

# Personal Introduction

**Nguyen Thi Hong-Van**

**Institute of Physics (IOP),  
Vietnam Academy of Science and Technology, Ha Noi  
&  
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(IFIRSE), Quy Nhon**

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- **Full name:** NGUYEN Thi Hong-Van
- **Nationality:** Vietnam
- **Scientific degree:** PhD
- **Current position:**
  - Principal researcher (permanent staff member since 2008)  
Institute of Physics (IOP)  
Vietnam Academy of Science and Technology
  - Deputy leader of Neutrino Group  
Institute for Interdisciplinary Research in Science and Technology (IFIRSE)  
Quy Nhon, Binh Dinh, Vietnam

- **1998-2002:** undergraduate honor program in theoretical physics (University of Education, Hanoi, Vietnam).
- **2003 - 2005:** Master programme in theoretical physics and mathematical physics (Institute of Physics, Hanoi, Vietnam).
- **2006-2007:** ICTP diploma programme in high energy physics (Abdus Salam International Centre for Theoretical Physics, Trieste, Italy).

**Thesis:** *Discovering the Standard Model Higgs at the LHC.*

- **2008-2011:** Doctor of Philosophy studies in experimental high energy physics (University of Paris Diderot and IRFU, CEA (Commissariat a l'energie atomique), Saclay, France).

**Thesis:** *Measurement of transverse momentum spectrum of  $W$  bosons at the LHC with the ATLAS detector*

## Professional employments

- **2008 - present:** Researcher (permanent staff member), IOP, Hanoi.
- **2012 - present:** Lecturer for bachelor students at the University of Science and Technology of Hanoi (USTH, Vietnam - France Univ.).
- **2008-2011:** PhD fellow, CEA, Saclay, France.
- **2002 - 2008:** Junior researcher (long-term position), IOP, Hanoi.

## Research experiences

- **Experimental high energy physics:** physics analysis of precision measurements ( $W$  mass;  $W$ ,  $Z$  cross section and top quark mass, cross section) and search for new physics at the LHC with the ATLAS detector.
- **Phenomenological physics:** Higgs physics and neutrino physics (sterile neutrinos and models with flavor symmetry of neutrino masses and mixing).
- **Mathematical physics:** quantum groups/super-groups, super-symmetry and integrable systems.

- Working with NEUT, a neutrino event generator.
- Improving neutrino flux uncertainty with the J-PARC neutrino beam monitors and T2K near detector: this will be done during my short-term visit in KEK
- Theory on neutrino: flavor symmetry and other models of neutrino masses and mixing
- CP violation