

# **VIII Workshop on Resistive Plate Chambers and Related Detectors**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **RPCs production at General Tecnica**

*Tuesday 11 October 2005 09:00 (15 minutes)*

**Author:** D. DOMENICO (Universita degli Studi Federico II di Napoli)

**Presenter:** D. DOMENICO (Universita degli Studi Federico II di Napoli)

**Session Classification:** Plenary Session V (Production, test, and quality controls)

Contribution ID: 2

Type: **not specified**

## **Quality assurance procedures for the construction of the ALICE TOF detector**

*Tuesday 11 October 2005 09:20 (15 minutes)*

**Author:** A. ALICI (Univ. of Bologna and INFN)

**Presenter:** A. ALICI (Univ. of Bologna and INFN)

**Session Classification:** Plenary Session V (Production, test, and quality controls)

Contribution ID: 3

Type: **not specified**

## **Overview on production and fast results of the tests on the RPCs for the ALICE dimuon trigger**

*Tuesday 11 October 2005 09:40 (15 minutes)*

**Author:** A. FERRETTI (Dpt di Fisica Sperimentale, Universita di Torino, INFN, sezione di Torino)

**Presenter:** A. FERRETTI (Dpt di Fisica Sperimentale, Universita di Torino, INFN, sezione di Torino)

**Session Classification:** Plenary Session V (Production, test, and quality controls)

Contribution ID: 4

Type: **not specified**

## **The RPCs for the ATLAS detector at LHC: large scale test and chambers preparation**

*Tuesday 11 October 2005 10:00 (15 minutes)*

**Author:** P. IENGO (INFN sezione di Napoly)

**Presenter:** P. IENGO (INFN sezione di Napoly)

**Session Classification:** Plenary Session V (Production, test, and quality controls)

Contribution ID: 5

Type: **not specified**

## Quality control test for CMS Barrel Resistive Plate Chambers

*Tuesday 11 October 2005 10:40 (15 minutes)*

**Author:** G. PUGLIESE (INFN-Bari)

**Presenter:** G. PUGLIESE (INFN-Bari)

**Session Classification:** Plenary Session VI (Production, test, and quality controls)

Contribution ID: 6

Type: **not specified**

## Tests on OPERA RPCs

*Tuesday 11 October 2005 11:00 (15 minutes)*

**Author:** A. PAOLONI (INFN-Laboratori Nazionali di Frascati)

**Presenter:** A. PAOLONI (INFN-Laboratori Nazionali di Frascati)

**Session Classification:** Plenary Session VI (Production, test, and quality controls)

Contribution ID: 7

Type: **not specified**

## **Cosmic ray test certification of the first 100 CMS endcap RPCs (RE1) and the corresponding Construction Database**

*Tuesday 11 October 2005 11:20 (15 minutes)*

**Author:** W. WHITAKER (CERN)

**Presenter:** W. WHITAKER (CERN)

**Session Classification:** Plenary Session VI (Production, test, and quality controls)



Contribution ID: 8

Type: **not specified**

## **Construction, quality control (QC) and quality assurance (QA) of the production for first station of CMS endcap RPCs**

