

Pierluigi Paolucci

WORK EXPERIENCE

2012: Scientific Associate at CERN

2007- present: Senior Physicist at the INFN of Napoli (II level)

1997-2000: Fellow at Stanford University - Supervisors prof. D. Hitlin e prof. S. Smith

1995-1996: Post-doc position at the University of Napoli “Federico II”, 1995-1996 - Supervisor prof. C. Sciacca.

MEMBERSHIP in SCIENTIFIC COMMITTEES

Member of the INFN-Univ. post-doc board in Napoli from May 2009

Member of the CMS Conference Committee 2006-2012

Member of INFN 1st National Commission (HEP physics at accelerator) 2006-2012

Referee of KLOE and KLOE II experiments (2004-2013)

CMS Napoli Group Leader (2002-2010)

CMS RPC National Representative (2008-2010)

RESEARCH ACTIVITY

1989-1990: Charm II experiment (detector calibration)

1991-1996: L3 experiment (RPC detector and Muon data analysis)

1995-2003: BaBar experiment (RPC detector, DCS and Power system responsible, RPC run coordinator, muon steering committee)

2002-present: CMS experiment (RPC detector, Power system and DCS, Resource Manager, RPC project manager since 2010)

ACTIVITIES ON GASEOUS DETECTORS

1991-present: Resistive Plate Chamber

- Design, construction and test
- Power system and DAQ
- Detector Control System and Data Quality Monitor

2012-present: Triple GEM detector

- Power System for GEM

PUBLICATIONS

More than 330 articles in international journals with referee;

Talk at International Conference:

- 1) “The RPC forward-backward trigger system of the L3 experiment”, presented at the “Resistive Plate Counters and Related Detector Conference”, 11-12 October 1995, Pavia.
- 2) “The BaBar detector for Muon detection and Neutral Hadron identification”, presented at the “VI International Conference on Instrumentation for experiment at e^+e^- colliders”, 17-21 April 1995, Novosibirsk.

- 3) “ α_s measurement at LEP ($\sqrt{s} > M_Z$)” presented at the “The irresistible rise of the Standard Model”, dal 21-25 April **1997**, San Miniato;
- 4) “The IFR Online Detector Control at the BaBar experiment at SLAC”, presented at the “11th IEEE NPSS Real Time Conference”, 14-18 July **1999**, Santa Fee, New Mexico
- 5) “The IFR Online Detector Control at the BaBar experiment at SLAC”, presented at the “V workshop on Resistive Plate Counters and Related Detector”, 28-29 October. **1999**, Bari
- 6) “Production and test of one-third of barrel Resistive Plate Chambers of the CMS experiment at LHC” presented at the “10th Vienna Conference on Instrumentation”, February **2004** - Vienna.
- 7) “CMS Muon system” presented at the “9th ICATPP Conference on Astroparticle, Particle, Space Physics, Detectors and Physics Applications”, 17 -25 October. **2005**, Como
- 8) “The CMS RPC barrel system: from the construction to the commissioning” at the RPC 2007: The IX International Workshop on Resistive Plate Chambers, 13-16 Febraury. **2008**, Mumbai, Maharashtra (India)
- 9) Invited talk: “L’esperimento CMS ad LHC; dalla costruzione al commissioning” at the SIF 2009: XCV congresso nazionale della Società Italiana di Fisica, 28 September–3 oct **2009**, Bari.
- 10) Invited talk al “I Seminario formativo per i dipendenti tecnici ed amministrativi dell’INFN; LHC la fisica, la macchina e gli esperimenti”, tiene un talk intitolato: “Il WEB ed LHC” 5-7 ottobre **2009** - Ischia
- 11) Invited Talk: “Muon System at CMS experiment” – Korea University – Seoul – May **2012**
- 12) LHCC talk: “CMS experiment status report”: CERN 4 July **2014** - <https://indico.cern.ch/event/319702/>