Mini-Workshop on gas transport parameters for present and future generation of experiments

Report of Contributions

Contribution ID: 2 Type: not specified

Tetrafluoropropene-based gas mixtures for Resistive Plate Chambers: an experimental and simulation study

Thursday 22 April 2021 11:30 (15 minutes)

Presenter: BIANCHI, Antonio (CERN)

Session Classification: Status of measurements of alternative gases for large experiments

Contribution ID: 3 Type: not specified

Characterization of new eco friendly gas mixtures for RPCs mainly based on HFO

Thursday 22 April 2021 11:45 (15 minutes)

Presenter: PROTO, Giorgia (INFN e Universita Roma Tor Vergata (IT))

Session Classification: Status of measurements of alternative gases for large experiments

Contribution ID: 4 Type: **not specified**

Studies on RPC operation with low GWP gases

Thursday 22 April 2021 12:15 (15 minutes)

Presenter: RIGOLETTI, Gianluca (Universite Claude Bernard Lyon I (FR))

Session Classification: Status of measurements of alternative gases for large experiments

Contribution ID: 5 Type: **not specified**

Overview of RPC operation with HFO-CO2 based mixtures at the GIF++ facility

Thursday 22 April 2021 12:30 (15 minutes)

Presenters: RIGOLETTI, Gianluca (Universite Claude Bernard Lyon I (FR)); ECOGAS@GIF++ FOR

RPC DETECTOR COLLABORATION

Session Classification: Status of measurements of alternative gases for large experiments

Contribution ID: 6 Type: **not specified**

Towards Sealed Resistive Plate Chambers

Thursday 22 April 2021 15:30 (15 minutes)

Presenters: VIEIRA LOPES, Luis Alberto (Universidade de Coimbra (PT)); LOPES, Luis (Lip)

Session Classification: Status of measurements of alternative gases for large experiments

Contribution ID: 7 Type: **not specified**

Gas mixture considerations for the CBM TOF system

Thursday 22 April 2021 15:15 (15 minutes)

Presenter: DEPPNER, Ingo-Martin (Physikalisches Institut der Universität Heidelberg)

Session Classification: Status of measurements of alternative gases for large experiments

Contribution ID: 8 Type: **not specified**

Strategies for the reduction of the C2H2F4 emission in the MRPC array of the EEE experiment

Thursday 22 April 2021 14:30 (15 minutes)

Presenters: ABBRESCIA, Marcello (Universita e INFN, Bari (IT)); ABBRESCIA, Marcello (Bari Physics Department and INFN); PANETTA, Maria Paola (INFN - National Institute for Nuclear Physics)

Session Classification: Status of measurements of alternative gases for large experiments

Contribution ID: 9 Type: not specified

Searches for CF4 replacement for the CSC gas mixture

Thursday 22 April 2021 14:45 (15 minutes)

Presenter: KUZNETSOVA, Katerina (NRC Kurchatov Institute PNPI (RU))

Session Classification: Status of measurements of alternative gases for large experiments

Contribution ID: 10 Type: not specified

Options for alternate radiators in LHCb-RICH system

Thursday 22 April 2021 15:00 (15 minutes)

Presenter: EASO, Sajan (Science and Technology Facilities Council STFC (GB))

Session Classification: Status of measurements of alternative gases for large experiments

Contribution ID: 11 Type: not specified

LNF Test results of Resistive Plate Chambers operated with eco-friendly gas mixtures for application in the CMS experiment

Thursday 22 April 2021 12:00 (15 minutes)

Presenter: PICCOLO, Davide (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: Status of measurements of alternative gases for large experiments

Contribution ID: 12 Type: not specified

Introduction

Thursday 22 April 2021 16:00 (20 minutes)

Introduction, Measurement requirements from Simulation point of view, Requests for future development, overview of old measurements used in Magboltz

Presenter: BIAGI, Stephen (University of Liverpool)

Session Classification: Cross Sections, Simulations & Measurement techniques

Contribution ID: 13 Type: not specified

LXCAT

Thursday 22 April 2021 16:20 (15 minutes)

Overview of the LXCat database and future use

Presenters: Prof. CARBONE, Emile (Institut National de la Recherche Scientifique); Prof. PITCH-FORD, Leanne (Laplace, CNRS & Université de Toulouse)

Session Classification: Cross Sections, Simulations & Measurement techniques

Contribution ID: 14 Type: not specified

Laser Measurements @ HZDR

Thursday 22 April 2021 16:35 (15 minutes)

Measurement of Townsend and Attachment coefficient and drift velocity in RPC gas mixtures with UV Laser

Presenters: NAUMANN, Lothar (Helmholtz-Zentrum Dresden Rossendorf (DE)); NAUMANN, Lothar; NAUMANN, Lothar (Forschungszentrum Dresden Rossendorf); FAN, Xingming (HZDR)

Session Classification: Cross Sections, Simulations & Measurement techniques

Contribution ID: 15 Type: not specified

HFO1234ze measurements

Thursday 22 April 2021 16:50 (15 minutes)

Overview of townsend and electron drift velocity measurements at ETZH

Presenters: Prof. FRANCK, Christian (ETH Zürich); Ms EGÜZ, Eda (ETH Zürich)

Session Classification: Cross Sections, Simulations & Measurement techniques

Contribution ID: 16 Type: not specified

T2K gas transport measurements

Thursday 22 April 2021 17:05 (15 minutes)

Presenters: HAMACHER-BAUMANN, Philip (RWTH Aachen University); HAMACHER-BAUMANN, Philip (RWTH Aachen University)

Session Classification: Cross Sections, Simulations & Measurement techniques

Contribution ID: 17 Type: not specified

F-gases usage in the ALICE experiment

Thursday 22 April 2021 09:45 (20 minutes)

Presenter: QUAGLIA, Luca (Universita e INFN Torino (IT))

Session Classification: Experiments at CERN with F gases

Contribution ID: 18 Type: not specified

F-gases usage and reduction strategy plan in the ATLAS and CMS experiments

Thursday 22 April 2021 10:05 (30 minutes)

Presenter: PUGLIESE, Gabriella (Universita e INFN, Bari (IT))

Session Classification: Experiments at CERN with F gases

Contribution ID: 19 Type: not specified

LHCb-RICH detectors and their gas radiators

Presenter: EASO, Sajan (Science and Technology Facilities Council STFC (GB))

Session Classification: Experiments at CERN with F gases

Contribution ID: 20 Type: not specified

R&D for the optimization of the use of greenhouse gases in particle detector systems

Thursday 22 April 2021 10:55 (20 minutes)

Presenter: MANDELLI, Beatrice (CERN)

Session Classification: Experiments at CERN with F gases

Contribution ID: 21 Type: not specified

Use of Cross Sections in Simulations

Presenter: BIAGI, Stephen (University of Liverpool)

Session Classification: Cross sections and Simulation techniques

Contribution ID: 22 Type: not specified

Proposal for a Setup for microscopic gas properties measurement at Bari

Thursday 22 April 2021 17:20 (10 minutes)

Presenter: RADOGNA, Raffaella (Universita e INFN, Bari (IT))

Session Classification: Cross Sections, Simulations & Measurement techniques

Discussion

Contribution ID: 23 Type: not specified

Discussion

Thursday 22 April 2021 12:45 (15 minutes)

Session Classification: Status of measurements of alternative gases for large experiments

Contribution ID: 24 Type: not specified

LHCb-RICH detectors and their gas radiators

Thursday 22 April 2021 10:35 (20 minutes)

Presenter: EASO, Sajan (Science and Technology Facilities Council STFC (GB))

Session Classification: Experiments at CERN with F gases