

# The $\mu$ -RWELL technology for the preshower and muon detectors of the **IDEA** detector

**IDEA** is detector concept for  $e^+e^-$  collisions considered both by FCC-ee and CEPC. The  $\mu$ -RWELL technology is proposed for the pre-shower and the muon detector.

This resistive single stage amplification MPGD measures the position of charged particle tracks with a resolution better than  $100\mu\text{m}$  with a compact design.

A **resistivity scan** between  $10$  and  $80\text{ M}\Omega/\square$  has been studied with a testbeam to evaluate the charge dispersion effect in order to optimize the strip pitch and the spatial resolution of the detector.

