A.; Chakir, E.M.,

§ 14th International Topical Meeting on Research Reactor Fuel Management
RRFM2010. " Computational Analysis of neutronic parameters of CENM
TRIGA MARK II research reactor"

C. El Younoussi, B. El Bakkari, B. Nacir, Y. Boulaich, D. Riyach, S. Otmani, I. Marrich,
H. Badri, A. Htet, T. El Bardouni, H. Boukha, M. Zoubair, M. Ossama, E. Chakir.

§ Le 2ème congrès international – Radiations médicales : Recherche et Applications,
Marrakech, 6-9 Avril 2010. " Senhou, Monte Carlo Calculation of Dose Distribution in

external photon beam Radiotherapy'' L. El Gonnouni, T. El Bardouni, M. Zoubair, M. Idaomar, A.

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