

## SALVINI PAOLA - curriculum vitae

### Personal Information:

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### Work Experience:

- ⇒ **Since 2019** member of the **International Muon Collider Collaboration**  
(*Feasibility study of an experiment on the  $\mu^+\mu^-$  interaction at energies equal or over  $\sqrt{s}=3\text{TeV}$* )
- ⇒ **Since 2014** member of the **CMS Collaboration**  
(*Proton-proton interaction at the Large Hadron Collider (LHC) at CERN*)
- ⇒ **From 2003 to 2015** member of the **ARGO-YBJ Collaboration**  
(*Cosmic ray physics and gamma astronomy at the International Cosmic Rays Laboratory di Yangbajing (Tibet)*)
- ⇒ **From 2001 to 2004** member of the **PANDA Collaboration**  
(*Strong interaction study with antiprotons (1.5-15 GeV/c) at the Facility for Antiproton and Ion Research (FAIR) at Darmstadt*)
- ⇒ **From 1989 to 2003** member of the **OBELIX Collaboration**  
(*antinucleon-nucleon and antinucleon-nucleus annihilation at rest and at very low energy at the Low Energy Antiproton Ring (LEAR) at CERN*)
- ⇒ **Since February 1992** **Researcher employed by INFN (National Institute of Nuclear Physics)**
- ⇒ **From 1985 to 1992** member of the **ToFraDuPP Collaboration**  
(*antiproton-nucleus annihilation at rest at the Low Energy Antiproton Ring LEAR del CERN*)

### Teaching:

- ⇒ **Since A.A. 2013-2014** “Radioactivity I” for the master degree in Physics, University of Pavia
- ⇒ **From A.A. 2015 to A.A. 2017** => seminars for the course in “Experimental Nuclear Physics” concerning hadronic interactions for PhD students in Physics at the University of Pavia
- ⇒ **From A.A. 2005-2006 to A.A. 2012-2013:** “Radiation Physics” at the “Master on Nuclear and Radiation Technologies” of the I.U.S.S. (Istituto Universitario di Studi Superiori) of Pavia
- ⇒ **A.S. 1986-1987** : “Informatics” at the Istituto Tecnico Statale di Pavia

### Education:

- ⇒ **1989/1991** – PhD student at Pavia University
- ⇒ **1988** – Grant from INFN for research activity on low energy nucleon-antinucleon interaction
- ⇒ **1992** – Ph.D. in Physics, University of Pavia
- ⇒ **1985** – Master degree, University of Pavia

### Institutional Responsibility:

- ⇒ **Since April 2021** INFN National Representative for the CMS Muon system
- ⇒ **Since April 2019** Resource Manager for the RPC subsystem of CMS
- ⇒ **Since 2018** INFN National Representative for the CMS RPC muon subsystem
- ⇒ **Since 2018** Representative of the INFN Sezione di Pavia researchers

- ⇒ **From 2016 to 2017** Team Leader of CMS experiment Pavia group
- ⇒ **From 2007 to 2014** : Team Leader of Argo-YBJ experiment Pavia group

### **Research activity:**

The research activity, in the field of experimental nuclear physics, addressed mainly the following items (in chronological order):

- 1) Low-energy antiprotons interaction with nuclei ( TOFRADUPP Collaboration)
- 2) AntiNucleon-Nucleon, AntiNucleon-Nucleus interaction and light meson spectroscopy (OBELIX Collaboration)
- 3) Cosmic ray physics and gamma ray astronomy (ARGO-YBJ Collaboration)
- 4) High energy proton-proton interaction (CMS Collaboration)

She coordinated experimental data analysis groups and developed software tools devoted to the event display and track reconstruction for the Obelix experiment. She was responsible of the data quality control for the Argo-YBJ experiment and she played crucial role in the “scaler data” analysis of the Argo-YBJ experiment devoted to the search for the Gamma Ray-Burst high energy emission. She published, with a restricted group of authors, a collection of paper about strangeness production in antiproton annihilation on nuclei, performing data analysis on published data from different experiments.

Currently she is working in CMS on the background data analysis and test of detectors (RPCs) for the muon detection system of the CMS experiment. Since 2018, she is the INFN National Representative for the CMS RPC muon subsystem and since 2019, she is the Resource Manager for the same subsystem. Recently she joined the Muon Collider Collaboration contributing to muon simulation and reconstruction software.

### **Selection Committee membership:**

- ⇒ **Since 2018** Committee for the admission at the “Collegio Nuovo” of Pavia
- ⇒ **A.A. 2018/19** Committee for the admission at the PhD courses in Physics of the University of Pavia
- ⇒ **A.A. 2015-2016** Biennial Committee for the assignment of research fellowship for the INFN Sezione di Pavia
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### **Organization of events in science communication**

- ⇒ **09 / 2018** => Organizer of “Science&Sport” within the “Researcher’s night 2018”
- ⇒ **From 2016 to 2018** Co-organizer of the Masterclass for the experiment CMS

“Autorizzo il trattamento dei miei dati personali ai sensi del Dlgs 196 del 30 giugno 2003”

Pavia, 31/03/2021

