

Curriculum Vitae

Paolo Giacomelli



Personal details

Born: 6th January, 1960, Geneva, Switzerland
Nationality: Italian
Married, two sons (10 and 7 years)
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Education

1985 Laurea in Physics, Università di Bologna, Italy
1986 Specialization in Physics, Università di Bologna

Affiliations

2000 – 2006 **Adjunct Professor** at the University of California, Riverside, USA
2000 – 2001 **Scientific Associate** at CERN
1997 – present **Senior Researcher** at INFN, Bologna, Italy
1993 – 1997 **Research Physicist** at the University of California, Riverside, USA
1991 – 1993 **Fellow** at CERN
1986 – 1990 **Research Associate** at the Rockefeller University, New York, USA
1984 – 1985 **Technical Student** at CERN
1983 **Summer Student** at CERN

Scientific activity

1993–present **CMS experiment**

- 2009 **Chairman** of the organizing committee of the CMS Physics week in Bologna
- Search for the Higgs boson in the $H \rightarrow ZZ^* \rightarrow 4l$ channel
- Responsible for the tests and implementation of the high- and low-voltage power supply systems of the barrel muon detector (Drift Tubes)
- Design of the gas and cooling systems of the DT detectors
- Slow-controls system of the DTs
- Safety coordinator for the installation of the DT detectors at SX5
- Design, development and tests of the CSC prototypes for the forward muon detector
- Coordinator of test beam activities of CSC prototypes

1993–2008 **OPAL experiment** at the LEP collider at CERN

- Search for supersymmetric particles: limits on sleptons and gauginos production
- Search for heavy charged long-lived particles: limits on magnetic monopoles and GMSB models
- Studies of charmonium states: J/ψ , ψ' and χ_c
- 1994-2000 **convener** of OPAL's Particle Searches working group
- 1997-2005 OPAL **representative** in the LEP SUSY working group

1989–1993 **DELPHI experiment** at LEP

- In charge of the operation of the first level trigger of the whole experiment
- Responsible for the development and implementation of the second level trigger of the electromagnetic calorimeter
- Responsible for the on-line quality monitoring system of DELPHI
- Search for the SM Higgs boson in the decay channel $e^+e^- \rightarrow H^0 Z^0 \rightarrow l^+l^- + X$. Excluded a Higgs boson lighter than 50 GeV

1987–1989 **APE collaboration**

- Software development for various components of APE
- Development of an interface for high-speed data transfers

1986–1990 **UA6 experiment** at the SppbarS collider, CERN

- Responsible for the data acquisition system
- Measurements of direct photon production in pp and p \bar{p} collisions
- Development and tests of a new silicon drift detector

1983–1985 **UA1 experiment** at the Sppbar collider, CERN

- Software development for the VME-based data acquisition system
- Software for interfacing the VME and CAMAC standards
- Software for the MacVEE monitoring system

Scientific Consulting

Reviewer for several scientific journals: Physical Review Letters, Physical Review D, Physics Letters, Europhysics Journal and Zeitschrift fur Physik.

Referee for the Research Executive Agency of the European Commission

International Grants

Principal Investigator of NATO Grant “New Particles Searches at LEP-2”, Grant no. CRG 971625 (1997-1999)

Outreach

Public lectures on particle physics

Organization and participation in particle physics exhibitions and events

Wrote several outreach articles for journals

Press and TV interviews

Author of the outreach pages of the CMS Italy web site

Awards

Italian Physical Society (1988)

Summary of Publications (Inspire):

Number of published papers: 522

Total number of citations: 20054

Average citations per paper: 38.4

h-index: 65