

CURRICULUM VITAE - Christine Marquet

Surname, First Name: **Marquet, Christine**
Nationality: French
Date and place of birth: August 2^d, 1972, France

EDUCATION, DEGREES

Since 2002 National Scientist CNRS, Centre d'Etudes Nucléaires de Bordeaux (CENBG) (Bordeaux, France)
1999 - 2002 National Scientist CNRS, Institut de Recherches Subatomiques (IReS) (Strasbourg, France)

EDUCATION, DEGREES

2019 HDR Degree (Double beta decay), Université de Bordeaux (France)
1996 - 1999 PhD Degree (Particle Physics), Université de Bordeaux (France)
1994 - 1996 Master Physics Degree (Nuclear Physics and Instrumentation), Université de Bordeaux (France)

SCIENTIFIC COLLABORATIONS - MAIN CONTRIBUTIONS

Since 2006 **SuperNEMO**: International collaboration (22 laboratories, 9 countries)
Double beta decay research with ⁸²Se
Co-spokesperson - Calorimeter R&D - Optical simulations - Detector commissioning

Since 2017 **LIQUIDO-R&D**: International proto-collaboration (19 laboratories, 10 countries)
R&D for a new liquid scintillator detector for neutrino physics
ERC-Synergy-2019 (reserve list) - Prototypes - Photodetection R&D - 2β studies

Since 1996 **NEMO3**: International collaboration (22 laboratories, 9 countries)
Double beta decay research with ¹⁰⁰Mo
Detector operation - Laser calibrations - Analysis - Neutron simulations

2016 - 2019 **SUDOE-TRITIUM**: Interreg European project (SUDOE Spain France Portugal)
Real time monitoring of Tritium in water
Photodetection R&D

2013 - 2016 **BADGE**: Aquitaine-French Region Grant - Partnership with Carmelec Cie
 β contamination detector in a high-gamma fluctuating environment for nuclear industry
Photodetection R&D - Optical simulations

2006 - 2009 **BIPO**: French National Research Agency ANR (3 IN2P3 laboratories)
Detector of ultra-low radioactivity in thin materials
Scintillation R&D - Fibres - Calibrations - Simulations

MANAGEMENT - INSTITUTIONAL RESPONSABILITIES

Scientific projects:

Since 2019 Co-PI of the Bordeaux University Program "ORIGINS"
Since 2019 Co-coordinator of the underground physics working group, IN2P3 DULP GDR
Since 2018 Co-spokesperson of the SuperNEMO international collaboration
Since 2018 Double beta coordinator for the LiquidO proto-collaboration
Since 2017 CENBG Group leader for the LiquidO-R&D project
2008 - 2018 Coordinator of the SuperNEMO calorimeter system
2013 - 2016 Co-coordinator of the BADGE project, Aquitaine Region & Carmelec Cie
007 - 2009 Coordinator of the European network on double beta ILIAS/IDEA-N4
2004 - 2007 Deputy coordinator of the European network on double beta ILIAS/IDEA-N4
2006 - 2011 IN2P3 co-responsible of the NEMO3 experiment
2001 - 2011 Coordination of the NEMO3 laser calibration system
2003 - 2011 Co-coordinator of the NEMO3 detector operation
2006 - 2009 CENBG group leader of the BiPo National Research Agency Grant

Institutional:

Since 2020 Head of the CENBG Astro-Neutrino pole (CENBG steering committee)
2017 - 2018 Member of the Physics Department council, Université de Bordeaux
Since 2006 Member of the SuperNEMO Institutional Board
Since 2006 Member of the SuperNEMO Technical Board
2008 - 2018 Head of the Neutrino group, CENBG Laboratory
2003 - 2015 Member of the CENBG Laboratory council
2007 - 2010 Member of the CENBG personnel committee

REVIEW PANELS

Since 2006 10 thesis committees (national & international)
Since 2018 Member of the SuperNEMO Speaker bureau (international)
2018 Reviewer for the STFC (UK)
2015, 2017 Reviewer for the French National Research Agency (national)
2010, 2013 Reviewer for several international Physics journals (international)
2009 Member of Assistant Professor Selection Committee, Université de Savoie (national)
2009 Member of Assistant Professor Selection Committee, Université de Paris-Sud (national)
2007 Member of Research Engineer Selection Committee, CNRS (national)
2006 Member of Researcher Admission Committee, CNRS (national)
2003 - 2008 Member of the Specialist Committee CSE-28/29/30, Université de Bordeaux (national)
2002 - 2016 Scientific council member, CENBG Laboratory (national)
2000 - 2001 Scientific council member, IPHC Laboratory (national)

TEACHING - MENTORING

Teaching:

Since 2008 Lectures in Master degree on neutrino physics, Université de Bordeaux
2012 Summer school for third year Bachelor degree, Université de Bordeaux
1996 - 1997 Lectures in first year Bachelor degree, Université de Bordeaux

PhD supervision:

Since 2018 R. Salazar (Université de Bordeaux/University of Texas, co-supervision)
Since 2018 A. Pin (Université de Bordeaux, full direction)
2014 - 2017 A. Huber (Université de Bordeaux, co-supervision)
2009 - 2012 C. Hugon (Université de Paris-Sud, co-supervision)
2007 - 2010 E. Chauveau (Université de Bordeaux, co-supervision)
2003 - 2006 G. Lutter (Université de Bordeaux, co-supervision)

Mentoring:

About 20 Licence and Master students
1 PhD Student from University of Texas (J. Caesar, 5 months at CENBG)
3 postdoctoral fellows (co-supervised)

PUBLICATIONS - COMMUNICATIONS

Publications and conferences:

42 peer-reviewed articles in international journals
10 contributions in international conferences
Regular (>5/an) talks/documents in international, European and national workshops
Organiser and main host of national and international workshops ($\beta\beta$, Neutrino GDR, NEMO, LiquidO)

Other communications:

>30 divulgation communications (Press, Radio, Television, General public conferences, Schools)
Creation of a theater play (Particuloscope) and associated school programme on particle physics
Member of the CENBG Communication committee

Languages [CEFR]: French [native, C2], English [B2], Spanish [B1]