

CURRICULUM VITAE

PERSONAL INFORMATION

Last name (s), First name(s): NGUYEN, Tien-Hien

Gender: male

Date of birth: September 11, 1981

E-mail(s): tienhien81@gmail.com

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EDUCATION,

- 2010 – 2013: PhD in Nuclear physics, specialty Radiation Effects, Nuclear Materials, University Paris-Sud, France
- 2009 – 2010: Master 2 Nuclear Energy, Specialty Nuclear Engineering, , Join Program between University Paris-Sud, France and INSTN/CEA Saclay, France
- 2008 – 2009: Master 1 Fundamental Physics, , University Paris-Sud, France
- 1999 – 2003: Bachelor of Physics, Specialty Theoretical Physics and Mathematical Physics, Hanoi University of Sciences, Vietnam

PROFESSIONAL EXPERIENCES

- PhD Researcher in Nuclear Material, Centre of Nuclear Spectrometry and Mass Spectrometry (CSNSM), University of Paris-Sud, France

Advisor: Professor Frédéric GARRIDO

Thesis title: Channelling investigation of the behaviour of urania under low-energy ion irradiation

- Master Internship, Development of a tool for creation of Angular quadrature formulas, CEA Saclay, France
- 2003 - 2008 and from 2013 until now: Teaching and Researching assistance at the Department of Physics, Vietnam National University of Agriculture, Vietnam. Teaching subject: Fundamental physics, Practice physics

Teaching Subjects: General physics, General physics A, General physics A2, Physics B, General physics for Advanced Crop Science Program (in English)

- 2003: Minor Thesis

PUBLICATIONS

- Tien-Hien Nguyen, Frédéric Garrido, Aurélien Debelle, Stamatis Mylonas, Lech Nowicki, Lionel Thomé, Jérôme Bourçois, Jérémy Moeyaert, *Radiation damage in urania crystals implanted with low-energy ions*, Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Volume 326, 1 May 2014, Pages 264-268
- Tien-Hien Nguyen, Aurélien Debelle, Alexandre Boulle, Frédéric Garrido, Lionel Thomé, Valérie Demanged. *Mechanical response of UO2 single crystals submitted to*

low-energy ion irradiation. Journal of Nuclear Materials Volume 467, Part 2, December 2015, Pages 505-511

- Aurélien Debelle, Jean-Paul Crocombette, Alexandre Boule, Alain Chartier, Thomas Jourdan, Stéphanie Pellegrino, Diana Bachiller-Perea, Denise Carpentier, Jayanth Channagiri, Tien-Hien Nguyen, Frédéricko Garrido, and Lionel Thomé, *Lattice strain in irradiated materials unveils a prevalent defect evolution mechanism*, Phys. Rev. Materials 2, 013604 – Published 16 January 2018

COMMUNICATIONS

- Poster communication, Experimental simulation of the nuclear fuel behavior by ion-beam techniques, Tien-Hien NGUYEN, Aurélien DEBELLE, Frédéricko GARRIDO, Lionel THOMÉ, Journée des doctorants de l'École Doctorale MIPEGE, April 2011

- Poster communication, Radiation-induced defects in Urania single crystal, Tien-Hien NGUYEN, Frédéricko GARRIDO, Aurélien DEBELLE, Stamatis MYLONAS, Lionel THOMÉ, Journée des doctorants de l'École Doctorale MIPEGE, March 2013

- Poster communication, A new model for the interpretation of channeling data in ion-implanted urania crystals, Tien-Hien NGUYEN, Frédéricko GARRIDO, Cyril BACHELET, Aurélien DEBELLE, Lech NOWICKI, Stamatis MYLONAS, Lionel THOMÉ, 21st International Conference on Ion Beam Analysis (IBA 2013) : Seattle, Washington, USA, June 23-28, 2013.

- Oral communication, Effects of low energy ions irradiation on uranium dioxides, Tien-Hien NGUYEN, Frédéricko GARRIDO, Journée des doctorants et des Post-Doctorants à l'École Polytechnique, October 2011

- Oral communication, Effects of low energy ions irradiation on uranium dioxides, Tien-Hien NGUYEN, Frédéricko GARRIDO, Journée des doctorants de l'École Doctorale MIPEGE, April 2012

- Oral communication, Channelling study of irradiation-induced defects in urania single crystals, Tien-Hien NGUYEN, Frédéricko GARRIDO, Aurélien DEBELLE, Stamatis MYLONAS, Ion Beam Analysis Francophone Conference, Château de Cadarache, 11-14 December 2013

- Oral communication, Radiation induced effects in Urania (UO₂) single crystals (Ballistic and chemical contribution), Tien-Hien NGUYEN, Frédéricko GARRIDO, Aurélien DEBELLE, Stamatis MYLONAS, Lech NOWICKY, Lionel THOMÉ, The 17th international conference on Radiation Effects in Insulators, Helsinki, Finland, June 30 – July 5, 2013

LANGUAGES

English: Reading, speaking, writing

French: Reading, speaking, writing

INFORMATICS

Data processing: Sigmaplot, Origin, Gnuplot

Office: MS office, LaTeX

OS: Windows, Linux, Mac OS