

## **Dr. Cristinel DIACONU**

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### • **Studies, titles and career**

- 1987-1992 Physics Faculty, Bucharest University Diploma: "Supersymmetric contributions to the anomalous magnetic moment of the muon", classified first in the promotion 1992.
- 1992-1993 Diplome d'Etudes Approfondies (DEA), Provence Aix-Marseille University "Particle Physics, Mathematical Physics and Modelisation" Mention "Very Good", Classified first in the promotion 1993.
- 1993-1996 PhD in Particle Physics at CPPM and Provence Aix-Marseille University "Measurement of  $\Lambda_b$  baryon polarisation with **ALEPH** detector at LEP (CERN)" Examination April 30, 1996, "Tres bien avec les felicitations du jury"
- 1996 Permanent position in CNRS (Chargé de recherche 2<sup>eme</sup> classe)- Joined **H1** collaboration.
- 2000 Promoted Chargé de recherche 1<sup>ere</sup> classe.
- 2003 "Habilitation a diriger des recherches", Université de la Méditerranée, December 15, 2003 (University degree, qualify for PhD students supervision).
- 2003-2011 Expatriated at DESY, Hamburg (CNRS-DESY agreement).
- 2008 Promoted "Directeur de recherche" 2eme classe CNRS (DR2)
- 2013 Joined **ATLAS** Collaboration
- 2014 Promoted "Directeur de recherche" 1ere classe CNRS (DR1)

### • **Scientific responsibilities in H1<sup>1</sup> experiment at HERA collider**

- 2003-2005 Member of the H1 Executive Committee.
- 1999-2002 Convener of "High  $P_T$  and High  $Q^2$ " H1 physics working group (about 40 physicists).
- 2002-2005 Convener of "Rare and Exotica" H1 physics working group (about 40 physicists).
- 2005-2006 **H1 Deputy Spokesman**, elected by the H1 Collaboration Board. Within the management team, I supervised the experiment, the software and the data quality checks.
- 2006-2008 **H1 Physics Coordinator**, elected by the H1 Collaboration Board. Define, coordinate and supervise the scientific production of the H1 Collaboration.
- 2008-2012 **H1 Spokesperson**, elected by the H1 Collaboration Board in 2008 and 2010. Coordinate the H1 Collaboration (Principal Investigator).

### • **Scientific responsibilities in ATLAS<sup>2</sup> experiment the LHC collider**

- 2015-2017 Co-convenor of the performance group "Electron tag-and-probe". This is the largest subgroup in the "e-gamma" performance group of ATLAS, responsible for electron identification and the

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<sup>1</sup> H1 is a collaboration of 200 researchers from 40 institutes and 20 countries.

<sup>2</sup> ATLAS is a collaboration of 3000 researchers from 40 institutes and 20 countries.

associated measurements (about 10 analyses are followed within the group)/

- **Evaluation at international level**

2005-2010 UE/FP7 expert evaluator (Marie Curie Program)

2012-2013 Member of ANR-UEFISCDI panel (joint France-Romania funding program- about 25 proposals /year)

2012-2013 Evaluator of Italian funding programs ANVUR CINECA (about 10 proposals/year)

2010-2013 Evaluator of Belgium FNRS programs (permanent positions and fellowships about 3-5 applications/year)

2016-2019 Member of the FNRS Commission in Physics

- **Scientific responsibilities at international level**

2009-2016 Chair of the ICFA panel on Data Preservation in High Energy Physics (<http://dphep.org> )

2007-2010 Member of the Computing Scrutiny Group of the LHC Resources Review Board

2007-2011 Member of the Detector Scrutiny Group of the LHC Resources Review Board

since 2011 Member of the editorial board of the European Physics Journal C.

2011-2016 Chair of the Oversight Board of the GEANT4 Project

2012-2016 Chair of the International Scientific Advisory Board of Romanian Ministry of Research (for CERN-related programs)

2012-2016 Member of the Steering Board of the HERAFitter<sup>3</sup> Project (chair 2012/2013)

2012-2016 Member of the Large Hadronic Collider Committee (the scientific council of the LHC experiments)

- **Responsibility at national level in France**

2007-2012 Counselor on IT matters of the Scientific Director of the National Institute for Nuclear and Particle Physics (Chargé de Missions Informatique IN2P3/CNRS)

2007-2012 Chair of the Advisory Board of the IN2P3 Computing Center (Lyon)

2010-2016 President of the Scientific Council of CPPM.

2012-2015 Délégué Scientifique à l'**AERES** (The National independent authority for research and higher level evaluation). I am responsible for evaluation committees for research units national evaluation.

since 2012 Coordinator of the National Project "PREDON" (Scientific Data Preservation) supported by the Multi-disciplinary Department of CNRS.

Since 2014 Coordinator of the working group "Big Data " of the "Poles Interdisciplinaires et Intersectoriels" of Aix Marseille University (joint forum of the 5 Poles, about 25 laboratories involved).

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<sup>3</sup> HERAFitter is multi-experiment initiative to provide an open-access framework for QCD proton structure analysis using data from HERA and LHC colliders. Experiments represented in the Steering Board: from HERA: H1, ZEUS, from LHC: ATLAS, CMS and LHCb.

- **Publications**

I published about 300 refereed publications (about 15000 citations in total with an average of 50 citations/paper), most of them within H1 or ALEPH international collaborations. The analysis from inspirehep.net of the impact of the connected publications (the h-index is 62): 2 Renowned paper, 4 Famous papers (250-499 citations), 33 Very well-known papers (100-249 citations), 60 Well-known papers (50-99 citations), 150 Known papers (10-49 citations) and 35 Less known papers (below 9 citations). (analysis at <http://inspirehep.net/author/profile/C.Diaconu.1> )

- **Talks and seminars** I have been invited to talk for the H1 collaboration in international conferences about 20 times, and made a similar number of seminars in various laboratories (DESY, CERN, Munich etc). The most important plenary talks are listed below.

- Plenary Talk **“Experimental Summary”, Moriond QCD**, Mars 2010, La Thuile (one of the most prestigious conferences in HEP, final summary talk)
- Plenary Talk **“Data Preservation in High Energy Physics”, CHEP 2009**, Prague. (Computing in High Energy Physics-500 participants)
- Plenary Talk **“QCD Experimental Summary”, ICHEP 2008**, Philadelphia, USA (International Conference in High Energy Physics, biannual, 700 participants)
- Plenary Talk **“Electroweak measurements” (rapporteur), “Lepton-Photon 2005”**, Upsalla, Sweden. (A large, biannual conference -300 participants- organized in alternance with ICHEP)

- **Teaching and student supervision**

I supervised laboratory work in electricity (1993-1996) and Microprocessor Architecture (1997-2002). Since 2011 I give the lecture “Introduction to Experimental Particle Physics” in Master 2 level at Aix-Marseille University and “Experimental QCD” at the Doctoral School”. I supervised 6 PhD students and 8 master students. I gave various summer schools lectures on QCD, experimental physics and HERA physics (1-2h)