

CURRICULUM VITAE

Personal Information :

Name: Dris Boubaa

Nationality: *Algeria*

Date of Birth: 17/01/1979

Marital State : *Married*

Address: *BL 329 cedex 02 El Milia Jijel, Algeria*

Professional address : *Abbes Laghrour University of Khenchela, Faculty of sciences and Technology,*

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Knowledge of languages:

Arabic : *mother language*

English: *good in speaking, reading and writing*

Education:

1- Habilitation (2022): Abbes Laghrour University of Khenchela - Algeria.

2- Doctorate (2018): Hassiba Ben Bouali Univesity of Chlef- Algeria.

Major: High Energy Physics.

- **Title:** Supersymmetric CP violation in B-decays at LHCb Experiment.

- **Supervisor:** Prof. Shaaban Khalil (Zewai City of Science andTechnology- Egypt).

- **Co-supervisor:** Prof. Achor Benslama (Mentouri University of Constantine1 – Algeria).

- **Co-supervisor:** Prof. Stifano Moretti (University of Southampton, UK).

3- Magister (2006): Alarbi Ben Mhidi University of Oum Elbouaghi – Algeria.

Major: Theoretical Physics.

- **Title:** CP violation in Nocommutative Standard Model.

- **Supervisor:** N.Mebarki (Mentouri University of Constantine).

4- DES (2002): Mentouri University of Constantine.

Major: Theoretical Physics.

Professional Position:

Assistant Lecturer class B (2007-2009), University of Chlef.

Assistant Lecturer class A (2009-20018), University of Chlef.

Lecturer class B (2018-2020), University of Chlef.

Lecturer class B (2020-2021), University of Chenchela.

Lecturer class A (2022), University of Chenchela.

Teaching Experience:

- 1- Course Lecturer, Particle Physics (2017-2020), University of Chlef.
- 2- Course Lecturer, Group Theory (2016-2020), University of Chlef.
- 3- Course Lecturer, Advanced Quantum Mechanics (2016-2020), University of Chlef.
- 4- Course Lecturer, Quantum Mechanics (2011-2014), University of Chlef.
- 5- Course Lecturer, Special Relativity (2016-2020), University of Chlef.
- 6- Course Lecturer, Physics1 & Physics2 (2007-2014), University of Chlef.
- 7- Course Lecturer, Vibrations and waves (2011-2013), University of Chlef.
- 8- Course Lecturer, Electromagnetism (2020-2021), University of Khenhenchela.

Master supervision :

1- Tahar Taiba Asma, master on « Study of lepton flavour violating decays $B_s \rightarrow e^\pm \mu^\mp$ in the MSSM » (2019)

2- Bensahraoui Malika, master on « Branching Ratios of $h \rightarrow e\mu$ and $Z \rightarrow e\tau$ in supersymmetric models » (2020)

Areas of Research Interest :

High Energy Physics

Physics beyond the Standard Model of Particle Physics, Supersymmetry, CP Violation.

Research Projects :

1- PRFU Project N°: B00L02UN400120230002

Title: Phenomenological aspects of Beyond Standard Model Physics.

2- CNEPRU Project N°: D01720130042

Title: Cosmology, Astroparticle and Particle Physics.

3- CNEPRU Project N°: D01720090023

Title: Cosmology, Astroparticle and particle Physics.

4- PNR Project: Particle Physics/ Cosmology: the interface.

5- H2020-MSCA-RISE-2014 Grant No. 645722 (NonMinimalHiggs), UK.

Scientific Activities:

- 1- The 30th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY2023), University of Southampton, United Kingdom.
- 2- 10th International Conference on High Energy Physics and Astroparticles (October 2019), Mentouri University of Constantine – Algeria.
- 3- Fifth Next PhD Workshop : Higgs and Beyond (2015), United Kingdom.
- 4- German-Egyptian school of particale physics(2013), Cairo-Egypt.
- 5- Third International High Energy Physics School (2012), Cairo University & British University in Egypt .
- 6- Summer School on Particle Physics, (2011) ICTP, Treste –Italy.
- 7- Third School in Theoretical Physics (2009), University of Jijel – Algeria.
- 8- Egyptian School in High Energy Physics (2009), BUE University- Egypt.
- 9- First School in Theoretical Physics (2004), University of Jijel – Algeria.
- 10- Seventh School in High Energy Physics(2004), Mentouri University of Constantine – Algeria.

Publications:

- 1- Dris Boubaa, Shaaban Khalil, Stefano Moretti, Cem Salih Un. Explaining the R(D) and R(D*) Anomalies in the B-L Supersymmetric Standard Model with Inverse Seesaw Mechanism. *Phys.Rev.D* 107 (2023) 7, 075024.
- 2- Dris Boubaa, Shaaban Khalil, Stefano Moretti. Alleviating the $B \rightarrow D \tau \nu_\tau$ and $B \rightarrow D^* \tau \nu_\tau$ puzzle in the MSSM. *Int.J.Mod.Phys. A*34 (2019) no.32, 1950209.
- 3- Dris Boubaa, Alakabha Datta, Murugeswaran Duraisamy, Shaaban Khalil. Predictions for $B \rightarrow \tau \mu + \mu \tau$. *Int.J.Mod.Phys. A*28 (2013) 1350153.
- 4- Dris Boubaa, Gaber Faisal, Shaaban Khalil. Beyond SM Physics and searches for SUSY at the LHC . ArXiv:[2005.08069](https://arxiv.org/abs/2005.08069) [hep-ph]
- 5- Dris Boubaa, Shaaban Khalil, Stefano Moretti. Explaining B decays anomalies in SUSY models. ArXiv:[2004.07939](https://arxiv.org/abs/2004.07939) [hep-ph].

Programming Skills :

Algebraic : Mathematica, Maple, FormCalc, LoopTools.

HEP tools : FeyArts, FormCalc, PreSARAH, SARAH, SPheno, Flavio.