



RPC 2026 • XVIII INTERNATIONAL CONFERENCE ON RESISTIVE PLATE CHAMBERS AND RELATED DETECTORS

Closure Ceremony

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RPC 2026 • Distinguished researchers driving scientific vision and global collaboration



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RPC 2026 • Global experts providing strategic guidance and academic leadership

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Participant Demographics

RPC 2026 • Global Reach & Community Breakdown

21 students and younger researchers are supported fully or **partially**



Total Registrations

100+

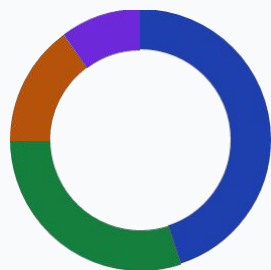
Participants & Researchers Worldwide

Global Representation

18 Countries

Across 4 Continents

Geographic Distribution



■ Host Nation (Brazil): 45%

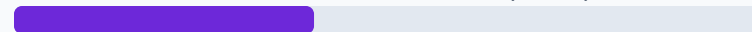
■ Europe: 30%

■ Asia-Pacific: 15%

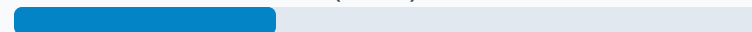
■ Rest of Americas: 10%

Role & Career Breakdown

Senior Researchers / Professors (40%)



Postdoctoral Fellows (35%)

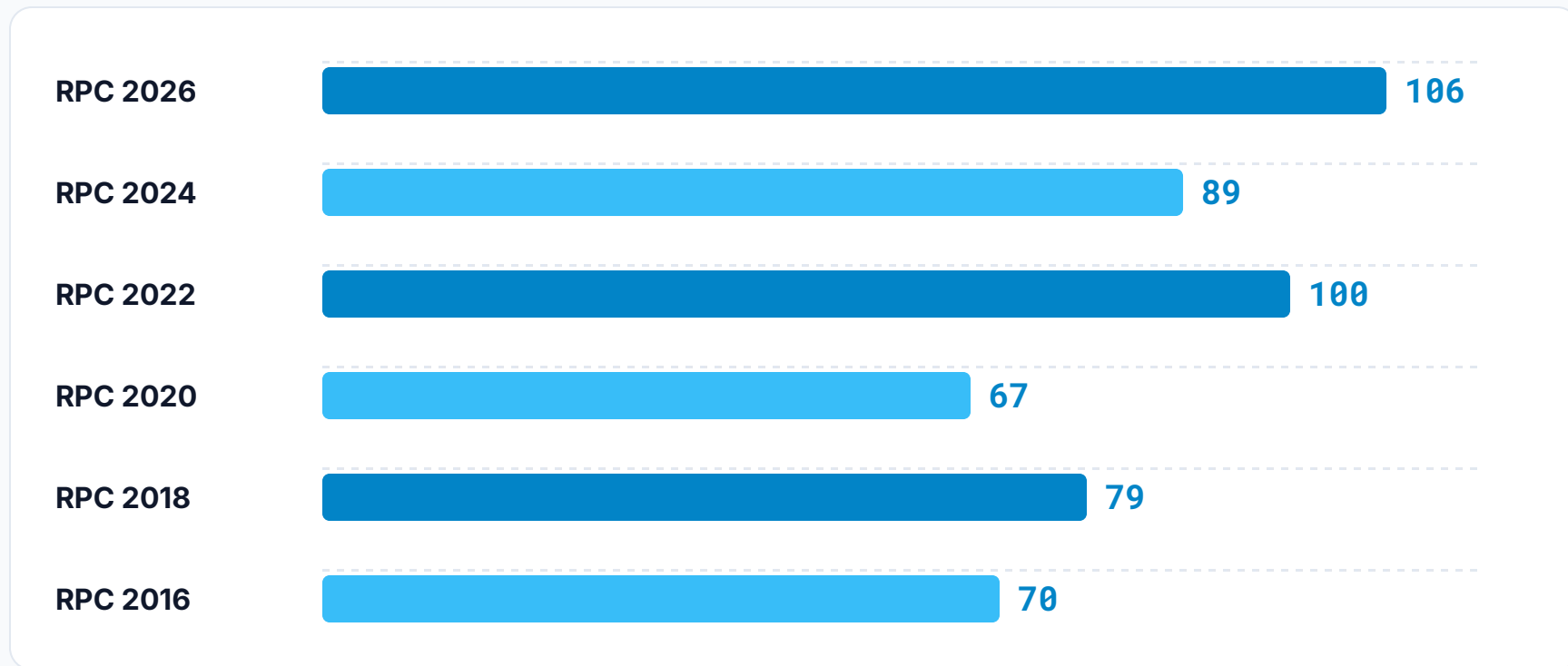


Graduate Students / PhD Candidates (25%)



CONFERENCE PARTICIPATION TRENDS

RPC 2016 - 2026 • Historic growth and community engagement over the decade



SCIENTIFIC PROGRAMME TRACKS

RPC 2026 • XVIII International Conference on Resistive Plate Chambers

DETECTOR OPERATION & PERFORMANCE

HEP Performance

Operation and performance of RPC/MRPC systems in HEP experiments: efficiency, timing, rate capability, trigger/reconstruction, stability, Run & upgrade performance.