*Tuesday 11 October 2005 11:40 (15 minutes)*

**Author:** S. J. QIAN (Peking University)

**Presenter:** S. J. QIAN (Peking University)

**Session Classification:** Plenary Session VI (Production, test, and quality controls)

Contribution ID: 9

Type: **not specified**

## **An analytic description of rate effects in timing RPC**

*Tuesday 11 October 2005 14:00 (15 minutes)*

**Author:** D. GONZALEZ-DIAZ (Univ. of Santiago de Compostela)

**Presenter:** D. GONZALEZ-DIAZ (Univ. of Santiago de Compostela)

**Session Classification:** Plenary Session VII (Simulations and fundamentals)

Contribution ID: 10

Type: **not specified**

## **On the deterministic and stochastic solutions of space charge models and their impact on high-resolution timing**

*Tuesday 11 October 2005 14:20 (15 minutes)*

**Author:** A. MANGIAROTTI (Physikalisches Institut, Heidelberg)

**Presenter:** A. MANGIAROTTI (Physikalisches Institut, Heidelberg)

**Session Classification:** Plenary Session VII (Simulations and fundamentals)

Contribution ID: 11

Type: **not specified**

## **Gamma background simulation for the RPC Endcap and Barrel regions of CMS/LHC using GEANT4**

*Tuesday 11 October 2005 14:40 (15 minutes)*

**Author:** J. T. RHEE (Konkuk Univ.)

**Presenter:** J. T. RHEE (Konkuk Univ.)

**Session Classification:** Plenary Session VII (Simulations and fundamentals)

Contribution ID: 12

Type: **not specified**

## **Rate effects in resistive plate chambers**

*Tuesday 11 October 2005 15:00 (15 minutes)*

**Author:** C. LIPPMANN (GSI)

**Presenter:** C. LIPPMANN (GSI)

**Session Classification:** Plenary Session VII (Simulations and fundamentals)

Contribution ID: 13

Type: **not specified**

## **Laser beam cha-racterization of a small size RPC**

*Tuesday 11 October 2005 15:40 (15 minutes)*

**Author:** M. R. COLUCCIA (Universita di Lecce - INFN Lecce)

**Presenter:** M. R. COLUCCIA (Universita di Lecce - INFN Lecce)

**Session Classification:** Plenary Session VIII (Design of systems and R&Ds)

Contribution ID: 14

Type: **not specified**

## **A Large atmospheric neutrino detector using resistive plate chambers**

*Tuesday 11 October 2005 16:00 (15 minutes)*

**Author:** N. K. MONDAL (Tata Institute of Fundamental Research)

**Presenter:** N. K. MONDAL (Tata Institute of Fundamental Research)

**Session Classification:** Plenary Session VIII (Design of systems and R&Ds)

Contribution ID: 15

Type: **not specified**

## **Fluoride contamination of the RPC working gas and ageing phenomena**

*Wednesday 12 October 2005 09:00 (15 minutes)*

**Author:** G. AIELLI (Universita di Roma Tor Vergata)

**Presenter:** G. AIELLI (Universita di Roma Tor Vergata)

**Session Classification:** Plenary Session IX (Aging of RPCs)



Contribution ID: 16

Type: **not specified**

## **Results from the CMS-RPC aging test at the CERN Gamma Irradiation Facility**

*Wednesday 12 October 2005 09:20 (15 minutes)*

**Author:** R. GUIDA (Dpt di Fisica di Bari and INFN sezione di Bari)

**Presenter:** R. GUIDA (Dpt di Fisica di Bari and INFN sezione di Bari)

**Session Classification:** Plenary Session IX (Aging of RPCs)

Contribution ID: 17

Type: **not specified**

## **Beam and ageing tests with a highly-saturated avalanche gas mixture for the ALICE p-p data taking**

*Wednesday 12 October 2005 09:40 (15 minutes)*

**Author:** F. POGGIO (Dpt di Fisica Sperimentale, Universita di Torino, INFN, sezione di Torino)

**Presenter:** F. POGGIO (Dpt di Fisica Sperimentale, Universita di Torino, INFN, sezione di Torino)

**Session Classification:** Plenary Session IX (Aging of RPCs)

Contribution ID: **18**

Type: **not specified**

## **Resolution studies on a small animal RPC-PET prototype**

*Wednesday 12 October 2005 10:20 (15 minutes)*

**Author:** A. BLANCO (LIP-Coimbra)

**Presenter:** A. BLANCO (LIP-Coimbra)

**Session Classification:** Plenary Session X (Applications)

Contribution ID: 19

Type: **not specified**

## **Sensitivity of the hybrid resistive plate chamber to low energy neutrons**

*Wednesday 12 October 2005 10:40 (15 minutes)*

**Author:** B. HONG (KODEL, Korea Univ.)

**Presenter:** B. HONG (KODEL, Korea Univ.)

**Session Classification:** Plenary Session X (Applications)

Contribution ID: 20

Type: **not specified**

## **RPCs in biomedical applications**

*Wednesday 12 October 2005 11:00 (15 minutes)*

