



Ilyes Mohamed Elamine BETKA

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KEYWORDS

Non linear optics – Ultrafast optics – THz sources

ABOUT ME:

PhD candidate at IMS laboratory, university of bordeaux. Major interests in nonlinear and ultrafast optical applications.

PROFESSIONAL AND ACADEMIC CAREER :

- *PhD in Physics at the IMS lab, Bordeaux/France (2022-2025) :*
Nonlinear optical process in THz waveguides
- *Intern at ILM & INL lab, Lyon/France (2022 - 5 months) :*
Nir- Mir platform for the characterization of non linear optical materials
- *Intern at ILM lab, Lyon/France (2022 - 2 months) :*
Micro-fractures in metals
- *Intern at ILM lab, Lyon/France (2022 - 2 months) :*
Rare earth micro-emitters on silicon platform

TECHNICAL SKILLS

- Modelling nonlinear and ultrafast optical phenomena with Matlab and FEM.
- Optical Lab Skills: Optical alignment and metrology
- Data analysis and interpretation

ACADEMIC BACKGROUND

- 2022 – 2025 : **PhD in Physics** University of Bordeaux, France
- 2020 – 2022 : **Master degree in Nanoscale Engineering** Ecole centrale Lyon
- 2017- 2020 : **Master degree in Mechatronics Engineering** Óbuda University, Hungary
- 2014 – 2017 : **Bachelor degree in electromechanical engineering** University of Mohamed Khider Biskra, Algeria

AWARDS & RECOGNITIONS

- Ranked 1st within the group of Bsc Electromechanical engineering students of the promotion 2014- 2017, made up of 31 graduate students.
- Msc degree in Mechatronics and nanoscale engineering with an overall classification: Excelent

OTHER SKILLS AND LANGUAGES

➤ **IT skills :**

- R – Matlab
- Finite element method

➤ **Languages:**

- Arabic – French
- English – German (A2)

Hobbies :

- Football – Runing – Martial arts