

Session Program

14-18 Sept 2026

XVIII Conference on Resistive Plate Chambers and Related Detectors *Alternative Mixtures and Longevity*

Tuesday 15 September

09:20

Alternative Mixtures and Longevity

Session |

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

Convener: Gilvan Augusto Alves

09:20–09:40

Eco-friendly gas mixtures for RPCs: results from a long-term ageing study at CERN GIF++

Speaker

Marcello Abbrescia

09:40–10:00

Long-term operation of CMS improved Resistive Plate Chambers with alternative CO₂-based mixture under high irradiation environment

Speaker

Joao Pinheiro

10:00

10:30

Alternative Mixtures and Longevity

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Conveners: Mauricio Thiel, Eliza Melo

10:30–10:50

Material studies on RPC detectors operated with HFO/CO₂-based eco-friendly gas mixtures

Speaker

Luca Quaglia

10:50–11:10

Performance studies of HPL RPC detectors operated with alternatives to R-134a and SF₆

Speaker

Gianluca Rigoletti

11:10–11:30

Towards SF₆-free RPC operation: first results from the RPC ECOGas@GIF++ Collaboration

Speaker

Luca Quaglia

11:30–11:50

Study of ATLAS RPC system performance for increasingly stable and sustainable operation in HL-LHC runs

Speaker

Sinem Simsek

11:50

14:30

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Convener: Luiz Mundim

14:30–14:50

Studies on ALICE MID RPC characteristics after prolonged operation and/or storage

Speaker

Alessandro Ferretti

14:50–15:10

Latest results from Longevity Studies of CMS RPC Chambers towards HL-LHC Operation

Speaker

Reham Aly

15:10