

## PERSONAL INFORMATION

THERS, Dominique (ORCID n° 0000-0002-9052-9703)

Date of birth: 29/09/1972-Nationality: French

### • EDUCATION

- 2018           **HDR** (Habilitation) in Experimental Nuclear Physics, Université de Nantes, France  
Date defended: 25/06/2018  
Title: “PIM, ReStoX and MIMELI. Innover pour repousser les limites et mieux observer la Nature“
- 1997-2000   **PhD** “Développement du détecteur gazeux Micromégas pour l’expérience COMPASS“  
CEA/SPhN, Université Blaise Pascal, Clermont-Ferrand, France  
Supervisors: Fabienne Künne (CEA) and Alain Falvard (CNRS)
- 1996           **Master-DEA** Physique Corpusculaire, Université Blaise Pascal, Clermont-Ferrand, France  
First of the class

### • CURRENT POSITION(S)

- 2020 –       **Professor**, chair : « Physique Expérimentale des Particules et Instrumentaliste pour les Applications Médicales », IMT Atlantique, France
- 2010 –       **Xénon Research Group leader**, IMT Atlantique/Subatech, France  
I am leading the scientific activities of the research team I created in 2010, it now includes 6 permanent researchers and 10 non-permanent scientists. We form a technological research team, unique in France, specializing in experiments involving liquid xenon targets for particles detection and applications

### • PREVIOUS POSITIONS

- 2002 – 2020   **Assistant Professor**, IMT Atlantique/Subatech, France

### • FELLOWSHIPS AND AWARDS

- 2000 – 2002   **Postdoc** at IMT Atlantique/Subatech, France

### • SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

Since the beginning of my career, I have directly supervised research activities of 8 postdocs (6 completed and 2 ongoing), 17 PhD students (11 completed and 6 ongoing) and 22 master research interns. Most of them now work in industry or in research around instrumentation or data processing.

### • TEACHING ACTIVITIES

As professor at **IMT Atlantique**, I am teaching the following courses: Physics Sciences (Year 1), Digital Electronics (Year 1), Instrumentation and Particle detectors (Year 3, master). The contact with these young future engineers is very profitable for my research activities, it brings a lot of coherence and renewal.

### • ORGANISATION OF SCIENTIFIC MEETINGS

Since 2008, I am member of the RD51 CERN research network hosting the International MPGD conference organization. In 2018, I served as Local Organization Committee member for MPGD2018 at La Rochelle France.

In 2017, I joined the International Advisory Committee of XESAT conferences. I have been the chair of the session liquid xenon applications for medical imaging of the XESAT2018 at Tokyo, Japan. In May 2022, I organized as co-chair the XeSAT2022 international workshop which has been held for the first time in Europe, at Coimbra University in Portugal. In June 2023, I am chairing the XeSAT2023 international workshop at Nantes.

### • REVIEWING ACTIVITIES

I have served 13 times as an external reviewer or examiner in **PhD Committees** and 5 times in **HDR Committees**. I did also more than fifty **Scientifics evaluations** for funding agencies in France (Région des Pays de la Loire, Région Ile-de-France, Région Nouvelle Aquitaine, ANR agency, Inserm, LABEX P2IO, CEA/DSM/IRFU) and in Switzerland (SNF and ETH Zürich). I also served in some cases as external **Scientific Expert** during several Scientific Council programmed after the Scientifics evaluation of the projects.

I have served as Peer review member of scientific proposals submitted to the **ERC Starting Grant** Call in 2020 and I served as a **review panel member** “ Défi de tous les savoirs, spécialité physique subatomique “ from the ANR agency in 2014, 2015 and 2016. I did also **referee** of few articles edited by Nuclear Instruments and Methods for Nuclear Physics, volume A, mainly connected to micropattern gaseous detector development or liquid xenon properties and applications.

I am also considering local contribution in the reviewing activities: I served 4 years (2010-14) as member of the **Scientific Advisory Board of Ecole des Mines de Nantes**, and 4 years (2008-12) as member of **Subatech research laboratory Council**. Since 2017, I am representing Subatech at the CIMA (Centre d’Imagerie Multimodale et Applications) **Scientific Committee at the Nantes Hospital/France**.

Finally, since 2018 I am member of the **XESAT International Advisory Committee conferences** reviewing talk and abstract contributions, and in 2018 member of the **MPGD2018 local organizing committee conference** reviewing abstracts and proceedings.

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

- 2020 – Founding member of the GDR DUPHY, co-convener of the WG5 targeting Future Experiments, <https://gdrduphy.in2p3.fr>
- 2012 – Founding Member of the AI4R start-up, <https://www.ai4r.com>
- 2010 – Member of the DARWIN project Executive Committee
- 2009 – Member of the XENON collaboration Executive Committee, scientific coordinator in France from 2017 to 2023
- 2008 – Member of CERN RD51 research network, national CNRS responsible in 2022
- 2006 – Founding member of the GDR MI2B, <https://www.mi2b.fr>

- **MAJOR COLLABORATION**

XENON collaboration :

- 31 labs involved, more than 160 researchers’ members.
- Research topics: leading world collaboration for Direct Dark Matter Search and Rare Events Physics
- Main collaborators: Prof. Elena Aprile, Columbia University, US - Prof. Francesco Arneodo, NYU Abu Dabi, United Arab Emirates - Prof. Laura Baudis, Zürich University, Switzerland - Prof. Ranny Budnik, Weizmann Institute of Science, Israel - Prof. Jan Conrad, Stockholm University, Sweden - Prof. Patrick Decowski, Nikhef & University of. Amsterdam, Netherlands - Prof. Alfredo Ferrella, L’Aquila University, Italy - Prof. Walter Fulgione, LNGS, Italy - Prof. Fei Gao, Tsinghua University, China - Prof. Luca Grandi, The University of Chicago, US - Prof. Michele Iacovacci, Naples University, Italy - Prof. Yoshitaka Itow, Nagoya University, Japan - Prof. Rafael Lang, Purdue University, US - Prof. Manfred Lindner, MPIK, Germany - Prof. Kai Martens, IPMU-Tokyo University, Japan - Prof. José Mathias-Lopes, Coimbra University, Portugal - Prof. Kentaro Miuchi, Kobe University, Japan - Prof. Shigetaka Moriyama, ICRR, Japan - Prof. Kaixuan Ni, UC San Diego, US - Prof. Uwe Oberlack, Mainz University, Germany - Prof. Gabriella Sartorelli, Bologna University, Italy - Prof. Marc Shumann, University of Freiburg, Germany - Prof. Luca Scotto Lavina, LPNHE, France - Prof. Giancarlo Trincheri, INFN, Italy - Prof. Chris Tunnell, Rice University, US - Prof. Kathrin Valerius, KIT Helmholtz University, Germany - Prof. Christian Weinheimer, Muenster University, Germany