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Department of Physics

Mohammed V University

Rabat Morocco

**Research interests**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Radiation Detection, Protection and measurement, Radiation Physics, Monte Carlo Simulation, Deterministic Simulation, Experimental Nuclear Physics, Nuclear Science.

**Education** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Since 2016: Ph.D. Candidate, Nuclear physics, Mohammed V University, Faculty of Science,

Rabat Morocco.

2014-2016: Master's degree in Nuclear Physics and Radiation Technologies, Mohammed

V University, Faculty of Science, Rabat Morocco.

2013-2014: Bachelor's Degree in Physics, Ibn Tofail University, Faculty of Science, Kenitra

Morocco.

2011-2013: DEUG Degree, Physics, Ibn Tofail University, Faculty of Science, Kenitra Morocco.

2010-2011: High School Final exam “BAC”, Experimental Science Physics, Sidi Allal Tazi High

School, Kenitra Morocco.

**Certificates**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Certified Nuclear Security Professional: The World Institute of Nuclear Security WINS.
* Twelve Certificates from: The International Atomic Energy Agency “IAEA”. IAEA OPEN-LMS E-Learning Platform.
* Ten Certificates from: The World Institute for Nuclear Security Science & Policy Initiatives. ”NSSPI”. NSSPI E-Learning Platform.
* NATO Training Course “The Nuclear security, and the Non-Proliferation from an International Perspective”.
* Other certificates

**Professional affiliations and professional experience**\_\_\_\_\_\_\_\_\_

* Member of the organizing committee, The 4th International Conference on Physics and Technology of Reactor and Applications. Marrakech.
* Practical work courses for Master’s degree students, Neutronics simulation methods and codes. Mohammed V University, Faculty of Science.
* Co-supervision of Master's students. Mohammed V University, Faculty of Science.

**Publications** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Peer-reviewed journal articles***

Chetaine, A., Jalil, A., **Kabach, O**., Darif, A., Saidi, A., Benchrif, A., Hamid, A., 2018. Evaluation of the IAEA 2D PWR benchmark problem using TRIVAC and openMOC codes. Ann. Univ. Craiova, Phys. 28, 24–30.

Darif, A., Chetaine, A., **Kabach, O.**, Mghar, M., Saidi, A., 2017. Neutronic analysis of moroccan TRIGA MARK-II research reactor using the DRAGON.V5 and TRIVAC.v5 codes. Ann. Univ. Craiova, Phys.

Darif, A., Chetaine, A., Mghar, M., **Kabach, O**., 2018. Investigation of the influence of various reflector elements material types on the core nuclear parameters of the 2 MW Triga Mark-II research reactor using the Monte Carlo code. TURKISH J. Phys. https://doi.org/10.3906/fiz-1707-1

**Kabach, O**., Chetaine, A., Benchrif, A., 2019. Processing of JEFF-3.3 and ENDF/B-VIII.0 and testing with critical benchmark experiments and TRIGA Mark II research reactor using MCNPX. Appl. Radiat. Isot. 150, 146–156. https://doi.org/10.1016/j.apradiso.2019.05.015

**Kabach, O**., Chetaine, A., Darif, A., Jalil, A., Benchrif, A., Amssil, H., 2018. Processing of the ENDF / B-VIII . 0β6 Neutron Cross-Section Data Library and Testing with Critical Benchmarks , Oktavian Shielding Benchmarks and the Doppler Reactivity Defect Benchmarks. Ann. Univ. Craiova, Phys. 28, 79–98.

**Kabach, O**., Chetaine, A., Jalil, A., Darif, A., Saidi, A., 2017. Processing and benchmarking of evaluated nuclear data file/b-viii.0β4 cross-section library by analysis of a series of critical experimental benchmark using the monte carlo code MCNP(X) and NJOY2016. Nucl. Eng. Technol. 49, 1610–1616. https://doi.org/10.1016/j.net.2017.08.017

**Kabach, O**., Chetaine, A., Benchrif, A., Amsil, H., 2019. Neutronic investigation of the thorium-based mixed-oxide as an alternative fuel in the TRIGA Mark-II research reactor – Part I: A beginning of life calculations. Ann. Nucl. Energy 107075.

https://doi.org/10.1016/j.anucene.2019.107075

**Conference Presentations \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***Posters***

Charouq, S., Chetain, A., Amsil, H., Benchrif, A., **Kabach, O**., Jalil, A., Lebied, A, 2018. Optimization of a new cuboid nuclear fuel cell concept for long life SMR. The Fourth International Conference on Physics and Technology of Reactors and Applications.

Jalil, A., Chetaine, A., **Kabach, O**., Amsil, H., Embarch, K., Laraki, K., Marah, H., 2018. OpenMC Monte Carlo modelling of TRIGA research reactor. The Fourth International Conference on Physics and Technology of Reactors and Applications.

**Kabach, O**., Chetaine, A., Darif, A., Jalil, A., Saidi, A., Benchrif, A., Amsil, H., 2018. Processing of the endf/b-viii.0β6 neutron cross-section data library and testing with critical benchmarks and Octavian shielding benchmarks. The Fourth International Conference on Physics and Technology of Reactors and Applications.

Amsil, H., Chetain, A., Benchrif, A., Charouq, S., Lebied, A, **Kabach, O**., Jalil, A., 2018. Optimization of a new cuboid nuclear fuel cell concept for long life SMR. European Research Reactor Conference, RRFM.

**teaching interests \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lectures:** Monte Carlo Simulation, Deterministic Simulation, Experimental Nuclear Physics, Nuclear Science.