

# CURRICULUM VITAE AND SCIENTIFIC WORKS

## Of Talla Mbé Jimmi Hervé

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### **CIVIL AND PROFESSIONAL STATUS:**

Date and place of birth: 01 August 1981 in Cameroon.

Marital status : Bachelor.

Nationality : Cameroonian

Professional status: PhD Student

Field of research: Optics

Professional address: LaMSEBP (Laboratory Modelling and Simulation in Engineering and Biological physics), Faculty of Sciences, University of Yaoundé I, P. O. Box 812 Yaoundé, Cameroon

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International representation: -OSA (Optical Society of America) member (President of OSA Yaounde 1 Student Chapter since 2008)

-CPS (Cameroon Physical Society) member

### **DIPLOMA:**

Since 2008: PhD Student in Optics

2005-2007: First Year Doctorate Degree « D.E.A » *University of Yaoundé I, Cameroon.*

2004-2005: Master's Degree Diploma of Physics, Department of Physics, Faculty of Sciences, *University of Yaounde 1, Cameroon,*

2003-2004: Bachelor's Degree Diploma of Physics, Department of Physics, Faculty of Sciences, *University of Yaounde 1, Cameroon,*

2000-2001: G.C.E advanced level, Bilingual Government Secondary School Bafoussam, Cameroon

### **Also:**

2005-2006: Diploma of Teacher For Government Secondary School Grade 2 (DIPES 2), *Higher Teachers' Training College University of Yaoundé I, Cameroon.*

### **RESEARCH EXPERIENCE:**

2007-2010: Researcher with Prof. Paul Woafo

### **TEACHING EXPERIENCE:**

- Laboratory (LaMSEBP) assistant in electronics for first year masters degree course

## **FIELD OF RESEARCH AND SCIENTIFIC DISSERTATIONS:**

### **\*Field of research:**

- 1- Non-Linear Optics
- 2- Electronics
- 2- Dynamics of beam, plate and shell
- 3- Musical instruments

### **\*Topics of research:**

- Non-linear dynamics and Chaos
- Synchronization
- Lasers: VCSELs, Ring Laser, Opto-mechanics
- Modelling and characterization of Musical Instruments

### **\*Scientific Dissertations:**

- **J.H. Talla Mbé** « Scientific Study of Drum », Dissertation of First Year Doctorate Degree « D.E.A » *University of Yaoundé I, May 2007, Cameroon*
- **J.H. Talla Mbé** , “*Vibration control of beam by use of smart materials* ” **DIPES 2** Dissertation of Higher Teachers’ Training College, *University of Yaoundé I, June 2006, Cameroon.*

## **PARTICIPATION OF SEMINARS, SCHOOLS OR CONFERENCES:**

- Third Hands-On Research in Complex Systems School**, University of Buéa, Cameroon, August 02-13, 2010
- Cameroon Physical Society (CPS) “Low Cost High Physics and Appropriate Solutions to Real Life Problems in Developing Countries.”** University of Yaoundé I, Cameroon, December 08-10, 2009

### Talk entitled:“Scientific Study of Drum”

- Alexander Von Humboldt “Kolleg” 2009 “Specialized Regional Networks to Enhance Research-Development in Cameroon.” University of Yaoundé I, Cameroon, November 19-21, 2009

### Talk entitled “Mathematical Modeling of Drum and Experimental Investigation”: *First Price received*

- COPROMATH 6, Workshop on Contemporary Problems in Mathematical Physics. October 31<sup>st</sup> - November 6<sup>th</sup>, 2009, Cotonou, Bénin Republic.

### Talk entitled “Mathematical Modeling of Drum and Experimental Investigation”

- EGA 2008, Transdisciplinary workshop “Complexity science and numerical simulation” and Project Conferences “Pedagogical innovation, integrated research and competencies transfer”. 8-11 September, 2008. ENSP, Yaoundé, Cameroon

### **PUBLICATIONS IN INTERNATIONAL PHYSICS JOURNALS:**

#### **2009**

1-**J.H. Talla Mbé** and P. Woafo, “*Electronic Model of VCSELs: Switching Mode, Control of threshold current and saturation*”, Opt. Commun. 282, 2009.

#### **2010**

2-**J.H. Talla Mbé**, K.S. Takougang and P. Woafo, “*Chaos and Pulse Packages in Current-modulated VCSELs*”, Phys. Scr. 81, 2010.

### **LANGUAGE**

- ❖ Excellent French
- ❖ Average English

### **HOBBIES and OTHERS**

Sport (Football), Games (Chess, Scrabble), Volunteer first-aid worker.