**Author:** M. NECCHI (Dip. Fis. Nucl e Teorica & INFN Pavia)

**Presenter:** M. NECCHI (Dip. Fis. Nucl e Teorica & INFN Pavia)

**Session Classification:** Plenary Session X (Applications)

Contribution ID: 21

Type: **not specified**

## Closing remark

*Wednesday 12 October 2005 11:20 (20 minutes)*

**Author:** P. FONTE

**Presenter:** P. FONTE

**Session Classification:** Closing of the Workshop

Contribution ID: 22

Type: **not specified**

## **RPC Conference 2007**

*Wednesday 12 October 2005 11:40 (20 minutes)*

**Author:** SERGIO P. RATTI

**Presenter:** SERGIO P. RATTI

**Session Classification:** Closing of the Workshop

Contribution ID: 23

Type: **not specified**

## **Welcome address by the director of KOrea DEtector Laboratory**

*Monday 10 October 2005 09:00 (10 minutes)*

**Session Classification:** Opening of the Workshop



Contribution ID: 24

Type: **not specified**

## **Welcome address by the President of Korea University**

*Monday 10 October 2005 09:10 (10 minutes)*

**Session Classification:** Opening of the Workshop

Contribution ID: 25

Type: **not specified**

## Opening talk

*Monday 10 October 2005 09:20 (20 minutes)*

**Author:** R. SANTONICO (Universita' di Roma Tor Vergata)

**Presenter:** R. SANTONICO (Universita' di Roma Tor Vergata)

**Session Classification:** Opening of the Workshop

Contribution ID: 26

Type: **not specified**

## **The RPC first level muon trigger in the barrel of the ATLAS experiment**

*Monday 10 October 2005 09:40 (15 minutes)*

**Author:** A. SALAMON (INFN Sez Roma II)

**Presenter:** A. SALAMON (INFN Sez Roma II)

**Session Classification:** Plenary Session I (Large Systems)

Contribution ID: 27

Type: **not specified**

## **Production of gas gaps for the Forward RPCs of the CMS experiment**

*Monday 10 October 2005 10:00 (15 minutes)*

**Author:** S. PARK (KODEL, Korea Univ.)

**Presenter:** S. PARK (KODEL, Korea Univ.)

**Session Classification:** Plenary Session I (Large Systems)

Contribution ID: 28

Type: **not specified**

## **Design and Performance of the ALICE muon trigger system**

*Monday 10 October 2005 10:20 (15 minutes)*

**Author:** F. YERMIA (Dpt di Fisica Sperimentale, Universita di Torino, INFN, sezione di Torino)

**Presenter:** F. YERMIA (Dpt di Fisica Sperimentale, Universita di Torino, INFN, sezione di Torino)

**Session Classification:** Plenary Session I (Large Systems)

Contribution ID: 29

Type: **not specified**

## **The fast front electronics of the HADES timing RPC WALL ESTRELA**

*Monday 10 October 2005 11:00 (15 minutes)*

**Author:** D. BELVER (Univ. of Santiago de Compostela)

**Presenter:** D. BELVER (Univ. of Santiago de Compostela)

**Session Classification:** Plenary Session II (Timing RPCs)

Contribution ID: **30**

Type: **not specified**

## **RIGEL : An RPC-like signal GENErator for Laboratory testing:**

*Monday 10 October 2005 11:20 (15 minutes)*

**Author:** N. MONTES (Lab-CAF Univ. de Santiago de Compostela)

**Presenter:** N. MONTES (Lab-CAF Univ. de Santiago de Compostela)

**Session Classification:** Plenary Session II (Timing RPCs)

Contribution ID: **31**

Type: **not specified**

## **FOPI's Time-of-Flight Detector Upgrade**

*Monday 10 October 2005 11:40 (15 minutes)*

**Author:** A. SCHUETTAUF (GSI)

**Presenter:** A. SCHUETTAUF (GSI)

**Session Classification:** Plenary Session II (Timing RPCs)



Contribution ID: 32

Type: **not specified**

## **Final performance of the HAPP multi-gap glass RPC system**

*Monday 10 October 2005 12:00 (15 minutes)*

**Author:** J. WOTSCHACK (CERN)

**Presenter:** J. WOTSCHACK (CERN)

**Session Classification:** Plenary Session II (Timing RPCs)

Contribution ID: 33

Type: **not specified**

## **The MRPC detector for the ALICE Time-Of-Flight: final design and performances**

*Monday 10 October 2005 12:20 (15 minutes)*

**Author:** G. SCIOLI (Univ. of Bologna and INFN)

**Presenter:** G. SCIOLI (Univ. of Bologna and INFN)

**Session Classification:** Plenary Session II (Timing RPCs)

Contribution ID: 34

Type: **not specified**

## **Ceramic high rate timing RPCs**

*Monday 10 October 2005 12:35 (15 minutes)*

**Author:** L. LOPES (LIP-Coimbra)

**Presenter:** L. LOPES (LIP-Coimbra)

**Session Classification:** Plenary Session II (Timing RPCs)

Contribution ID: 35

