

Session Program

6-10 Nov 2023

3rd International Conference on Detector Stability and Aging Phenomena in Gaseous Detectors

New gas mixtures and gas mixture degradation

CERN, 500/1-001 - Main Auditorium

Tuesday 7 November

15:15

New gas mixtures and gas mixture degradation: New gas mixtures and gas mixture degradation a

Session | **Location:** CERN, 500/1-001 - Main Auditorium | **Convener:** Dr Anatoli Romaniouk

15:15-15:40

Search for environment friendly CO₂ gas mixtures for the glass-based RPC detectors

Speaker

Ashok Kumar

15:40

Thursday 9 November

09:25

New gas mixtures and gas mixture degradation: New gas mixtures and gas mixture degradation 1

Session | **Location:** CERN, 500/1-001 - Main Auditorium | **Convener:** Beatrice Mandelli

09:25-09:50

Towards Sustainable RPC Detectors: Exploring CO₂-Based Gas Mixtures for CERN LHC Experiments

Speaker

Gianluca Rigoletti

09:50-10:15

Exploring Eco-Friendly Gas Mixtures for Resistive Plate Chambers: A Comprehensive Study on Performance and Aging

Speaker

Luca Quaglia

10:15-10:40

Studies on the fluoride production from gaseous detectors operated with fluorinated gas mixtures

Speaker

Maria Cristina Arena

10:40

11:00

New gas mixtures and gas mixture degradation: New gas mixtures and gas mixture degradation 2

Session | **Location:** CERN, 500/1-001 - Main Auditorium | **Convener:** Beatrice Mandelli

11:00-11:25

Studies of eco-friendly gas mixtures for RPC detectors

Speakers

Dalia Lucero Ramirez Guadarrama, Dalia Lucero Ramirez Guadarrama

11:25-11:50

Performance of new generation of Resistive Plate Chambers operating with alternative gas mixtures

Speaker

Giorgia Proto

11:50-12:15

Studies toward reduction or replacement of CF₄ in the CMS CSC working gas mixture

Speaker

Katerina Kuznetsova

12:15-12:40

Study of gas aging impact on detector performance for the development of a new gas circulation system for ACTAR-TPC at GANIL

Speaker

Rojeeta Devi Kshetrimayum

12:40