



**XVI Workshop on Resistive Plate Chambers and related detectors
(RPC2022) CERN, September 26 - October 1st, 2022**

Bulletin No. 1

The XVI RPC Workshop will be held at CERN in the main Auditorium from the 26th of September to 1st of October 2022.

The workshop will continue a long tradition of scientific meetings, originated in Lecce in 1991 and continued with biannual appointments in Roma, Pavia, Napoli, Bari, Coimbra, Clermont-Ferrand, Seoul, Mumbai, Darmstadt, Frascati, Beijing, Ghent, Puerto Vallarta and Roma.

This edition aims to acknowledge the fundamental role of CERN in detector technologies for the worldwide community of particle physicists.

The RPC detection techniques were largely employed in elementary particle and astro-particle experiments. The workshop will focus on both the performance and possible upgrade scenarios of large RPC systems as well as applications outside the particle physics context.

The most challenging questions in physics are now related to the search for dark matter, long lived particles, astro-particle physics, and physics at high energy colliders. This calls for new challenges in detector layout, front end electronics, materials, gas mixtures, aging and new ideas for improving the detector's performance in the domain of rate capability and space-time resolution.

The workshop will have invited reviews and selected contributions, as well as a poster session. Further information can be found on the workshop website:

<https://indico.cern.ch/event/1123140/>

Local Organizing Committee:

Giulio Aielli, Università Roma Tor V. and INFN, Italy

Roberto Guida, CERN, Switzerland

Ludovico Pontecorvo, CERN, Switzerland

Gabriella Pugliese, Politecnico di Bari and INFN, Italy