Type: **not specified**

## Position reconstruction with RPCs

*Monday 10 October 2005 14:20 (15 minutes)*

**Author:** R. CARDARELLI (INFN sezione di Roma2 and Universita di Roma Tor Vergata Dpt di Fisica)

**Presenter:** R. CARDARELLI (INFN sezione di Roma2 and Universita di Roma Tor Vergata Dpt di Fisica)

**Session Classification:** Plenary Session III (Large systems)

Contribution ID: 36

Type: **not specified**

## **New results about HF production, chemical analysis of gas and bakelite samples from CMS RPC detectors**

*Monday 10 October 2005 14:40 (15 minutes)*

**Author:** R. GUIDA (Dpt di Fisica di Bari and INFN sezione di Bari)

**Presenter:** R. GUIDA (Dpt di Fisica di Bari and INFN sezione di Bari)

**Session Classification:** Plenary Session III (Large systems)

Contribution ID: 37

Type: **not specified**

## **OPERA RPCs and underground test results**

*Monday 10 October 2005 15:00 (15 minutes)*

**Author:** A. LONGHIN (Padova University and INFN)

**Presenter:** A. LONGHIN (Padova University and INFN)

**Session Classification:** Plenary Session III (Large systems)

Contribution ID: **38**

Type: **not specified**

## **The VETO system of the OPERA experiment**

*Monday 10 October 2005 15:20 (15 minutes)*

**Author:** A. DI GIOVANNI (L'Aquila University & LNGS)

**Presenter:** A. DI GIOVANNI (L'Aquila University & LNGS)

**Session Classification:** Plenary Session III (Large systems)

Contribution ID: 39

Type: **not specified**

## **RPC as a thermal neutron detector**

*Monday 10 October 2005 15:40 (1h 40m)*

**Author:** M. GAGLIARDI (Dpt di Fisica Sperimentale, Universita di Torino, INFN, sezione di Torino)

**Presenter:** M. GAGLIARDI (Dpt di Fisica Sperimentale, Universita di Torino, INFN, sezione di Torino)

**Session Classification:** Poster Session



Contribution ID: 40

Type: **not specified**

## **Properties of the bakelite used for standard RPC chambers as a function of the operating temperature:**

*Monday 10 October 2005 15:40 (1h 40m)*

**Author:** G. HULL (UniromaIII)

**Presenter:** G. HULL (UniromaIII)

**Session Classification:** Poster Session

Contribution ID: 41

Type: **not specified**

## **Conceptual design of a large area TOF wall for the R3B experiment at FAIR**

*Monday 10 October 2005 15:40 (1h 40m)*

**Author:** N. MONTES (Univ. of Santiago de Compostela)

**Presenter:** N. MONTES (Univ. of Santiago de Compostela)

**Session Classification:** Poster Session

Contribution ID: 42

Type: **not specified**

## **Performance of the endcap RPC in the Belle detector under high luminosity operation of the KEKB accelerator:**

*Monday 10 October 2005 15:40 (1h 40m)*

**Author:** K. NEICHI (Tohoku Gakuin University)

**Presenter:** K. NEICHI (Tohoku Gakuin University)

**Session Classification:** Poster Session

Contribution ID: 43

Type: **not specified**

## **On aging problem of glass resistive plate chambers**

*Monday 10 October 2005 15:40 (1h 40m)*

**Author:** B.SATYANARAYANA (Tata Inst. of Fundamental Research, Mumbai)

**Presenter:** B.SATYANARAYANA (Tata Inst. of Fundamental Research, Mumbai)

**Session Classification:** Poster Session

Contribution ID: 44

Type: **not specified**

## **The study and optimisation of Novel UV photon detectors with resistive electrodes**

*Monday 10 October 2005 15:40 (1h 40m)*

**Author:** P. FONTE (LIP-Coimbra)

**Presenter:** P. FONTE (LIP-Coimbra)

**Session Classification:** Poster Session

Contribution ID: 45

Type: **not specified**

## **ATLAS RPC Thermal Study**

*Monday 10 October 2005 15:40 (1h 40m)*

**Author:** ATLAS RPC LECCE GROUP

**Presenter:** ATLAS RPC LECCE GROUP

**Session Classification:** Poster Session

Contribution ID: 46

Type: **not specified**

## **Latest results on ATLAS RPCs Ageing at CERN's Gamma Irradiation Facility**

*Monday 10 October 2005 17:20 (15 minutes)*

**Author:** A. DI SIMONE (CERN)

**Presenter:** A. DI SIMONE (CERN)

**Session Classification:** Plenary Session IV (Aging of RPCs)

Contribution ID: 47

Type: **not specified**

## **Performance and aging studies of BaBar resistive plate chambers**

*Monday 10 October 2005 17:40 (15 minutes)*

**Author:** H. R. BAND (Univ. of Wisconsin)

**Presenter:** H. R. BAND (Univ. of Wisconsin)

**Session Classification:** Plenary Session IV (Aging of RPCs)