

Curriculum Vitae

Personnal data:

Surname: PRALAVORIO

First name: Pascal

Marital status: Married, 2 children

Nationality: French

Date and place of birth: 21st February 1972 in Antibes (France)

Professional data (Web site):

1994-1997: PhD Thesis: “*CP Violation in the $B^0 - \bar{B}^0$ system with the CMS detector*”, University Louis Pasteur (Strasbourg).

1998: CNRS Permanent Research position at CPPM (Marseille) in ATLAS

1998-2010: Building, qualification and commissioning of the ATLAS
Electromagnetic liquid argon calorimeter with cosmics and first data.
Co-editor of the paper summarizing the performance of the ATLAS
Liquid Argon Calorimeter [EPJ **C70** (2010) 723].

2005-10: Preparation of analysis in top and beyond the Standard Model
(W , Z and Supersymmetry) physics. Prospects on top/ W polarisation
[EPJ **C44S2** (2005) 13].

2010: Editor of W/Z cross-section paper [JHEP **1012** (2010) 060].

2010-12: Convenor of the ATLAS Supersymmetry Working group. 50 articles
submitted to journals ($\sim 20\%$ of ATLAS articles by 2012).

2013: CNRS research director at CPPM (Marseille)

2013-15: SUSY search with leptons (JHEP **1406** (2013) 035, **1405** (2014) 071).
“Lessons for SUSY from the LHC” in *SUSY after the Higgs discovery* book,
“Particle Physics and Cosmology” in *100th Summer School Les Houches Proc.*

2015-16: Convener of ATLAS Top Yukawa coupling measurement group

2015-: Same-sign lepton searches: SUSY (EPJC **76** (2016) 259, JHEP **1709** (2017) 084),
 $t\bar{t}H$ (PRD **97** (2018) 072003), $t \rightarrow Hq$ (PRD **98** (2018) 032002)

2019-: Direct Dark Matter search: Join DarkSide-20k and MADMAX coll.

Publications (*as of Jul. 2019*) : 855

Students:

- Undergraduates: 7 CERN summer students and 2 trainees at CPPM
- 6 Phd Students (Inspire): 1 ATLAS thesis award, 3 University thesis awards

Last presentations at Conferences:

1. 2nd Gordon Research Conference in String Theory and Cosmology (Barga, 28/06-02/06/2017): “*What We Have (Not) Learnt from the LHC*”
2. 26th Rencontre de Blois (Blois, 18-23/05/2014): “*SUSY Searches : Lessons from Run1*”
3. 20th International Conference on Supersymmetry and Unification of Fundamental Interactions (Beijing, 13-18/08/2012): “*SUSY Searches at ATLAS*”
4. 35th International Conference on High Energy Physics (Paris, 22-28/07/2010): “*The ATLAS Liquid Argon Electromagnetic Calorimeter*”

Lectures for PhDs and Postdocs:

1. DESY (Hamburg, 07-08/04/2016): “*SUSY searches at the LHC*”
2. Niels Bohr Institute (Copenhagen, 28/10-01/11/2013): “*Supersymmetry or not what is the evidence?*”
3. 100th Summer Les Houches Physics School on Post Planck Cosmology (Les Houches, 24-25/07/2013): “*Particle Physics and Cosmology*”
4. 40th SLAC Summer Institute (SLAC, 30-31/07/2012): “*SUSY searches at the LHC*”

Workshop and Conference organization:

1. Organizing committee of ATLAS Physics Workshop (CERN, 04-08/12/2017)
2. Main organizer of Physique ATLAS France (Le Puy-en-Velay, 24-26/11/2014)
3. SUSY 2012 Conference: session convener on SUSY results at LHC
4. ATLAS Workshops: SUSY (16-17/03/2011, 02-03/11/2011), HTop (03-04/10/2016)

Scientific Review:

1. Reviewer of Phys. Lett. B, JHEP, Particle Data Group 2012 (SUSY part)
2. ATLAS: editorial board (5 Conf., 7 papers), final sign-off (12 Conf., 5 papers)
3. Examiner of 8 PhDs (France, Belgium, Denmark) and 1 HDR (France)

Outreach:

1. Virtual ATLAS visit for conferences, ATLAS visit for VIP and master students
2. Vulgarisation talks on particle physics in France and Romania
3. Panel discussion “Particle Fever” movie (Antibes, Geneva, Oyonnax)