MANUFACTURING & QUALITY CONTROL

Production and QA

Detector production, assembly, industrialization, and QA/QC: procedures, acceptance tests, certification benches, reliability, logistics, and commissioning.

INTERDISCIPLINARY USE CASES

HEP and Beyond HEP Applications

Applications in and beyond HEP: muography/tomography, medical imaging (PET), security, neutron detection, and cosmic-ray telescopes with advanced readout.

SUSTAINABILITY & R&D

Alternative Mixtures and Longevity

Eco-gas R&D and long-term operation: low-GWP gas mixtures, recirculation systems, irradiation & aging studies, impurities, and mitigation strategies.

MODELLING & RECONSTRUCTION

Physics and Simulation

Detector and system simulations: signal formation, space-charge/avalanche, transport, irradiation facilities, and modeling-driven physics performance.

NOVEL CONCEPTS & TECH

Applied Research & New Ideas

Exploratory R&D: novel detector structures/materials, front-end electronics/DAQ, timing innovations, and advanced algorithms including Machine Learning.

SCIENTIFIC PROGRAMME STATISTICS

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Tracks	Talks	Posters	Total per Tracker
Alternative Mixtures and Longevity	8	7	15
Applied research and new ideas	10	8	18
HEP and Beyond HEP Applications Techniques	5	1	6
HEP performance	9	5	14
Physics and Simulation	8	5	13
Production and QA	4	1	5
Total Contributions	44	27	71

SPONSORS & INSTITUTIONAL ENDORSEMENTS

RPC 2026 • Supporting technological advances in resistive plate chambers

SPONSORS

Financial Supporters

Key funding agencies supporting the organization of RPC 2026.

CAPES: Brazilian Federal Agency for Support and Evaluation of Graduate Education

FAPERJ: Foundation for Research Support of the State of Rio de Janeiro

INCT CERN-Brazil /CNPq: Federal government research funding support

CERN & DRD1: Gaseous Detector Technologies Collaboration

GSI: Helmholtz Centre for Heavy Ion Research

FAIR: Facility for Antiproton and Ion Research

IHEP: Institute of High Energy Physics, Chinese Academy of Sciences

CLAF: Latin American Physics Center

Elsevier, Rohde & Schwarz and Swagelok Tecflux

ORGANIZERS & PARTNERS

Host & Academic Institutions

Leading research institutions hosting and co-organizing the event.

UERJ: Rio de Janeiro State University (Host Institution)

CBPF: Brazilian Center for Physics Research

UFF: Fluminense Federal University

LIP: Laboratory of Instrumentation and Experimental Particle Physics

ENDORSEMENTS

Scientific Societies

Global and national physics entities providing institutional backing.

SBF: Brazilian Physical Society

IUPAP: International Union of Pure and Applied Physics

DPC-SMF: Division of Particles and Fields of the Mexican Physical Society

PROCEEDINGS & SUBMISSIONS

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PUBLICATION JOURNAL

Nuclear Instruments and Methods A

Papers will be published in a special issue. Please refer to [the Guide for Authors](#) and select article type "VSI: RPC 2026 Conference" on the [Editorial Manager®](#).

TIMELINE

Key Submission Dates

Submission System Opens
October 20th, 2026

Submission Deadline
December 30th, 2026

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Prof. Sandro Fonseca de Souza
UERJ, Rio de Janeiro, Brazil

Prof. Carlos Avila
University of the Andes, Bogotá, Colombia

Prof. Gilvan Augusto Alves
CBPF, Rio de Janeiro, Brazil

Prof. Giuseppe Iaselli
Polytechnic University of Bari, Bari, Italy

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THANK YOU FOR PARTICIPATING

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A Sincere Thanks

To all the researchers, speakers, sponsors, and organizers who made RPC 2026 in Rio de Janeiro an extraordinary success. Your outstanding contributions and active scientific discussions continue to advance the field of gaseous detector technologies worldwide.

Safe Journey Home

We wish all participants and attendees a safe, pleasant, and smooth trip back to your home countries. We look forward to collaborating on new physics insights and seeing you again at our next international meeting.

LOOKING FORWARD TO THE FUTURE

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NEXT EDITION ANNOUNCEMENT

RPC 2028

We are thrilled to announce the next international meeting on Resistive Plate Chambers and related technologies.

The **XIX International Conference on Resistive Plate Chambers (RPC 2028)** will continue our community's tradition of exploring new frontiers, sharing advanced scientific results, and fostering global collaborations in gaseous detector technologies.