

Session Program

14-18 Sept 2026

XVIII Conference on Resistive Plate Chambers and Related Detectors

Poster session

Tuesday 15 September

15:20

Poster session

Poster Session |

Location: Rio de Janeiro State University (UERJ) R. São Francisco Xavier, 524 - Maracanã, Rio de Janeiro - RJ, Brazil, 20550-013 |

Conveners: Mapse Barroso Ferreira Filho, Kevin Mota Amarilo

Study of CMS RPC signal shape parameters by using HFO1233ZD gas mixture

Speaker

Dalmo Da Silva Dalto

Simulation of F^- and HF Transport in the RPC Gas Flow

Speaker

Mauricio Thiel

A Study of Muon Production Using Electron Beams and RPC Detection Techniques

Speaker

Tahany Elhussieny Abdelhameid

Aging studies of CMS Improved Resistive Plate Chambers through spectroscopic and microscopic characterization of irradiated HPL

Speaker

Mapse Barroso Ferreira Filho

Neural Network-Based Prediction of CMS RPC Efficiency with Alternative Gas Mixtures

Speaker

Giulia Giannandrea

Composition Analysis of Commercial Tetrafluoroethane Available to Local RPC Laboratories

Speaker

Willian Da Silva

Development and Validation of a Low-Cost Volume-Based Gas Mixing System for CMS Resistive plate chambers

Speaker

Mahdi Majeed S. Almubarak

CMS RPC system consolidation and upgrade for the LHC Phase-II programme

Speaker

Katherine Maslova

Development and Validation of a Thermal Protection Circuit Breaker for the CMS iRPC Front-End Electronics

Speaker

Mehar Ali Shah

A Web-Based Data Acquisition System for Characterization of Particle Detectors

Speaker

Kevin Mota Amarilo

Development of RPC Detector Components with Low-Cost Alternative Materials**Speaker**

Gabriel Campanelli

Long-Term Evolution of the CMS RPC Integrated Charge and Projections for the HL-LHC Era**Speaker**

Jose Antonio Reyes Vega

Extending Garfield++ for Efficient Multi-Stack MRPC Simulation with Space-Charge Effects and Differential Readout**Speaker**

Mr Yiding Zhao

The impact of the RPC system on the trigger primitives in CMS barrel region**Speaker**

Raphael Gomes De Souza

An Optimized Algorithm for Determining CMS RPC HV Channel Working Points**Speaker**

Mihaela Pencheva Pehlivanova

First Simulation Studies of iRPC Reconstruction in CMS**Speaker**

Juhee Song

CMS-RPC Timing Resolution Evolution Under the Longevity Campaign**Speaker**

Mauricio Thiel

An Online Track Reconstruction and Monitoring System for MRPC Cosmic-Ray Detectors Based on CERN ROOT**Speaker**

Dongdong Hu

Performance study of the CMS RPC detector using the Tag-and-Probe method in LHC Run 3**Speaker**

Jongwon Shin

Performance Characterization of CMS iRPC Detectors at GIF++**Speaker**

Silas Santos De Jesus

Low-loss strip-merging extensions for the RPC chambers**Speaker**

Maxime Gouzevitch

Monte Carlo Study of CO₂-Based, TFE- and SF₆-Free Gas Mixtures for Resistive Plate Chambers

	Speakers Guilherme Lickel, Edmilson Manganote
	Quality Control Protocols of CMS iRPC Chambers for Phase-II CMS Muon System Upgrade Speaker Anas Idriss Laayouni El Oudghiri
	Studies of F- production in the ALICE MID RPC detectors during LHC Run 3 Speaker Luca Quaglia
15:50	Development of a Closed-Loop Gas Regeneration System for RPC Detectors Speaker Luis Miguel Domingues Mendes
16:20 18:00	Poster session Poster Session Location: Rio de Janeiro State University (UERJ) R. São Francisco Xavier, 524 - Maracanã, Rio de Janeiro - RJ, Brazil, 20550-013 Conveners: Kevin Mota Amarilo, Mapse Barroso Ferreira Filho