

CV of Fulvio Piccinini

Research Positions

- Since 01/01/2007: Senior Scientist (Primo Ricercatore) at INFN Sezione di Pavia
- 01/10/2001 – 30/09/2003: Fellow at Cern Theory Division (on leave of absence from INFN)
- 02/02/1996 – 31/12/2006: Permanent Researcher at INFN Sezione di Pavia
- 02/05/1995 – 01/02/1996: TD Researcher at INFN Sezione di Pavia
- 1995: Ph.D. Degree in Physics
- 1991-1994: Ph.D. Student in Physics at the University of Pavia
- 1991: Graduate degree in Physics

Titles and Academic Positions

- Academic Year 2013/2014: Contract Professor for the course “Quantum Field Theory” at the University of Pavia (Laurea Magistrale)
- Academic Year 2013/2014: Contract Professor for the course “Computational Methods of Physics” at the University of Pavia (Laurea Magistrale)
- Since 2012: Qualified Expert of Ministry of Education, University and Research (MIUR) for the sector FIS/02 – Fisica Teorica, Modelli e Metodi Matematici
- Academic Year 2012/2013: Contract Professor for the course “Quantum Field Theory” at the University of Pavia (Laurea Magistrale)
- Academic Years 2008/09, 09/10, 10/11, 11/12: Contract Professor for the course “Computational Methods of Physics” at the University of Pavia

- Academic Year 2005/2006: Course “Complementi di Fisica Nucleare I”, for Ph.D. students in Physics at the University of Pavia
- 10/02/2003 – 09/01/2007: registered on the list of “Qualification aux fonctions de Professeur des Universités de France, par la section 29 Constituants Elementaires”
- Academic Year 2003/2004: Course “Particle Physics Phenomenology”, for Ph.D. students in Physics at the University of Pavia
- Academic Years 1996/97, 97/98, 98/99: Contract Professor for the course “Calculational Techniques in Quantum Field Theory” at the University of Pavia
- Lecturer at the Dubna International Advanced School of Theoretical Physics, 23 July - 2 August 2012, Dubna, Russia, on the subject “Precise theoretical predictions for Drell-Yan processes at hadron colliders”
- Lecturer at the Italo-Hellenic School of Physics 2006, 12-18 June 2006, Martignano, Italy, on the subject “Monte Carlo tools for LHC”
- Lecturer at the XV Seminario Nazionale di Fisica Nucleare e Subnucleare, on the subject “Physics at LHC”, 20-26 September 2002, Otranto, Italy

Grant memberships

- PRIN 2010: “Simmetrie, Masse e Misteri: Rottura della simmetria elettrodebole, Mescolamento dei sapori e violazione di CP e Materia oscura nell’era di LHC”
- “LHCPhenoNET, Advanced Particle Phenomenology in the LHC Era”, 7th Framework Programme of the European Commission. Network contract PITN-GA-2010-264564 (since 1st January 2011. Coordinator: G. Rodrigo, Valencia, Spain)
- Member of the INTAS Project Nr 05-1000008-8328 “Higher-order effects in e^+e^- annihilation and muon anomalous magnetic moment” (2007-2009. Coordinator: L. Trentadue, Parma)

Scientific Activity

Author of more than 150 scientific publications. The research activity has been devoted to collider (e^+e^- as well as hadron-hadron) phenomenology, with particular emphasis on the following topics:

- electroweak radiative corrections for e^+e^- collisions at LEP; co-author of the program TOPAZ0 used by LEP Collaborations for data analysis; determination of the top quark and Higgs boson masses through a fit to precision data
- higher order QED corrections to QED processes at LEP and flavour factories for high precision luminosity determination; co-author of the event generator BaBaYaga, used by BaBar, BES, CLEO and KLOE Collaborations for data analysis;
- phenomenology of hadron-hadron collisions at Tevatron/LHC
 - Leading Order simulation of multi-parton final states; co-author of ALPGEN, a matrix-element event generator used for Tevatron RunII and LHC data analysis
 - studies of signals of Higgs production within the Standard Model and in extended models;
 - electroweak radiative corrections and their interplay with QCD corrections (single-top and Drell-Yan processes);
- Heavy Ion collisions phenomenology at SPS, RHIC and LHC: J/psi suppression
- Exotic meson spectroscopy: scalar mesons and charmed XYZ resonances

Reviewing Activity

- Referee for the following international journals:
 - EPL (European Physics Letters)
 - European Physical Journal C,
 - Physics Letters B

- Nuclear Physics B
- Journal of High Energy Physics
- Physical Review D
- Physical Review Letters
- Reviewing activity for DoE (USA)

Coordination Activity

- January 2014 – : National Coordinator of the INFN Iniziativa Specifica QFT@COLLIDERS
- 2013-2014: Member of the Organizing committee for the Workshop “Prospects and Precision at the Large Hadron Collider at 14 TeV”, Galileo Galilei Institute of Theoretical Physics, 01/09/2014 – 24/10/2014, Arcetri, Florence, Italy
- 2006 – 2012: Local Coordinator of the INFN Iniziativa Specifica RM31
- June 2011 –: Coordinator of the Pavia Theory Group of INFN and Member of Commissione Scientifica Nazionale 4 (Theory Committee) INFN
- January 2010 - December 2010: Italian Coordinator of the project “Aspects of Higgs Physics at the LHC”, (INFN-MICINN), Grant Number ACI2009-1045
- September 2008: Member of the Advisory Committee of the International Conference “LC09: e+ e- Physics at the TeV Scale and the Dark Matter Connection”, 21-24 September 2008, Perugia, Italy
- 2006: Member of the Scientific Committee of the INFN Workshop MCWS “Workshop sui Monte Carlo, la Fisica e le Simulazioni a LHC”, 2006, Frascati, Italy
- 2006: Co-convener of the Session “Fixed order calculations”, at the INFN Workshop MCWS

- 2006: Co-convener of the Session “Standard Model”, Incontri di Fisica delle Alte Energie (IFAE), Pavia, 19-21 April 2006
- June 2005: Member of the Comitato Promotore for the Workshop “Fisica delle collisioni di ioni pesanti di altissima energia e Plasma di Quark-Gluoni”, Frascati, 8-9 June 2005.
- October 2004 – September 2010: Researcher Representative within the INFN Consiglio di Sezione, Pavia
- December 1999 – June 2001: Researcher Representative within the INFN Consiglio di Sezione, Pavia