



VI Workshop on Resistive Plate Chambers and Related Detectors

Programme

26th November

8h 30 **Registration**

Opening Session

Chairman: A. Policarpo

9h10

9h20

Welcome

Opening talk

Session I: Physics & Simulation

Chairman: V. Peskov

9h40 G. Aielli

10h00 W. Riegler

10h20 C. Lippmann

10h40 A. Mangiarotti

Logistic Saturated Avalanche Model

Detailed Models for Timing and Crosstalk in Resistive Plate Chambers

Space Charge Effects and Induced Signals in Resistive Plate Chambers

The Time Response Function of Spark Counters

11h00 **Coffee Break**

11h20 V. Golovatyuk

11h40 T. Takahashi

Laser beam studies of RPC behaviour in avalanche mode

Optical study of the features of the streamer images in RPC

Session II: Ageing & Gas Mixtures

Chairman: R. Santonico

12h00 M. Cwiok

12h20 A. Paoloni

12h40 Y. Teramoto

Effect of oiling and gas composition on the stability of the RPC operation

RPC operation at high temperature

Study of the effect of water vapor on a glass RPC with and without freon

13h00 **Lunch**

15h00 A. Yamaguchi

Freonless gas mixtures for glass RPC operated in streamer mode

Session III: Timing

Chairman: Y. Pestov

15h20 C. Finck

15h40 P. Fonte

16h00 M. Petrovici

16h20 Y. Sviridov

Shielded timing GRPC's

Single-Gap Timing RPCs with Bidimensional Position Sensitive Readout for Very Accurate TOF systems

Symmetric Multistrip RPC

Study of Thin Glass RPCs as Prototypes of HARP TOF Detectors

16h40 **Coffee Break**

Session IV: Other R&D topics

Chairman: P. Dupieux

17h00 D. Autiero

17h20 V. Barret

17h40 R. Guida

Test results from a prototype RPC setup for the OPERA Target Tracker

Spatial resolution of RPC in streamer mode

RPC Neutron sensitivity

21h00 **Conference Dinner**

27th November

Session IV: Other R&D topics

Chairman: P. Dupieux

9h00 V. Peskov

9h20 A. Blanco

Potential of RPC's for tracking.

Perspectives for positron emission tomography (PET) with RPCs

Session V: Large Systems I

Chairman: S. Patricelli

9h40 A. Ferretti

10h00 M. Iacovacci

10h20 R. Perrino

10h40 B. Liberti

Aging tests on the low-resistivity RPC for the ALICE dimuon arm

Performance of the RPCs for the ARGO detector operated at the YangBaJing laboratory (4300 m a.s.l).

Assembling Facility of the ATLAS RPCs

Test of ATLAS RPCs Front-End Electronics

11h00 **Coffee Break**

Session VI: Posters

Chairman: R. Cardarelli

11h10

P1 P. Dupieux

P2 S. Mari

P3 R. Messi

P4 G. Pugliese

P5 G. Sehnkaidze

P6 A. Semak

P7 P. Vitulo

P8 M. Ambrosio

P9 G.C. Trincherro

P10 C. Gustavino

A new discrimination technique for better timing performances of single gap RPCs in streamer mode

Study of the performance of standard RPC chambers as a function of bakelite temperature.

The RPC Detector of the LHCb Muon System

Aging studies for the RPCs of the CMS Muon Trigger detector

Cosmic ray tests of RPCs for the ATLAS experiment

Time resolution of four 0.3mm gap RPC with constant fraction discriminator.

Neutron Single Event Upset cross section on CMS FE chips from thermal energy to 60 MeV

Performance of Glass RPC with industrial silk-screening coated electrodes

A Study of New Techniques for Large Scale Glass RPC production

Performance of a readout system for MONOLITH

Session VII: Large Systems II

Chairman: A. Yamaguchi

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|-------|------------|---|
| 11h50 | C. Lu | Mechanisms affecting Performance of the BaBar RPC Chambers and Searches for Remediation |
| 12h10 | J. G. Wang | A study of Energy lose and Radiation for RPC detector at Belle/KEKB |
| 12h30 | Z. Aftab | Test beam Results of the Forward RPC Prototype Chamber for the CMS Muon Detector |
| 12h50 | G. Bruno | The RPC system for the CMS experiment at the LHC |
| 13h10 | Lunch | |

Session VIII: Large Systems III

Chairman: G. Iaselli

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| 15h00 | A. Colaleo | First results on the MB2 barrel muon station for the CMS detector. |
| 15h20 | S. Park | Final Design and the Beam test of the Forward Resistive Plate Chamber for CMS/LHC Experiments |
| 15h40 | J. Wotschack | The RPC time-of-flight system of the HARP experiment |
| 16h00 | D. Della Volpe | Results of long term performance and subsequent laboratory tests of RPCs of the L3 forward-backward muon spectrometer. |
| 16h20 | G. Ganis | Preliminary results from an aging test of a prototype RPC for the LHCb muon system. |
| 16h40 | Coffee Break | |

Session IX: Large Systems IV

Chairman: S. Ratti

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| 17h00 | G. Gustavino | Analysis of the performance of the MONOLITH prototype at LNGS |
| 17h20 | S. Dusini | Design and prototype tests of the RPC system for the OPERA spectrometers |
| 17h40 | J. Lamas Valverde | A Single Time of flight tray based on Multigap resistive plate chambers for the STAR experiment at RHIC |
| 18h00 | | Conclusions |